

# WEEKLY WEATHER AND CROP BULLETIN

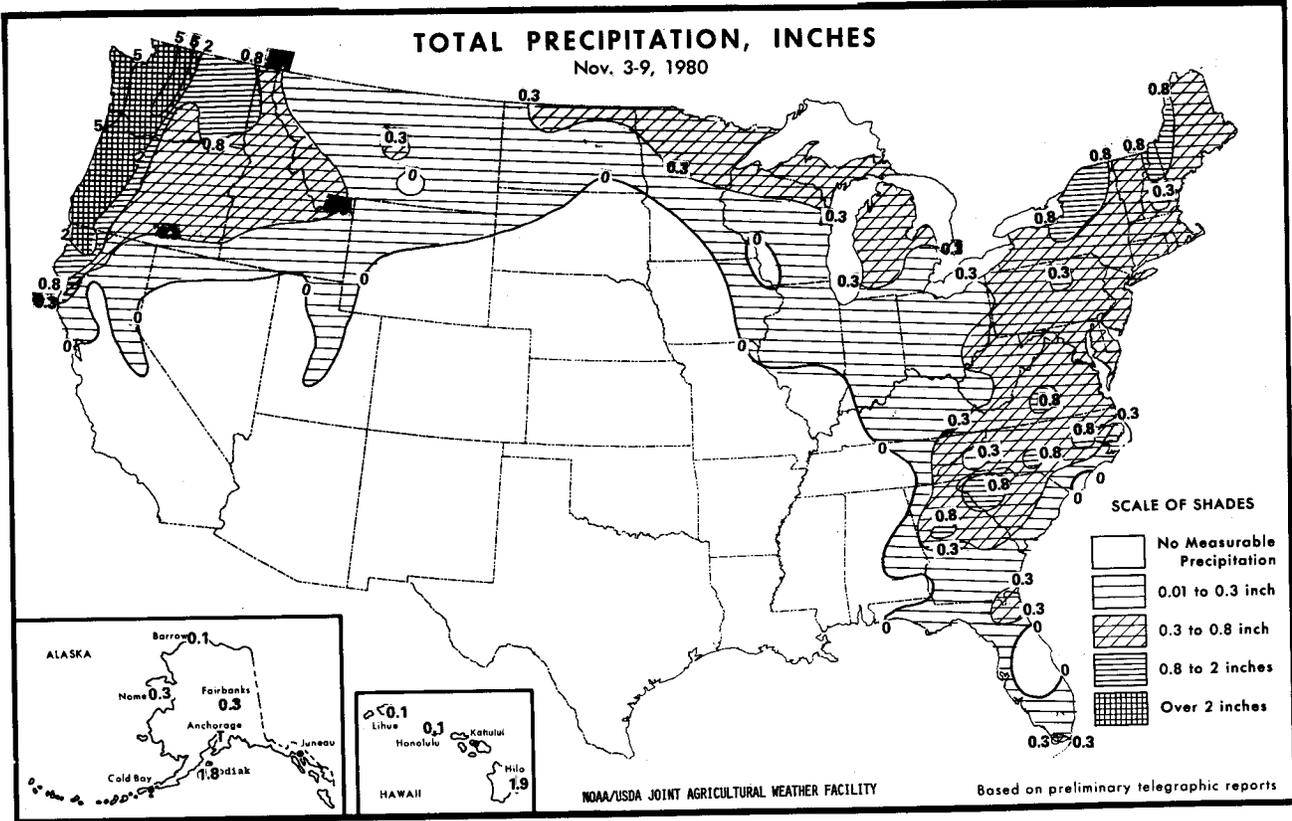
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## National Weather Summary

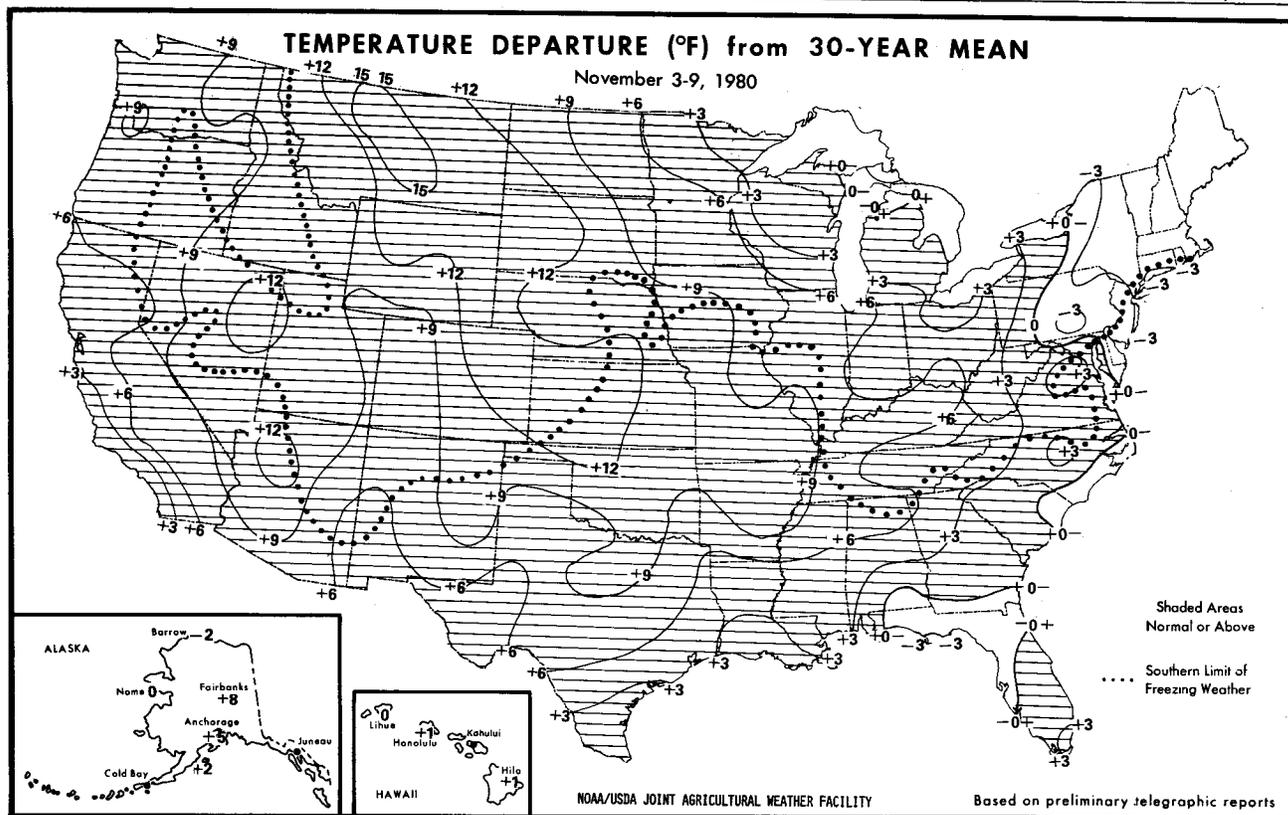
NOVEMBER 3 - 9

**HIGHLIGHTS:** Record-breaking warm weather covered the western two-thirds of the Nation. Temperatures 12 to 15 degrees above normal dominated the western Great Plains and the Southwest. Many high temperature records were set for specific dates and lateness in the fall. The cool spot was New England, which averaged up to five degrees below seasonal. Abundant sunshine and dryness blanketed a large area from the Southwest, across the central and southern Rockies, and into the Delta States. Moderate rains in the East helped replenish reservoirs. Precipitation was light through the Great Lakes and northern Plains, but heavy over the Pacific Northwest. A late season tropical storm began to threaten the Gulf of Mexico.

**MONDAY...**An eastward-moving cold front from the Great Lakes to Texas and a frontal wave over

the Southeast triggered showers over the eastern third of the Nation. Most precipitation was light except in western South Carolina where up to an inch fell. Cool, dry, windy conditions moved into the Great Plains while a large, fair weather system covered most of the West. Rain continued over the Pacific Northwest; up to 2 to 3 inches fell along the Washington coast. Unseasonable coolness blanketed New England where temperatures fell to the teens at night and climbed into the 40's during the afternoon.

**TUESDAY...**The cold front moving into the East Coast brought welcome rain. Half-inch amounts from South Carolina through New Jersey increased reservoir levels and soil moisture. Lighter rains were scattered elsewhere along the East Coast. The large high pressure system expanded into the Plains, to bring freezing temperatures overnight as far south as northwest



Texas. Bright sunshine warmed most of the Nation; temperatures in southern parts of California and Arizona soared into the 90's.

**WEDNESDAY...**A fair weather, high pressure system dominated most of the country but allowed overnight temperatures to dip below freezing through the northern Plains and Great Lakes. Abundant sunshine pushed afternoon readings into the pleasant 60's and 70's over most areas. However, lingering cloudiness and a few sprinkles of rain in the **Northeast** kept temperatures in the cool 40's. In contrast, the west became warmer than normal. A front brought rain into the Northwest, with heavy showers along the Oregon and Washington coasts.

**THURSDAY...**Cooler air pushed further into the Northeast during the night, spreading freezing conditions into Tennessee and Virginia. Warm, southwesterly winds over the central Plains brought afternoon temperatures into the 80's, well above normal. A rainy, quasi-stationary front formed eastward through the northern tier of States. Rainfall was generally light from North Dakota into New England and heavy over the Pacific Northwest.

**FRIDAY...**Rain, a quarter to half inch, blanketed the northern tier of States along the stationary front. Up to an inch of rain also fell in parts of northern California and western Washington as another front pushed into the

Northwest. Near freezing temperatures hovered from the Great Lakes into New England while the rest of the Nation enjoyed afternoon readings from the 60's to the 80's. The West and most of the Plains were unusually warm; many high temperature records for the day were broken.

**SATURDAY...**A low pressure center forming on the front in the Great Lakes brought snow, sleet, and freezing rain to northern Minnesota. Meanwhile windy, drier, colder weather rushed southward into the northern Plains. Rain doused most of the Northeast and the northern Pacific coast. Unseasonable warmth prevailed over most areas west of the Mississippi River. Record-breaking 90° readings dotted Texas and reached into southwestern Kansas during the afternoon.

**SUNDAY...**An intensifying low pressure system moving through the Northeast brought windy, rainy weather. Cool Canadian air pushed southward through the central Plains, ending the unseasonal warm pattern as temperatures dropped 10 to 20 degrees from Saturday's readings. However, temperatures climbed 15 to 20 degrees above normal over the southern tier of States. A late season tropical storm "Jeanne" developed in the northwestern Caribbean, headed toward the Gulf of Mexico, and was of much concern to Gulf residents, fishermen, and offshore oil rig interests.

## National Agricultural Summary

NOVEMBER 3 - 9

**HIGHLIGHTS:** Clear weather allowed farmers to make rapid progress with field activities in nearly all areas of the Nation. Rain caused few delays, and was mostly limited to the Eastern States and the Pacific Northwest. Temperatures averaged well above normal except in the northeast and in Florida where below normal temperatures dominated. Farmers had 5 to 7 days available for fieldwork. Soil moisture was rated short to adequate except in Michigan and Wisconsin where supplies continued adequate to surplus. Winter wheat planting reached 94% finished, equal to a year ago but slightly behind the average progress; 84% of the acreage had emerged. The crop was in fair to good condition although more moisture is needed in most areas. Corn harvest was 94% complete, well ahead of last year's 67% and the 80% average. Soybean harvest advanced to 84% finished, 1 point behind last year but 3 points ahead of normal. Grain sorghum harvest was 92% complete, ahead of last year's 85% and the average of 87%. Cotton picking advanced to 60% complete, compared with 50% a year earlier. Fall plowing progressed ahead of schedule in most areas. Cattle were on fall pastures and crop stubble. Winter wheat fields provided limited grazing.

**CORN:** Corn harvesting in the 17 major producing States reached 94% complete, advancing well ahead of last year's slow progress of 67% and the average of 80%. Progress in all 17 States reporting was ahead of last year and the average. Open weather permitted Michigan farmers to finally surpass the normal progress in their State. Harvest was only a few points from completion in all States except Colorado, Michigan, Pennsylvania, and Wisconsin. Growers in northern areas contended with high moisture content in the corn but in other areas of the Corn Belt moisture content has been low.

**SOYBEANS:** Soybean combining in the 18 major States advanced to 84% complete, 1 point behind last year but 3 points ahead of normal. Harvesting was completed in Illinois, Iowa, and Ohio. Progress in the Delta and the Southeast continued below the average due to earlier delays caused by wet conditions. In other areas, only Minnesota failed to exceed the average progress for this date.

**SMALL GRAINS:** Winter wheat seeding in the 15 major States reached 94% complete, equal to last year but still slightly behind normal; 84% of the acreage had emerged. Planting wound down in all States except California where only 17% of the acreage had been seeded. The crop rated fair to good although more moisture was needed in most areas. Little grazing was available.

**COTTON:** Cotton harvesting in the 14 major States reached 60% complete, 10 points ahead of a year ago. Harvesting in the southwest continues slower than normal as growers wait for

top growth to mature. In Texas and New Mexico, harvesting picked up momentum as killing frosts defoliated plants. In the Delta, harvesting continued well ahead of last year's slow progress, ranging from 92% picked in Mississippi to 96% in Louisiana.

**OTHER CROPS:** The grain sorghum harvest was 92% finished in the 7 major States, compared with 85% last year and the 87% average. Harvesting ranged from 75% complete in Oklahoma to 99% in Nebraska.

Peanut harvest ranged from 60% complete in Texas to 97% in Georgia and 98% in Alabama.

Tobacco growers continued stripping this year's crop in most producing areas. The burley crop in Kentucky was 26% stripped and the Tennessee burley crop was 57% stripped.

The sunflower harvest reached 75% complete in Texas, 79% in North Dakota, and 96% in Minnesota and South Dakota. Dry weather enabled farmers in northern areas to make good progress with harvesting.

**FRUITS AND NUTS:** Northern growers picked a few apples but most growers began orchard maintenance such as pruning, clean-up work, and rodent control. Florida citrus trees were in good to poor condition; irrigation was very active in all areas; harvesting continues to increase primarily for the fresh trade. Arizona citrus groves were in good condition where the lemon harvest was in full swing in the west, the grapefruit harvest was active but limited, and Navel orange harvest began. California growers picked persimmons, pomegranates, olives, and kiwifruit; the Navel orange harvest began and the almond and walnut harvest was ending. The Texas citrus harvest was active; pecan harvesting expanded as shucks split and droppage increased.

**VEGETABLES:** Harvesting in northern areas was about complete except for a very few hardy vegetables that continue to move to market. Florida vegetable shipments increased 1% from the previous week. Growers harvested snap beans, sweet corn, cucumbers, eggplant, green peppers, squash, and tomatoes. Planting of fall and winter crops continued active. California groves also harvested a wide variety of vegetables including broccoli, carrots, cauliflower, celery, lettuce, and potatoes. The market tomato movement decreased seasonally. In east Texas, most warm season vegetables were ended by frost. Growers in other areas of Texas continued harvesting their vegetable crops.

**PASTURES AND RANGES:** Cattle were mostly on fall pastures and crop stubble. Range grass growth has been limited by lack of moisture in many areas. Winter wheat fields provided little grazing.

Weather Data for the Week Ending Nov. 9, 1980

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. 1	PCT. NORMAL SINCE Sept. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
														90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	73	46	77	33	60	5	0	-.7	0	8.4	115	92	44	0	0	0	0
AL MOBILE	79	50	81	43	64	3	0	-.6	0	8.8	88	86	40	0	0	0	0
AL MONTGOMERY	73	44	76	35	59	1	.2	-.4	.2	6.4	86	95	45	0	0	1	0
AK ANCHORAGE	35	26	38	11	30	5	.1	-.3	.1	5.4	126	79	68	0	6	1	0
AK BARROW	8	-4	10	-21	2	-2	.1	0	.1	1.3	130	93	62	0	7	3	0
AK FAIRBANKS	24	11	29	-9	17	8	.3	.1	.1	1.7	85	67	55	0	7	5	0
AK KODIAK	43	34	44	30	39	2	1.8	.5	1.2	15.6	111	69	70	0	3	3	0
AK NOME	31	13	36	1	20	0	.3	0	.1	3.1	72	74	60	0	7	4	1
AZ FLAGSTAFF	69	35	70	28	52	13	0	-.3	0	1.8	49	--	16	0	2	0	0
AZ PHOENIX	89	57	93	55	73	10	0	-.1	0	.1	8	38	13	2	0	0	0
AZ TUCSON	86	52	89	47	69	8	0	-.1	0	3.1	141	35	12	0	0	0	0
AZ WINSLOW	73	32	77	28	53	6	0	-.1	0	.8	50	--	--	0	4	0	0
AZ YUMA	92	56	97	53	74	8	0	-.1	0	0	0	47	16	5	0	0	0
AR FORT SMITH	79	44	85	36	62	8	0	-.8	0	6.4	81	92	33	0	0	0	0
AR LITTLE ROCK	77	54	80	46	65	12	0	-.8	0	7.1	95	74	38	0	0	0	0
CA BAKERSFIELD	79	51	87	48	65	6	0	-.1	0	0	0	--	32	0	0	0	0
CA EUREKA	64	52	71	48	58	5	.8	-.4	.4	2.9	52	89	72	0	0	5	0
CA FRESNO	78	47	83	42	62	6	0	-.2	0	0	0	77	32	0	0	0	0
CA LOS ANGELES	68	57	77	52	62	-2	0	-.3	0	0	0	86	65	0	0	0	0
CA RED BLUFF	75	49	81	41	62	6	T	-.6	T	.9	39	--	36	0	0	0	0
CA SAN DIEGO	70	58	77	55	64	2	0	-.2	0	.1	13	80	63	0	0	0	0
CA SAN FRANCISCO	69	52	79	48	61	3	T	-.4	T	.1	6	92	55	0	0	0	0
CA STOCKTON	77	46	82	42	62	6	T	-.3	T	.1	7	--	39	0	0	0	0
CO DENVER	71	38	76	30	54	12	0	-.2	0	.8	31	50	16	0	1	0	0
CO GRAND JUNCTION	68	37	71	34	52	8	0	-.2	0	1.9	100	66	23	0	0	0	0
CO PUEBLO	76	34	84	26	55	11	0	-.2	0	.5	28	66	14	0	4	0	0
CT BRIDGEPORT	58	39	63	32	48	-1	.8	-.1	.5	7.4	107	73	53	0	2	3	0
CT HARTFORD	53	31	65	20	42	-3	.5	-.5	.3	4.5	58	77	46	0	4	4	0
DC WASHINGTON	66	46	76	37	56	5	.5	-.1	.4	4.9	74	82	50	0	0	2	0
FL APALACHICOLA	74	50	82	41	62	-2	T	-.5	0	8.4	67	80	53	0	0	1	0
FL DAYTONA BEACH	79	56	85	42	67	0	0	-.6	0	4.3	32	90	50	0	0	0	0
FL FORT MYERS	83	63	87	52	73	2	.1	-.3	.1	6.6	49	93	55	0	0	1	0
FL JACKSONVILLE	78	49	84	41	63	0	.4	-.1	.3	6.0	46	93	54	0	0	2	0
FL KEY WEST	82	74	85	69	78	2	.6	-.2	.3	9.6	69	71	68	0	0	2	0
FL MIAMI	84	69	88	60	76	3	.1	-.9	.1	12.7	69	84	57	0	0	2	0
FL ORLANDO	82	56	89	44	69	1	T	-.4	T	4.2	35	92	44	0	0	0	0
FL TALLAHASSEE	76	44	81	34	60	-1	T	-.5	T	11.1	107	88	37	0	0	1	0
FL TAMPA	79	57	85	47	68	-1	T	-.4	T	5.5	59	79	50	0	0	1	0
FL WEST PALM BEACH	84	65	90	53	75	2	.1	-.8	.1	11.1	56	88	53	1	0	2	0
GA ATLANTA	72	46	79	37	59	5	.3	-.4	.2	6.8	103	80	41	0	2	0	0
GA AUGUSTA	72	43	78	35	57	1	.4	-.1	.3	7.2	120	92	45	0	0	2	0
GA MACON	75	47	79	38	61	3	.2	-.3	.2	6.5	107	93	46	0	0	1	0
GA SAVANNAH	74	49	79	40	61	1	.1	-.3	.1	7.5	83	86	45	0	0	1	0
HI HILO	--	--	--	--	75	1	1.9	-2.1	--	23.4	105	--	--	--	--	--	--
HI HONOLULU	86	71	88	68	78	1	.1	-.5	.1	.7	25	80	49	0	0	1	0
HI KAHULUI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HI LIHUE	--	--	--	--	76	0	.1	-1.1	--	15.0	208	--	--	--	--	--	--
ID BOISE	62	43	69	38	52	10	.5	-.2	.4	2.6	163	72	47	0	0	2	0
ID LEWISTON	59	44	70	39	52	9	.6	-.3	.3	2.3	105	87	59	0	0	3	0
ID POCATELLO	60	35	70	26	48	9	.1	-.1	.1	3.3	220	65	28	0	2	0	0
IL CAIRO	71	47	78	38	59	7	0	-.8	0	--	--	--	--	0	0	0	0
IL CHICAGO	61	39	68	27	50	6	T	-.5	T	7.7	118	77	43	0	2	1	0
IL MOLINE	62	38	72	30	50	7	T	-.5	T	4.5	62	77	42	0	1	1	0
IL PEORIA	63	39	69	29	51	7	T	-.5	T	6.6	99	82	46	0	2	1	0
IL ROCKFORD	59	38	70	29	48	7	T	-.6	T	7.6	99	82	44	0	2	1	0
IL SPRINGFIELD	67	42	74	33	55	9	T	-.6	T	6.5	90	85	39	0	0	1	0
IN EVANSVILLE	68	41	80	29	55	6	T	-.7	0	5.5	87	80	36	0	2	0	0
IN FORT WAYNE	59	39	67	29	49	5	.1	-.5	.1	4.6	75	85	48	0	2	1	0
IN INDIANAPOLIS	63	38	70	24	51	5	T	-.7	T	5.0	78	81	40	0	2	1	0
IN SOUTH BEND	61	40	72	32	51	8	.1	-.5	.1	9.1	130	81	48	0	2	1	0
IA BURLINGTON	65	42	71	37	53	8	T	-.4	T	8.6	118	--	15	0	0	1	0
IA DES MOINES	67	40	76	32	54	11	T	-.4	T	3.1	53	68	32	0	1	0	0
IA DUBUQUE	59	39	68	33	49	9	T	-.6	T	9.2	111	79	41	0	0	0	0
IA SIOUX CITY	67	37	77	32	52	11	0	-.2	0	2.7	56	84	29	0	-1	0	0
KS CONCORDIA	74	45	84	36	59	14	0	-.2	0	3.2	60	66	26	0	0	0	0
KS DODGE CITY	78	44	91	37	61	15	0	-.2	0	.3	8	47	17	1	0	0	0
KS GOODLAND	73	36	84	26	55	13	0	-.1	0	2.5	96	58	19	0	2	0	0
KS TOPEKA	74	42	85	35	58	11	0	-.3	0	8.5	133	82	27	0	0	0	0
KS WICHITA	76	43	85	37	60	11	0	-.3	0	2.0	29	80	24	0	0	0	0
KY LEXINGTON	66	42	74	29	54	6	T	-.7	T	4.6	82	79	31	0	1	1	0
KY LOUISVILLE	69	44	79	30	56	8	.1	-.6	.1	6.7	108	73	38	0	1	1	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Nov. 9, 1980

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. 1	PCT. NORMAL SINCE Sept. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
														90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
LA BATON ROUGE	78	48	81	42	63	2	0	.8	0	13.4	176	94	42	0	0	0	0
LA LAKE CHARLES	78	51	81	44	65	2	0	.8	0	9.5	108	96	47	0	0	0	0
LA NEW ORLEANS	80	52	82	45	66	2	0	.7	0	12.2	139	94	49	0	0	0	0
LA SHREVEPORT	81	49	85	38	65	6	0	.8	0	4.2	60	91	41	0	0	0	0
ME CARIBOU	39	24	49	14	32	-4	.5	.3	.4	7.1	91	81	50	7	7	4	0
ME PORTLAND	50	28	57	19	39	-3	.4	.7	.3	6.5	83	89	51	5	5	4	0
MD BALTIMORE	62	39	71	29	51	1	.3	.4	.3	4.4	65	77	44	2	2	2	0
MA BOSTON	55	35	64	28	45	4	.6	.4	.3	5.6	77	72	41	0	0	0	0
MA CHATHAM	55	38	61	30	46	1	.7	.4	.4	6.0	82	87	58	3	3	3	0
MI ALPENA	49	32	61	20	41	2	.3	.3	.2	3.8	62	--	--	4	4	4	0
MI DETROIT	57	36	69	25	46	2	.1	.5	.1	4.4	79	79	48	2	2	2	0
MI FLINT	54	34	67	26	44	2	.2	.4	.2	7.2	126	86	50	0	2	3	0
MI GRAND RAPIDS	56	34	72	26	45	3	.5	.1	.2	7.0	103	87	55	4	4	5	0
MI HOUGHTON LAKE	48	31	63	19	39	1	.5	.1	.2	6.2	91	86	58	5	5	4	0
MI LANSING	55	36	70	25	45	1	.5	.1	.2	5.6	98	90	58	0	3	3	0
MI MARQUETTE	43	25	53	12	34	-4	.6	.3	.5	10.4	153	88	57	5	5	3	0
MI MUSKOGON	52	36	59	27	44	1	.6	.1	.3	7.2	103	90	61	0	2	5	0
MI SAULT STE. MARIE	41	25	48	14	33	-4	.7	.1	.5	6.4	83	85	63	6	4	4	1
MN DULUTH	45	30	58	20	37	4	.4	0	.2	8.6	143	81	57	0	5	3	0
MN INT'L FALLS	41	24	53	6	32	2	.7	.4	.6	6.7	124	94	55	0	6	4	1
MN MINNEAPOLIS	55	37	63	27	46	8	T	.3	T	4.3	86	83	45	0	1	2	0
MN ROCHESTER	56	34	66	26	45	8	T	.3	T	4.8	87	84	47	0	2	1	0
MN SAINT CLOUD	52	33	62	22	43	8	.1	.2	.1	6.9	141	88	--	2	2	0	0
MS JACKSON	77	46	82	35	62	4	0	.8	0	6.6	105	97	41	0	0	0	0
MS MERIDIAN	78	44	81	35	61	4	0	.6	0	10.9	176	98	41	0	0	0	0
MO COLUMBIA	68	45	78	37	56	9	0	.5	0	6.2	70	66	32	0	0	0	0
MO KANSAS CITY	72	44	82	39	58	12	0	.6	0	5.7	72	66	27	0	0	0	0
MO SAINT LOUIS	73	46	79	38	60	11	0	.6	0	6.1	97	79	31	0	0	0	0
MO SPRINGFIELD	74	43	80	39	59	10	0	.6	0	5.9	70	75	29	0	0	0	0
MT BILLINGS	64	43	74	34	54	14	T	.2	0	3.2	123	49	27	0	0	0	0
MT GLASGOW	58	34	66	30	46	13	.1	0	.1	2.3	164	91	42	0	2	1	0
MT GREAT FALLS	61	44	68	33	52	14	T	.1	T	2.5	125	62	33	0	0	1	0
MT HAVRE	61	38	67	32	49	15	T	.1	T	2.7	150	75	45	0	1	1	0
MT HELENA	57	34	60	27	46	11	.2	.1	.2	4.1	256	75	41	0	2	1	0
MT KALISPELL	51	36	57	26	44	10	.2	.1	.1	1.8	64	89	61	0	1	2	0
MT MILES CITY	63	39	71	32	51	14	.2	.1	.2	2.7	135	72	37	0	1	1	0
MT MISSOULA	54	36	66	30	45	10	.5	.3	.4	2.2	100	92	58	0	2	2	0
NE GRAND ISLAND	70	39	82	34	55	12	0	.1	0	2.3	62	70	26	0	0	0	0
NE LINCOLN	69	40	76	32	54	11	0	.2	0	2.3	49	78	28	0	1	0	0
NE NORFOLK	66	38	75	33	52	11	0	.1	0	2.8	72	80	30	0	0	0	0
NE NORTH PLATTE	71	29	82	22	50	10	0	.1	0	1.4	44	78	21	0	5	0	0
NE OMAHA	67	43	79	38	55	12	T	.3	T	4.9	92	89	33	0	1	0	0
NE VALENTINE	66	34	76	24	50	12	0	.1	0	1.9	76	74	29	0	3	0	0
NV ELY	70	29	74	25	49	12	0	.1	0	1.9	173	58	20	0	5	0	0
NV LAS VEGAS	81	51	85	48	66	10	0	.1	0	.2	25	34	17	0	0	0	0
NV RENO	71	32	77	28	52	9	T	.1	T	.7	78	76	24	0	4	0	0
NV WINNEMUCCA	70	30	77	25	50	10	T	.2	T	.5	38	48	21	0	6	0	0
NH CONCORD	50	25	59	13	38	-4	.3	.6	.2	5.1	74	85	42	0	5	3	0
NJ ATLANTIC CITY	60	33	68	19	46	-3	.7	.3	.6	5.7	75	90	52	0	3	3	0
NJ TRENTON	59	39	67	33	49	-1	.6	.1	.4	6.4	96	--	--	0	0	3	0
NM ALBUQUERQUE	74	35	76	33	54	7	0	.1	0	1.9	119	57	16	0	0	0	0
NM ROSWELL	77	41	86	38	59	8	0	.1	0	6.6	220	--	--	0	0	0	0
NY ALBANY	52	28	62	20	40	-3	.3	.3	.3	4.9	73	73	45	0	5	1	0
NY BINGHAMTON	50	30	59	25	40	-2	.5	.2	.3	6.3	91	84	59	0	5	5	0
NY BUFFALO	55	39	64	34	47	4	.7	.2	.4	9.5	127	74	48	0	0	4	0
NY NEW YORK	55	41	63	36	48	-3	.6	.3	.3	4.9	68	71	57	0	0	3	0
NY ROCHESTER	56	35	64	27	46	2	.6	.1	.3	7.8	132	84	49	0	4	4	0
NY SYRACUSE	54	35	62	28	45	0	.9	.2	.2	7.1	106	68	50	0	3	3	0
NC ASHEVILLE	69	39	78	29	54	5	.1	.6	.1	7.1	92	98	40	0	2	1	0
NC CHARLOTTE	68	45	77	35	56	2	.8	.2	.8	7.8	113	87	49	0	0	1	1
NC GREENSBORO	66	42	76	33	54	3	.6	0	.6	5.7	79	87	48	0	0	1	1
NC HATTERAS	66	49	75	37	58	-1	.1	.9	.1	7.8	65	82	60	0	0	1	0
NC RALEIGH	70	44	80	35	57	4	.4	.2	.4	6.3	86	81	45	0	0	1	0
NC WILMINGTON	70	46	79	37	58	-1	0	.7	0	7.5	77	81	52	0	0	0	0
ND BISMARCK	57	33	67	25	45	11	T	.1	T	3.4	155	86	43	0	3	3	0
ND FARGO	51	31	59	23	41	7	.1	.1	.1	3.6	113	87	51	0	3	2	0
ND WILLISTON	55	33	68	27	44	11	T	.1	T	4.0	211	87	49	0	4	1	0
OH AKRON-CANTON	58	38	68	29	48	4	.3	.3	.1	4.0	69	68	42	0	2	2	0
OH CINCINNATI	63	40	71	24	51	4	.1	.6	.1	5.5	96	82	39	0	2	1	0
OH CLEVELAND	58	38	69	25	48	3	.1	.5	.1	5.5	89	59	37	0	2	2	0
OH COLUMBUS	62	41	70	31	51	6	.1	.5	.1	4.6	92	83	35	0	2	2	0
OH DAYTON	60	39	70	27	50	4	.2	.4	.2	4.0	80	83	43	0	2	1	0
OH TOLEDO	58	36	70	25	47	3	T	.5	T	3.6	68	84	46	0	2	1	0
OH YOUNGSTOWN	56	36	66	29	46	2	.3	.4	.2	6.8	106	74	44	0	2	2	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Nov. 9, 1980

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. 1	PCT. NORMAL SINCE Sept. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
														90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OK OKLAHOMA CITY	81	47	87	43	64	11	0	.4	0	3.2	48	72	22	0	0	0	0
OK TULSA	80	48	85	44	64	11	0	.5	0	5.5	69	78	26	0	0	0	0
OR ASTORIA	62	50	66	40	56	8	5.0	2.9	1.7	11.3	90	89	75	0	0	5	4
OR BURNS	56	37	67	31	46	8	.4	.1	.3	1.8	106	95	53	0	0	2	0
OR MEDFORD	63	42	67	36	53	7	1.1	.4	.9	2.9	81	98	58	0	0	3	1
OR PENDLETON	57	44	65	38	50	6	.5	.1	.3	2.4	109	85	56	0	0	4	0
OR PORTLAND	62	49	69	42	56	9	3.5	2.3	1.1	6.6	97	95	72	0	0	6	3
OR SALEM	62	49	65	41	55	8	2.0	.7	.8	5.2	71	92	74	0	0	6	1
PA ALLENTOWN	56	36	64	28	46	0	.6	.2	.4	5.7	77	78	45	0	0	3	0
PA ERIE	55	38	67	30	47	0	.7	.2	.5	12.7	163	--	--	0	0	3	5
PA HARRISBURG	54	35	61	29	44	-4	.4	.3	.2	4.5	73	65	47	0	0	2	0
PA PHILADELPHIA	59	38	67	31	48	-1	.6	.1	.3	8.5	129	82	48	0	0	1	3
PA PITTSBURGH	59	36	70	28	48	3	.4	.2	.2	4.1	68	79	41	0	0	3	4
PA SCRANTON	54	34	64	28	44	-1	.6	.1	.3	4.2	66	72	46	0	0	4	5
RI PROVIDENCE	55	31	64	23	43	-4	.5	.5	.3	4.9	63	85	52	0	0	4	3
SC CHARLESTON	74	48	80	39	61	2	.1	.4	.1	4.4	49	94	49	0	0	1	0
SC COLUMBIA	71	43	81	33	57	1	0	.5	.5	9.3	119	89	45	0	0	0	1
SC GREENVILLE	67	45	76	34	56	2	1.0	.3	.8	9.7	124	79	50	0	0	2	0
SD ABERDEEN	58	33	68	24	46	11	T	.1	T	2.4	77	86	38	0	0	3	0
SD HURON	60	34	65	25	47	10	0	.2	0	1.5	42	87	38	0	0	3	0
SD RAPID CITY	66	38	75	32	52	13	T	.1	T	2.7	123	66	28	0	0	1	0
SD SIOUX FALLS	60	30	66	24	45	7	T	.2	T	2.2	48	83	37	0	0	5	0
TN CHATTANOOGA	72	44	77	31	58	6	T	.8	T	6.1	80	90	40	0	0	1	0
TN KNOXVILLE	67	43	72	31	55	3	.4	.4	.4	4.4	68	86	45	0	0	1	1
TN MEMPHIS	75	54	81	44	65	11	0	.8	0	8.5	127	74	41	0	0	0	0
TN NASHVILLE	71	43	79	28	57	5	T	.7	T	2.3	36	80	35	0	0	1	0
TX ABILENE	82	51	92	46	67	10	0	.4	0	6.9	128	60	25	1	0	0	0
TX AMARILLO	76	40	87	32	58	9	0	.2	0	2.0	51	15	0	0	0	1	0
TX AUSTIN	83	55	87	48	69	7	T	.5	T	7.0	95	84	28	0	0	0	0
TX BEAUMONT	81	53	84	46	67	4	0	.9	0	29.2	286	92	48	0	0	0	0
TX BROWNSVILLE	83	59	85	52	71	1	0	.4	0	4.0	44	91	50	0	0	0	0
TX CORPUS CHRISTI	83	55	86	48	69	2	0	.4	0	7.2	89	83	49	0	0	0	0
TX DEL RIO	87	52	93	48	70	7	0	.2	0	1.9	34	72	27	1	0	0	0
TX EL PASO	79	40	82	37	59	5	0	.1	0	2.8	133	76	18	0	0	0	0
TX FORT WORTH	83	52	88	45	68	9	0	.5	0	7.6	117	75	27	0	0	0	0
TX GALVESTON	75	65	77	60	70	4	0	.7	0	5.3	56	87	65	0	0	0	0
TX HOUSTON	84	54	86	43	69	5	0	.9	0	10.0	101	92	38	0	0	0	0
TX LUBBOCK	78	42	86	36	60	8	0	.2	0	3.7	80	54	18	0	0	0	0
TX MIDLAND	77	42	87	39	60	3	0	.2	0	9.7	285	69	24	0	0	0	0
TX SAN ANGELO	84	48	93	44	66	8	0	.2	0	11.1	222	73	23	2	0	0	0
TX SAN ANTONIO	85	53	86	43	69	6	0	.5	0	6.1	85	82	33	0	0	0	0
TX VICTORIA	83	54	85	46	68	3	0	.6	0	7.0	78	84	42	0	0	0	0
TX WACO	85	53	89	40	69	9	0	.6	0	3.0	45	79	27	0	0	0	0
TX WICHITA FALLS	81	48	88	42	64	9	0	.4	0	11.8	190	78	19	0	0	0	0
UT BLANDING	68	34	72	30	51	9	0	.2	0	1.9	70	67	19	0	0	2	0
UT SALT LAKE CITY	68	40	74	37	54	12	T	.3	T	2.5	109	72	34	0	0	1	0
VT BURLINGTON	46	27	54	16	36	-5	.8	.1	.4	7.7	117	87	67	0	0	5	3
VA LYNCHBURG	64	40	76	28	52	2	.9	.3	.7	5.2	76	83	--	0	0	2	1
VA NORFOLK	68	46	78	33	57	2	.4	.3	.3	6.1	76	75	44	0	0	2	0
VA RICHMOND	66	40	79	30	53	1	.4	.3	.3	9.8	132	88	46	0	0	2	3
VA ROANOKE	65	40	76	30	53	3	.2	.4	.2	4.3	57	71	45	0	0	2	1
WA COLVILLE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WA OMAK	55	38	65	31	47	--	1.2	--	.7	--	--	--	86	0	0	2	6
WA QUILLAYUTE	57	49	65	39	53	7	7.8	4.7	2.8	21.7	104	98	83	0	0	0	7
WA SEATTLE-TACOMA	60	49	71	43	55	8	2.9	1.6	.9	6.4	82	89	74	0	0	0	5
WA SPOKANE	52	41	58	36	47	9	.8	.3	.5	2.3	82	95	77	0	0	0	4
WA WALLA-WALLA	59	50	67	42	54	9	1.0	.6	.5	6.3	217	89	75	0	0	0	0
WA YAKIMA	56	41	62	31	48	7	.7	.5	.3	1.7	142	95	72	0	0	1	3
WV BECKLEY	61	40	67	26	50	5	.3	.3	.2	3.8	58	67	37	0	0	2	2
WV CHARLESTON	66	40	74	27	53	5	.1	.5	.1	4.6	73	70	35	0	0	3	2
WV HUNTINGTON	68	41	76	28	54	5	.1	.5	.1	3.5	61	79	34	0	0	2	1
WV PARKERSBURG	65	42	73	31	53	5	.3	.3	.2	4.0	71	87	45	0	0	2	2
WI GREEN BAY	50	32	61	25	41	3	.2	.2	.1	5.5	95	83	56	0	0	3	0
WI LA CROSSE	54	38	64	26	46	6	T	.4	T	11.0	190	79	55	0	0	1	0
WI MADISON	55	34	64	24	45	5	T	.4	T	9.1	154	88	51	0	0	1	2
WI MILWAUKEE	54	37	62	33	46	5	.2	.3	.1	5.5	96	75	50	0	0	0	0
WY CASPER	62	36	68	27	49	12	0	.2	0	.7	35	62	22	0	0	3	0
WY CHEYENNE	63	36	70	26	50	11	T	.1	T	1.5	71	57	22	0	0	3	1
WY LANDER	61	34	70	26	48	13	T	.2	T	1.7	63	69	28	0	0	3	0
WY SHERIDAN	65	34	76	28	50	13	.3	.1	.3	2.4	92	64	25	0	0	3	1
PR SAN JUAN	90	76	91	74	83	4	.5	.9	.5	11.6	86	85	55	0	0	0	0

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 ESS State offices in cooperation with the National Weather Service.

**ALABAMA:** Temperatures 3<sup>0</sup> above normal. Morning lows around 30 in north. Less than 1.00 in. rainfall in east-central sections.

Fieldwork: 5.3 days. Soil moisture adequate. Activities: Harvest, sowing small grains, chores, care of livestock and poultry. Soybeans: mature 96%, 93% 1979; harvested 70%, 71% 1979, 65% average. Cotton harvested 92%, 54% 1979, 63% average. Peanuts combined 98%. Sorghum harvested 96%, 82% 1979. Wheat seeded 76%, 72% 1979, 75% average. Condition: Wheat fair to good; pasture poor to fair; pecans fair.

**ARIZONA:** Temperatures averaged 6 to 12<sup>0</sup> above normal. No precipitation.

Cotton harvest slower than normal. Growers waiting for top growth to mature prior first picking fields. Cotton harvested to date approximately 40% of total expected production compared to 60% last year and average of 55%. Defoliation, stalk shredding, discing in progress. Sorghum harvest continues. Corn harvest winding down. Normal cultural operations continue on sugarbeets. Many alfalfa fields grazed by sheep, planting new fields, renovation old acreage continues. Lettuce harvest virtually complete Cochise County, central area gaining momentum, west limited. Harvest honeydews, cantaloups tapering off, nearing completion. Harvest mixed greens, green onions, other mixed vegetables making seasonal progress. Lettuce, other mixed vegetables, fall, early winter harvest good stands, growing well. Lemon harvest full swing west, just underway central. Grapefruit harvest active but limited. Harvest navels, miscellaneous oranges underway. Citrus groves generally good condition. Deterioration ranges continuing, dry conditions prevail. Poor north, central areas, southern deserts very poor. Livestock poor to fair. Water short.

**ARKANSAS:** Warm, dry weather prevailed. Highest temperature 85<sup>0</sup>, lowest 25<sup>0</sup>. Departures from normal ranged from +5 to +11<sup>0</sup>. There was no rainfall.

Soil moisture adequate. Fieldwork possible 7 days. Soybeans 55% harvested, 76% 1979, 64% average. Soybeans 97% yellowing, 93% shedding, 87% mature. Cotton 93% picked, 71% 1979, 76% average. Wheat planted after harvest. Oats 89% seeded, 82% 1979, 74% average. Wheat 74% planted, 84% 1979, 73% average. Good stands reported. Cattle fair condition. Lice, worms a problem, treatments being applied. Pastures growing well, supplying much needed cattle feed. Hay harvest virtually complete.

**CALIFORNIA:** Upper level ridging dominated the State's weather but minor disturbances at the beginning and end of the week produced some rain, mainly over the north part. Average temperatures were generally above normal with the southeastern interior showing the largest departures above normal and reversing the trend of the previous week. A number of Desert areas went over the ninety degree mark several days, and, temperatures in the eighties were common in the San Joaquin Valley.

Rice harvest 96% complete. Stubble burning active. Cotton 54% harvested. Winter wheat 17%

planted. Barley planting beginning. Dry bean harvest 85 to 90% complete. Milo and alfalfa hay harvests continue. Field corn harvest almost finished. Pruning, fertilizing, irrigation active. Apples being packed, quality good. Harvesting avocados, quality good. Table grape movement light. Wine grape harvest ending. Harvesting persimmons, pomegranates, olives, kiwifruit. Demand steady for Desert grapefruit and lemons. Lemon quality good. Navel orange harvest beginning, sizes small. Valencia oranges look good. Almond and walnut harvest ending. Broccoli slight decrease Central coast. Cantaloup harvest declining rapidly Desert. Carrot harvest moderate Salinas, Bakersfield. Cauliflower harvest decreased Santa Maria; steady Salinas, South Coast; increasing San Joaquin Valley. Celery harvest peaking Central Coast, starting South Coast. Lettuce harvest decreasing Santa Maria, nearly finished Salinas. Harvest peaking Kern district; active central San Joaquin Valley; increasing Desert. Potato movement continues Riverside, Stockton, Tulelake. Market tomato movement decreasing seasonally. Range grass growth has been delayed by a lack of moisture. Cattle movement from high ranges nearly finished. Supplemental feeding required most areas.

**COLORADO:** Unseasonably warm temperatures. Clear to partly cloudy skies.

Winter wheat emerged 95%, 94% 1979, 98% average. Corn for grain harvested 87%, 74% 1979, 85% average. Sorghum for grain harvested 83%, 54% 1979, 86% average. Sugarbeets harvested 96%, 95% 1979, 96% average. Six and one-half days suitable for fieldwork. Ranges and pastures fair condition. Livestock good condition.

**FLORIDA:** A high pressure brought partly cloudy skies and mild weather on the 3rd. A cool front approached on 4th and resulted in few showers. Cool weather returned on 5th behind the front and high pressure dominated the weather remainder of week. Lows were in the 50's on the 3rd, 60's on the 4th, but cooled to the 40's and 50's Panhandle and North behind the front with 30's Panhandle and North late week. Readings in the 50's prevailed in the South. Highs mostly in the 70's with a few 80's. Rainfall light; mostly under 0.25 in.

Soil moisture adequate North, West; short Central, South. Soybean harvest full swing, nearing completion westernmost counties. Sugarcane harvest increasing. Cotton harvest and ginning active. Seeding small grains resumed in North, West after rains. Pecan harvest active. Pastures continue mostly poor to fair. Cattle fair to good condition. Citrus tree condition good to poor, irrigation very active all areas. Very little new growth, harvest continues to increase primarily for the fresh trade. Irrigation very active. Overall vegetable shipments 1% above previous week. Harvest active snap beans, sweet corn, cucumbers, eggplant, green peppers, squash, tomatoes. Harvest gaining cabbage, carrots, celery, escarole, lettuce. Radish supplies declined. Transplanting of strawberries in the Manatee-Hillsboro area about complete except for

some spot resettlings. Planting most fall and winter crops continues active.

GEORGIA: Temperatures near normal to 2° above central and northern portions, 1 to 3° below eastern and southern. Average near 50° north, 60° south. Rainfall light amounts ranging 0.50 in. northeast, near zero south. Temperatures well above normal, except near normal north.

Soil moisture adequate. Small grain seeding and fall harvest very active. Five days suitable for fieldwork. Corn harvest nearing completion, 99% harvested, 94% last year, average 91%. Soybeans poor to fair, 100% setting pods, 90% dropping leaves, harvested 39%, last year 53%, average 51%. Peanuts mostly poor to fair, 99% dug, last year and average 100%, threshed 97%, last year and average 100%. Cotton poor to fair, bolls open 100%, last year 98%, 92% harvested, last year 76%, average 66%. Apple harvest 99% complete, same as last year. Pecans mostly fair to good, 27% harvested, last year 33%, average 40%. Wheat 46% seeded, 64% last year, 57% average. Rye 74% planted, last year 71%, average 70%. Other small grains 68% seeded, last year 66%, average 68%. Pastures improved, fair to good, hay crops poor to fair. Cattle fair to good, hogs fair to mostly good.

HAWAII: Weather very dry but favorable for crop growth. Only light scattered showers, higher elevations. More rains needed.

Irrigation heavy. Some leafy crops improving from diseases and insects. However, insect damage heavy to tomato fields Island of Maui. Yields affected. Vegetables: supplies adequate, but generally light. Bananas: supplies increasing. Papayas: supplies moderate and decreasing. Pineapple: harvesting light, Sugar: steady harvesting. Pastures: more rains needed in the drier areas.

IDAHO: Temperatures averaged 6 to 12° above normal with near record high temperatures. Cooling trend with showers late week.

Sugarbeet and corn for grain harvests continue. Potato harvest comes to a close. Few remaining acres of winter wheat plantings finished. Plowing, spraying, fertilizing and marketing other main activities. Livestock continue to move from summer ranges. Weaning and vaccinations now active. Operations with fall calving and lambing are making preparations. Feed is in good condition both pasture forage and hay.

ILLINOIS: Temperatures 5 to 9° above normal. Precipitation very light or none.

Soil moisture 38% short, 61% adequate, 1% surplus. Corn 96% harvested, 82% 1979, 85% average. Winter wheat 94% emerged, 90% 1979; condition 11% excellent, 72% good, 17% fair. Plowing 1981 corn and soybean acreage 63% complete, 46% 1979, 43% average. Pastures 2% excellent, 41% good, 50% fair, 7% poor; supplying 43% of livestock roughage requirements, 34% 1979, 48% average. Fieldwork: 7.0 days suitable.

INDIANA: Another excellent week for outdoor activities. Daily highs often in low 60's. Slight precipitation in west and central, and 0.10 in. in east. Daily highs of soil temperatures still in 50's. Sunshine 70% of possible.

Fieldwork averaged 7 days. Topsoil and subsoil moisture adequate. Corn 95% harvested,

1979 70%, average 70%. Corn moisture 17%. Soybeans 99% combined, 1979 94%, average 90%. Wheat 98% seeded, 1979 94%, average 94%. Wheat 90% emerged, 1979 80%, average 80%. Wheat stands mostly good. Spring cropland 55% plowed, 1979 30%, average 25%.

IOWA: Unseasonably warm and dry. Precipitation limited to traces in most areas with only a few hundredths of an inch occurring in central and eastern sections early in week.

Fieldwork: 6.8 days favorable. Topsoil moisture: 24% short, 75% adequate, 1% surplus. Subsoil moisture: 33% short, 66% adequate, 1% surplus. Corn acreage harvested: 98%, 1979 63%, normal 85%. Soybean acreage harvested: 100%, 1979 100%, normal 97%. Fall plowing complete: 46%, 1979 30%, normal 36%. Fertilizer applied: 47%, 1979 32%. Crop yields variable, pasture condition fair to good. Grain movement moderate to heavy.

KANSAS: No precipitation and unseasonably warm. Temperatures averaged 57° northwest to 59 to 62° elsewhere, 10 to 15° above normal.

Corn for grain harvest winding up at 97%, last year 85%, average 90%. Sorghum grain harvest active at 85% completed, last year 80%, average 80%. Soybean harvest full swing at 90%, same as last year, ahead average 75%. Wheat planted virtually complete at 98%, last year 95%, average 98%. Wheat emerged 90%, last year 75%, need rain.

KENTUCKY: Temperatures averaged 8° above seasonal normals. Precipitation very light and confined central and eastern portions. Amounts ranged from a few hundredths in. central to slightly more than 0.33 in. far east.

All days favorable fieldwork. Soil moisture 66% short, 33% adequate. Surface and subsoil moisture very short some areas. Corn 94% harvested, 83% last year and average. Soybeans 92% harvested, 83% last year and 73% average. Wheat 90% seeded. Burley tobacco 26% stripped, little behind normal. Higher humidity needed to bring burley into case. Burley quality good, weight limited by size and number of leaves. Wheat condition fair to good. Pastures poor to good, but below normal. Water in dams and ponds low.

LOUISIANA: No rain. Temperatures 2 to 6° above normal. Extremes: 37 and 85°.

Soil moisture short to adequate. fieldwork: 6.3 days suitable. Cotton harvested 96%, 74% 1979, 77% average. Soybeans harvested 85%, 90% 1979, 87% average. Sugarcane fair, harvested 29%, 38% 1979, 37% average. Vegetables poor to fair. Sweetpotatoes harvested 96%, 93% 1979, 94% average. Pecans harvested 27%, 44% 1979. Pastures poor to fair. Wheat planted 68%, 88% 1979, 82% average, emerged 50%. Livestock fair. Supplemental feeding continues.

MARYLAND AND DELAWARE: Temperatures averaged between 4° below normal and 3° above normal. Highs upper 50's to low 60's. Lows mid 30's to low 40's. Precipitation extremely light.

Soybeans harvested 70%, last year 53%, normal 60%. Small grains seeded, barley nearly completed, rye and wheat 85%. Soil moisture short to adequate. Pasture feed average. Fieldwork: 6.0 days suitable.

MICHIGAN: Temperatures normal to 3° above normal western Upper, normal to 4° below normal eastern Upper. Lower Michigan 2° above normal.

Precipitation totaled 0.40 in. Upper, 0.20 in. to 0.30 in. in northern Lower, 0.50 in. Central and 0.10 in. extreme Southern.

Harvest continued in full swing. Soil moisture adequate to surplus. Corn for grain 70% picked, 50% last year, 69% normal. Harvest moisture 24%. Soybeans 90% harvested, 84% last year, 86% normal. Dry beans virtually complete. Winter wheat seeding virtually complete. Emergence slow due to cool weather. Fall plowing 35% complete, 27% last year, 31% normal. Apple harvest nearly complete.

**MINNESOTA:** Temperatures averaged far above normal in all districts except locally on the North Shore and the extreme north central, 1 to 3° above normal. All other districts 6 to 9° above normal. Precipitation averaged near normal to greater than 0.25 in. above normal in the northern districts, near normal to less than 0.25 in. below normal in the central districts, greater than 0.25 in. below normal in the southern districts. Precipitation totals were light in the southern and central districts with most stations reporting trace or less, up to 0.50 in. in the northwest, 0.25 in. to 0.75 in. in the north central and northeast.

Rapid progress harvesting crops, very favorable weather conditions. Topsoil moisture rated 5% very short, 14% short, 78% adequate, and 3% surplus. Fieldcorn: Picked or combined 94%, 1979 40%, normal 85%; moisture content 19%, 1979 27%, normal 19%. Sunflowers: Combined 96%, 1979 77%, normal 93%.

**MISSISSIPPI:** Temperatures slightly above normal. Extremes: 29 and 85°. No rainfall reported.

Soil moisture adequate. Fieldwork: 5.9 days suitable. Cotton 92% harvested, 61% 1979, 72% average. Soybeans 93% mature, 68% harvested, 70% 1979, 71% average. Corn 97% harvested, 93% 1979, 90% average. Sweetpotatoes 94% harvested.

Pecans 30% harvested, 32% 1979, 41% average. Winter wheat 68% planted, 78% 1979, 80% average; condition fair to good. Pastures fair to poor. Livestock fair condition.

**MISSOURI:** Temperatures averaged 9° above normal. No precipitation received.

Fieldwork: 6.2 days suitable. Grain sorghum 92% harvested, last year 84%, normal 81%. Soybeans 93% harvested, last year 91%, normal 78%. Winter wheat 92% seeded, last year 86%. Cotton 91% harvested, last year 86%, normal 78%. Plowing 51% completed, last year 41%. Condition of pasture poor to fair. Condition of winter wheat fair to good. Topsoil moisture supplies short to adequate.

**MONTANA:** Very mild as temperatures averaged 10 to 15° above normal. Daytime temperatures rose into 60's and 70's at midweek. Highest was 77° at Hardin and lowest 17° at West Yellowstone. Precipitation of 1.50 to 2.00 in. fell over some valleys and mountains of west late in week. Elsewhere precipitation light and spotty, with windy periods.

Moisture supplies adequate except east where subsoil moisture short to adequate. Mild temperatures allowed continued winter wheat development. Sugarbeet harvest finishing up. Livestock in good shape for winter.

**NEBRASKA:** Temperatures: Above normal; some reporting points up 27° from previous week; southern areas maximum temperatures in low to mid-80's. Precipitation: not measurable.

Corn harvest 95%, 65% last year and 75% normal. Panhandle counties passed halfway mark during week. Soybean harvest 99%, 99% last year and 93% normal. Sorghum 99% harvested, 82% last year and 87% normal. Wheat mostly fair to good. Growth and condition improved in east. Topsoil moisture mostly short to adequate. Subsoil supplies mostly short. Wheat and fall crop residues being utilized. Pasture and range feed supplies mostly short to adequate. Days suitable: 6.8.

**NEVADA:** Warm early week with a few new daily high temperature records. Temperatures averaged 6 to 16° above normal. Extremes: 88 and 21°.

Cold front with high winds lowered temperatures as week ended. Precipitation confined to extreme north and lee side of Sierras.

Cotton harvest preparations slow start. Livestock mostly good condition.

**NEW ENGLAND:** Temperatures near normal, however, some record lows were set on the 5th. Precipitation on 4th and 9th amounted to 0.25 in. to 0.50 in. over the region.

**NEW JERSEY:** Temperatures 2 to 3° below normal, averaging: 42° north, 46° south, and 48° coastal areas. Extremes: 19° at several stations and 70° at several stations. Precipitation below normal, averaging: 0.26 in. north, 0.41 in. south and 0.54 in. coastal sections.

Limited movement of hardy vegetables continues. Harvest of field corn and soybeans well advanced. Fall seeded grain and cover crops growing well. Farmers making cider and moving apples and sweetpotatoes from storages.

**NEW MEXICO:** Short supplies of soil moisture most areas. Southern and mountain regions have adequate supply. Light to moderate freezes last week.

Cotton harvest increasing as killing frosts defoliate plants. Alfalfa harvest complete. Grain sorghum harvest 60% complete. Winter wheat and barley continue to show growth in some areas. Some insect problems on eastside. Corn for grain harvest 90 to 95% complete. Ranges in poor to fair condition. Pecan hulls opening most orchards. Livestock good condition with grazing of wheat and barley occurring some areas. Cattle shipments continuing.

**NEW YORK:** Temperatures averaged a few degrees above normal. Maximum temperatures well into the 50's and 60's. All stations reported precipitation, with heavier amounts occurring in the Adirondacks where 2.00 in. were common.

**NORTH CAROLINA:** Temperatures near normal. Precipitation: 0 to 1.50 in., averaged 0.25 in.

Fieldwork: 4.7 days suitable. Soil moisture: 1% very short, 7% short, 84% adequate, 8% surplus. Conditions: Wheat, oats, barley, rye good; pastures fair to good. Harvested: Cotton 89%, 1979 57%, average 58%; sweetpotatoes 91%; sorghum grain 80%, 1979 81%, average 82%; soybeans 27%, 1979 39%, average 30%; corn for grain 96%, 1979 94%, average 93%; peanuts dug 98%; peanuts threshed 94%; apples 91%. Planted: Wheat 70%, average 61%; oats 81%, 1979 82%; barley 82%, 1979 79%; rye 54%, 1979 72%. Soybeans with leaves dropped 83%, 1979 83%.

**NORTH DAKOTA:** Temperatures averaged between 15 and 20° above normal. Extremes: 72 and 21°.

Precipitation occurred last half of week with north central and northeast divisions receiving the most. Greatest snow amount 2 in. northeast.

Dry weather early week enabled farmers to make good progress with sunflower harvest which is now 2 days ahead of last year's pace after being 3 days behind 2 weeks ago. Good progress also made with corn and flax. Harvest progress vs. last week and last year: Sunflower 79, 62, 74; corn 93, 83, 68 and flax 89, 83, 100. Winter wheat rated mostly fair to good; rye mostly good to excellent. Important north central-northeast durum production area going into freeze-up with surplus soil moisture and little fall tillage or fertilizer-herbicide application done. Soil moisture mostly adequate. Cattle still being worked, calves being sold but some held back due to low prices.

UHI0: Temperatures considerably higher this week than the previous one. High temperatures ranged from the upper 60's to the low 70's. Lows ranged from the mid-20's to freezing. Dry weather provided good field working conditions. Precipitation totals were from 0.25 to 0.50 in. below normal in most areas.

Corn harvesting is winding down and soybean harvesting is virtually completed. Commercial grain storage is still tight in most areas. Winter wheat stands rated good in all areas except the north central, where they were reported fair to good. Corn harvested 95%, 65% 1979, 70% average. Soybeans harvested 99%, 90% 1979, 95% average. Sugarbeets harvested 99%, 90% 1979, 85% average. Popcorn harvested 98%, 90% 1979, 85% average. Wheat emerged 90%, 75% 1979. Tobacco stripped 10%, 15% 1979. Days favorable 6.5. Pasture condition good. Soil moisture 28% short, 72% adequate.

OKLAHOMA: Temperatures averaged 5° above normal southeast to 11° above normal Panhandle division. Several locations broke old temperature records. No precipitation.

Weather favorable for harvest of fall crops and growth and development of cool season grasses. Wheat seeded 90%, 95% last year and average. Wheat 65% emerged, 55% 1979, and 85% average. Sorghum 70% harvested, 70% last year and 65% average. Cotton harvested 30%, 20% 1979 and 15% average. Days suitable for fieldwork: 6.8.

OREGON: Temperatures averaged 7 to 10° above normal in most sections. Record high temperatures of 69° reported for Portland and Klamath Falls on 5th. Heavy precipitation occurred along the Coast and Willamette Valley, averaging 2.50 in. Cloverdale received 4.99 in. All sections of State received some precipitation.

Soil moisture supplies mostly adequate. Winter wheat 94% planted, 94% 1980; 79% emerged, 72% 1980; condition good. Filbert harvest completed, some walnuts remaining. Cranberry harvest finishing fast. Potato harvest nearly completed. Livestock condition good. Range and pasture condition good in east; fair in west. Fall feed available.

PENNSYLVANIA: Weekly warming trend began the week and continued into the first part of the weekend. Afternoon highs were mostly in the 60's, with Phillipsburg having the State high of 72°. Morning lows were in the 20's and 30's with Altoona reporting the State low of 21°. Average temperature was 46°. All areas received some rainfall during the week, with the greatest amounts occurring the latter part of the

week. Average precipitation was 0.64 in. with the normal being 0.72 in.

Five days suitable. Soil moisture short to adequate. Activities: Harvesting fruit, corn, soybeans, and sorghum; green chopping dormant alfalfa and grass; stacking corn stalks; spreading lime and fertilizer; and general farm chores. Soybean harvest 90% complete, last year 51%. Corn 78% harvested. Last year 58% harvested. Average 58% harvested. Fourth cutting alfalfa 89%, last year 94%. Hay quality fair to good. Feed from pasture below average to average.

PUERTO RICO: Island average rainfall 1.02 in. or 0.59 in. below normal. Highest weekly total 3.71 in. Temperatures averaged about 81° on Coasts and 76° Interior divisions. Extremes: 95 and 58°.

SOUTH CAROLINA: Most temperatures averaged above normal. Extremes: 27 and 81°. Scattered rains at first included around an inch in Northwest.

Soil moisture adequate. Days available for fieldwork: 6. Cotton harvest completion awaiting dry conditions, a few will scrap; 90% harvested, 79% last year, 77% average. Soybean conditions poor due to previous drought. Delayed killing frost and recent good growing weather keeping soybeans, weeds green and slowing maturity to 57%, 79% last year, 84% average; harvesting some poor yields, few not stressed; 17% lagging 29% year ago, 32% average. Harvesting late crop peanuts, 84% behind 91% last year. Small grains fair to good condition, planting lags 1979 except rye; wheat planted 44%, 52% year ago, 48% average; considerable interest in wheat. Pastures fair condition, winter grazing responding to favorable weather, livestock conditions fair to good. Fall cucumbers fair condition, 94% harvested.

SOUTH DAKOTA: Precipitation: A few sprinkles scattered across State. Temperatures 12 to 17° above normal west and 5 to 10° above normal east. Extremes: 78 and 18°. Precipitation for the year remains below normal except in local areas of the southwest. Southeast 5 to 10 in. below normal. Remainder of State had 5 in. or less below normal.

Weather aided row crop harvest and late emerging winter wheat and rye. Six days suitable for fieldwork. Activities included: Combining, plowing, fertilizing, hauling hay, fixing fence, moving livestock and weaning calves. Topsoil moisture supplies 1% surplus, 60% adequate, 37% short and 2% critically short. Subsoil moisture supplies 19% adequate, 64% short and 17% critically short. Harvest nearing completion ahead of last year and the average. Few storage or transportation problems. Winter wheat and rye rated mostly fair to good. Livestock generally fair to good condition. Stock water supplies short in some areas. Corn harvested 98%, 65% 1979, 85% average. Sunflower harvested 96%, 85% 1979, 92% average. Grain sorghum harvested 96%, 85% 1979, 91% average.

TENNESSEE: Rains in east 4th. Amounts ranged from a trace to 0.72 in. Temperatures averaged 7 to 11° above normal west, 7° above normal middle, 2 to 7° above normal east.

Fieldwork: 5.8 days suitable. Soil moisture 66% short, 34% adequate. Pastures 62% poor, 34% fair, 4% good. Cattle fair, marketings heavy due to pasture shortages. Activities: Harvesting

corn, cotton, beans; stripping tobacco; cutting wood. Corn 92% harvested, 1979 84%, average 70%. Cotton 93% harvested, 1979 56%, average 66%. Soybeans 85% harvested, 1979 74%, average 60%. Burley tobacco 57% stripped, 1979 62%, average 59%. Fall land preparation 87% complete, 1979 85%, average 83%. Winter wheat 85% seeded, 1979 83%, average 79%. Oats and barley both 95% seeded.

**TEXAS: Weather:** Clear skies, warm afternoons, mild nights prevailed. Temperatures were 10° above normal northwest, north central, West Texas, 6° above normal south, south central Texas, near normal East Texas, Lower Valley, Coastal sections. No measurable rainfall reported.

**Range and Livestock:** Range, pasture conditions showed slight improvement under warmer temperatures. Although grasses short most areas, some grazing available. Supplemental feeding continues. Livestock remain in fair to good condition.

**Commercial Vegetables:** In Lower Rio Grande Valley harvest bell peppers, cucumbers, squash active. Seeding of spring onions continued, harvest of citrus fruit active. In Coastal Bend area fall vegetables made good growth. In San Antonio-Winter Garden area cabbage harvest gains momentum. Spinach in fair to good condition. Onions beginning to emerge. In East Texas most warm season vegetables ended by frost. Sweetpotatoes harvest nearing completion. In Trans-Pecos area harvest of red chile peppers, lettuce, cabbage, green peppers active, carrots continued. Some have emerged. Pecan harvest continued to expand as shucks split and droppage increased.

Cotton harvested 49%, 39% 1979, 40% average. Sorghum harvested for grain 97%, 93% 1979, 95% average. Wheat planted all purposes 86%, 92% 1979, 92% average. Corn for grain harvested 99%, 100% 1979, 99% average. Peanuts harvested 60%, 98% 1979, 90% average. Soybeans harvested 64%, 78% 1979, 75% average. Sugarbeets harvested 28%, 59% 1979, 60% average. Pecans harvested 16%, 21% 1979, 23% average. Sunflowers harvested 75%, 99% 1979, 88% average.

**Crops:** Warm days, cool nights allowed harvesting to progress rapidly. Under dry conditions cotton, sorghum harvest continued, but small grains hampered by moisture shortage. Cotton harvest picked up pace, now 49% complete. Effects of summer's drought seen in low yields. Sorghum harvest closer to completion. Some freeze damage northern counties. Corn harvesting wrapping up. Drought reduced yields, caused many fields to be grazed, abandoned. Planting of small grains continued. Irrigated fields making excellent stands, dryland fields in need of moisture. Some fields providing limited grazing. Oats progressing slowly, some replanting necessary Cross-Timbers, Blacklands. Wheat condition 9% excellent; 37% good; 33% fair, 21% poor. Peanut harvest continued. Many dryland fields have developed poorly, will be cut for hay. Quality has been low. Soybean harvest active Statewide. Progress slightly behind following rain delays. Hay harvest nearing completion, light reports of cutting. Cool temperatures halted most growth.

**UTAH:** Few isolated showers or snow flurries over weekend. Accumulated amounts moisture generally light. Rising trend in temperatures forepart period but falling over weekend. Averages ranged between 1° above and 13° above.

Harvest virtually complete. Corn for grain being harvested. Growers preparing ground for next year. Fall planted small grains progressing well. Breeding of range sheep for spring lambing. Turkey processing in progress for holiday season.

**VIRGINIA:** Cool during first part of week, warming Friday into weekend. Daytime highs mainly in 50's, 60's rising well into 70's by weekend. Rainfall amounts around 0.50 in. most areas 4th, 5th. Rain again on 9th amounted to less than 0.25 in. over most locations.

Rain aided pasture, small grain growth, but slowed fall harvests. Heavy frost speeded soybean maturation east. Topsoil moisture short to adequate. Fieldwork: 4.8 days available. Harvest progress: Corn 91%, 82% 1979, 84% average; soybeans 40%, 52% 1979, 49% usual; grain sorghum 42%, 50% 1979, 48% average; peanuts virtually all dug, 95% threshed. Wheat 78% seeded, 65% 1979, 70% average. Forage from grazing: Dairy cattle 20%, 30% 1979, 28% average; beef cattle 71%, 91% 1979, 80% usual; sheep 82%, 96% 1979, 86% average. Fall calving began north. Livestock sales continued. Other tasks: Fall plowing; spreading lime, fertilizer; fencing; soil sampling; preparing for hunt season.

**WASHINGTON: West:** Week began with a mixture of showers and sunshine. Remainder of week consisted of rain, heavy at times. There was concern of possible flooding in low areas. Celery and carrots did continue and will be extended as long as weather permits. Sweet corn harvest reported complete. Silage corn harvest and green chopping of grass continued limited basis. Pasture forage remains adequate for limited grazing continuing. Some supplemental feeding begun.

**East:** Good fall weather continued with above normal temperatures. Soil moisture improved for winter period by precipitation of 2 to 3 times normal amounts. Seeding of winter wheat and barley complete with crops reported in average to above average condition. Fruit harvest completed, with rodent control and orchard clean-up main activities at present. Corn being harvested which was slowed due to high moisture. Generally, adequate supplies of hay and forage exist, with some isolated shortages of forage reported.

**WEST VIRGINIA:** Temperatures averaged slightly above normal. High 76° Huntington, low 14° Greenbank. Precipitation averaged below normal. Soil moisture adequate to short. Days suitable for fieldwork: 5.4. Major activities: Corn harvesting, livestock work. All feed supplies adequate. Pastures fair to good. Some areas of State report stress on pasture and fall grains due to lack of precipitation.

**WISCONSIN:** Temperatures about 20° above normal, with wide fluctuations. Highs in 60's 3rd and 6th, 40's 5th and 7th. Lows mostly 20's and 30's. Extremes: 68° and 16°. Precipitation continued light, ranging from 0.40 in. northwest to less than 0.10 in. southwest. Light rain eastern half 3rd and light snow north. Light rain south 7th and 8th, with snow 1 to 2 in. north.

Crop harvest continued to make good progress. Fieldwork: 7 days suitable. Corn for grain 75% harvested, 1979 40%, normal 70%. Most farmers will be finished by mid-November except for those fields that need to freeze solid enough to support machinery. Yields very

good, corn moisture low, and quality good. Storage facilities full. Many corn stalks being chopped for feed and bedding. Soybeans 90% combined, 1979 67%, normal 84%. Fall plowing 38% done, 1979 34%, normal 45%. More chisel plowing being done this fall. Fertilizer being applied. Harvest completed for fruits and vegetables. Early tobacco being stripped. Soil moisture 67% adequate, 33% surplus.

WYOMING: Temperatures well above normal as records fell throughout area. Extremes: 77 and

90. Only three reporting stations received measurable amounts of precipitation.

Open weather allowing excellent progress harvesting late season crops. Sugarbeet harvest in wind up stages. Corn for grain harvest continuing. Winter wheat fair to mostly good condition, additional moisture needed for optimum development. Livestock producers moving livestock to winter pasture. Some livestock being marketed.

CROP PRODUCTION HIGHLIGHTS

CORN production is forecast at 6.46 billion bushels, virtually unchanged from last month, but 17 percent less than last year's record crop.

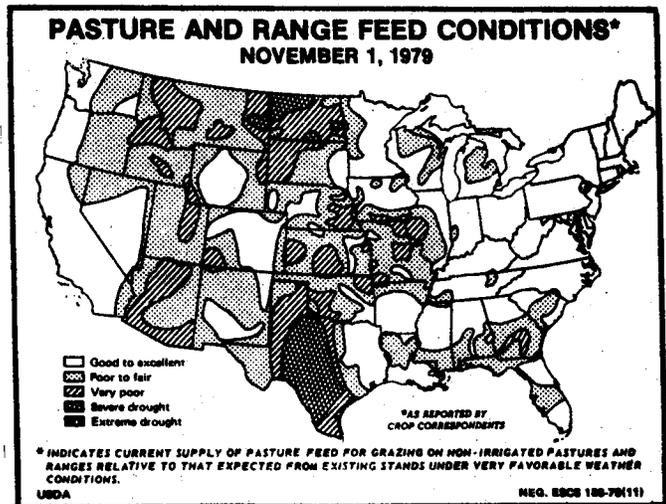
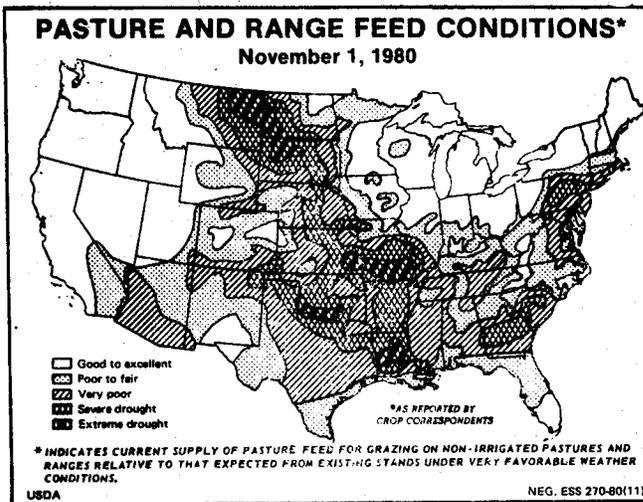
GRAIN SORGHUM production is forecast at 551 million bushels, down 32 percent from last year.

FEED GRAIN production (corn, sorghum, oats and barley combined) is forecast at 192 million metric tons, off 18 percent from last year's production of 234 million metric tons.

SOYBEAN production is forecast at 1.77 billion bushels, up 1 percent from last month's forecast but 22 percent less than last year's record crop.

OILSEED production (soybeans, cottonseed, peanuts, flaxseed and sunflowers) is forecast at 55.4 million metric tons, down 23 percent from last year.

ALL COTTON production is forecast at 11.2 million bales, 23 percent less than 1979 and 3 percent below the October 1 forecast.



# International Weather and Crop Summary

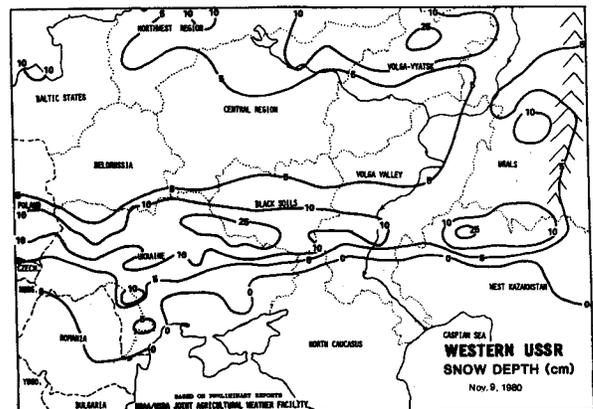
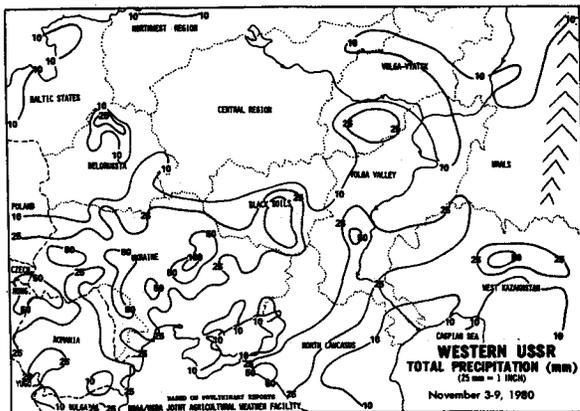
November 3 - 9

## HIGHLIGHTS

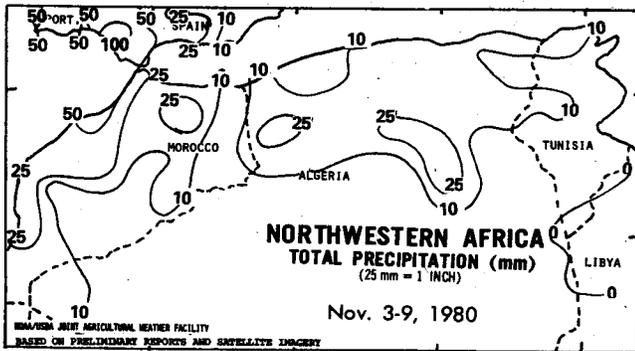
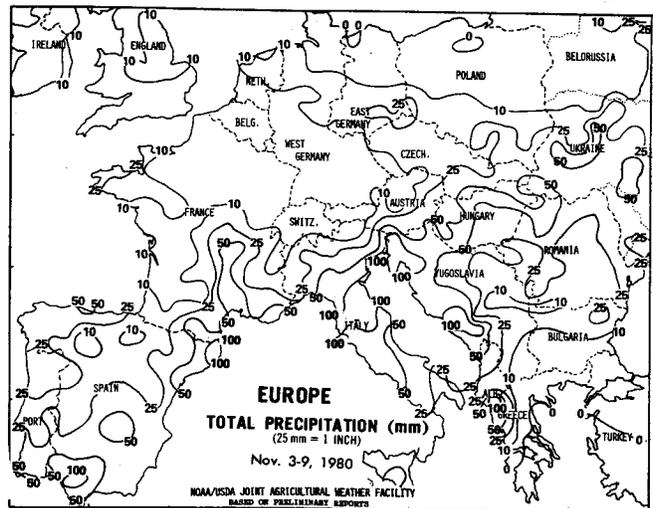
- WESTERN USSR:** Above-normal precipitation across the south and into the Volga Valley fell as snow in all but the north Caucasus and southern Ukraine. Low temperatures maintained the snow cover and stopped winter grain growth earlier than normal in the south.
- EUROPE:** Wet weather in southern and eastern countries was good for winter grains but unfavorable for maize harvesting. Snow and low temperatures in central areas brought winter grain growth to a halt.
- SOUTH AFRICA:** While showers provided favorable planting conditions in the northern portion of "The Maize Triangle", dry weather in much of the maize-growing region continues to hamper sowing and early growth.
- NORTHWESTERN AFRICA:** Rainfall benefited winter grains in most areas. Greatest totals fell in Morocco, but dry conditions persisted in western Algeria.
- AUSTRALIA:** Dry weather continued in Australia's wheat belt, except for southeastern crop areas. The wheat harvest should be in full swing except in Victoria. Spring-planted sorghum in Queensland has a good early season moisture supply.
- EASTERN ASIA:** Virtually rainless weather favored rice harvesting in southern China and South Korea.
- SOUTHEAST ASIA:** Seasonally dry weather early in the week was followed by above-normal rainfall which will benefit late season crops and irrigation reserves.
- SOUTH ASIA:** Only the southern tip of India received substantial rainfall -- a normal pattern at this time.
- MEXICO:** Seasonally sunny, dry weather over the north favored harvesting of citrus and cotton and growth of vegetables on the west coast.
- SOUTH AMERICA:** Wet weather continues to provide good soil moisture conditions for early growth of soybeans and maize in most major crop areas of Brazil as well as in northern Buenos Aires and adjacent provinces of Argentina. Drier weather prevailed in southern and western portions of Argentina's wheat belt as the harvest season begins.

**WESTERN USSR.** High pressure kept most of northwestern European USSR relatively dry, but above-normal precipitation occurred across the south and into the Volga Valley. The moisture fell as rain in the North Caucasus and southeastern Ukraine, but snow accumulated to substantial depths (more than 10 cm) from the western Ukraine eastward through the Chernozem Region and Volga Valley into the southern Urals.

Depths exceeded 25 cm in some important crop areas, effectively curtailing harvest activity. Low temperatures assured that the snow would remain for a while, and stopped winter grain growth (at least temporarily) earlier than normal in the south. Substantial portions of spring-planted crops reportedly remained either unharvested or exposed in the fields.

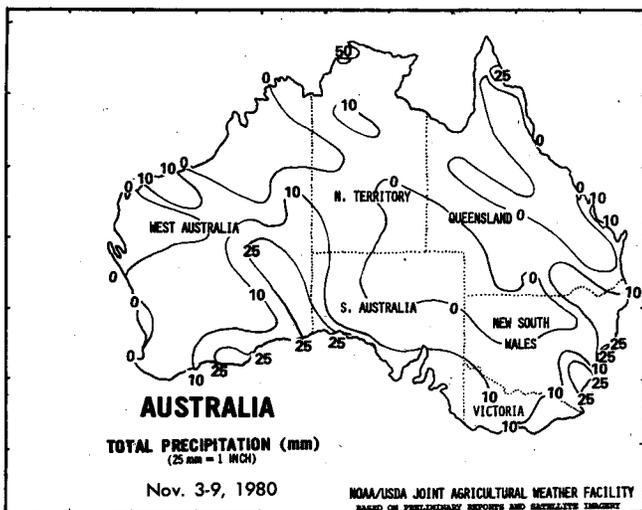
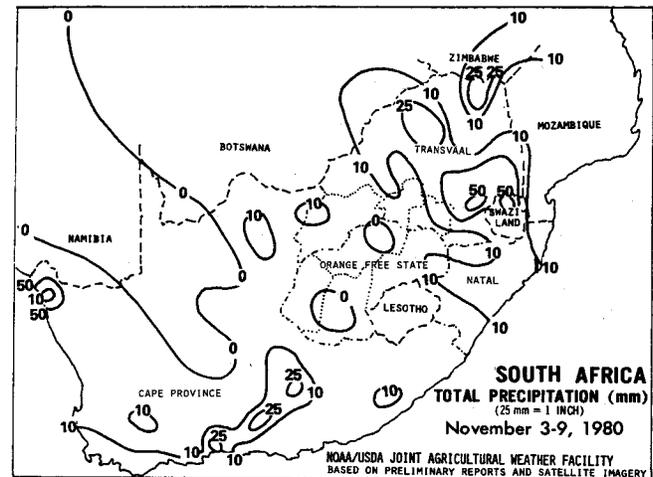


**EUROPE.** A stationary high-pressure system in the northeast kept precipitation to the south for much of the week. Above-normal totals fell in most Mediterranean countries and northeastward into eastern Europe. The moisture fell as snow in many areas, making conditions in the east quite unfavorable for maize harvesting. Temperatures dipped far below normal in all central and northern countries, bringing winter grain growth to an abrupt halt, but conditions should warm again, at least enough for renewed growth in central areas. The abundant rainfall in the south benefited winter grains, and temperatures remained warm enough for continued growth.



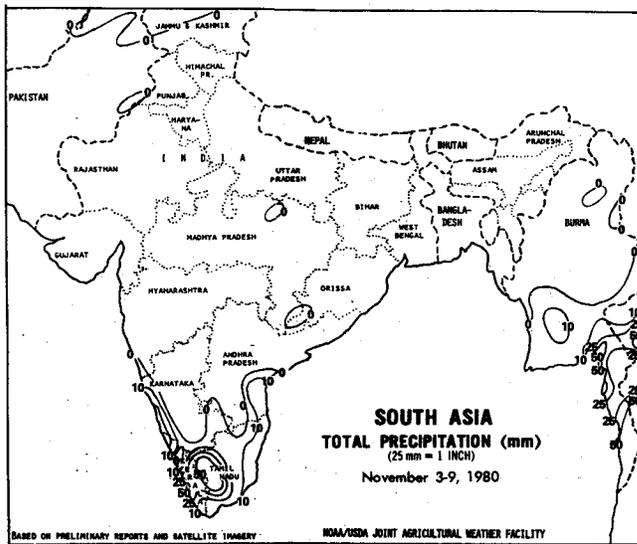
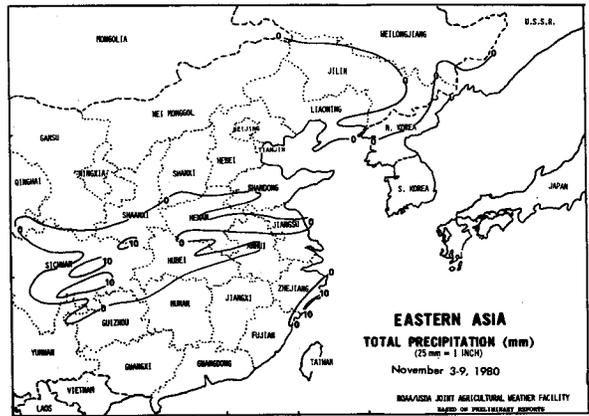
**NORTHWESTERN AFRICA.** Storms in southern Europe brought rains southward into all northwestern African grain areas. The greatest totals fell in Morocco, replenishing soil moisture following two relatively dry weeks. Winter grain there should now be in good condition. Lighter rains in grain areas of Tunisia and eastern Algeria maintained adequate moisture for the crop, but conditions in parts of western Algeria remained unfavorably dry. If winter grains have not yet been seeded in this dry area, they could wait until as late as December without serious losses in yield potential.

**SOUTH AFRICA.** The northern portion of the Maize Triangle received about 10 mm of rain. Showers over the past three weeks have spurred maize planting. However, dry weather in southern portions of the Transvaal and most of the Orange Free State continues to hamper sowing. The lateness of the rainy season has meant poor soil moisture supplies at present, prompting likely crop stress if hot, dry weather occurs during the reproductive period later in the crop cycle.



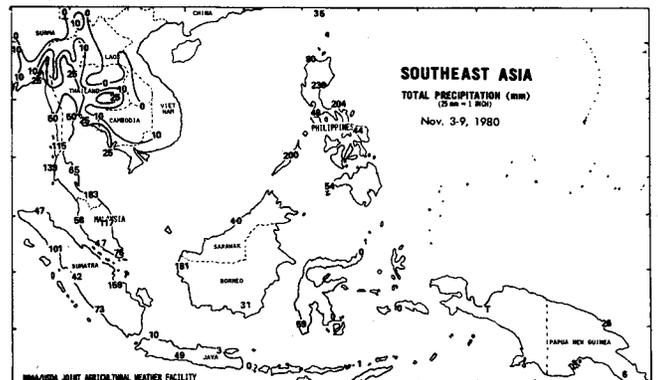
**AUSTRALIA.** Dry weather prevailed in western Australia and much of New South Wales as the wheat harvest hit full swing in many areas, except in Victoria where the harvest is usually about a month later. A storm dropped 10 to 20 mm in South Australia and Victoria as it worked its way eastward. Thus, while the weather is favorable for the wheat harvest, soil moisture supplies remain short in all areas except southeastern Australia. The good rains of late October in Queensland need to be supplemented with additional moisture to sustain spring-planted crops during their vegetative growth.

**EASTERN ASIA.** Very little precipitation fell in most agricultural areas of China. Even the highest amounts of 10 to 15 mm which fell in the Sichuan Basin did not exceed normal. This weather was excellent for rice harvesting in southern China, and similar weather also prevailed in South Korea. Winter wheat in China continued its growth, helped by good soil moisture.



**SOUTH ASIA.** Only the southern tip of India received substantial rainfall during the week. This pattern is fairly normal for November. Light rainfall may occur across the north, but November is one of the driest months of the year. Winter grains should have adequate soil moisture in most areas.

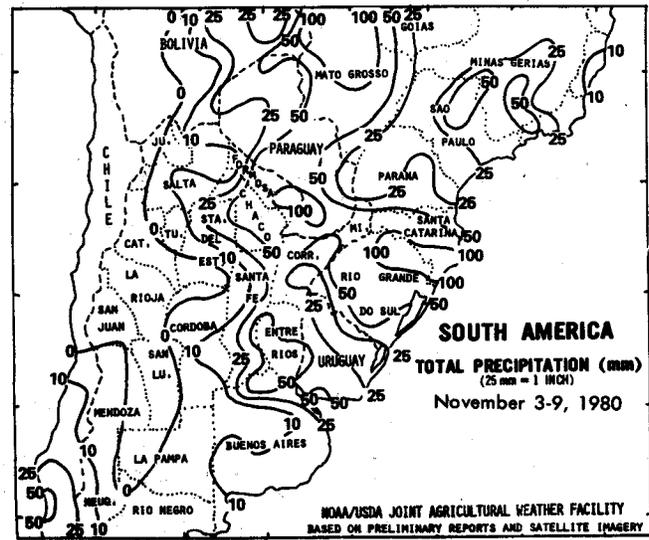
**SOUTHEAST ASIA.** The first half of the week was dry in Thailand, but showers late in the week produced 25 to 50 mm of rain in the Central Plains, north of Bangkok. Weekly totals were well above normal; this rain should help sustain reservoir levels for later irrigation purposes. The moisture should also benefit late-planted wet season crops. Rainfall amounts are expected to decrease significantly in Thailand during the upcoming weeks as the Intertropical Convergence Zone (ITC) now seems to be reasonably well-established south of the equator.





**MEXICO.** Seasonal sunny, dry weather over the north favored harvesting of citrus and cotton and growth of west coast vegetables. Light showers across the Southern Plateau slightly improved soil moisture for late corn. Heavy showers again doused the Bay of Campeche coastal plain, interrupting harvest of corn, beans, and other mature crops. Heavy showers extended into Central America. Tropical Storm Jeanne formed in the extreme northwestern Caribbean on the 9th. The dry southwestern quadrant of the storm was over the Yucatan Peninsula, and heavy rain threatened western Cuba.

**SOUTH AMERICA.** In Brazil, abundant rainfall has provided good soil moisture conditions for emergence and early growth of soybeans and maize in most southern and central crop areas. Moisture supplies were somewhat short in northern crop areas of Sao Paulo and Minas Gerais, but 25 to 50 mm of rain did fall in portions of these two areas. Argentina's maize crop in northern Buenos Aires and adjacent provinces benefited from 10 to 50 mm of rain. Generally less than 15 mm fell in southern Buenos Aires, and minimal amounts fell to the west. The wheat harvest should be underway in Argentina with yield prospects likely affected by dry weather in September.



**CROP PROGRESS**

FOR WEEK ENDING NOV 9, 1980

WINTER WHEAT % EMERGED			
	1980	1979	AVG.
CALF	0	NA	NA
COLO	95	94	98
IDA	90	82	90
ILL	94	90	NA
IND	90	80	80
KANS	90	75	NA
MO	84	NA	NA
MONT	99	NA	NA
NEBR	100	100	100
OHIO	90	75	NA
OKLA	65	55	85
OREG	79	72	NA
S DAK	100	100	100
TEX	78	67	NA
WASH	95	85	NA
15 STATES	84	NA	NA
EXCL. STATES WITH NA	83	77	91

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

CORN % HARVESTED			
	1980	1979	AVG.
COLO	87	74	85
GA	99	94	91
ILL	96	82	85
IND	95	70	70
IOWA	98	63	85
KANS	97	85	90
KY	94	83	83
MICH	70	50	69
MINN	94	40	85
MO	97	76	80
NEBR	95	65	75
N C	96	94	93
OHIO	95	65	70
PA	78	59	58
S DAK	98	65	85
VA	91	82	84
WIS	75	40	70
17 STATES	94	67	80

THESE 17 STATES PRODUCED 93% OF THE 1979 CORN CROP.

SOYBEAN % HARVESTED			
	1980	1979	AVG.
ALA	70	71	65
ARK	55	76	64
GA	39	53	51
ILL	100	100	98
IND	99	94	90
IOWA	100	100	97
KANS	90	90	75
KY	92	83	73
LA	85	90	87
MICH	90	84	86
MINN	96	92	97
MISS	68	70	71
MO	93	91	78
NEBR	99	99	93
N C	27	39	30
OHIO	100	90	95
S C	17	29	32
TENN	85	74	60
18 STATES	84	85	81

THESE 18 STATES PRODUCED 94% OF THE 1979 SOYBEAN CROP.

WINTER WHEAT % PLANTED			
	1980	1979	AVG.
CALF	17	22	NA
COLO	100	100	100
IDA	100	100	100
ILL	99	100	98
IND	98	94	94
KANS	98	95	98
MO	92	86	NA
MONT	100	100	100
NEBR	100	100	100
OHIO	100	100	100
OKLA	90	95	95
OREG	94	94	NA
S DAK	100	100	100
TEX	86	92	92
WASH	100	99	NA
15 STATES	94	94	NA
EXCL. STATES WITH NA	95	96	97

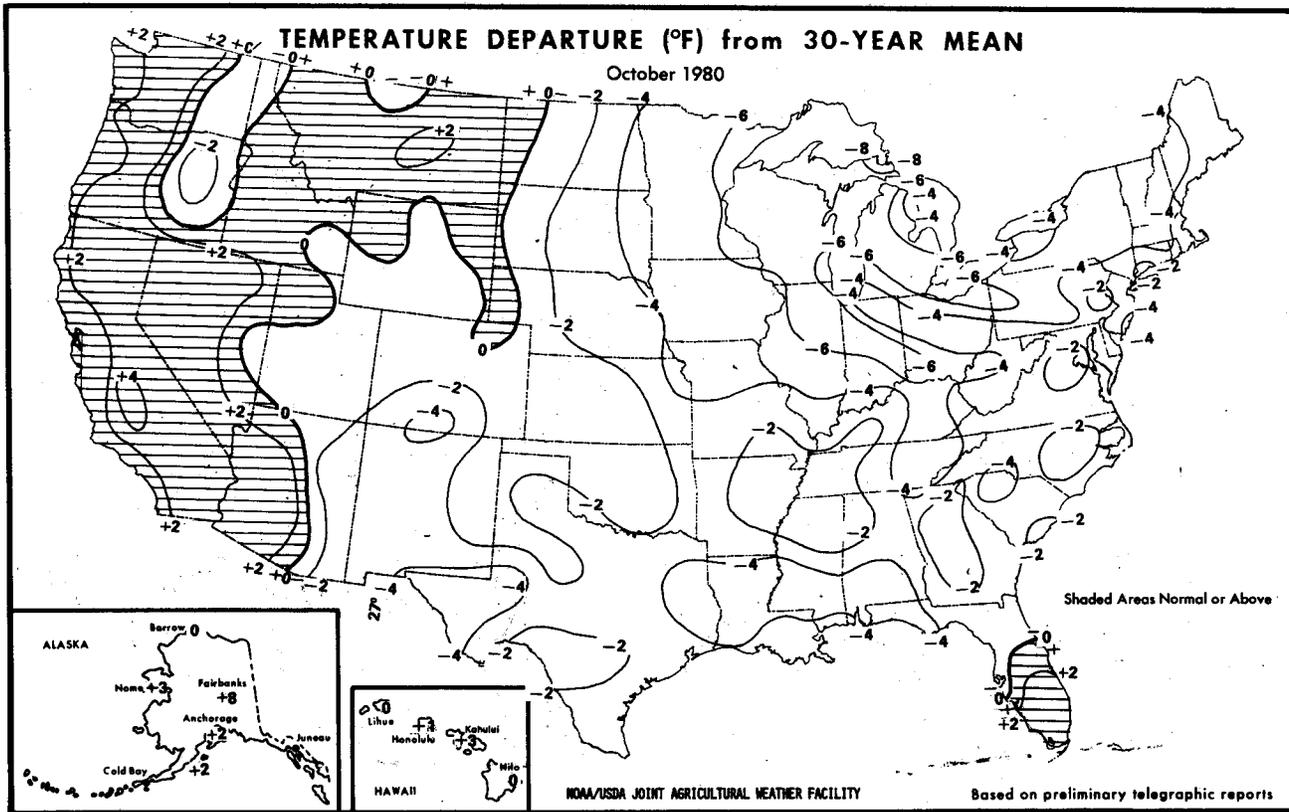
SORGHUM % HARVESTED			
	1980	1979	AVG.
COLO	83	54	86
KANS	85	80	80
MO	92	84	81
NEBR	99	82	87
OKLA	75	70	65
S DAK	96	85	91
TEX	97	93	95
7 STATES	92	85	87

THESE 7 STATES PRODUCED 92% OF THE 1979 CROP

COTTON % HARVESTED			
	1980	1979	AVG.
ALA	92	54	63
ARIZ	40	60	55
ARK	93	71	76
CALF	62	76	NA
GA	92	76	66
LA	96	74	77
MISS	92	61	72
MO	91	86	78
N MEX	30	30	36
N C	89	57	58
OKLA	30	20	15
S C	90	79	77
TENN	93	56	66
TEX	49	39	40
14 STATES	60	50	NA
EXCL. STATES WITH NA	59	46	48

THESE 14 STATES PRODUCED 99% OF THE 1979 COTTON CROP.

NA - NOT AVAILABLE



### October Weather Summary

The weather switched abruptly from hot summer to cool fall early in October. Weather systems moved rapidly through the United States with increasingly cooler surges of polar air behind each system. The cooler air of fall dominated and pushed the warm, moist air of summer eastward and southward. Heavy showers and thunderstorms resulted when the cool air confronted the warmer air. During the latter part of the month, precipitation in the North was frequently in the form of snow. Many of the summer drought areas received enough rain to begin restoring the water reserves.

During the first five days of the month, an upper trough of low pressure moved slowly eastward from the Mississippi Valley. It triggered rainfall over much of eastern United States and brought cooler air to the area behind it and east of the Rockies.

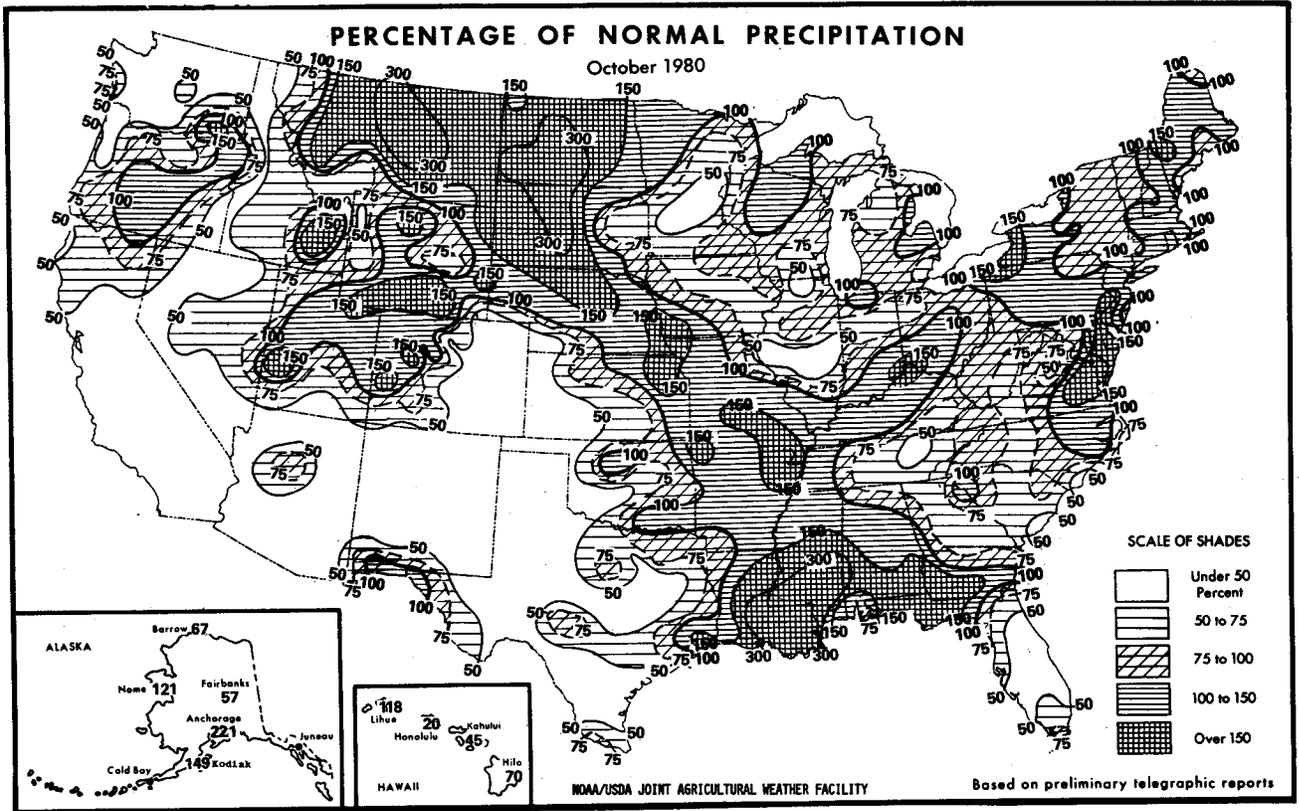
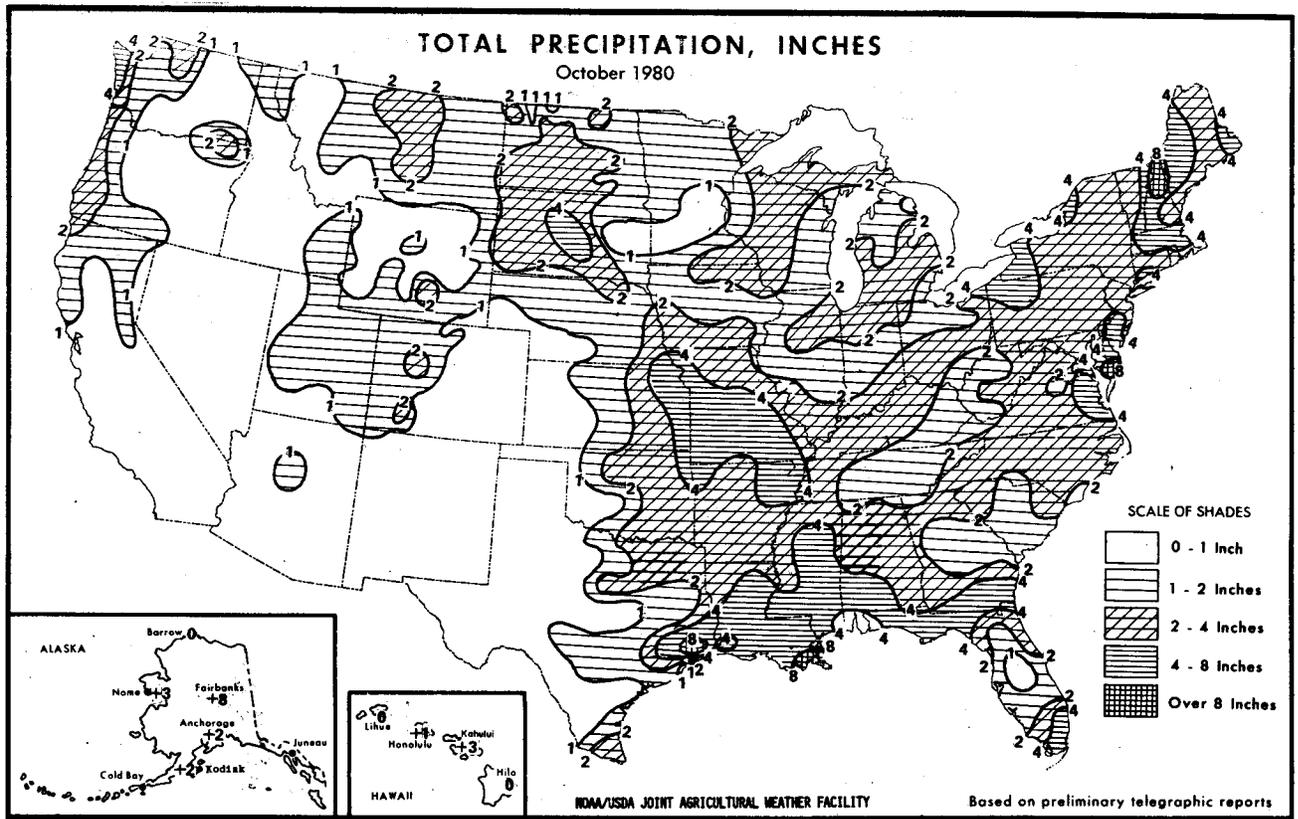
**FIRST WEEK...**The cooler air moved slowly eastward during the first full week of the month and warm air pushed over the Rockies into the Plains. Precipitation was confined to the Northeast and southern Florida early in the week. At midweek, another cold front entered the Pacific Northwest and brought rain there and to the northern Plateau and central and northern Rockies as it moved into the northern Plains. This cold front moved rapidly eastward, but rain and a few snowshowers were confined to the Great Lakes area and the Northeast as the front moved through. Meanwhile, another system triggered showers along the west coast from northern California through Washington.

**SECOND WEEK...**Another, stronger weather system moved onto the northwest coast. Rain,

with snow at higher elevations, fell in the Pacific Northwest and central Rockies as the storm moved southeastward. It developed into an intense system as it moved out of the central Rockies and northeastward. Thunderstorms rumbled over the Plains and snow--up to 4 feet--whitened the Rockies. The center of the storm moved into Canada but the cold air behind it moved eastward through much of the United States spreading moderate to heavy rain to a line from eastern Texas to New England.

**THIRD WEEK...**The cold air, with its line of showers, moved off the east coast on the first day and warmer air returned to the Plains. However, at midweek, another storm formed in the northern Plains and cold air surged in behind it. At the same time a low pressure system off Florida moved northward along the east coast. Moderate rain and snow covered the previously dry areas of Montana and spread eastward while the Florida storm lashed the east coast. The rain was needed in most places but was unwanted in parts of the western Corn Belt where some corn was still to be harvested.

**FOURTH WEEK...**Warm, moist air returned to the southern Plains. A low pressure system, moving out of the central Rockies into the moist air, triggered moderate snow from Nebraska to northern Illinois and showers and thunderstorms southward to the gulf coast. Some heavy rain fell along the coast from Louisiana to northern Florida. Colder air moving in behind the storm spread over eastern United States. Record cold temperatures ensued. The coldest weather of the season moved into the northern portion of the Gulf Coast States. As the month ended, a warming trend began in the northern Rockies and Plains.



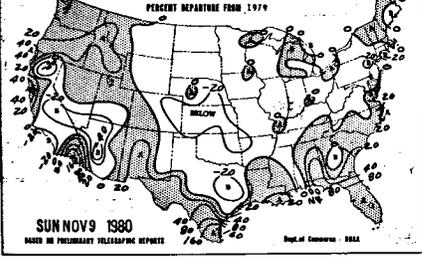
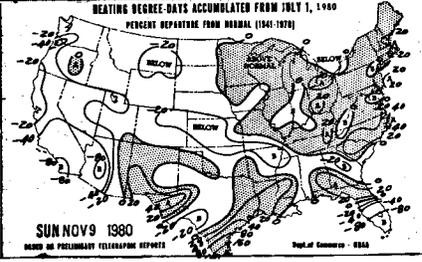
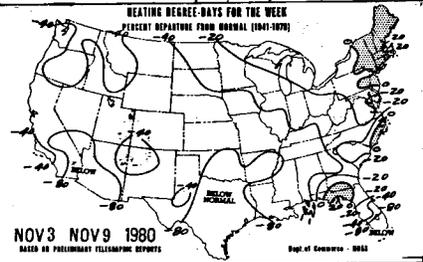
Temperature and Precipitation Data for October 1980

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA. Birmingham . . .	60	- 3	3.2	+ .6	LA. Baton Rouge . . .	67	- 2	5.7	+ 3.0	Youngstown . . .	46	- 7	2.1	- .8
Mobile . . .	66	- 3	2.9	+ .3	Lake Charles . . .	66	- 4	3.8	+ .3	OKLA. Okla. City . . .	61	- 1	1.0	- 1.6
Montgomery . . .	61	- 5	3.1	+ .9	New Orleans . . .	69	- 1	5.9	+ 3.6	Tulsa . . .	62	- 1	2.1	- 1.1
ALASKA Anchorage . . .	37	+ 2	3.1	+ 1.7	Shreveport . . .	64	- 4	2.5	- .4	OREG. Astoria . . .	55	+ 2	2.8	- 4.0
Barrow . . .	15	0	.4	- .2	MAINE. Caribou . . .	41	- 3	2.5	- .4	Burns . . .	45	- 2	.9	0
Fairbanks . . .	33	+ 8	.4	- .3	Portland . . .	46	- 3	3.0	- .8	Medford . . .	56	+ 3	1.5	- .6
Juneau . . .	11	-	---	---	MD. Baltimore . . .	55	- 2	3.1	+ .3	Pendleton . . .	51	- 2	1.2	+ .1
Kodiak . . .	43	+ 2	9.4	+ 3.1	MASS. Boston . . .	52	- 3	4.1	+ 1.1	Portland . . .	56	+ 2	1.2	- 2.4
Nome . . .	32	+ 3	1.7	+ .3	Chatham . . .	52	-	2.9	---	Salem . . .	54	+ 1	1.5	- 2.5
ARIZ. Flagstaff . . .	49	+ 2	1.1	- .3	MICH. Alpena . . .	44	- 3	1.8	- .2	PA. Allentown . . .	54	0	3.1	+ .4
Phoenix . . .	76	+ 4	T	- .5	Detroit . . .	46	- 7	1.3	- 1.2	Erie . . .	48	- 4	6.5	+ 3.3
Tucson . . .	70	0	.2	- .5	Flint . . .	44	- 7	2.2	- .0	Harrisburg . . .	52	- 4	2.9	+ .3
Winslow . . .	54	- 3	.2	- .5	Grand Rapids . . .	42	- 6	2.0	- .6	Philadelphia . . .	55	- 2	5.0	+ 2.5
Yuma . . .	78	+ 2	0	- .3	Houghton Lake . . .	46	- 8	1.9	- .7	Pittsburgh . . .	50	- 3	2.4	- .1
ARK. Fort Smith . . .	60	- 3	3.2	- .3	Lansing . . .	45	- 7	2.0	- .3	Scranton . . .	50	- 3	2.2	- .6
Little Rock . . .	62	- 1	3.4	+ .3	Marquette . . .	39	- 6	2.7	- .1	R. I. Providence . . .	50	- 4	3.4	+ .1
CALIF. Bakersfield . . .	71	+ 4	T	+ .3	Muskegon . . .	46	- 6	2.2	- .5	S. C. Charleston . . .	65	- 1	1.5	- 1.6
Eureka . . .	54	0	1.4	- 1.8	S. Ste. Marie . . .	38	- 8	2.4	- .5	Columbia . . .	61	- 3	1.6	- 1.0
Fresno . . .	69	+ 5	T	- .4	MINN. Duluth . . .	39	- 6	1.6	- .7	Greenville . . .	57	- 5	2.8	- .4
Los Angeles . . .	66	+ 1	T	- .2	Internat Falls . . .	39	- 5	1.8	+ .1	S. D. Aberdeen . . .	45	- 3	1.4	+ .2
Red Bluff . . .	67	+ 2	.7	- .5	Minneapolis . . .	45	- 5	.7	- 1.1	Huron . . .	47	- 3	.9	- .6
San Diego . . .	67	+ 1	.1	- .2	Rochester . . .	44	- 6	1.8	0	Rapid City . . .	49	- 1	2.3	+ 1.4
San Francisco . . .	61	0	.1	- .9	St. Cloud . . .	43	- 5	.7	- 1.0	Sioux Falls . . .	46	- 4	1.4	- .1
Stockton . . .	65	+ 1	.1	- .6	MISS. Jackson . . .	61	- 5	3.5	+ 1.3	TENN. Chattanooga . . .	57	- 4	1.6	- 1.4
COLO. Denver . . .	52	0	.1	- 1.0	Meridian . . .	62	- 3	6.8	+ 4.6	Knoxville . . .	56	- 5	1.5	- 1.2
Grand Junction . . .	54	- 1	1.3	+ .4	MO. Columbia . . .	54	- 4	4.4	+ 1.0	Memphis . . .	63	0	3.1	+ .5
Pueblo . . .	52	- 3	T	- 1.0	Kansas City . . .	54	- 4	4.1	+ .9	Nashville . . .	58	- 3	1.2	- 1.0
CONN. Bridgeport . . .	56	- 1	4.1	+ 1.3	St. Louis . . .	56	- 3	2.9	+ .1	TEX. Abilene . . .	65	- 1	.7	- 1.9
Hartford . . .	50	- 3	2.6	- .4	Springfield . . .	56	- 3	4.0	+ .6	Amarillo . . .	57	- 3	.4	- 1.4
D. C. Washington . . .	60	0	2.6	- .1	MONT. Billings . . .	51	+ 2	2.5	+ 1.6	Austin . . .	68	- 2	1.3	- 1.7
FLA. Apalachicola . . .	67	- 4	5.0	+ 2.1	Glasgow . . .	48	+ 2	1.4	+ .8	Beaumont . . .	68	- 2	7.3	+ 3.6
Daytona Beach . . .	73	0	2.4	- 3.1	Great Falls . . .	49	+ 1	1.8	+ 1.1	Brownsville . . .	74	- 2	2.3	- 1.0
Ft. Myers . . .	78	+ 2	1.5	- 2.9	Havre . . .	46	- 1	2.1	+ 1.4	Corpus Christi . . .	71	- 3	1.2	- 1.6
Jacksonville . . .	69	- 2	2.7	- 1.8	Helena . . .	45	0	1.2	+ .6	Del Rio . . .	71	0	.1	- 2.0
Key West . . .	82	+ 2	3.0	- 2.6	Kalispell . . .	44	+ 1	.8	- .4	El Paso . . .	60	- 4	1.0	+ .2
Lakeland . . .	76	+ 2	1.0	- 1.8	Miles City . . .	49	0	1.7	+ 1.0	Fort Worth . . .	65	- 3	1.1	- 1.6
Miami . . .	80	+ 2	6.1	- 2.1	Missoula . . .	45	+ 1	.8	- .1	Galveston . . .	71	- 2	.3	- 2.5
Orlando . . .	75	+ 1	.6	- 3.5	NEBR. Grand Island . . .	52	- 2	1.5	+ .4	Houston . . .	68	- 3	4.0	- .1
Tallahassee . . .	87	- 2	4.9	+ 2.0	Lincoln . . .	52	- 3	2.0	+ .5	Lubbock . . .	60	- 1	.2	- 1.9
Tampa . . .	74	- 1	1.3	- 1.2	Norfolk . . .	50	- 3	1.9	+ .6	Midland . . .	60	- 6	.1	- 1.3
W. Palm Beach . . .	79	+ 2	4.0	- 4.8	N. Platte . . .	49	- 2	1.0	0	San Angelo . . .	64	- 3	T	- 1.9
GA. Atlanta . . .	62	0	1.6	- .9	Omaha . . .	51	- 3	3.4	+ 1.6	San Antonio . . .	71	0	1.1	- 1.7
Augusta . . .	61	- 3	1.6	- .6	Valentine . . .	48	- 2	1.4	+ .5	Victoria . . .	69	- 3	.9	- 2.7
Macon . . .	65	- 1	1.3	- 1.0	NEV. Ely . . .	45	- 1	.4	- .2	Waco . . .	66	- 3	.8	- 1.8
Savannah . . .	65	- 2	1.6	- 1.2	Las Vegas . . .	69	+ 2	T	- .2	Wichita Falls . . .	63	- 3	1.7	- 1.0
HAWAII. Hilo . . .	75	0	7.7	- 3.3	Reno . . .	51	+ 1	.1	- .3	UTAH. Blanding . . .	51	- 1	1.0	- .4
Honolulu . . .	80	+ 1	.3	- 1.2	Winnemucca . . .	50	+ 2	.3	- .4	Salt Lake City . . .	53	+ 1	1.7	+ .5
Kahului . . .	80	+ 3	.5	- .6	N. H. Concord . . .	45	- 4	2.6	- .1	VT. Burlington . . .	45	- 4	2.5	- .2
Lihue . . .	77	0	4.5	+ .7	N. J. Atlantic City . . .	52	- 5	3.2	- .3	VA. Lynchburg . . .	55	- 3	2.4	- .2
IDAHO. Boise . . .	52	0	.3	- .5	Trenton . . .	55	- 2	3.8	+ 1.3	Norfolk . . .	60	- 2	4.2	+ 1.1
Lewiston . . .	52	0	.7	- .4	N. MEX. Albuquerque . . .	55	- 3	.1	- .7	Richmond . . .	57	- 2	7.0	+ 4.1
Pocatello . . .	46	- 2	1.9	+ 1.1	Roswell . . .	58	- 2	T	- 1.2	Roanoke . . .	56	- 2	2.3	- .9
ILL. Cairo . . .	59	- 3	3.1	+ .4	N. Y. Albany . . .	47	- 4	2.3	- .3	WASH. Colville . . .	---	---	---	---
Chicago . . .	48	- 7	2.1	- .5	Binghamton . . .	45	- 5	2.9	- .1	Omak . . .	51	+ 4	.2	- .7
Moline . . .	49	- 5	1.6	- 1.1	Buffalo . . .	49	- 3	4.7	+ 1.7	Quillayute . . .	52	+ 1	4.4	- 7.2
Peoria . . .	50	- 5	2.4	- .1	New York . . .	56	- 2	3.2	+ .2	Seattle-Tacoma . . .	54	+ 2	1.3	- 2.6
Rockford . . .	47	- 6	1.4	- 1.5	Rochester . . .	49	- 3	3.7	+ 1.1	Spokane . . .	47	- 1	.6	- .8
Springfield . . .	53	- 4	1.5	- 1.6	Syracuse . . .	49	- 4	2.6	- .5	Walla Walla . . .	53	+ 1	3.7	+ 2.2
IND. Evansville . . .	55	- 3	3.1	+ .6	N. C. Asheville . . .	55	- 2	2.6	- .7	Yakima . . .	52	+ 2	.2	- .4
Ft. Wayne . . .	51	- 3	2.0	- .8	Charlotte . . .	58	- 4	1.7	- 1.0	W. VA. Beckley . . .	50	- 3	1.8	- .7
Indianapolis . . .	51	- 5	1.9	- .6	Greensboro . . .	56	- 3	2.1	- .8	Charleston . . .	54	- 3	2.0	- .5
South Bend . . .	51	- 2	3.4	+ .3	Hatteras . . .	62	- 3	2.6	- 2.2	Huntington . . .	54	- 3	1.6	- .5
IOWA. Burlington . . .	51	- 4	1.9	- 1.1	Raleigh . . .	59	- 1	2.3	- .5	Parkersburg . . .	52	- 5	1.8	- .3
Des Moines . . .	50	- 4	1.9	- .2	Wilmington . . .	63	- 2	1.6	- 1.7	WISC. Green Bay . . .	43	- 6	1.8	- .1
Dubuque . . .	48	- 4	2.8	0	N. DAK. Bismarck . . .	46	- 1	2.3	+ 1.5	La Crosse . . .	45	- 7	2.4	+ .3
Sioux City . . .	48	- 5	1.4	- .2	Fargo . . .	42	- 5	1.1	0	Madison . . .	44	- 6	1.1	- 1.1
KANS. Concordia . . .	56	- 1	2.0	+ .2	Williston . . .	47	- 1	1.6	+ 1.0	Milwaukee . . .	46	- 5	1.6	- .4
Dodge City . . .	58	0	.2	- 1.5	OHIO. Akron-Canton . . .	49	- 4	1.9	- .5	WYO. Casper . . .	47	- 1	.6	- .3
Goodland . . .	52	- 1	.2	- .8	Cincinnati . . .	51	- 6	3.3	+ 1.1	Cheyenne . . .	47	- 1	.5	- .5
Topeka . . .	54	- 4	7.2	+ 4.5	Cleveland . . .	48	- 6	2.4	- .2	Lander . . .	47	0	1.4	+ .2
Wichita . . .	59	- 1	1.3	- 1.2	Columbus . . .	51	- 3	2.5	+ .6	Sheridan . . .	47	- 1	.9	- .1
KY. Lexington . . .	54	- 4	2.1	0	Dayton . . .	49	- 7	2.3	+ .4	P. R. San Juan . . .	84	+ 3	6.8	+ 1.2
Louisville . . .	56	- 2	3.4	+ 1.0	Toledo . . .	47	- 6	1.8	- .4					

Based on 1941-70 normals

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING NOV. 9, 1980. BASED ON 1941-70 NORMALS. \* ACCUMULATION FROM JULY 1, 1980.

Table with columns for STATES AND STATIONS, WEEKLY DEPARTURE\*, SEASONAL ACCUMULATION +, and HEATING DEGREE DAYS. Rows list various states and cities with their respective data.



REDUCED YIELD PROSPECTS OF THE 1980 WINTER  
WHEAT CROP IN AUSTRALIA

By Jim Williams, Ray Motha and Charles Herring

Yield prospects for winter wheat in Australia have been drastically reduced this year owing to a critical shortage of moisture between April and October. These months are normally the wettest in the major crop areas but, in 1980, only the southeast portions of the continent had near normal rainfall.

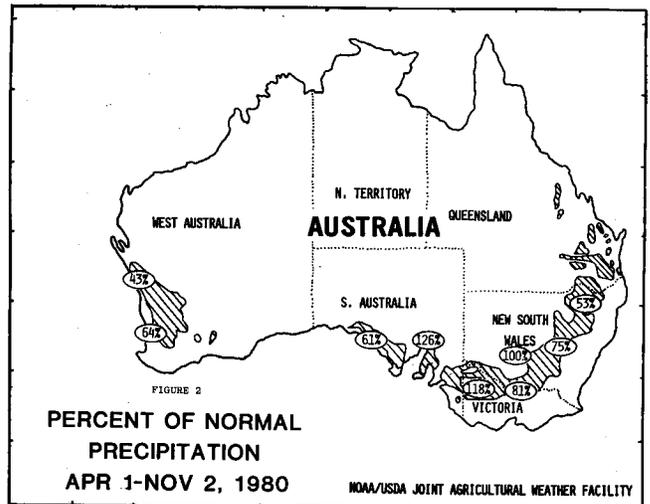
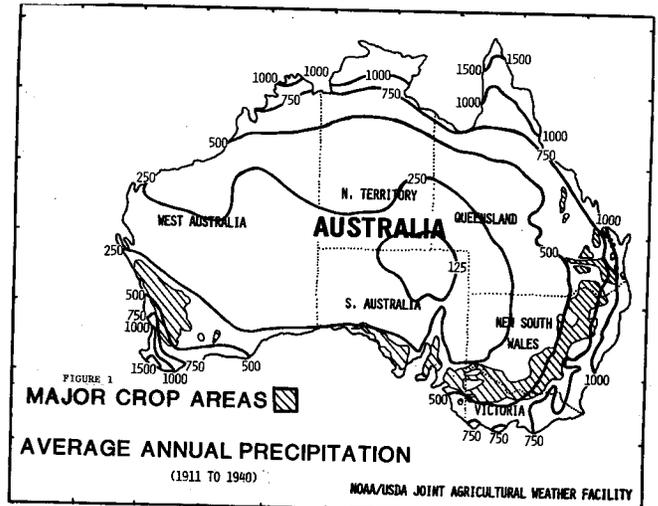
Deficient rainfall is not an uncommon occurrence in Australia. Inadequate moisture has always been a major problem. Hardly a decade passes without a significant period of drought. Since some of the major crop areas lie in zones of marginal and highly variable rainfall, large fluctuations in crop yields have occurred in the past.

Most of the winter wheat crop depends on rain from winter storm systems that sweep onto the southwestern portion of the continent from the Indian Ocean, travel across the southern portions of the country, and continue through Victoria and New South Wales. These storms deposit, in normal years, more than 250 mm of rain in the major crop areas (Figure 1). This year, however, the frequency and intensity of the storms were such that well-below normal rain fell in many parts of the crop areas. Table 1 shows the observed, normal, and the percent of normal rain received at selected stations in the crop areas between April 1 and November 2, 1980.

Seasonal rainfall ranged from over 100 percent of normal in parts of Victoria and South Australia, where the wheat crop is in good condition, to less than 65 percent of normal in western Australia, western portions of South Australia, and northern New South Wales where the crop has deteriorated to a fair-to-poor condition (Figure 2). Moisture supplies are somewhat less than adequate in the remainder of New South Wales. Western Australia and New South Wales normally produce over half of the total grain crop in Australia.

In Queensland, where the wheat harvest should be well advanced, very little rain fell during the growing season and crops have suffered from severe moisture stress. Early spring rains, falling in late October and early November, came too late to help the winter wheat but promise to be beneficial to pastures and spring-planted crops.

The final yield from the 1980 Australian wheat crop is not yet known, but it appears that the shortfall will be substantial, owing primarily to lack of rain.



STATION	OBSERVED APRIL THRU NOVEMBER 2	NORMAL APRIL THRU OCTOBER	PERCENT OF NORMAL
PERTH	474	775	64
GERALDTON	180	416	43
CEDUNA	149	244	61
PORT AUGUSTA	190	151	126
NHILL	341	275	118
ECHUCA	233	288	81
HILLSTON	216	214	100
DUBBO	252	334	75
MOREE	145	276	53





FIRST CLASS MAIL

210

Heating Degree Days (Base 65° F.)

October 1980

ALA. Birmingham . . .	181	MAINE, Caribou . . .	740	OKLA. Okla. City . . .	180
Mobile . . .	63	Portland . . .	584	Tulsa . . .	172
Montgomery . . .	144	MD. Baltimore . . .	311	OREG. Astoria . . .	310
ALASKA, Anchorage . . .	855	MASS. Boston . . .	387	Burns U. . .	627
Barrow . . .	1558	Chatham . . .	390	Medford . . .	313
Fairbanks . . .	985	MICH. Alpena . . .	652	Pendleton . . .	438
Juneau . . .	---	Detroit . . .	578	Portland . . .	357
Nome . . .	1022	Flint . . .	633	Salem . . .	284
ARIZ. Flagstaff . . .	491	Grand Rapids . . .	588	PA. Allentown . . .	326
Phoenix . . .	12	Houghton Lake . . .	726	Erie . . .	520
Tucson . . .	66	Lansing . . .	607	Harrisburg . . .	411
Winslow . . .	355	Marquette U. . .	813	Philadelphia . . .	320
Yuma . . .	2	S. Ste. Marie . . .	841	Pittsburgh . . .	476
ARK. Fort Smith . . .	190	MINN. Duluth . . .	800	Scranton . . .	466
Little Rock . . .	163	Internatl Falls . . .	805	R. I. Providence . . .	465
CALIF. Bakersfield . . .	38	Minneapolis . . .	611	S. C. Charleston . . .	80
Eureka U. . .	328	Rochester . . .	659	Columbia . . .	178
Fresno . . .	69	St. Cloud . . .	683	Greenville . . .	246
Los Angeles U. . .	27	MISS. Jackson . . .	158	S. DAK. Aberdeen . . .	601
Red Bluff . . .	87	Meridian . . .	143	Huron . . .	578
Stockton . . .	107	MO. Columbia . . .	368	Rapid City . . .	510
San Diego . . .	6	Kansas City . . .	347	Sioux Falls . . .	602
San Francisco . . .	145	St. Louis . . .	305	TENN. Chattanooga . . .	246
COLO. Denver . . .	386	Springfield . . .	289	Knoxville . . .	284
Grand Junction . . .	359	MONT. Billings . . .	462	Memphis . . .	146
Pueblo . . .	383	Glasgow . . .	536	Nashville . . .	259
CONN. Bridgeport . . .	296	Great Falls . . .	504	TEX. Abilene . . .	116
Hartford . . .	449	Havre . . .	580	Amarillo . . .	280
D. C. Washington . . .	189	Helena . . .	602	Austin . . .	69
FLA. Apalachicola . . .	---	Kalispell . . .	647	Beaumont . . .	70
Ft. Myers . . .	0	Miles City . . .	495	Brownsville . . .	34
Jacksonville . . .	26	Missoula . . .	603	Corpus Christi . . .	43
Key West . . .	0	NBR. Grand Island . . .	420	Dallas . . .	---
Lakeland U. . .	---	Lincoln . . .	402	El Paso . . .	51
Miami . . .	0	Norfolk . . .	473	Fort Worth . . .	203
Orlando . . .	1	North Platte . . .	491	Galveston U. . .	99
W. Palm Beach . . .	0	Omaha . . .	444	Houston . . .	43
Tallahassee . . .	55	Valentine . . .	536	Lubbock . . .	67
Tampa . . .	1	NEV. Ely . . .	608	Midland . . .	190
GA. Atlanta . . .	154	Las Vegas . . .	82	San Angelo . . .	173
Augusta . . .	143	Reno . . .	430	San Antonio . . .	102
Macon . . .	79	Winnemucca . . .	472	Victoria . . .	62
Savannah . . .	72	N. H. Concord . . .	611	Waco . . .	59
IDAHO, Boise . . .	409	N. J. Atlantic City . . .	392	Wichita Falls . . .	98
Lewiston . . .	401	Trenton U. . .	320	UT., Milford . . .	139
Pocatello . . .	576	N. MEX. Albuquerque . . .	335	Salt Lake City . . .	507
ILL. Cairo U. . .	242	Roswell . . .	226	VT. Burlington . . .	438
Chicago . . .	511	N. Y. Albany . . .	539	VA. Lynchburg . . .	611
Moline . . .	503	Binghamton . . .	617	Norfolk . . .	312
Peoria . . .	470	Buffalo . . .	498	Richmond . . .	181
Rockford . . .	538	New York . . .	292	Roanoke . . .	267
Springfield . . .	395	Rochester . . .	498	WASH. Colville . . .	301
IND. Evansville . . .	329	Syracuse . . .	496	Omak . . .	---
Fort Wayne . . .	454	N. C. Asheville . . .	315	Quillayute . . .	386
Indianapolis . . .	438	Charlotte . . .	229	Seattle-Tacoma . . .	343
South Bend . . .	449	Greensboro . . .	278	Spokane . . .	543
IOWA, Burlington . . .	435	Hatteras R. . .	132	Walla Walla U. . .	383
Des Moines . . .	473	Raleigh . . .	225	Yakima . . .	412
Dubuque . . .	527	Wilmington . . .	128	W. VA. Beckley . . .	463
Sioux City . . .	516	N. DAK. Bismarck . . .	594	Charleston . . .	356
KANS. Concordia . . .	311	Fargo . . .	696	Huntington . . .	348
Dodge City . . .	257	Williston U. . .	567	Parkersburg U. . .	398
Goodland . . .	402	OHIO, Akron-Canton . . .	500	WIS. Green Bay . . .	661
Topeka . . .	344	Cincinnati U. . .	446	Madison . . .	651
Wichita . . .	239	Cleveland . . .	521	Milwaukee . . .	590
KT. Lexington . . .	358	Columbus . . .	435	W. O. Casper . . .	566
Louisville . . .	309	Dayton . . .	487	Cheyenne . . .	558
LA. Baton Rouge . . .	96	Toledo . . .	560	Lander . . .	550
Lake Charles . . .	79	Youngstown . . .	576	Sheridan . . .	547
New Orleans . . .	35				
Shreveport . . .	128				

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