

WEEKLY WEATHER AND CROP BULLETIN

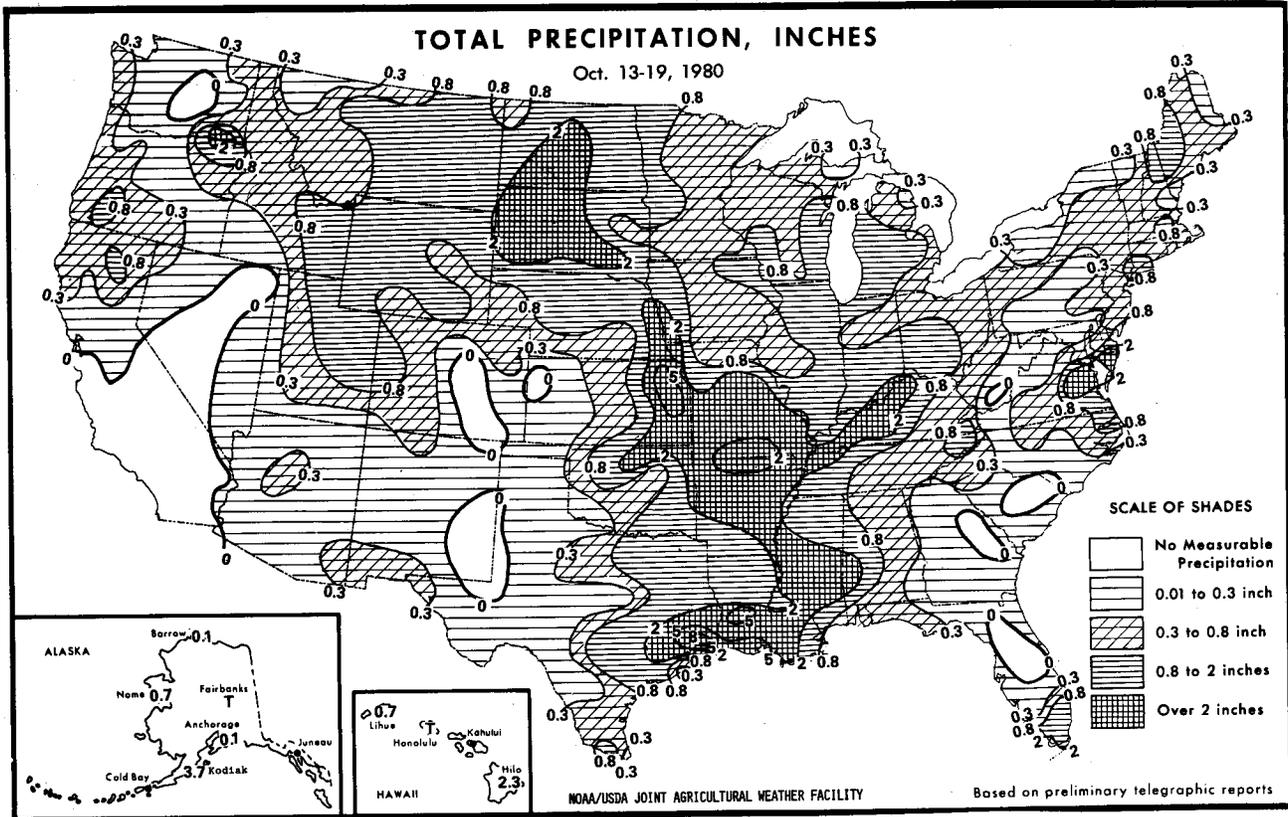
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National Weather Summary

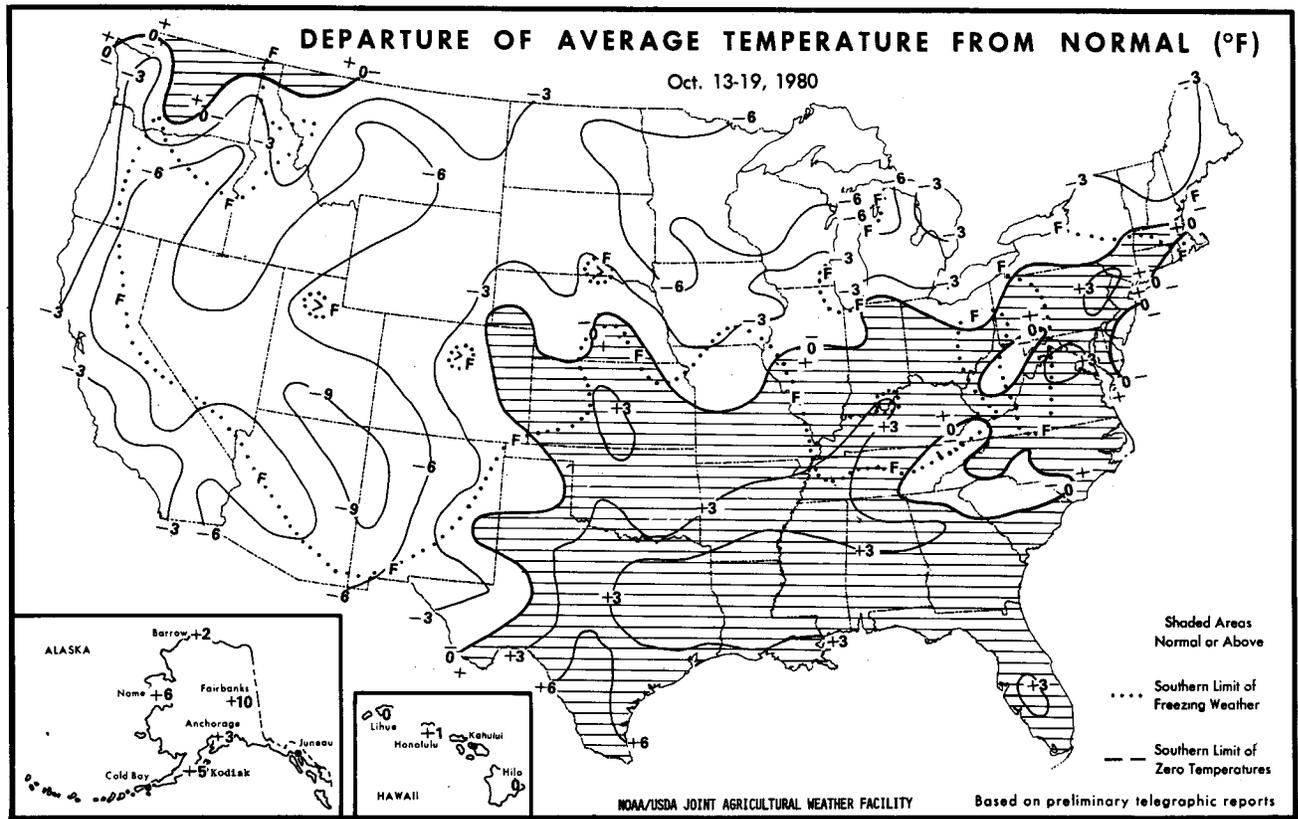
October 13-19

HIGHLIGHTS: The first major winter storm of the season developed Tuesday night over the northern Rockies, and by Friday evening, had dumped from 1 inch to 4 feet of snow from Montana to the eastern Dakotas. During the latter part of the week, a cold front anchored in the Mississippi Delta, swung across the Great Lakes, and then moved southeastward triggering heavy rain over much of the eastern third of the Nation. Early in the week, showers brought much-needed rain to eastern Kansas and western Missouri. A cold airmass moved eastward from the Plains and brought record cold temperatures as far south as northern Florida.

MONDAY...A mass of cold air moved eastward from the Plains and centered in the Ohio Valley. Freezing temperatures reached as far south as Tennessee, and record cold temperatures dipped

into northern Florida. Tallahassee dropped to 39°. As the day progressed, warm air returned to the central Plains, and the mercury climbed into the eighties. A low pressure system building in the central Rockies triggered some showers in eastern Kansas where winter wheat required much water. Light showers were reported over the Great Lakes, and brisk northerly winds accompanied light showers in New England. A frontal system moving onto the West Coast brought showers to the Pacific Northwest and as far south as northern California.

TUESDAY...The cold air moved to the east but became somewhat warmer. Some record cold temperatures chilled Maryland, South Carolina, and Georgia, though freezing temperatures remained in the Great Lakes region and the Appalachians. Another surge of cold air into the northern Plains stopped the warming trend,



and as moisture continued to move up from the Gulf of Mexico, showers and thunderstorms formed over a region from Texas to Michigan. Showers were very welcome in eastern Kansas which has been dry for a month. A developing storm over the northern Rockies scattered snow through the Rockies and rainshowers through much of the West.

WEDNESDAY...The deepening storm centered in the central Rockies with a cold front extending through New Mexico and a warm front eastward to central Illinois and through Pennsylvania. Rain, thunderstorms, or snow were widespread over much of the Nation. Thunderstorms rumbled over the Plains, and snow whitened the Rockies. Snow reached the eastern valleys of Wyoming and Montana, and thunderstorms moved through the northern Plains, triggering tornadoes, hail, high winds, and heavy rain. Lighter showers extended southward to Texas and eastward through the southern Great Lakes and into Pennsylvania. Isolated thunderstorms popped up all along the Gulf of Mexico coast.

THURSDAY...The severe winter storm moved northeastward from Colorado into the northern Plains, and the strong, clockwise circulation brought cold air down from Canada into the Rockies, the Plateau, and the western part of the northern Plains. Heavy precipitation fell from the Dakotas to the western Great Lakes and along and ahead of a cold front from eastern Kansas to north central Texas. Snow, up to 4 feet, tapered off in the northern Rockies, and rain changed to snow in western North Dakota and eastern Montana. Thunderstorms were severe and numerous in the Dakotas and Minnesota and from central Illinois to north central Texas. Lighter showers extended northeastward into New England and southward to the gulf coast.

FRIDAY...The major winter storm continued moving northeastward across the Dakotas and into Minnesota. Near-blizzard conditions brought from 1 inch to nearly a foot of snow to the northern Plains and Rockies. Early morning low temperatures dipped below freezing over much of the Plateau and Rocky Mountain regions in the wake of the storm. Showers and thunderstorms were numerous through the central United States from southern Texas to Michigan. Tornadoes touched down near Texarkana, southwestern Ark., and Springfield, southwestern Missouri. Rains in western Indiana were the first in a month. Light rain dampened New York and New England.

SATURDAY...A cold front, extending from the Mississippi River Delta to the Great Lakes, caused heavy rains in the lower Mississippi and Ohio River Valleys. The rains spread eastward through the Appalachians and into the North Atlantic States by evening as the front swung across the Great Lakes and into New York. Rains became particularly heavy in Mississippi, and tornadoes were sighted in Louisiana. Elsewhere, snow flurries and light rain persisted over the northern Plains and Rockies. Temperatures were unseasonably warm across the South Atlantic coast.

SUNDAY...The cold front moved southeastward across the eastern third of the Nation, producing showers and thunderstorms from southern Texas to the Florida Panhandle and northward to New England. Showers were scattered from the eastern Dakotas through the Great Lakes. Temperatures dropped below freezing across the upper Mississippi Valley, the Rockies, and the northern and central Plateau. Unseasonably warm temperatures hovered again over the Florida Peninsula.

National Agricultural Summary

October 13-19

HIGHLIGHTS: Harvesting and planting activities moved rapidly until interrupted by wet weather at the end of the week. Precipitation fell in all areas of the Nation except parts of the Southwest. The heaviest amounts centered in the central third of the country. Temperatures averaged below normal in all areas except the south central, the south Atlantic, and in parts of the north central and north Atlantic regions. Farmers had 4 to 7 days suitable for fieldwork, except in Michigan and northern New England where wet conditions limited the number of days available to three. Soil moisture rated short to adequate, except in Michigan and Wisconsin where supplies rated adequate to surplus. Winter wheat seeding advanced to 81% complete, edging past last year's 79% but still slightly behind average; 55% of the crop has emerged. Corn harvest reached 62% complete, far exceeding last year's 28% and the 41% average. Soybean harvest was 63% complete, continuing ahead of last year's 56% and the 54% average; 90% of the crop had shed leaves. Grain sorghum harvesting was 66% complete, and 89% of the crop was mature. Cotton picking advanced to 35% complete; bolls opened on 84% of the acreage. Rice harvest moved to 85% complete, lagging last year's 88% because of a late California harvest. Fall plowing advanced on schedule. Ranchers continued to move herds to winter grazing areas. Recent rains improved pastures in many areas, but moisture conditions still remained below normal.

CORN: Virtually all of the corn was mature, and harvesting in the 17 major States advanced to 62% complete, well ahead of last year's late-season 28% and the 41% average. Harvesting in some areas of the Corn Belt advanced as much as 3 weeks ahead of normal. Transportation shortages have left some elevators unable to load out. Some elevators have reduced hours for receiving crops while others have ceased receipts altogether. In the eastern Corn Belt, harvesting ranged from 17% complete in Michigan to 77% in Illinois. In the western Corn Belt, harvesting progress varied from 40% in Minnesota to 85% in Missouri. Farmers in Indiana, Iowa, Nebraska, and Ohio harvested 20% of their crop during the week. Minnesota farmers harvested 23% of their corn during the week and South Dakota farmers 26%. Rapid progress surged throughout all major growing areas.

SOYBEANS: Soybean harvesting reached 63% complete, continuing ahead of last year's 56% and the 54% average. Leaf shedding advanced to 90% complete, slightly ahead of last year and the average. Farmers harvested at a fast pace in nearly all major States. Indiana and Kentucky farmers harvested a fourth of their crops during the week and farmers in Minnesota, Missouri, and Ohio harvested 20% or more.

SMALL GRAINS: Winter wheat seeding advanced to 81% complete, edging past last year's 79% but still slightly behind average; 55% of the acreage had emerged. Stands generally rated fair to good. Recent rains should help

germination and improve the condition of fall-seeded crops.

COTTON: Cotton acreage showing open bolls reached 84%, about equal to last year and the average. Harvesting progressed to 35% finished, exceeding last year's 24% and slightly ahead of the average. Growers continued to defoliate stands in preparation for picking, although showers interrupted activities in some areas. Some fields in Texas were damaged by rain and hail.

OTHER CROPS: Grain sorghum harvesting reached 66% complete, 4 points ahead of last year and 3 points ahead of the average. Most of the crop was mature throughout the Great Plains. Harvesting ranged from 29% complete in Colorado to 85% in Nebraska and Texas.

Rice harvest in the five major States advanced to 85% done, lagging last year's 88% because of a late California harvest.

Cold, damp conditions continued to hinder the Maine potato harvest. Freezing temperatures on the 16th may cause some problems with Russetts. About 80% of the crop was harvested. In Idaho, 85% of the crop was out of the fields. Harvesting ranged from 65 to 95% completed in other major areas.

Peanut harvest ranged from 45% complete in Virginia to 78% in Alabama and 85% in Georgia.

Tobacco growers made good progress stripping this year's crop. Kentucky farmers had stripped 9% and Tennessee farmers 30% of the crop.

FRUITS AND NUTS: Apple picking continued in northern production areas as the Red Delicious harvest wound down and growers moved on to Winesaps and Romes. Grape harvesting continued in California and New York. California growers harvested almonds and walnuts; the Navel orange harvest is expected to start soon. Florida citrus groves rated good with irrigation very active. Harvesting was active and increasing. In Texas, orange and grapefruit harvests continued to increase. The Arizona lemon harvest hit full swing, and the grapefruit harvest got underway.

VEGETABLES: Northern vegetable growers continued to harvest hardy vegetables; frost killed tender crops in cooler areas. Near-ideal weather prevailed in Florida vegetable growing areas where planting continued actively. The overall crop condition showed good to excellent condition. Harvesting continues very actively for a number of vegetables. California growers harvested a wide variety of vegetables. Texas growers continued planting in southern areas and harvesting in northern sections.

PASTURES AND LIVESTOCK: Southern livestock producers continued to plant crops for winter grazing. Recent rains improved conditions in many areas. Early-planted wheat fields in Texas began to provide limited grazing. Ranchers continued to move herds to winter grazing areas.

Weather Data for the Week Ending Oct. 19, 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	TEMPERA- TURE °F		PRECIPI- TATION	
														90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	78	54	81	36	66	3	.8	-.1	.3	5.7	106	89	50	0	0	2	0
MOBILE	82	60	86	46	71	2	.4	-.1	.2	6.3	74	91	54	0	0	3	0
MONTGOMERY	79	54	82	42	66	1	.4	0	.3	3.5	59	97	48	0	0	3	1
AK ANCHORAGE	42	32	49	20	38	3	.1	-.2	.1	4.8	141	77	61	0	3	3	0
BARROW	22	13	24	5	17	2	.1	0	.1	1.1	157	94	88	0	7	4	0
FAIRBANKS	44	26	50	13	35	10	T	-.1	T	1.2	80	63	45	0	5	1	0
KODIAK	50	41	53	35	45	5	3.7	2.3	1.4	10.0	99	88	90	0	0	5	5
NOME	38	32	41	25	34	6	.7	-.4	.4	2.3	68	64	69	0	3	4	0
AZ FLAGSTAFF	51	41	60	22	41	-8	.6	-.3	.4	1.6	57	--	39	0	5	3	0
PHOENIX	80	57	90	49	69	-3	T	-.1	T	.1	11	56	22	1	1	1	0
TUCSON	73	50	87	43	62	-8	.2	-.1	.2	3.1	163	70	31	0	0	2	0
WINSLOW	60	36	73	23	48	-9	.2	-.1	.1	.8	62	--	--	0	4	2	0
YUMA	82	57	94	50	70	-5	0	-.1	0	0	0	58	25	1	0	0	0
AR FORT SMITH	77	52	82	44	65	2	2.1	1.3	1.3	5.3	96	83	47	0	0	2	2
LITTLE ROCK	75	56	81	48	65	3	2.6	2.0	2.4	6.2	117	75	49	0	0	2	1
CA BAKERSFIELD	74	50	82	45	62	-5	T	-.1	T	0	0	--	31	0	0	0	0
EUREKA	58	47	62	43	52	-2	.4	-.3	.4	1.2	50	98	68	0	0	2	0
FRESNO	73	46	79	41	60	-4	0	-.1	0	0	0	70	24	0	0	0	0
LOS ANGELES	72	56	83	52	64	-4	0	0	0	0	0	69	46	0	0	0	0
RED BLUFF	71	48	77	44	60	-5	.3	-.1	.3	.8	89	--	36	0	0	2	0
SAN DIEGO	71	60	79	55	65	-1	T	-.1	T	0	0	67	54	0	0	0	0
SAN FRANCISCO	67	48	71	44	58	-3	T	-.2	T	.1	14	83	51	0	0	2	0
STOCKTON	73	44	78	40	59	-5	T	-.2	T	0	0	89	35	0	0	1	0
CO DENVER	63	37	72	32	50	-2	T	-.3	T	.7	35	57	23	0	1	0	0
GRAND JUNCTION	59	39	67	35	49	-5	.9	.7	.7	1.7	121	77	38	0	0	4	1
PUEBLO	70	38	80	29	54	0	T	-.2	T	.5	38	62	18	0	2	0	0
CT BRIDGEPORT	65	52	75	44	58	2	1.1	.5	1.1	4.7	104	78	50	0	0	2	1
HARTFORD	65	43	80	34	54	2	.3	-.3	.3	3.1	58	77	38	0	0	1	0
DC WASHINGTON	74	53	83	41	63	4	.4	-.2	.3	2.8	58	82	45	0	0	2	0
FL APALACHICOLA	80	60	84	50	70	-1	.3	-.2	.3	3.8	34	84	53	0	0	1	0
DAYTONA BEACH	85	64	90	53	74	1	T	-1.3	T	3.0	28	87	53	1	0	0	0
FORT MYERS	88	68	91	62	78	2	T	-.9	T	6.5	54	92	54	3	0	0	0
JACKSONVILLE	85	58	91	46	72	1	2.2	-.8	.2	3.2	29	93	52	2	0	1	0
KEY WEST	84	76	87	73	80	0	2.2	.9	1.4	8.9	79	87	69	0	0	2	2
MIAMI	84	73	87	68	78	1	1.9	0	1.8	11.6	81	88	65	0	0	3	1
ORLANDO	88	64	92	55	76	2	0	-.9	0	4.0	39	93	47	3	0	0	0
TALLAHASSEE	84	58	89	39	71	2	.1	-.5	.1	6.3	71	91	45	0	0	1	0
TAMPA	86	64	87	53	75	0	.1	-.4	.1	4.8	59	94	51	0	0	1	0
WEST PALM BEACH	86	70	88	66	78	1	.9	-1.2	.9	8.2	51	88	54	0	0	1	1
GA ATLANTA	77	54	80	42	65	3	.1	-.4	T	4.9	104	90	54	0	0	2	0
AUGUSTA	77	51	82	38	64	0	T	-.5	T	5.4	115	87	52	0	0	1	0
MACON	81	56	85	41	68	3	T	-.5	T	5.0	106	92	50	0	0	1	0
SAVANNAH	80	57	87	42	69	2	T	-.6	T	5.8	75	90	53	0	0	0	0
HI HILO	--	--	--	--	75	0	2.3	-.2	--	20.3	148	--	--	0	0	--	--
HONOLULU	87	74	89	72	80	1	T	-.3	T	.6	46	--	--	0	0	1	0
KAHULUI	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LIHUE	--	--	--	--	77	0	.7	-.2	--	13.6	349	--	--	0	0	--	--
ID BOISE	60	35	68	32	48	-4	.2	0	.2	2.0	250	82	37	0	1	2	0
LEWISTON	57	39	62	35	48	-3	.5	.3	.3	1.7	131	96	60	0	0	3	0
POCATELLO	49	33	63	29	41	-7	1.7	1.5	1.3	3.1	344	86	61	0	4	2	1
IL CAIRO	72	52	82	40	62	0	1.9	1.3	1.9	4.2	81	--	--	0	0	1	1
CHICAGO	61	43	74	28	52	-1	1.4	.9	.6	7.1	151	85	56	0	1	4	1
MOLINE	63	40	76	27	52	-3	.5	-.1	.5	3.4	60	83	49	0	1	1	0
PEORIA	65	43	76	31	54	-1	1.5	.9	.8	5.7	110	83	50	0	1	3	2
ROCKFORD	61	45	72	28	53	0	1.0	.4	.7	7.2	122	82	50	0	1	3	1
SPRINGFIELD	70	44	84	32	57	1	.7	0	.5	5.8	109	67	46	0	1	3	1
IN EVANSVILLE	72	48	84	31	60	2	1.6	1.0	1.6	4.3	98	81	42	0	1	1	1
FORT WAYNE	66	47	79	32	56	3	.7	.1	.6	3.6	86	80	50	0	1	3	1
INDIANAPOLIS	67	46	80	28	57	1	.8	.2	.8	4.3	96	75	45	0	1	1	1
SOUTH BEND	63	46	76	32	55	2	.9	.2	.7	8.1	162	91	57	0	1	4	1
IA BURLINGTON	65	44	73	32	54	-2	.5	-.2	.4	7.2	124	--	--	0	1	2	0
DES MOINES	63	41	71	30	52	-2	.4	-.1	.3	1.5	33	76	49	0	1	2	0
DUBUQUE	57	42	65	34	49	-2	1.1	.5	.8	7.6	117	83	59	0	0	3	1
SIoux CITY	61	38	72	28	50	-4	.8	.4	.8	2.2	55	80	46	0	2	1	1
KS CONCORDIA	72	46	87	35	59	2	.4	0	.4	1.7	38	90	37	0	0	2	0
DODGE CITY	75	45	90	32	60	2	.1	-.3	.1	.1	3	77	26	1	1	1	0
GOODLAND	69	38	80	28	53	1	0	.2	0	2.3	110	74	28	0	2	0	0
TOPEKA	69	47	83	32	58	0	5.4	4.8	3.2	6.6	127	80	48	0	1	3	2
WICHITA	74	52	87	38	63	4	.8	.2	.7	1.4	25	72	40	0	0	2	1
KY LEXINGTON	71	45	80	20	58	0	1.0	.6	.6	3.6	95	82	38	0	2	2	1
LOUISVILLE	73	49	84	34	61	3	2.5	2.0	1.5	5.8	132	66	36	0	0	2	2

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Oct. 12, 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
OK OKLAHOMA CITY	78	52	86	36	65	3	.8		.7	3.0	57	75	36	0	0	2	1
OK TULSA	76	54	82	40	65	2	.5	-.2	.5	4.3	68	77	40	0	0	2	0
OR ASTORIA	62	43	68	37	52	0	.4	-1.2	.4	3.6	55	99	62	0	0	1	0
OR BURNS	53	27	64	16	40	-7	.3	-.1	.3	.9	100	88	44	0	5	1	0
OR MEDFORD	63	38	70	32	51	-3	.9	-.4	.6	1.5	88	95	44	0	2	3	1
OR PENDELTON	57	42	64	39	49	-3	1.1	-.8	.7	1.9	158	66	54	0	0	3	0
OR PORTLAND	61	42	68	38	52	-2	.7	-.8	.7	2.0	56	97	62	0	0	1	0
OR SALEM	60	39	64	31	50	-3	.3	-.6	.3	2.0	54	99	63	0	1	2	0
PA ALLENTOWN	67	49	79	43	58	4	.4	-.2	.4	3.2	60	68	39	0	0	1	0
PA ERIE	58	46	75	36	52	-1	.8	-.1	.4	10.0	185	---	---	0	0	4	0
PA HARRISBURG	67	46	78	41	56	3	.3	-.3	.3	1.8	42	70	38	0	0	1	0
PA PHILADELPHIA	68	48	78	36	58	1	.3	-.3	.3	3.9	85	87	47	0	0	1	0
PA PITTSBURGH	64	45	77	36	54	1	.2	-.4	.2	2.0	48	71	46	0	0	1	0
PA SCRANTON	65	47	81	40	56	3	.3	-.3	.2	2.2	50	71	37	0	0	3	0
RI PROVIDENCE	63	44	72	32	53	0	.3	-.4	.3	2.4	47	87	46	0	1	1	0
SC CHARLESTON	81	56	88	41	68	3	.7	-.7	.7	2.9	40	87	43	0	0	1	0
SC COLUMBIA	78	48	83	35	63	-1	0	-.6	0	7.5	119	91	50	0	0	0	0
SC GREENVILLE	72	50	77	35	61	0	.4	-.3	.4	6.9	121	91	53	0	0	1	0
SD ABERDEEN	52	35	63	28	43	-4	1.3	1.0	.9	2.2	85	78	56	0	2	4	1
SD HURON	54	33	64	26	43	-6	.8	.4	.6	1.3	46	80	59	0	4	4	1
SD RAPID CITY	55	35	69	28	45	-5	2.2	2.0	2.1	2.6	144	84	49	0	1	2	1
SD SIOUX FALLS	54	37	65	28	45	-5	1.0	.7	1.0	1.8	46	80	55	0	2	3	1
TN CHATTANOOGA	72	46	76	35	59	-1	.3	-.3	.3	4.9	89	99	56	0	0	1	0
TN KNOXVILLE	72	48	80	36	60	-1	.7	.1	.7	3.2	73	90	48	0	0	1	1
TN MEMPHIS	77	56	83	43	67	4	1.1	.5	1.1	6.4	139	76	41	0	0	1	1
TN NASHVILLE	78	51	84	32	64	4	.4	0	.4	1.5	33	80	25	0	1	1	0
TX ABILENE	79	62	86	50	70	4	.7	.1	.7	6.9	177	76	38	0	0	1	1
TX AMARILLO	73	44	84	34	59	-1	.1	-.3	.1	2.0	65	63	19	0	0	1	0
TX AUSTIN	82	65	88	57	74	4	1.1	.4	.7	6.8	117	85	48	0	0	2	1
TX BEAUMONT	83	66	88	56	74	4	6.6	5.8	6.6	28.5	370	88	58	0	0	1	1
TX BROWNSVILLE	90	74	94	65	82	7	.3	-.4	.3	1.8	24	84	54	6	0	1	0
TX CORPUS CHRISTI	86	71	90	66	79	5	.6	0	.5	6.6	97	91	53	2	0	3	0
TX DEL RIO	86	67	94	59	76	5	.1	-.4	.1	1.8	38	79	38	2	0	2	0
TX EL PASO	74	46	83	37	60	-4	.4	.2	.3	2.3	128	68	29	0	0	2	0
TX FORT WORTH	82	61	89	50	71	4	1.0	.4	.9	7.6	155	77	37	0	0	2	1
TX GALVESTON	80	74	83	67	77	4	.1	-.5	.1	5.2	68	77	62	0	0	2	0
TX HOUSTON	85	63	89	52	74	3	3.8	2.9	3.4	9.8	136	87	46	0	0	3	1
TX LUBBOCK	75	50	85	37	63	2	.2	-.3	.2	3.7	100	72	24	0	0	1	0
TX MIDLAND	75	53	82	45	64	-2	.7	-.3	0	9.6	356	75	35	0	0	0	0
TX SAN ANGELO	79	59	85	51	69	2	.7	-.4	.7	11.1	271	76	44	0	0	1	0
TX SAN ANTONIO	87	70	94	61	78	8	.8	.2	.8	5.8	104	81	47	4	0	1	1
TX VICTORIA	86	68	90	60	77	5	.9	-.1	.8	7.0	100	92	54	2	0	2	1
TX WACO	82	60	88	45	71	2	.3	-.3	.2	2.4	48	84	47	0	0	2	0
TX WICHITA FALLS	83	55	91	42	69	3	.7	-.6	.7	10.3	215	70	29	1	0	1	0
UT BLANDING	55	33	65	25	44	-8	.6	.2	.3	1.8	95	90	43	0	4	3	0
UT SALT LAKE CITY	55	39	69	35	47	-5	1.1	.8	.6	2.1	150	85	53	0	0	4	1
VT BURLINGTON	55	37	72	24	46	-2	.1	-.5	.1	6.0	128	75	61	0	3	2	0
VA LYNCHBURG	73	46	79	31	60	1	.5	-.1	.5	3.1	62	95	---	0	2	1	0
VA NORFOLK	73	53	82	46	63	2	.9	-.2	.9	3.1	51	73	45	0	0	1	1
VA RICHMOND	74	48	81	34	61	2	3.5	2.9	2.7	7.4	137	92	47	0	0	2	2
VA ROANOKE	74	45	79	33	60	2	.6	-.1	.6	2.8	50	87	42	0	0	1	0
WA COLVILLE	57	37	60	29	47	1	.4	.1	.2	1.8	113	---	---	0	2	4	0
WA OMAK	65	42	67	34	53	---	.7	---	---	---	---	---	36	0	0	1	0
WA QUILLAYUTE	61	41	69	32	51	0	.4	-2.3	.4	9.1	77	98	64	0	2	1	0
WA SEATTLE-TACOMA	57	42	61	35	49	-3	.2	-.9	.7	1.9	44	87	62	0	0	1	0
WA SPOKANE	56	35	61	30	46	-2	.2	-.1	.1	1.1	73	94	62	0	2	2	0
WA WALLA-WALLA	59	44	65	42	52	-3	3.5	3.1	2.0	5.1	300	86	68	0	0	3	2
WA YAKIMA	66	38	67	32	52	2	.7	.1	.7	100	78	37	0	1	0	0	
WV BECKLEY	68	41	76	30	55	2	.7	-.5	.7	2.1	43	76	32	0	2	0	0
WV CHARLESTON	72	43	81	33	57	1	.5	0	.5	3.2	71	88	41	0	0	1	0
WV HUNTINGTON	72	44	80	31	58	1	.4	0	.4	2.4	59	86	43	0	1	1	0
WV PARKERSBURG	69	47	79	37	58	1	.5	.1	.5	2.7	67	90	48	0	0	1	1
WI GREEN BAY	52	39	69	26	45	-4	1.2	.8	.9	4.8	104	82	70	0	1	4	1
WI LA CROSSE	52	39	65	27	46	-6	1.0	.6	.4	9.6	209	88	71	0	2	3	0
WI MADISON	55	38	67	23	47	-3	.6	.1	.5	8.6	183	88	57	0	1	3	1
WI MILWAUKEE	55	43	68	33	49	-2	1.4	1.0	.6	5.0	114	79	59	0	0	4	2
WY CASPER	52	33	66	26	43	-5	.5	.3	.3	.5	36	81	44	0	4	3	0
WY CHEYENNE	53	35	67	25	44	-4	.5	.3	.4	1.5	94	74	42	0	3	4	0
WY LANDER	54	32	66	24	43	-4	1.1	.8	.8	1.2	63	76	46	0	3	4	1
WY SHERIDAN	52	32	67	23	42	-6	.8	-.6	.3	2.1	105	66	46	0	4	3	0
PR SAN JUAN	91	79	95	78	85	4	.8	-.5	.5	8.8	92	82	55	5	0	2	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Oct. 19, 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	81	59	88	47	70	2	4.8	4.2	4.7	12.5	227	90	45	0	0	2	1
LA LAKE CHARLES	81	62	86	49	72	2	3.5	2.7	3.5	9.2	144	93	53	0	0	1	1
LA NEW ORLEANS	84	63	91	49	74	4	1.8	1.4	1.7	8.2	114	95	53	2	0	2	1
LA SHREVEPORT	83	56	88	43	69	2	1.1	.5	1.1	2.8	58	88	43	0	0	2	1
ME CARIBOU	49	34	60	22	42	-2	.1	-.5	.1	5.8	107	82	49	0	4	2	0
ME PORTLAND	56	35	67	24	45	-3	.2	-.5	.2	5.0	100	90	56	0	3	3	0
MD BALTIMORE	71	47	81	34	59	2	.3	-.3	.3	2.4	50	90	42	0	0	1	0
MA BOSTON	62	48	72	39	55	0	.3	-.3	.3	2.8	58	77	49	0	0	1	0
MA CHATHAM	59	47	66	38	53	-1	.6	-.1	.4	3.8	79	89	63	0	0	4	0
MI ALPENA	52	39	67	30	45	-3	.1	-.3	.1	3.3	72	--	--	0	1	4	0
MI DETROIT	57	42	66	30	49	-4	.3	.3	.1	3.7	97	88	60	0	2	4	0
MI FLINT	53	40	65	29	47	-4	.8	.3	.4	6.5	163	91	66	0	2	3	0
MI GRAND RAPIDS	56	41	72	28	48	-3	1.2	.6	.5	5.9	118	92	73	0	1	3	0
MI HOUGHTON LAKE	48	36	64	26	42	-6	.6	0	.4	5.4	108	87	74	0	2	3	0
MI LANSING	55	41	70	30	48	-4	1.1	.6	.4	4.6	112	70	68	0	2	4	0
MI MARQUETTE	46	30	67	25	38	-11	.3	-.3	.2	8.7	174	94	66	0	6	4	0
MI MUSKEGON	54	41	69	29	48	-4	1.0	.4	.5	5.9	116	83	66	0	1	5	1
MI SAULT STE. MARIE	50	28	67	20	39	-7	.6	0	.3	4.3	77	88	56	0	5	4	0
MN DULUTH	44	33	51	21	39	-7	.6	.1	.5	7.4	161	88	60	0	2	3	1
MN INT'L FALLS	46	31	51	23	39	-5	.7	.3	.4	5.2	116	99	63	0	5	2	0
MN MINNEAPOLIS	52	38	63	30	45	-5	.3	.1	.3	4.0	103	78	65	0	1	2	0
MN ROCHESTER	51	36	64	28	44	-6	.6	.2	.3	3.5	78	86	71	0	2	4	0
MN SAINT CLOUD	50	35	58	29	42	-7	.5	.1	.3	6.7	172	84	--	0	3	5	0
MS JACKSON	80	53	86	37	66	1	2.1	1.6	1.1	5.3	120	93	48	0	0	3	2
MS MERIDIAN	79	52	83	37	66	1	3.7	3.3	2.1	7.8	170	93	56	0	0	2	2
MO COLUMBIA	67	48	76	35	57	0	2.4	1.6	1.6	4.3	61	69	49	0	0	3	2
MO KANSAS CITY	68	49	82	33	58	1	1.9	1.2	1.0	3.6	56	79	44	0	0	3	2
MO SAINT LOUIS	72	48	81	37	60	1	1.4	.8	1.2	4.6	102	83	49	0	0	3	1
MO SPRINGFIELD	72	48	79	36	60	1	2.3	1.5	1.2	4.1	63	71	45	0	0	3	2
MT BILLINGS	52	36	68	27	44	-6	1.6	1.4	1.0	2.3	110	69	52	0	3	3	2
MT GLASGOW	54	34	66	28	44	-3	.8	.7	.8	1.7	155	86	56	0	3	2	1
MT GREAT FALLS	50	35	62	31	43	-6	1.1	1.0	.7	2.1	124	76	55	0	3	4	1
MT HAVRE	53	36	65	32	44	-2	.6	.5	.5	1.1	73	85	57	0	1	4	0
MT HELENA	51	31	62	28	41	-4	.6	.5	.3	3.3	254	84	51	0	5	3	0
MT KALISPELL	55	31	58	25	43	1	T	-.3	T	1.2	63	77	48	0	4	1	0
MT MILES CITY	55	37	70	32	46	-3	1.1	1.0	.6	1.9	112	71	62	0	3	2	1
MT MISSOULA	53	34	60	26	44	0	.3	.1	.2	1.6	94	94	57	0	3	3	0
NE GRAND ISLAND	67	39	83	32	53	-1	.6	.4	.6	3.2	213	78	39	0	1	2	1
NE LINCOLN	68	42	85	29	55	0	.7	.4	0	1.0	25	76	34	0	1	3	1
NE NORFOLK	62	38	77	27	50	-3	1.1	.8	.9	2.0	59	79	45	0	2	2	1
NE NORTH PLATTE	65	35	81	30	50	-1	.9	.7	.9	1.3	46	85	36	0	4	2	1
NE OMAHA	64	42	81	27	53	-2	2.3	1.9	1.6	3.7	84	85	46	0	1	2	2
NE VALENTINE	57	37	75	30	47	-2	1.2	1.0	.7	1.7	81	81	49	0	1	2	0
NV ELY	53	22	64	17	38	-8	T	-.1	T	1.7	212	67	32	0	7	1	0
NV LAS VEGAS	73	50	85	42	62	-5	T	-.1	T	.2	40	40	16	0	0	1	0
NV RENO	56	28	68	24	42	-8	.1	0	.1	.7	117	89	38	0	5	1	0
NV WINNEMUCCA	58	27	70	19	43	-5	.1	0	.1	.4	57	82	33	0	4	2	0
NH CONCORD	58	34	70	24	46	-3	.2	-.4	.1	3.4	72	88	43	0	2	2	0
NJ ATLANTIC CITY	65	43	74	31	54	-2	.8	0	.6	3.9	80	96	51	0	0	2	1
NJ TRENTON	66	50	77	42	58	1	.4	-.2	.4	3.0	63	--	--	0	2	1	0
NM ALBUQUERQUE	65	36	78	26	51	-7	.1	-.1	.1	1.9	146	69	22	0	4	1	0
NM ROSWELL	73	47	82	38	60	0	T	-.3	T	6.6	264	--	--	0	0	0	0
NY ALBANY	61	41	79	29	51	0	.3	-.3	.3	3.1	63	70	42	0	1	2	0
NY BINGHAMTON	56	42	76	33	49	-1	.2	-.5	.2	3.6	75	86	58	0	0	2	0
NY BUFFALO	58	44	76	36	51	0	.1	-.6	.1	6.1	120	83	58	0	0	3	0
NY NEW YORK	65	53	76	45	59	1	.6	0	.6	2.7	55	77	50	0	0	1	1
NY ROCHESTER	58	44	80	38	51	-1	.1	-.5	.1	4.0	100	75	61	0	0	3	0
NY SYRACUSE	59	43	81	33	51	-1	.4	-.3	.3	4.2	93	84	53	0	0	4	0
NC ASHEVILLE	72	44	75	31	58	2	.5	-.2	.3	5.5	98	95	50	0	1	1	0
NC CHARLOTTE	73	50	80	38	62	1	.1	-.5	.1	5.6	110	91	55	0	0	2	0
NC GREENSBORO	71	47	77	35	59	0	.5	-.2	.5	3.6	67	96	54	0	0	2	1
NC HATTERAS	73	56	82	40	65	0	.2	-.9	.2	5.7	64	83	51	0	0	1	0
NC RALEIGH	75	49	83	34	62	2	.2	-.4	.2	4.8	87	94	52	0	0	1	0
NC WILMINGTON	77	54	83	42	66	1	T	-.7	T	6.4	81	94	60	0	0	1	0
ND BISMARCK	49	34	65	29	42	-5	2.0	1.8	1.3	3.1	163	77	60	0	2	3	2
ND FARGO	46	36	53	30	41	-6	.8	.6	.6	3.3	127	86	75	0	2	3	1
ND WILLISTON	53	34	65	25	43	-3	.7	.6	.4	3.1	194	88	50	0	3	3	0
OH AKRON-CANTON	62	45	75	33	54	1	.6	.1	.6	2.6	63	80	46	0	0	2	0
OH CINCINNATI	69	46	80	27	57	1	1.7	1.2	1.1	4.2	108	78	40	0	1	2	1
OH CLEVELAND	60	44	73	32	52	-2	.5	.1	.4	4.6	105	76	52	0	1	2	0
OH COLUMBUS	67	45	80	32	56	2	1.0	.6	.8	3.2	91	83	43	0	1	3	1
OH DAYTON	66	47	79	31	57	1	1.0	.6	1.0	2.8	80	77	39	0	1	1	1
OH TOLEDO	62	43	72	28	52	0	.3	-.2	.2	2.7	71	91	57	0	1	4	0
OH YOUNGSTOWN	59	43	74	29	51	-1	.5	-.2	.4	5.3	123	88	58	0	2	3	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 ESCS State offices in cooperation with the National Weather Service.

ALABAMA: Temperatures 3^o above normal. First rains for month 18th, 19th. Heaviest, 1.53 in.

Fieldwork: 5.7 days. Soil moisture short. Activity: Crop harvest; land preparation, seeding small grains, winter cover; livestock, poultry care. Corn 95% harvested, 85% 1979, 69% average. Soybeans: 80% leaves dropping, 77% 1979; 60% mature, 57% 1979, 67% average; 34% harvested, 29% 1979, 23% average. Cotton: 95% bolls open, 70% 1979, 73% average; 54% harvested, 18% 1979, 30% average. Peanuts: 86% dug, 96% 1979, 91% average; 78% combined, 94% 1979, 91% average. Wheat: 37% seeded, 38% 1979, 50% average. Sorghum: 67% harvested, 60% 1979. Condition: Soybeans, pastures poor; cotton poor to fair; pecans fair.

ARIZONA: Cold, sunny weather 1st half week, precipitation midweek mostly trace lower elevations, 0.50 in. to 1.00 in. central mountains, Mogollon Rim. Snow levels 5,000 ft. up to 6 in. Snowfall higher elevations. Sunny skies, warmer temperatures latter part week. Average temperatures 3 to 9^o below normal.

Cotton defoliation, picking accelerating, substantially behind last year, 15% picked to date compared 35% this time last year. Corn harvest full swing. Sorghum harvest seasonal progress. Sugarbeet planting virtually complete. Alfalfa harvest active but slowing. Lettuce harvest southeast full swing, central areas limited. Harvest cantaloups, honeydews seasonal progress. Mixed vegetables good progress. Lemon, grapefruit picking active, lemon harvest full swing, grapefruit harvest just underway. Other early bearing varieties good progress. Range fair north, poor to fair central. Southern desert ranges very poor. Livestock fair, water adequate north, short central and southern.

ARKANSAS: Temperatures about normal. Considerable rainfall. Highest temperature 85^o, lowest 28^o. All departures from normal +4 to -2^o, most rainfall 4.43 in., least 0.86 in.

Harvest slowed by rain. Soil moisture short to adequate. Fieldwork possible 6.0 days. Soybeans 14% harvested, 23% 1979, 21% average. Soybeans 84% yellowing, 70% shedding, 48% mature. Rice 90% harvested, 87% 1979, 89% average. Cotton 64% harvested, 25% 1979, 39% average. Planting wheat after cotton harvest. Sorghum 93% harvested, 84% 1979, 89% average. Oat planting 44%, 34% 1979, 38% average. Wheat 33% planted, 38% 1979, 38% average. Livestock fair condition. Pastures showing improvement from rains.

CALIFORNIA: Precipitation amounts were generally about 1.00 in. at the north end of the State, tapering off to a few hundredths in the mid-section. Average temperatures were below normal in all sections. The largest departures were in the northern Sierra Nevada where a few inches of snow were reported from higher elevations. Cold air penetrated to the southeastern deserts where nineties early in the week tumbled to seventies by week's end.

Rice maturity accelerating, crop 85% ripe: 40% harvested. Growers burning stubble. Cotton

defoliation active; 95% of fields with open bolls. Crop 4% harvested. Field corn, dry bean, and sugar beet harvest continues. Small grain planting continues, 5% winter wheat crop planted. Most raisins out of fields. Calmeria, Almeria, Emperor table grapes harvested. Wine grape harvest 85% complete. Persimmon and Pomegranate harvest continues. Desert Valley grapefruit and lemons look good. Navel orange picking starting soon, sizes small. Valencias progressing normally. Almond harvest 70% complete. Walnut harvest continues. Broccoli, cauliflower harvest quite active, Central Coast. Harvest green beans and peas for freezing active Westside. Cantaloup, honeydew harvest slow Desert. Carrot harvest increasing Kern District, steady Salinas Valley. Celery harvest heavy Central Coast. Fall sweet corn harvest started Coachella Valley. Lettuce decreasing Salinas, increasing San Joaquin Valley. Pumpkin harvest heavy. Potato digging full swing northern areas, continues Stockton, Riverside. Market tomato harvest increasing San Diego; continues Orange, Ventura, Salinas and Stockton. Ranges dry but providing adequate feed most areas. Calving active. Lambing beginning San Joaquin Valley. Cattle, sheep grazing harvested fields.

COLORADO: First winter storm began 14th dropping a foot or more of snow in the high country. Eastern Plains received only scattered showers. Clear, cool weather returned by weekend. Beginning of week above normal temperatures fell to well below normal at midweek but returned to near average by weekend.

Winter wheat seeded 97%, 100% 1979, 99% average, emerged 85%, 82% 1979, 85% average. Corn mature 95%, 90% 1979, 97% average; grain harvested 49%, 27% 1979, 44% average, silage harvested 100%, 98% 1979, 100% average. Sorghum ripe 92%, 88% 1979, 93% average; grain harvested 29%, 29% 1979, 35% harvested; forage harvested 86%, 96% 1979, 89% average. Dry beans cut 96%, 100% 1979, 99% average; threshed 90%, 96% 1979, 97% average. Sugar beets harvested 32%, 36% 1979 and average. Onions harvested 91%, 93% 1979. Six days suitable for fieldwork. Ranges and pastures fair condition. Livestock good condition.

FLORIDA: Mostly sunny days and fair nights except partly cloudy extreme south, 13th-15th. Temperatures cool during first half of period with lows in the 50's Panhandle, north; 60's central, south. Highs were in the 70's, north to low and mid 80's, central and south the 16th. Readings continued warm with lows in the 60's Panhandle, north; mid 60's to low 70's, central, south. Highs were in low 80's Panhandle, north to mid and upper 80's, central, south. Record high readings at weekend were recorded at several locations. Little or no rainfall occurred except for accumulations of near 1.00 in. or less, southeast Coast.

Soil moisture short most areas. A few localities, mostly along the east Coast, received showers. Soybean, cotton harvest very active. Peanut, hay harvest about complete. Sugarcane harvest about to begin, mills preparing for new season. Land preparation for planting small

grains slow due to dry soils. Pastures mostly poor to fair except good to excellent in scattered southern areas. Cattle good condition. Citrus grove condition good. Rain needed all areas. Most growers irrigating. Some leaf curl, very little wilt or new growth. Harvest active and increasing. Planting continues very active. Overall crop condition mostly good to excellent as cooler weather very beneficial. Harvest continues very active pole beans, sweet corn, cucumbers, eggplant, squash. Snap bean, okra, pepper, radish, tomato harvest gaining. Fall watermelon harvest continues. Good supplies expected most crops in two to three weeks. Fieldwork very active. Irrigation active many areas to maintain adequate soil moisture. Spray programs active and effective.

GEORGIA: No rain except very light amounts near coast on 16th. Temperatures averaged 1 to 30 below normal. Extremes: 28 and 89°. Weekend brought rainfall. Heaviest amounts just over 2.00 in. in mountains. The southern quarter received only few sprinkles, with amounts there less than 0.25 in.

Soil moisture very short to short. Six days suitable for fieldwork. Harvesting and small grain planting active. Corn mostly poor to fair, 95% harvested, 90% last year, 81% average. Soybeans poor to fair, 99% setting pods, 59% leaf drop, 14% harvested, 16% last year and average. Peanuts poor to fair, 92% dug, 98% last year and average, 85% threshed, 94% last year and average. Cotton poor to fair, 97% open, 91% last year, 76% harvested, 32% last year, 34% average. Apples fair, 97% harvested, same as last year. Pecans fair to good, 5% harvested, 6% last year, 10% average. Small grain planting: Wheat 21%, 27% last year, 29% average; rye 36%, 42% last year, 43% average; other small grains 31%, 38% last year, 39% average. Pastures, hay crops poor to fair. Cattle, hogs fair to good.

HAWAII: Weather favorable. Showers generally light and beneficial. Some major crop growing areas were dry on Maui and Hawaii. Heavy irrigation required to maintain fair to good crop progress. Frequent spraying continues to control disease and insect infestation. Vegetables; supplies adequate, but generally on the light side. Bananas; harvesting light. Papayas; harvesting active. Heavy harvest will continue. Rains keeping moisture level adequate. Pineapples; harvesting light. Sugar; steady and active. Pastures; generally fair to good.

IDAHO: Temperatures below normal. Precipitation ranged from a trace to 1.64 in. Southcentral and eastern Idaho hit by snow storms which interrupted harvest. Snow depths up to 18 in. in higher elevations.

Potatoes harvested 85%, 83% 1979, 89% average. Sugarbeets harvested 30%, 22% 1979, 33% average. Dry beans harvested 98%, 100% 1979, 90% average. Onion harvest 96%, apple picking 85% complete, alfalfa seed and red clover seed both over 90% harvested. Winter wheat 83% planted and 56% emerged. More livestock moving from summer ranges. Four days suitable.

ILLINOIS: Temperature 1 to 30 below normal north, 10 above normal south. Precipitation 0.50 to 2.00 in., mostly midweek.

Soil moisture 47% short, 50% adequate, 3% surplus. Corn 77% harvested, 30% 1979, 43%

average. Soybeans 93% harvested, 87% 1979, 83% average. Winter wheat acreage 85% seeded, 75% 1979, 72% average. Winter wheat 40% emerged, 18% 1979. Sorghum 75% harvested. Plowing 1981 corn and soybean acreage 33% complete, 17% 1979, 18% average. Pastures 2% excellent, 34% good, 55% fair, 9% poor. Fieldwork: 5.5 days suitable.

INDIANA: Rather cloudy, rainy week. Temperatures ranged from 32 to 84°. Sunshine averaged 40 to 70% of possible. Rainfall ranged from 0.60 to 0.90 in. in central and north to 1.40 in. in southern third.

Fieldwork averaged 6.0 days. Topsoil and subsoil moisture short to adequate. Corn 55% harvested, 1979 20%, average 30%. Corn moisture 19%. Soybeans 90% combined, 1979 55%, average 60%. Soybean moisture 12%. Wheat 85% seeded, 1979 60%, average 65%. Wheat 40% emerged, 1979 30%, average 30%. Wheat stands fair to mostly good. Pastures fair.

IOWA: A seasonal-to-cool week with moderate rain except heavy over the dry west central, falling mostly the 15th to 17th. For most of the State, this was the first measurable rain in 3 or 4 weeks.

Fieldwork: 5.3 days favorable. Topsoil moisture: 24% short, 69% adequate, 7% surplus. Subsoil moisture: 29% short, 69% adequate, 2% surplus. Corn acreage harvested: 64%, 1979 23%, normal 35%. Soybean acreage harvested: 94%, 1979 92%, normal 83%. Fall plowing complete: 20%, 1979 17%, normal 15%. Fertilizer applied: 23%, 1979 19%. Pasture condition fair to good. Grain movement moderate to heavy.

KANSAS: Rain central and east generally 1.00 in. to 3.00 in.; spotty and mostly light moisture west. Few stations east central 4.00 in. to over 5.00 in. Temperatures 56° northwest to 62° southeast or 1 to 30° above normal. Killing frost and freezes over the west on the mornings of the 17th and 18th with scattered frost and light freezes west and north morning of the 19th.

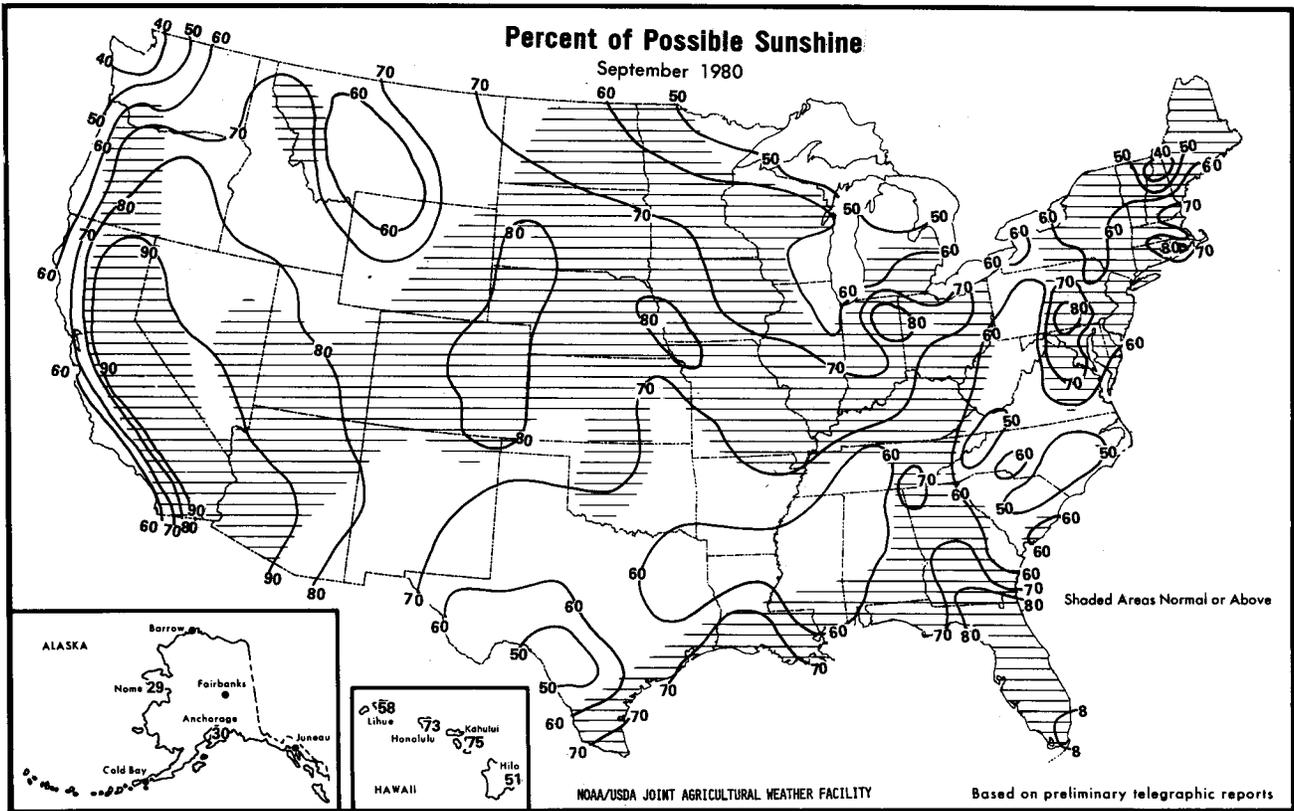
Wheat planted 90%, last year 80%, average 90%, rains eastern half last week should encourage emergence, stands reported fair to good. Corn mature 99%, last year 99%, average 98%. Corn harvested 70%, last year 60%, average 65%. Sorghum mature 80%, last year and average 90%. Soybeans harvested 50%, last year 65%, average 40%, mature 85%. Cattle moving to corn and sorghum stubble following harvest. Fieldwork: 6.0 days suitable.

KENTUCKY: Temperatures averaged near the seasonal normals with coldish readings at the beginning and end of week. Rainfall occurred only on 17th and 18th with amounts ranging from around 0.25 in. in the east to nearly 2.00 in. in the west.

Fieldwork: 5.6 days suitable. Burley tobacco curing up well, 9% stripped. Corn harvest 78% complete, 45% last year, average 52%. Soybean 52% harvested, 24% in 1979, and 38% average. Soybeans 99% shedding leaves or later. Recent rains helped wheat germination. Wheat seeding 58% complete.

LOUISIANA: Rainfall general. Temperature 1 to 40 above normal. Extremes: 37 and 91°.

Soil moisture short, but helped by weekend rains. Fieldwork: 6.3 days suitable. Cotton poor to fair; harvested 74%, 31% 1979, 43%



average. Rice harvested 98%, 97% 1979, 98% average. Sorghum harvested 97%, 92% 1979, 88% average. Soybeans poor to fair; leaves turning 99%, 97% 1979; shedding 86%, 80% 1979; harvested 47%, 50% 1979, 51% average. Sugarcane fair to good; planted 94%, 95% 1979, 89% average; harvested 3%, 4% 1979, 7% average. Vegetables poor. Sweetpotatoes harvested 82%, 80% 1979, 80% average. Pecans poor to fair; harvested 8%. Pastures poor. Hay final cutting 93%. Wheat planted 32%, 46% 1979, 52% average; emerged 9%. Livestock fair. Supplemental feeding continued.

MARYLAND AND DELAWARE: Temperatures ranged from 1° above normal to 1° below normal. Highs upper 60's to low 70's, lows mid to upper 40's. Precipitation minimal.

Corn for grain 80%, last year 65%, normal 70%. Soybeans harvested 25%, 10% last year, 20% normal. Small grains seeded, barley 80%, wheat 80%, oats 70%, and rye 70%. Soil moisture short to adequate. Pasture short. Nearly 7.0 days suitable for fieldwork.

MICHIGAN: Temperatures averaged 2 to 6° below normal. Precipitation moderate but general. Upper Peninsula less than 0.50 in., central and west central Lower averaged 1.30 in., elsewhere averaged 0.50 in. to 1.00 in.

Fieldwork slowed last half of week. About 3.0 days suitable for fieldwork. Soil moisture supplies adequate to surplus. Corn 17% harvested, 8% last year, 20% normal. Corn silage 90% harvested, 92% last year, 90% normal. Soybeans 29% harvested, 24% last year, 36% normal. Dry beans 90% harvested, 94% last year, 85% normal. Potatoes 84% done, 88% last year, 84% normal. Winter wheat 80% planted, 91%

last year, 84% normal. Apple picking slowed by rain and about two-thirds complete. Onion and vegetable harvest nearing completion.

MINNESOTA: Temperatures averaged 5 to 8° below normal. Precipitation averaged 0.50 to 0.75 in. above normal in the western districts, 0.25 to 0.50 in. above normal in the central districts, near normal to slightly below normal in the eastern districts. Precipitation totals generally 0.50 to 1.00 in. except for locally in the northwest and west central districts up to 1.35 in. No new snow reported.

Fieldwork progressed well until later in week when wet weather delayed harvest. Topsoil moisture rated 2% very short, 6% short, 80% adequate, and 12% surplus. Field corn: Picked or combined 40%, 1979 8%, normal 50%; moisture content 22%, 1979 30%, normal 22%; silage cut 97%, 1979 89%, normal 96%. Soybeans: Combined 88%, 1979 78%, normal 83%; moisture content 11%, 1979 12%, normal 12%. Sunflowers: Combined 76%, 1979 53%, normal 69%. Sugarbeets: Harvested 78%, 1979 75%, normal 82%. Potatoes: Harvested 95%, 1979 93%, normal 94%.

MISSISSIPPI: Temperature extremes 29 and 89°. Rain widespread, many locations reported over 2.50 in.

Soil moisture mostly short to adequate in central and northern counties, short to very short in southern counties. Fieldwork: 5.0 days suitable. Cotton and soybean harvesting moved along rapidly until rains over weekend slowed progress. Winter wheat and grazing crops helped by rains. Hay 96% harvested, 95% 1979, 93% average. Peanuts 84% harvested, 78% 1979, 86% average. Rice 91% harvested, 85% 1979, 84% average. Corn 91% harvested, 78% 1979, 82%

average. Sweetpotatoes 60% harvested, 79% 1979, 74% average. Sorghum 88% harvested, 87% 1979, 84% average. Cotton 63% harvested, 28% 1979, 57% average; condition fair to poor. Pecans 13% harvested, 3% 1979; condition poor to fair. Soybeans 92% shedding, 99% 1979, 92% average; mature 64%, 71% 1979, 65% average; 35% harvested, 35% 1979, 51% average; condition poor. Winter wheat 26% planted, 46% 1979, 55% average. Pastures poor condition.

MISSOURI: Temperatures averaged near normal. Precipitation ranged from over 1.00 in. in the north to over 2.00 in. in the south.

Fieldwork: 4.4 days suitable. Corn 85% harvested, last year 46%, normal 57%. Grain sorghum 94% mature, last year 92%, normal 97%. Grain sorghum 72% harvested, last year 66%, normal 57%. Soybeans 93% mature, last year 88%, normal 84%. Soybeans 68% harvested, last year 66%, normal 43%. Winter wheat 66% seeded, last year 58%. Cotton 73% harvested, last year 42%, normal 47%. Fall plowing 31% complete, last year 20%. Condition of pasture poor to fair. Topsoil moisture supplies short to adequate.

MONTANA: Very warm early week but significant cooling by midweek. Temperatures averaged about a degree below normal over west and north central and 4 to 5° below normal elsewhere. Highest 79° at Roundup, lowest 16° at Butte. Significant precipitation fell over all but a small areas in north central division. Precipitation of from 1.50 in. to 2.50 in. were common over central, south central, and southeast.

Topsoil moisture supplies mostly adequate from recent rain and snow. Subsoil moisture short east, mostly adequate elsewhere. Days suitable for fieldwork: 4.0. Winter wheat germination mostly good and condition fair to good. About 85% winter wheat emerged. Nearly 75% cattle and 85% sheep moved from summer pastures. Crop harvesting to date: Percent followed by previous year and average. Dry beans 95%, 100%, 100%; sugarbeets 65%, 90%, 90%; potatoes 65%, 90%, 85%.

NEBRASKA: Temperatures below normal, coldest temperatures occurred 16th through 18th, averaging 10 to 20° below normals. Rainfall widespread, very heavy amounts in east central and southeast.

Corn harvest three weeks ahead of normal and four weeks ahead of previous year. Harvested 75%, 30% last year and 40% normal. Ranging from Panhandle 40% to east central 90%. Windy conditions continued to cause ear loss. Sorghum 85% harvested, 55% last year and 60% normal. Soybeans 90%, 95% last year and 70% normal. Winter wheat mostly fair, 95% emerged. Cooler temperatures encouraged resumption of sugar beet harvest. Topsoil moisture mostly short to adequate. Subsoil moisture mostly short. Pasture and range feed supplies mostly short to adequate. Dusty conditions before midweek rain caused respiratory problems in some livestock. Days suitable for fieldwork: 5.5.

NEVADA: Cold, rainy weather early with strong winds. Snow fell higher elevations. Clear, cold remainder of week. Temperatures averaged several degrees cooler than normal. Extremes: 17 and 94°.

Frosts slowed potato digging operations. Snow at higher elevations bringing cattle down.

NEW ENGLAND: Temperatures 5 to 10° below normal early week. Warming trend raised readings to 5 to 10° above normal by weekend. Showers early week. Amounts from 0.25 to 0.50 in.

Fieldwork: 3.0 days extreme north, 6.0 days elsewhere. About 80% of potato crop harvested in northern Maine. Cold, damp conditions continue to hinder harvest. Corn harvest over 90%. Nearly 75% of apple harvest completed. Vegetable production ended. Two more weeks needed to finish cranberry harvest, which is now 70% completed. Soil moisture reported adequate north to short south. Grazing conditions adequate in Maine, short elsewhere.

NEW JERSEY: Temperatures averaged near normal. Extremes 26 and 84°. Rainfall averaged 0.54 in. north, 0.40 in. central and 0.73 in. south. Soil moisture, in percent of field capacity averaged: 57 north, 64 central and 70 south.

Fieldwork: 6.3 days suitable. Frost killed tender crops in cooler areas. Showers beneficial, soil moisture still short. Harvest of hardy vegetables continues. Sweetpotatoes, apple and cranberry harvest well advanced. Harvest of corn for grain and soybeans active. Fall grain seeding well advanced. Planting of cover crops active. Pasture making limited growth.

NEW MEXICO: Adequate supply of soil moisture continues. Short supply in the northeast. Dryland crops in fair condition most areas with most irrigated crops in good condition. Freezing temperatures causing some damage to vegetables and alfalfa but killing freezes limited to northern areas. Cotton remains in good condition with approximately 65% of bolls open and 4% harvested. Alfalfa harvest nearly complete in north. Fifth cut 75% complete in south with sixth cut well underway. The fourth cut complete as far north as Valencia County. Winter wheat, barley almost all emerged and approaching an acceptable stand. Some wheat pastures beginning to be grazed. Corn harvest varying from 10% to 80% in more advanced areas. Irrigated grain sorghum in good condition and dryland fair. Approximately 25% grain harvested. High winds caused some early drop of immature pecans. Ranges continue in fair condition overall. Livestock in good condition with fall shipments continuing.

NEW YORK: Cold early week, warm late in week. Rainfall again below normal.

Good harvest conditions. Silage corn 85% in, 79% 1979, 82% average. Grain corn 27% complete, 16% 1979, 21% average. Third cutting alfalfa 90% done, 79% 1979, 93% average. Long Island, Upstate potato harvests in late stages. Onion harvest nearly done. Cabbage harvest active. Apple harvest well along for most varieties, proceeding rapidly. Champlain Valley harvest done. Concord grapes 85% harvested.

NORTH CAROLINA: Temperatures near normal except at coast which was 5° below normal. Precipitation normal except southern Piedmont above normal.

Fieldwork: 6.3 days suitable. Soil moisture: 4% very short, 43% short, 53% adequate. Conditions: Apples and cotton fair to good; pastures, peanuts, soybeans, sweetpotatoes, sorghum grain fair. Harvested: Cotton 64%, 1979 19%, average 22%; sweetpotatoes 69%, 1979 74%, average 72%; sorghum grain 62%,

1979 58%, average 63%; soybeans 8%, 1979 8%, average 7%; corn for grain 89%, 1979 80%, average 81%; peanuts dug 79%, 1979 48%, average 74%; peanuts threshed 64%, 1979 30%, average 61%; apples 72%, 1979 78%, average 86%. Planted: Wheat 30%, 1979 22%, average 26%; oats 42%; barley 39%; rye 32%. Phenological stages: Cotton opened bolls 97%, 1979 78%; soybeans leaves dropped 44%, 1979 38%.

NORTH DAKOTA: Last week saw the season's first general snowfall with 6 inch accumulations occurring in north central counties. Rainfall was general with southwest and south central divisions receiving greater than 2.00 in. Temperature extremes: 65 and 19°.

Harvest operations stalled 16th. Crop harvest completion percents vs. last year: Sunflower 40, 35; corn 48, 46; soybeans 85, 81; durum wheat 97, 100 and sugarbeets 48, 46. Potatoes 95% dug. Dry edible beans 92% combined. Soil moisture much improved brightening prospects for next year. Some fields too muddy to be harvested before ground freezes. Calves continue to be weaned and marketed. Grazing season coming to an end.

OHIO: Week started and ended cool, but warm weather during midweek yielded weekly average temperatures near seasonal normals. Temperatures ranged from 24 to 80°. Rainfall occurred the 17th and 18th. Amounts ranged from 0.30 in. in the northwest to 1.50 in. in the south. Totals about 0.20 in. below normal in the north and 1.00 in. above normal in the south.

Corn and soybean harvesting both about 12 days ahead of average. Moisture content of harvested corn continues to run below normal; grain is often moving from fields to storage without being artificially dried. Soybean moisture running 9 to 13 percent. Commercial storage for the heavy and early soybean and corn crops is becoming an increasing problem. Transportation shortages have left elevators unable to load out. Some elevators have reduced hours for receiving crops while others have ceased receipts altogether. Soybeans harvested 85%, 35% 1979, 60% average. Corn harvested 50%, 20% 1979, 25% average. Sugarbeets harvested 20%, 10% 1979, 20% average. Popcorn harvested 80%, 30% 1979, 40% average. Apples harvested 65%, 75% 1979. Wheat planted 85%, 75% 1979, 75% average. Wheat emerged 40%, 35% 1979. Days favorable 6.5. Pasture condition fair to good. Soil moisture 61% short, 39% adequate.

OKLAHOMA: Week mild with measurable rain falling most divisions. Temperatures averaged near normal to several degrees above normal. Precipitation varied from 0.10 in. Panhandle to over 2.00 in. southeast. All divisions continue below normal precipitation except south central and southeast.

Much needed rainfall received during week beneficial to small grain and pasture development. Wheat seeded 65% 1980, 70% 1979, 85% average; wheat 30% emerged 1980 and last year, 50% average. Sorghum 85% mature 1980, 95% 1979, 90% average. Sorghum harvested 40% 1980 and last year, 35% average. Cotton 85% open bolls 1980 and last year, 70% average; cotton harvested 10% 1980, 5% 1979 and average. Days suitable for fieldwork: 5.6.

OREGON: Cold, wet weather moved into State bringing below normal temperatures. Precipitation: Coastal range up to 2.00 in.,

Willamette Valley averaged 0.70 in., central averaged 0.20 in. and eastern up to 1.20 in.

Soil moisture supplies short to adequate western section; adequate central and eastern sections. Winter wheat planting 69%, 70% 1979. Emergence 53%, 45% 1979. Other field activities include last alfalfa hay cutting, grass and clover seed planting, peppermint and grass seed fertilization, corn silage harvest. Pear harvest almost finished. Delicious apple harvest full swing. Filbert harvest full swing. Walnuts dropping, blight damage. Early cranberry harvest started. Potato harvest good. Onions about finished. Livestock condition good. Range and pastures: Good condition east; fair condition west.

PENNSYLVANIA: Temperatures began cool but warming trend by midweek. Showers on 18th, up to 0.50 in. most areas. Extremes: 81 and 21°.

Six days suitable. Soil moisture short to adequate. Activities: Baling hay; harvesting vegetables, fruit, potatoes, corn, soybeans and ensilage corn; seeding wheat and barley; filling silos and general farm chores. Soybean harvest 41% complete, last year 12%. Potato harvest 93% complete, last year 87%. Ensilage corn harvest virtually complete, last year 76%. Corn 53% mature, 42% harvested; last year 65% mature, 13% harvested; average 69% mature, 19% harvested. Fall plowing 89%, last year 90%. Barley planting virtually complete, same as last year. Wheat planting 85% complete, last year 84%. Fourth cutting alfalfa 71%, last year 77%. Hay quality good to fair. Feed from pasture below average to average.

PUERTO RICO: Island average rainfall 1.41 in. or 0.38 in. below normal. Highest weekly total 4.27 in. Temperatures averaged about 81 to 83° on coasts and 75 to 77° interior divisions. Extremes: 96 and 58°.

SOUTH CAROLINA: Temperatures climbed steadily from below to well above normal. Some frost 13th in west, north. Light, widely scattered rainfall in eastern half.

Soil moisture short to adequate. Completing corn harvest, 97%, 95% year ago, 93% average. Cotton poor condition, 99% bolls opening, 98% year ago, 97% average; 64% harvested, 46% 1979, average. Soybean condition poor, beans smaller than normal, 57% shedding leaves, 58% last year, 70% average, 19% mature, 27% last year, 26% average; 6% harvested, 3% last year, 6% average. Pastures fair condition, hay prospects improving. Winter grazing 66% seeded, 71% year ago, 68% average; emerged at 46%, 54% year ago, 50% average. Sweetpotatoes 56% harvested, 75% year ago, average. Fall snap bean condition poor to fair due to damping off, 39% harvested, 43% year ago. Fall cucumbers fair to good condition, some drought problem but adequate market supplies; 72% harvest ahead of 32% last year.

SOUTH DAKOTA: Rainfall; significant amounts over entire State, 3 plus in. central part. Snowfall; 7 in. Black Hills and 4 in. northwest, light elsewhere. Temperatures 2 to 9° below normal. Extremes: 85 and 19°.

Harvest slowed or halted by rain 16th. High winds caused additional corn ear loss of 10% or more. Fall seeded crops received beneficial and much-needed moisture, improving chances for winter survival. Winter wheat and rye mostly fair to good condition. Topsoil moisture supplies much improved; 4% surplus, 51%

adequate, 35% short, and 10% critically short. Livestock generally good condition. Stock water supplies improved but still short in western two-thirds. Livestock continue to be moved to corn stalks both in and out-of-State for winter. Soybeans 99% mature; sunflowers 95% mature; grain sorghum 93%. Alfalfa for seed harvested 97%, 89% 1979, 78% average. Soybeans harvested 92%, 85% 1979, 74% average. Sunflowers harvested 74%, 64% 1979, 56% average. Grain sorghum harvested 60%, 53% 1979, 62% average. Corn harvested 60%, 33% 1979, 48% average.

TENNESSEE: General rains late week. Amounts ranged between 0.50 and 3.00 in. Temperatures near normal east; 3° above normal middle and west.

Fieldwork: 6.0 days suitable. Soil moisture 91% short, 9% adequate. Activities: Harvesting corn, cotton, soybeans; seeding small grains. Corn 75% harvested, 1979 50%, average 41%. Cotton 75% harvested, 1979 11%, average 35%. Soybeans 65% mature, 1979 58%, average 50%; 25% harvested, 1979 18%, average 20%. Burley tobacco 30% stripped, 1979 30%, average 29%. Fall plowing 70% complete, 1979 70%, average 72%. Winter wheat 55% seeded, 1979 54%, average 55%. Pastures mostly poor. Cattle fair. Premature marketings occurring due to pasture shortages.

TEXAS: COMMERCIAL VEGETABLES: In Lower Rio Grande Valley, harvest cucumbers, green peppers and melons continued. Seeding onions continued. Harvest oranges, grapefruit continues to increase. In Coastal Bend area, harvest cucumbers active. In San Antonio-Winter Garden area, harvest cantaloups, cucumbers, green peppers began while harvest of peas, squash continued. In East Texas, harvest of sweetpotatoes continued. Harvest of watermelons began to taper off. On High Plains, harvest of cucumbers, carrots, lettuce, green peppers continued. In Trans-Pecos area, harvest chili peppers, okra, tomatoes, roasting ears, cabbage, green peppers active. Pecans beginning to split shucks many areas. Some hand harvest continued southern parts.

Range and livestock: Range, pastures continued to respond from recent moisture, provide new growth for fall and winter grazing. Early wheat fields have begun to provide limited grazing high plains.

Crops: Scattered showers interrupted harvesting operations. Cotton harvest, defoliation High, Low Plains interrupted by scattered showers. Yield reduction following rain, hail damage open cotton. Heavy second-growth foliage Low Plains. Lower Rio Grande Valley plow-up continues. Sorghum harvest delayed High Plains, baling stubble winter roughage. Corn harvest Panhandle. Wheat and oat fields benefited recent rains. Some High Plains dryland wheat fields poor condition. Blacklands, Central Texas pre-plant moisture some oat fields replanted severe armyworm damage. Hay supplies High, Low Plains. Producers Central, East Texas another cutting following rains. Peanut harvest Cross-Timbers, good yields early irrigated fields. Many dryland fields grazed, baled for hay. Low yields, poor quality East Texas. Harvest second cutting rice interrupted showers. Birds problem. **Weather:** A cold front widespread thunderstorms. Temperature near normal West Texas; 3 to 5° above normal elsewhere. Rainfall near normal across State; East Texas 0.50 in. above normal.

Cotton open bolls 75%, 79% 1979. Cotton harvested 33%, 22% 1979, 26% average. Sorghum harvested for grain 85%, 80% 1979, 84% average. Wheat planted all purposes 69%, 73% 1979, 78% average. Wheat emerged 52%, 48%. Corn for grain harvested 91%, 89% 1979, 90% average. Peanuts harvested 38%, 75% 1979, 66% average. Soybeans harvested 48%, 28% 1979, 32% average. Pecans harvested 3%, 4% 1979, 5% average. Sunflowers harvested 60%, 67% 1979, 63% average.

UTAH: Recurring periods rain or snow in valleys and snow in mountains forepart period. Accumulated amounts moisture moderate to heavy. First measurable snow of season many valley stations. Cooling trend temperatures early in week, warming trend over weekend. Average temperatures ranged from 5° below normal to 3° above. Heavy precipitation produced marked improvement in soil moisture most areas.

Silage and apple harvest still active, nearing completion. Also winter wheat seeding. Some fourth crop hay being made. Most cattle and sheep on winter ranges in good condition.

VIRGINIA: Cool, below normal temperatures with killing frost many locations followed by warming temperatures near weekend. Average temperatures upper 50's, near normal. Extremes: low 20's to low 80's. Rainfall moderate to heavy occurring 18th, 19th averaging near 1.00 in. Varying from 0.25 in. to 3.45 in. Heaviest amount central areas.

Open weather speeded fall crop harvesting. Topsoil moisture mostly short. Fieldwork: 5.8 days available. Harvest progress: Corn for grain 71%, 60% 1979, 63% average; soybeans 13%, 5% 1979, 9% usual; grain sorghum 30%, 5% 1979, 12% average; peanut digging 65%, 75% 1979, 81% usual; peanut combining 45%, 35% 1979, 57% average. Small grains seeded: Wheat 40%, 15% 1979, 34% average; barley 70%, 30% 1979, 59% usual; winter oats 75%, 45% 1979, 66% average. Pastures generally poor to fair except good southwest. Cucumber, snap bean, sweetpotato harvests active on Eastern Shore. Limited frost damage on southside tobacco. Late summer seeded alfalfa shows poor stands north. Apple picking nearing end. Cabbage harvest finished up southwest.

WASHINGTON: WEST: Mount St. Helens entered another eruptive phase; four eruptions sent ash over immediate area, southwest central and across southern border of Washington into northern Oregon. Temperatures, precipitation averaged slightly below normal. Some light frost reported. Sweet corn, carrot, pumpkin, celery, late season leafy vegetable harvests continue. Seed potato digging complete, seed beet harvest approaching completion. Silage corn harvest, green chopping remains active.

East: Heavy rains southeastern counties, light or moderate elsewhere. Temperatures mostly moderate, some light frost in northern orchards. Apple picking in later stages. Fall seeding of winter grains well along. Emergence rapid; crops in average to better condition. Sweet corn, potato, alfalfa seed harvests continue. Some fourth cutting of alfalfa for hay continues.

(continued on backcover)

International Weather and Crop Summary

October 13-19

HIGHLIGHTS

USSR. Storms impeded winter grain harvesting over the northwest, but most areas had favorable weather for the continuing harvest of maize, sugarbeets, sunflowerseed and other spring-planted crops. Relatively warm weather allowed winter grain growth to continue, but freezing temperatures were again reported in northeastern parts of the belt.

EUROPE. Wet weather continued over much of Europe, disrupting fall field work at many locations. Winter grains which have already been sown benefited from the moisture, especially in the northeast where warm weather promoted good fall growth. Rain improved soil moisture in most of the Iberian Peninsula but became excessive in northern Italy.

NORTHWESTERN AFRICA. Soil moisture is now believed adequate for sowing winter grains, especially in Morocco where abundant rain fell last week.

SOUTH AFRICA. No significant rain fell in the major corn growing area, although moderate rain fell along the southeast coast last week.

AUSTRALIA. Rainfall, to late for northern winter wheat areas, benefited spring-sown crops in Queensland and northern New South Wales where, along with West Australia, soil moisture supplies are very low.

EASTERN ASIA. The harvest continued as good weather returned to most of the North China Plain. Double the normal rainfall has created unfavorable harvest conditions for rice in the south.

SOUTH ASIA. Rainfall in eastern portions of the Indian Peninsula may have interfered with the drying of autumn-harvested rice, but it aided development of winter-rice crops. Major west-central cotton fields remained too dry with cotton still in the boll-setting stage.

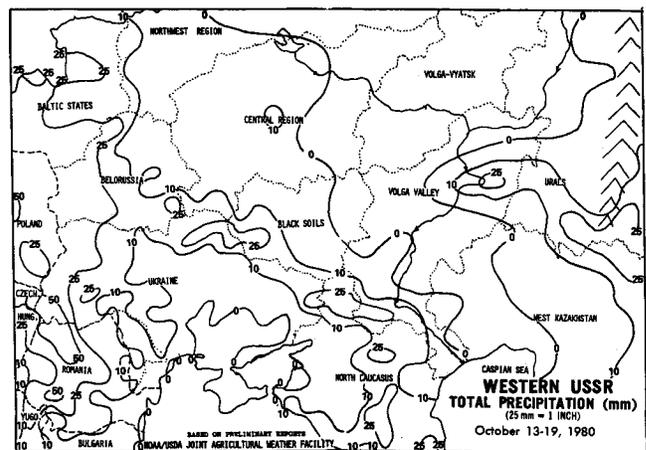
THAILAND. A tropical disturbance from the Bay of Bengal produced relatively heavy rains last week in the Central Plains where some fields are water-logged. Flood waters have receded from most provinces in northern Thailand, but adequate sunshine is now needed for the ripening period of the wet-season rice crop.

CANADA. Rain continues to interfere with late harvest activities in the Prairie Provinces.

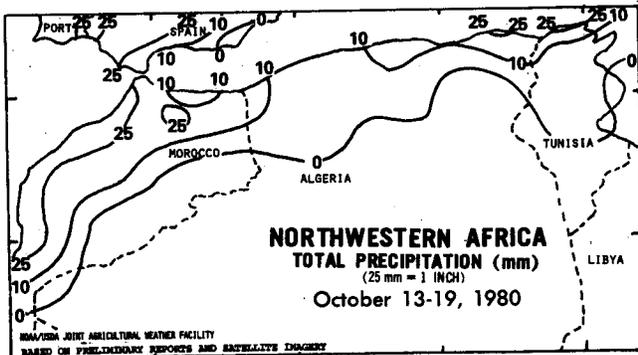
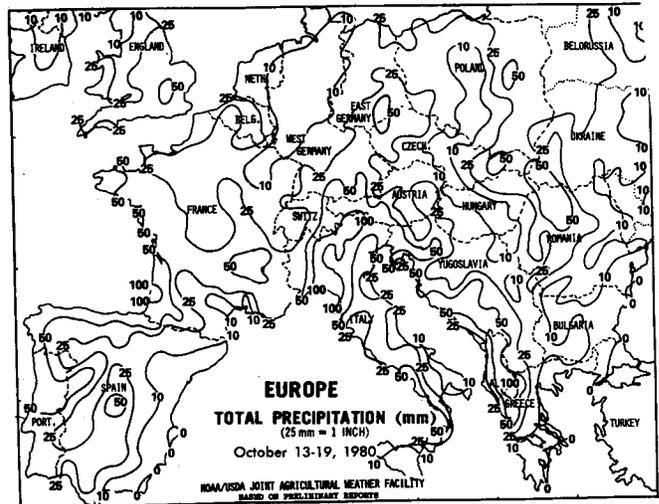
MEXICO. Sunny weather prevailed over most cotton areas while the early corn crop harvest in the Southern Plateau was favored by slightly dry conditions. Reservoirs in the northwest received some rain but still remain well below normal levels.

SOUTH AMERICA. Badly needed rain fell last week in much of the Argentine wheat area, helping to prevent further crop deterioration. This provided improved conditions for maize sowing and early growth. In Brazil, light rain fell over a major portion of the wheat area. The mid-September frost apparently damaged wheat crops more than had been thought earlier.

USSR. Storms again held to the west, where extensive areas of above-normal precipitation spanned the western Ukraine, Belorussia, and the Baltics. Conditions were not favorable for winter grain harvesting over much of the northwest. Relatively heavy precipitation fell in a narrow band across to northern Ukraine and parts of the North Caucasus. The wetness interfered with fieldwork, but most crop areas had favorable weather for the continuing harvest of maize, sugarbeets, sunflowerseed, and other spring-planted crops. A return of relatively warm weather allowed winter grain growth to continue, but freezing temperatures again were reported in the northeastern portion of the belt. Rainfall increased in some cotton areas, possibly causing some minor problems for harvesting which was in the latter stages.

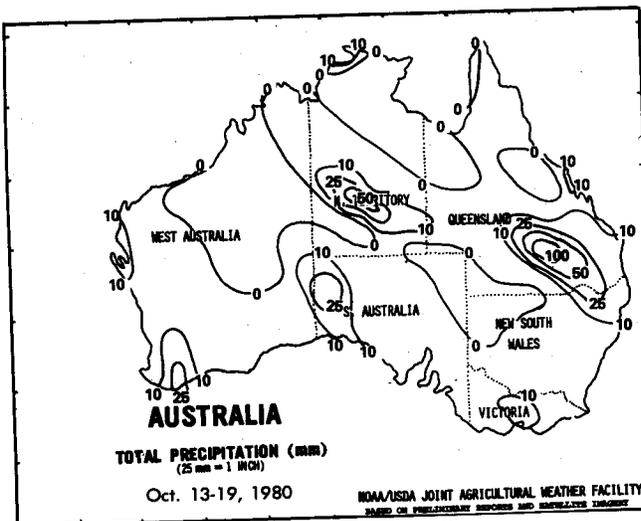
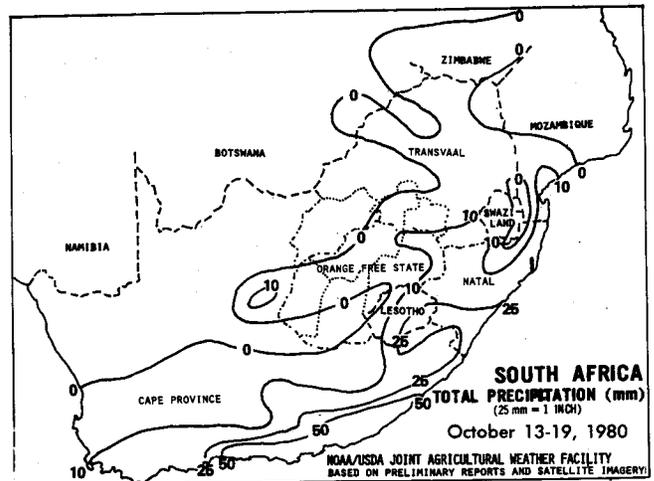


EUROPE. Wet weather continued over much of Europe, disrupting fieldwork. Progress already lags far behind schedule in many countries. Near-normal precipitation or less did occur over extensive crop areas in West Germany, Poland, Czechoslovakia, Hungary, Yugoslavia, Romania, and Bulgaria. The temperature pattern was similar to the previous week, showing above-normal temperatures in the east and below-normal, near-freezing temperatures in the west. The moisture benefited those winter grains already sown, especially in the northeast where the relatively warm conditions allowed fall growth to continue. Abundant rainfall totals in the Mediterranean countries improved soil moisture in the Iberian Peninsula but became excessive in northern Italy.



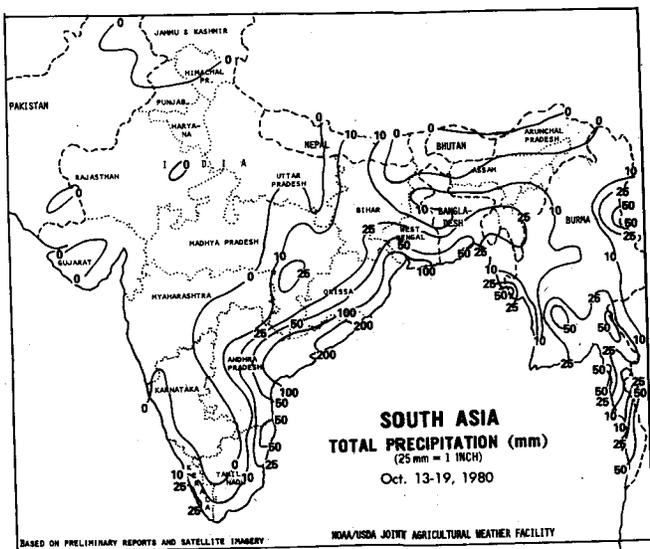
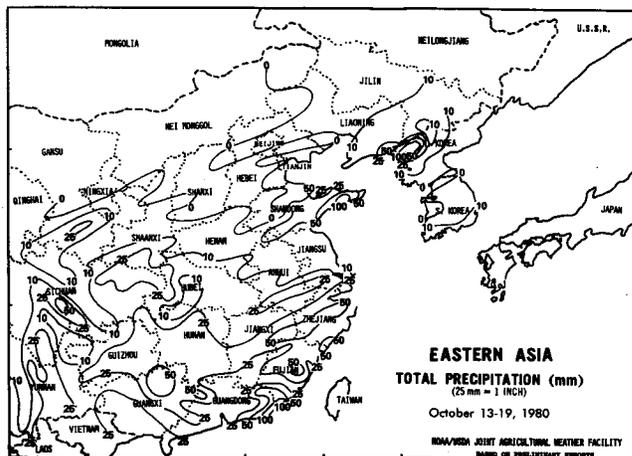
NORTHWESTERN AFRICA. Rainfall tapered off in Tunisia and eastern Algeria, and only northern coastal areas received substantial amounts late in the week. Soil moisture should be adequate there for sowing of winter grains. Late in the week, abundant rainfall spread across Morocco, and winter grain sowing should begin shortly. At week's end, showers spread eastward into Algeria.

SOUTH AFRICA. About 80 to 85 percent of the annual rainfall in the major corn-producing region (the Maize Triangle) occurs between October and March. Rainfall during the early portion of the wet season is often associated with storms moving up the coastal region of South Africa. A storm produced 25 to 50 mm of rain along the southeast coast this past week but no significant rain fell inland in the major crop area. Early seeded crops will need moisture soon. By November, the tropical rainfall regime usually takes over, and monthly rainfall reaches a maximum in January over the Maize Triangle.



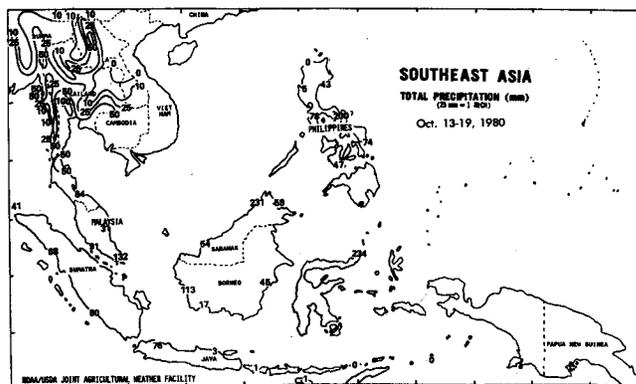
AUSTRALIA. A complicated weather pattern brought some much-needed moisture to scattered portions of the wheat belt. A zone of showers extending from the Northern Territory produced 10 to 25 mm of rain in the wheat area of Queensland and northern New South Wales. The rainfall was only beneficial to spring-sown crops, since the wheat harvest underway in Queensland and the crop is nearly ripe in New South Wales. Soil moisture supplies are very low in Queensland, New South Wales, and West Australia. Drier weather prevailed in the wheat areas further south in New South Wales, as well as in Victoria and South Australia except for some scattered light showers. In West Australia, a cold front produced 10 to 25 mm of rain in the southern portion of the wheat area, but lighter amounts (less than 10 mm) fell in the northern portion.

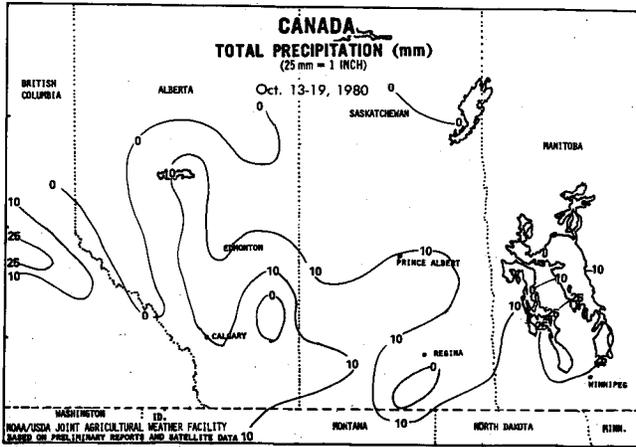
EASTERN ASIA. Favorable harvest weather returned to most of the North China Plain. Precipitation dipped below normal for most locations north of the Yangtze River, but surged above normal to the south. Normally, rainfall keeps fields fairly wet in the south as harvesting of the late rice proceeds through October, however, twice-normal rainfall has created unfavorable conditions. Impacts may not be serious if drier weather returns soon. In South Korea, favorable rice harvest weather returned to nearly all areas. Conditions remained too damp only in the extreme southeast.



SOUTH ASIA. A strong storm moved into the Indian Peninsula from the east, but strong westerly winds turned it to the northeast. Rainfall was limited to eastern portions of the region. The moisture may have interfered with drying of autumn-harvested rice, but it helped winter-harvested rice, which should still be in the heading stage in Bangladesh and eastern India. Favorable weather prevailed for harvesting of ground nuts. However, major west central cotton fields remained too dry, with cotton still in the boll-setting stage.

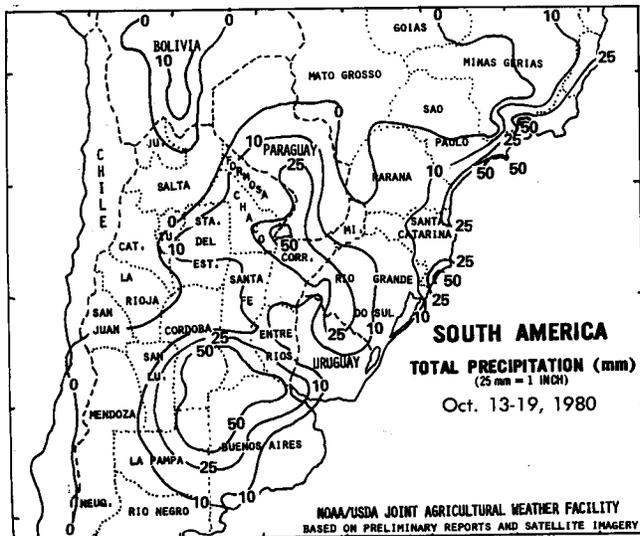
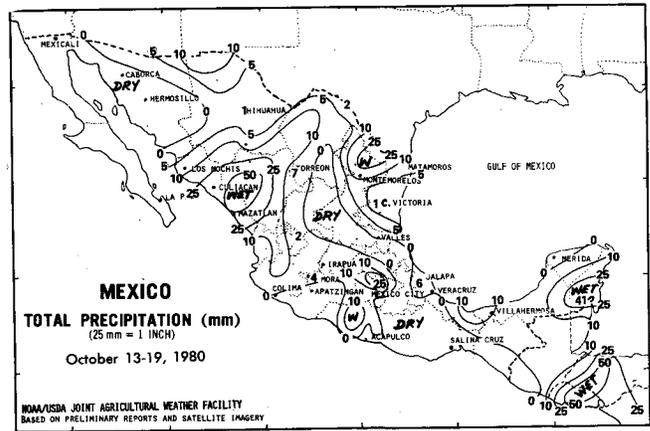
SOUTHEAST ASIA. Flood waters have receded from most provinces in northern Thailand as weekly rainfall was generally less than 25 mm in both the northern and eastern regions. The incursion of strong westerly winds aloft south of the Himalayas probably marks the imminent withdrawal of monsoon activity in Southeast Asia. Some fields in the Central Plains remained waterlogged as a tropical disturbance, which developed in the Bay of Bengal, produced 50 to 100 mm in western Thailand. The harvest of the wet-season rice crop is mainly during November through January. Given adequate moisture during the flowering period, solar radiation becomes a critical factor during the ripening period in the tropics.





CANADA. Showery weather continued to impede late harvest activities in the Canadian Prairies. The harvest is essentially complete in Saskatchewan as well as in south and central portions of Alberta. However, rain and snow halted grain harvest early in the week in Alberta and, as the storm system moved to the east, heavy showers brought further delays in Manitoba.

MEXICO. Some northwestern reservoirs had additional rainfall this week but still remain well below normal levels. Light rains over Sinoloa's tomatoes could stimulate weeds and diseases. The Southern Plateau's corn belt continued slightly dry, favoring the harvest of the early crop. The late crop generally has adequate moisture except in some northern fringes. Sunny, excellent harvest weather prevailed over most cotton areas. Light rains dousing the citrus orchards at Montemorelos will help size fruit. Orchards further south generally had adequate subsoil moisture even though the top layer was dry.

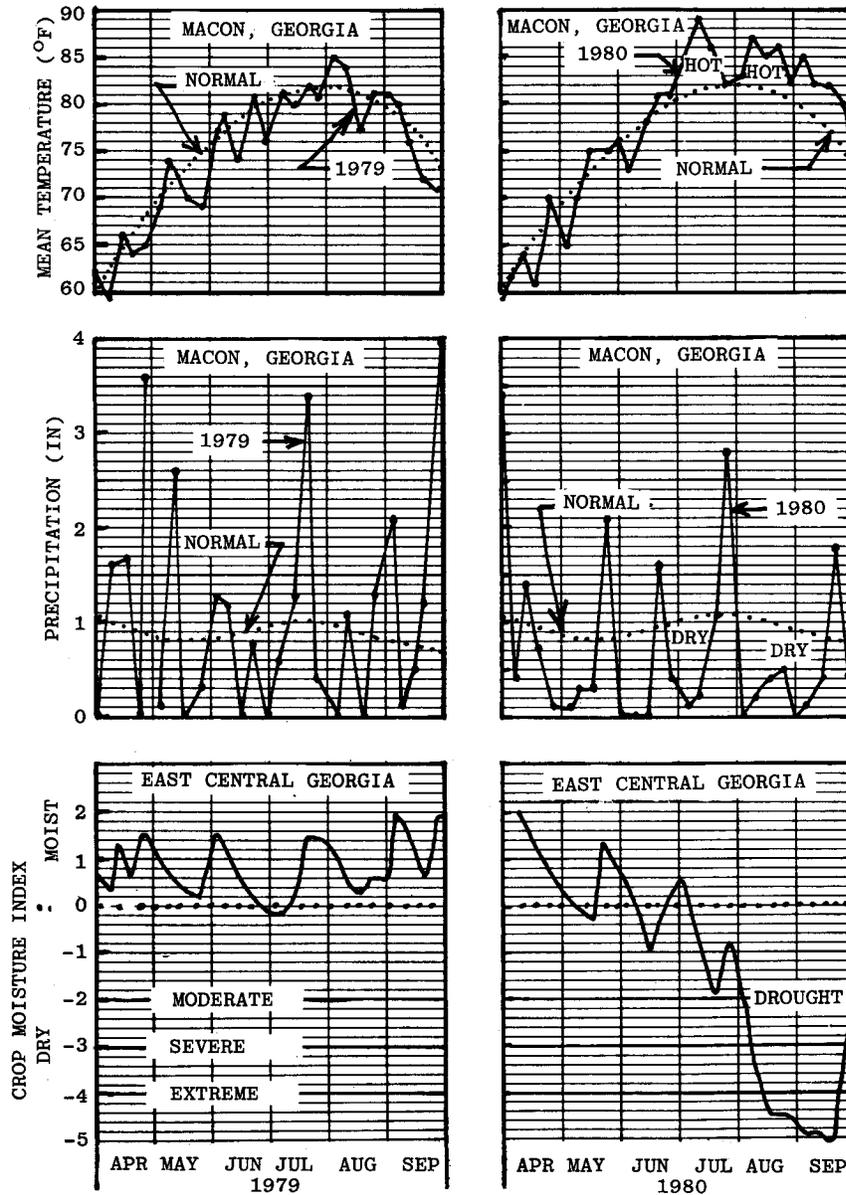


SOUTH AMERICA. Highlighting the past week's weather in Argentina was the significant and much-needed rain (25 to 85 mm) which fell during the latter part of the week in the wheat area. The crop had suffered from a lack of sufficient moisture for the past two months, and the timely rains will help prevent further deterioration as the crop advances through the heading and early grain-filling stages. Conditions are now more favorable for sowing and early growth of maize. In Brazil, rainfall was generally light (less than 10 mm) in the major portion of the wheat area except in Santa Catarina where 10 to 15 mm fell. The winter wheat harvest began in late September in northern wheat areas. Reduced yields suggest that crop damage due to a mid-September frost may have been more extensive than earlier believed. The frost episode apparently hit close enough to the crucial reproductive period to cause significant yield losses. In such instances, frost damage is most severe when wheat is in the susceptible heading stage during which little or no seedset occurs on the heads due to freezing temperatures. Above-normal rainfall in September and early October may also have been detrimental to crop yields in Panama and Santa Catarina.

DROUGHT CONTINUES IN GEORGIA

Georgia crops suffered greatly from the drought/heat wave combination of the 1980 summer. The drought still persists in the southeastern part of the State. Crop yields are reduced drastically. Peanuts are especially hard hit. Yield is expected to be 35 percent less per acre compared with the 1976-79 average. The accompanying maps show 1980's weather and the favorable conditions of 1979.

WEEKLY WEATHER CONDITIONS IN GEORGIA



CROP PROGRESS

FOR WEEK ENDING OCT 19

	WINTER WHEAT % PLANTED		
	1980	1979	AVG.
CALF	5	8	NA
COLO	97	100	99
IDA	83	93	90
ILL	85	75	72
IND	85	60	65
KANS	90	80	90
MO	66	58	NA
MONT	99	99	99
NEBR	99	100	99
OHIO	85	75	75
OKLA	65	70	85
OREG	69	70	NA
S DAK	100	100	100
TEX	69	73	78
WASH	87	88	NA
15 STATES	81	79	NA
EXCL. STATES WITH NA	84	81	88

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

	SOYBEAN % DROPPING LEAVES		
	1980	1979	AVG.
ALA	80	77	NA
ARK	70	NA	NA
GA	59	NA	NA
ILL	100	100	100
IND	100	100	100
IOWA	100	100	100
KANS	85	NA	NA
KY	99	90	92
LA	86	80	NA
MICH	99	99	100
MINN	99	99	99
MISS	92	99	92
MO	93	88	94
NEBR	100	100	100
N C	44	38	NA
OHIO	100	100	100
S C	57	58	70
TENN	95	NA	NA
18 STATES	90	NA	NA
EXCL. STATES WITH NA	97	96	96

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

	RICE % HARVESTED		
	1980	1979	AVG.
ARK	90	87	89
CALF	40	68	NA
LA	98	97	98
MISS	91	85	84
TEX	100	100	100
5 STATES	85	88	NA
EXCL. STATES WITH NA	94	92	93

THESE 5 STATES PRODUCED 99%
OF THE 1979 RICE CROP.

	WINTER WHEAT % EMERGED		
	1980	1979	AVG.
CALF	0	0	NA
COLO	85	82	85
IDA	56	50	59
ILL	40	18	NA
IND	40	30	30
KANS	50	NA	NA
MO	50	NA	NA
MONT	85	NA	NA
NEBR	95	NA	NA
OHIO	40	35	NA
OKLA	30	30	50
OREG	53	45	NA
S DAK	96	100	100
TEX	52	48	NA
WASH	68	65	NA
15 STATES	55	NA	NA
EXCL. STATES WITH NA	51	50	62

**SOYBEAN
% HARVESTED**

	1980	1979	AVG.
	ALA	34	29
ARK	14	23	21
GA	14	16	16
ILL	93	87	83
IND	90	95	60
IOWA	94	92	83
KANS	50	65	40
KY	52	24	38
LA	47	50	51
MICH	29	24	36
MINN	88	78	83
MISS	35	35	51
MO	68	64	43
NEBR	90	95	70
N C	6	8	7
OHIO	85	35	60
S C	6	3	6
TENN	25	18	20
18 STATES	63	56	54

**CORN
% HARVESTED**

	1980	1979	AVG.
	COLO	49	27
GA	95	90	81
ILL	77	30	43
IND	55	20	30
IOWA	64	23	35
KANS	70	60	65
KY	78	45	52
MICH	17	8	20
MINN	40	8	50
MO	85	46	57
NEBR	75	30	40
N C	89	80	81
OHIO	50	20	25
PA	42	13	19
S DAK	60	33	48
VA	71	60	63
WIS	23	8	23
17 STATES	62	28	41

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

NA - NOT AVAILABLE

	COTTON % ROLLS OPENING		
	1980	1979	AVG.
ALA	95	70	73
ARIZ	100	NA	NA
ARK	100	75	82
CALF	95	100	NA
GA	99	91	NA
LA	100	80	NA
MISS	100	100	97
MO	100	100	89
N MEX	65	50	65
N C	97	78	NA
OKLA	85	85	70
S C	99	98	97
TENN	100	63	74
TEX	75	79	NA
14 STATES	84	NA	NA
EXCL. STATES WITH NA	95	84	93

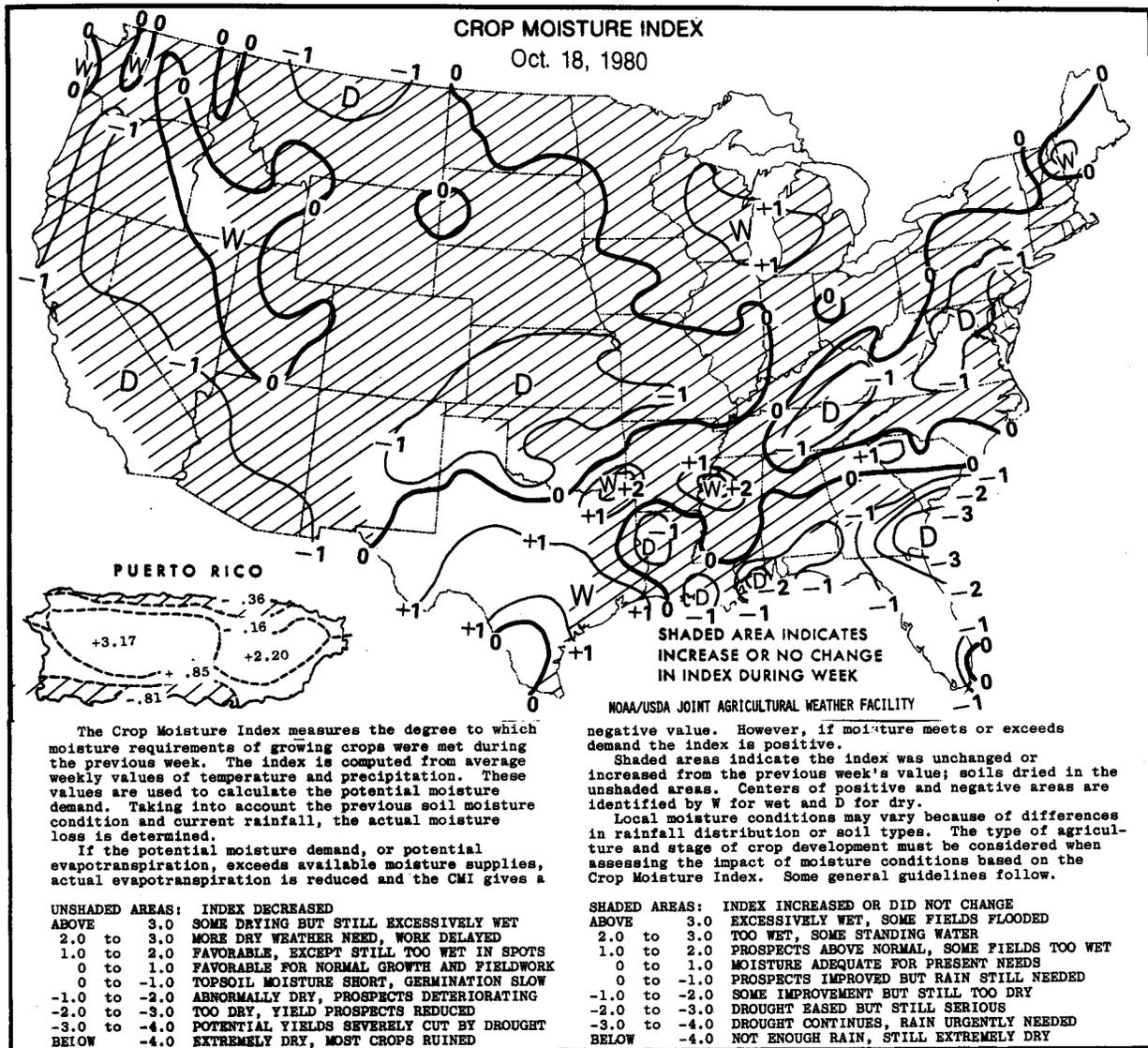
THESE 14 STATES PRODUCED 99%
OF THE 1979 COTTON CROP.

**COTTON
% HARVESTED**

	1980	1979	AVG.
	ALA	54	18
ARIZ	15	35	20
ARK	64	25	39
CALF	4	20	NA
GA	76	32	34
LA	74	31	43
MISS	63	28	57
MO	73	42	47
N MEX	4	NA	12
N C	64	19	22
OKLA	10	5	5
S C	64	46	46
TENN	75	11	35
TEX	33	22	26
14 STATES	35	24	NA
EXCL. STATES WITH NA	39	23	29

**SORGHUM
% MATURE**

	1980	1979	AVG.
	COLO	92	88
KANS	80	90	90
MO	94	92	97
NEBR	100	98	100
OKLA	85	95	90
S DAK	93	NA	NA
TEX	92	93	NA
7 STATES	89	NA	NA
EXCL. STATES WITH NA	87	92	93
THESE 7 STATES PRODUCED 92% OF THE 1979 SORGHUM CROP.			
SORGHUM % HARVESTED			
	1980	1979	AVG.
	COLO	29	29
KANS	40	50	45
MO	72	56	57
NEBR	85	55	60
OKLA	40	40	35
S DAK	60	53	62
TEX	85	80	84
7 STATES	66	62	63



HEAVY RAINS GREATLY INCREASED SOIL MOISTURE FROM THE NORTHERN PLAINS TO THE DELTA STATES. THE MOISTURE WAS VERY BENEFICIAL TO THE CRITICALLY DRY WHEATLANDS BUT HAMPERED HARVESTING OF FALL CROPS. MODERATE RAINS DAMPENED SOME CORN BELT FIELDS, SLOWING THE HARVEST. SEVERE DROUGHT PERSISTED IN SOUTHEASTERN GEORGIA, CAUSING PROBLEMS FOR PASTURES, STREAM FLOW, AND RESERVOIR SUPPLY.

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IMMEDIATE - U. S. Weather Report

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FIRST CLASS MAIL

(continued from page 12)

WEST VIRGINIA: Temperatures averaged near normal. High 86, low 21°. Freezing or near freezing temperatures reported early week. Precipitation averaged below normal. Some showers reported late 17th and 18th.

Soil moisture short to adequate. Days suitable for fieldwork: 5.9. Major activities: Corn harvesting, hay harvesting, marketing livestock. Corn good to fair, 54% harvested. Hay fair to good, 2d hay 98% harvested, 3d hay 90% harvested. Potatoes 95% harvested, tobacco 100% harvested. Pasture fair, some stress due to dry conditions. Wheat 78% planted. Barley 75% planted.

WISCONSIN: Temperatures 5° below normal. Week began cold with season's first teens north 13th. Highs warmed to 60's and few 70's 17th. Extremes: 73 and 16°. Precipitation heaviest to date in October, ranging from 0.60 to 1.80 in. Snow north 14th.

Fieldwork: 5.0 days suitable. Corn for grain 23% harvested, 1979 8%, normal 23%. Moisture content well below year ago. Silo filling 80% done, 1979 80%, normal 95%. Soybeans 40% harvested, 1979 28%, normal 26%. Beans low

in moisture. Fall plowing 15% done, 1979 19%, normal 24%. Most farmers concentrating on crop harvest rather than plowing. Haying completed except late green chopping. Last of winter wheat going in, growth better than last year when too dry. Early tobacco curing good. Potato harvest nearing end. Apple and cranberry harvest well along. Soil moisture adequate to surplus.

WYOMING: Rainy, snowy with precipitation amounts well above normal. Greatest amount, 2.82 in. Temperatures cooler than normal. Highs ranged from 60s higher elevations to low 80s on Plains. Highest reading 83°. Lows in mid-teens to upper 20s. Coldest reading 15°.

Topsoil moisture short 61% state. Stormy weather slowed fieldwork. Winter wheat 94% emerged, mostly good condition. Acreage harvested: corn for grain 24%; dry beans 93%; potatoes nearing completion; sugarbeets 60%, sugar content around 17.8%. Livestock sales and delivery: yearlings 55%; calves 34%; lambs 51%. Hay supplies mostly adequate.