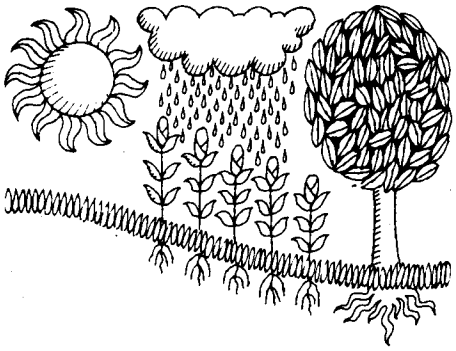
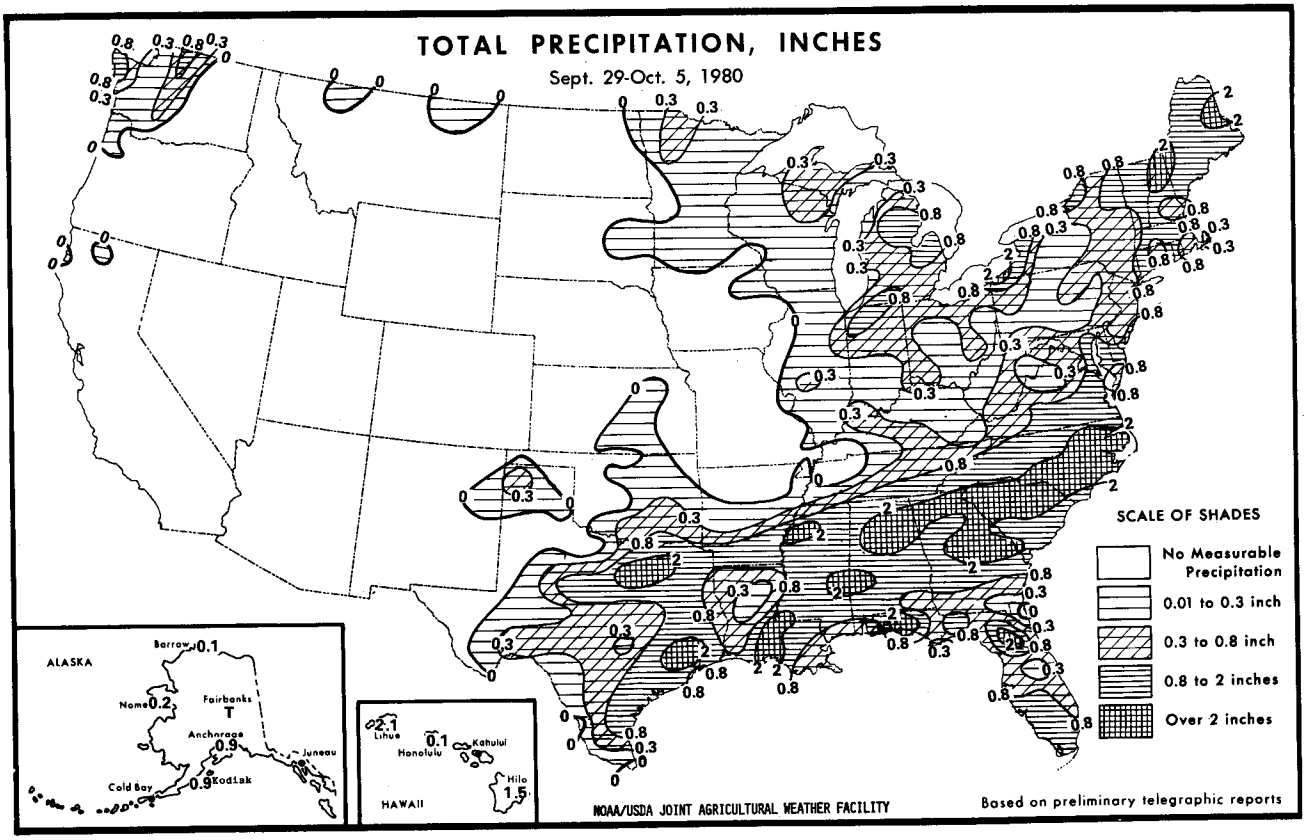


WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration, National Weather Service

U.S. DEPARTMENT OF AGRICULTURE
Economics, Statistics, and Cooperatives Service
World Food and Agricultural Outlook and Situation Board

Volume 67, No. 41 | Washington, D.C. | Oct. 7, 1980



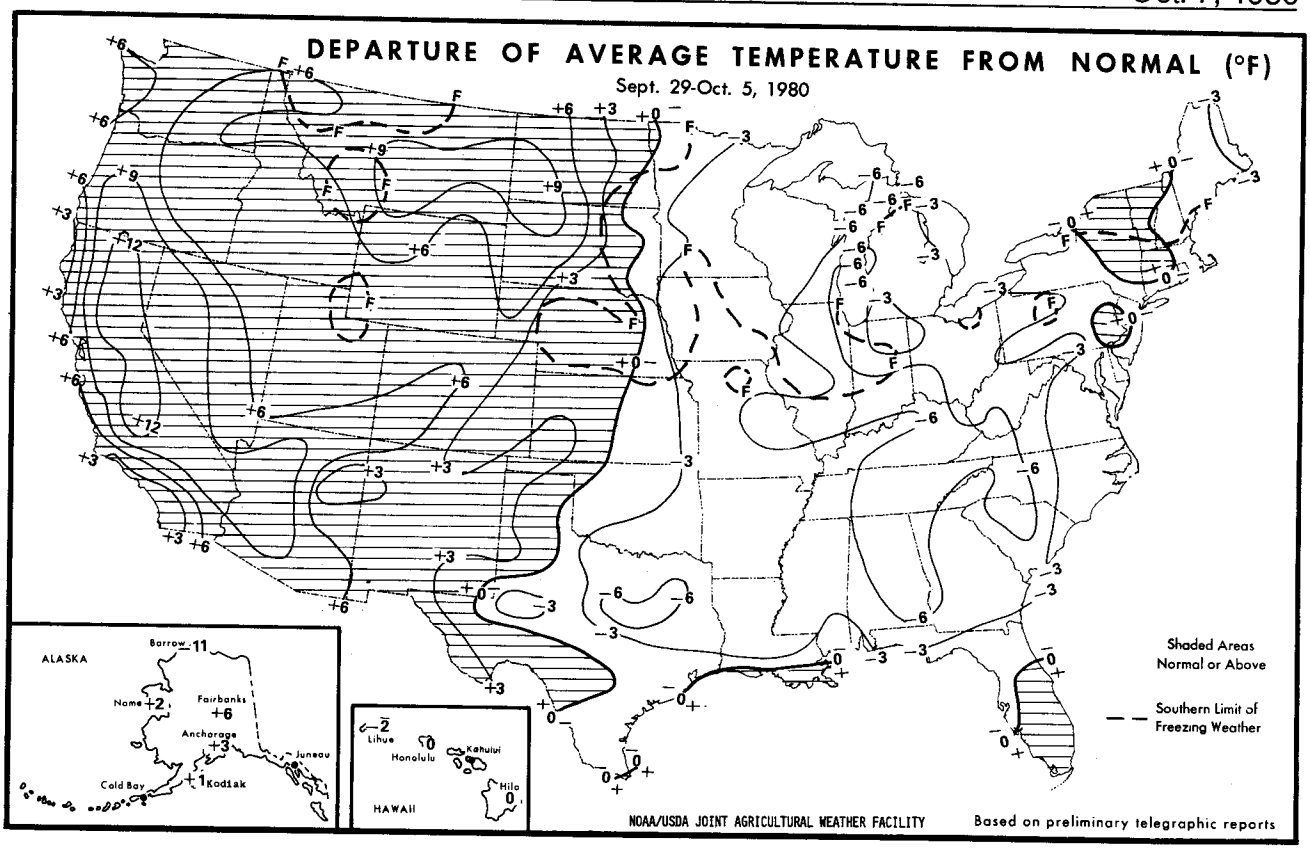
National Weather Summary

Sept. 29 - Oct. 5

HIGHLIGHTS: Most of the week's rain fell during the first 3 days, as a slow moving frontal system finally moved into the Atlantic Ocean and through the Gulf of Mexico. The greatest accumulation of rain gathered along a line from north central Texas through northern Georgia and the Carolinas. Temperatures remained cool through most of the week in the East. Freezing temperatures chilled several mornings from the northern Plains through New York. The freezing weather reached as far south as Nebraska. Light snow brushed the northern Great Lakes region. A record-breaking hot spell baked the West, and the warmer temperatures pushed across the Plateau and Rockies to the Plains.

MONDAY...A nearly stationary cold front hovered near the Gulf of Mexico coast and continued to produce light to moderate showers from central Texas to the Carolinas. Some light showers extended northward to Kentucky and Virginia. Another weather system, moving across southern Canada, dropped a few showers in the northern Great Lakes area. Some scattered rains dotted the coasts of Washington and Oregon. Morning temperatures were cold in New England ranging from the twenties inland to the forties along the coast. High temperatures ranged to the seventies in most of the eastern half of the Nation except the Gulf Coast. Highs climbed above 100° in the Desert Southwest.

TUESDAY...The cool air pushed into the Gulf of Mexico. The front extended from the Atlantic, east of North Carolina, through Georgia and into the Gulf. Moderate rainshowers were widespread in the Southeast. Light showers



dotted the remainder of the Gulf Coast. Elsewhere, only a few light showers appeared over the northern Plains and Great Lakes region. Temperatures remained cool over much of the East, but warm weather crept back into the central Plains from the West. The Southwest and southern Plateau remained hot.

WEDNESDAY...The persistent front in the Southeast extended from a low off Virginia to the coast of South Carolina and through central Florida. Light showers moistened the entire East Coast. Another cold front moved rapidly from the Plateau area to reach from the Great Lakes region to Oklahoma by late in the day. Light showers were scattered through the Great Lakes and Ohio Valley. Temperatures rose sharply ahead of the front in the central Rockies and High Plains. High temperatures in the high eighties and low nineties set records for the date in parts of these areas. Hot weather continued in much of the West.

THURSDAY...The rapidly moving front extended from New England southwestward to the Texas coast. Little or no precipitation accompanied the southern portion of the front, but the warm weather in the Plains was displaced. Light rain or showers covered the area from the northern Mississippi Valley through the Lakes and Ohio Valley to New England and the mid-Atlantic States. Light snow covered parts of northern Michigan. Cool temperatures dominated the area east of the Rockies, but record high temperatures persisted in Arizona, California, and Oregon. Red Bluff, northern California, reached 105°.

FRIDAY...Moderate showers were widespread from New England to the mid-Atlantic coast, and light and scattered from the Carolinas through the Ohio Valley and Great Lakes States. Early morning frost over the upper Mississippi Valley extended into the western Great Lakes and the Plains. The coldest temperature was 19° at Embarrass, northwestern Minnesota. North Platte, southwestern Nebraska, dropped to 28°. High temperatures reached the eighties in the southern Plains. The hot spell continued in the Southwest, California, and Oregon.

SATURDAY...A weak low pressure system formed over Arkansas, and a low pressure area extended into the Ohio Valley. A cold front reached from North Dakota to the low center, and a warm front stretched into Alabama. Little adverse weather was associated with the fronts, but light showers persisted through the Ohio Valley and from the central Appalachians northward. Much of the Nation had no rain. Light snow covered parts of northern Michigan. Alpena, northeastern lower Michigan, had an inch of snow on the ground. Temperatures in the eighties and a few nineties continued in the southern Plains and eastward to the warm front. Although the extreme west coast cooled, the record breaking heat continued over the Desert Southwest and the valleys of California.

SUNDAY...The low pressure center moved to central Georgia with a cold front reaching through northern Florida to the Texas coast and northward through the Plains to the Dakotas. During most of the day, light showers were confined to North Carolina, Virginia, and New Jersey. Late in the day, thundershowers formed in the Texas Panhandle and across Oklahoma. Precipitation was generally light, but some isolated points in the Panhandle reported up to 2 inches. Early morning temperatures dropped to below freezing in the northern Mississippi Valley. Much of the East remained cool all day, but areas to the south and west of the fronts were warm. The hot spell in the West reached northward into the State of Washington, where temperatures in the middle to high eighties set records for the date.

National Agricultural Summary

September 29 - October 5

HIGHLIGHTS: Subnormal temperatures gripped the eastern half of the Nation, bringing frost to an area stretching from the Dakotas eastward through New England and dipping south into parts of Missouri and Kentucky. Most crops were mature and escaped damage. Rainfall was generally limited to the eastern half of the country; the heaviest amounts fell in the south central and south Atlantic regions. Farmers had 4 to 7 days suitable for fieldwork in nearly all areas of the Nation except Mississippi, Alabama, Georgia, South Carolina, and North Carolina where wet conditions limited fieldwork to 2 to 3 days. Soil moisture supplies improved from recent rains. Short to adequate soil moisture spanned all sections of the Nation except the north central region of Michigan, Minnesota, and Wisconsin, where supplies continued to range from adequate to surplus, and in Georgia and Mississippi, where heavy rains resulted in adequate to surplus soil moisture. Conditions were near perfect in the Northwest for the completion of small grain harvests. Winter wheat seeding advanced to 59% complete, slightly behind last year and the average. Corn harvesting gained momentum in all major producing States and reached 29% complete, well ahead of last year's 12% and the 18% average; 96% of the crop was mature. Soybean harvesting got underway in all major areas. Progress advanced to 29% complete; 77% of the crop had shed leaves. Grain sorghum harvesting reached the halfway mark; 79% of the crop had matured. Cotton bolls opened on 72% of the acreage, and harvesting reached 23% complete. Rice harvesting moved to 77% complete. Pastures and ranges rated poor to fair in all areas except parts of the north central region, and in the West, where conditions were fair to good. Supplemental feeding continued in many areas. Livestock moved from summer pastures and ranges, and fall calving continued.

CORN: Corn rated fair to good throughout much of the Corn Belt but only poor to fair in other major producing areas. Much of the crop had matured and was safe from a killing frost. In the eastern Corn Belt, mature stage ranged from 80% in Michigan to 100% in Illinois; harvesting ranged from 4% in Wisconsin to 39% in Illinois. To the west, the mature stage ranged from 95% in Kansas, Nebraska, and South Dakota to 100% in Iowa; harvesting varied from 8% in Minnesota to 65% in Missouri. In the Southeast, nearly all fields had matured, and harvesting ranged from 60% in Virginia to 91% in Georgia. In the 17 major producing States, 96% of the crop had matured, and 29% was harvested. Progress exceeded last year and the average. High moisture corn was being harvested in some areas.

SOYBEANS: Soybeans rated fair to good in much of the Corn Belt but poor to fair in other major producing areas. Leaf shedding reached 77%; 29% of the crop had been harvested. Most soybeans were mature and safe from the killing frost which hit many northern areas. Harvesting began in all major States. Progress ranged from 1% in South Carolina to 61% in Illinois.

SMALL GRAINS: Near-ideal conditions in the Northwest permitted rapid progress as the wheat harvest neared completion. Winter wheat seeding was 59% complete, slightly behind last year and the average. Many fields emerged, with stands reported in generally fair to good condition. Seeding was underway in all major States; progress ranged from 1% in California to 100% in South Dakota.

COTTON: Cotton acreage with open bolls ranged from 61% in Texas to 100% in Louisiana, Mississippi, and Missouri. Bolls opened on 72% of the acreage in the 14 major States. Harvesting moved actively in all States and reached 23% complete, well ahead of last year's late-season 10%. Growers defoliated stands. Wet field conditions delayed the Texas harvest, and rains hurt the quality of open cotton. Unseasonably warm weather in Arizona proved very favorable for the development of late boll sets. New Mexico fields remained in good condition. Warm, dry weather helped development.

OTHER CROPS: Grain sorghum harvesting reached 50% complete, compared with 39% a year earlier and the 41% average; 79% of the crop had matured. Rice harvesting advanced to 65% complete, about equal to last year and the average. Progress ranged from 10% in California to 100% in Texas. The Maine potato harvest reached 40% complete. Harvesting in southern New England neared completion. In Idaho, 30% of the crop was harvested, about equal to average. Peanut harvesting increased, ranging from 8% in Virginia to 28% in North Carolina, 33% in Alabama, 56% in Georgia, and 80% in Mississippi.

FRUITS AND NUTS: Apple picking neared completion in the southern States; northern growers continued picking the major fall varieties. Apples have been slow to color, needing more cool weather. Florida citrus groves received some rain, but more is needed. Growers are irrigating all areas. The orange, grapefruit, and specialty-fruit harvests increased. The Arizona lemon harvest increased. Growers started pruning and irrigating in California orchards and vineyards. The wine-grape harvest was half over. Growers harvested almonds, pistachios, and walnuts. Raisins were rolled and boxed. Texas pecans showed light, small nuts.

VEGETABLES: Northern vegetable harvests started winding down as cool weather moved in. Florida planting activities slowed due to low soil moisture. Irrigation was needed in many areas. Harvests gained momentum. California growers harvested broccoli, cauliflower, carrots, lettuce, peppers, sweetpotatoes, and tomatoes. Texas growers planted a wide variety of vegetables in southern areas; harvests continued in northern areas.

PASTURES AND RANGES: Pastures and ranges rated poor to fair in all areas except parts of the north central region and the West, where conditions were fair to good. Supplemental feeding continued. Livestock moved from summer pastures and ranges, and fall calving continued.

Weather Data for the Week Ending Oct. 5, 1980

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION					RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
														TEMPERATURE °F		PRECIPITATION	
	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	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	71	53	81	41	62	-7	2.0	1.3	1.3	5.2	124	95	46	0	0	2	2
MOBILE	80	61	92	50	71	-3	.8	- .2	.6	5.9	81	92	43	1	0	2	1
MONTGOMERY	72	55	79	42	64	-7	1.9	1.1	1.6	3.1	62	93	54	0	0	2	1
AK ANCHORAGE	51	39	55	30	45	4	.9	.5	.4	2.9	107	83	62	0	2	3	0
BARROW	15	10	20	7	11	-11	.1	0	.1	.9	180	96	73	0	7	1	0
FAIRBANKS	50	34	59	26	42	6	T	- .2	T	1.0	83	67	51	0	2	1	0
KODIAK	52	40	55	33	46	1	.9	- .6	.7	6.3	87	89	69	0	0	4	1
NOME	42	33	47	28	37	2	.2	- .2	.1	1.5	56	74	65	0	2	3	0
AZ FLAGSTAFF	82	40	85	39	61	9	0	- .4	0	.7	33	52	9	0	0	0	0
PHOENIX	105	74	107	69	89	11	0	- .1	0	.1	14	34	11	7	0	0	0
TUCSON	98	67	101	63	82	8	0	- .2	0	2.9	181	46	15	7	0	0	0
WINSLOW	87	45	89	43	66	3	0	- .2	0	.6	60	--	--	0	0	0	0
YUMA	108	73	112	71	90	8	0	0	0	0	0	67	--	7	0	0	0
AR FORT SMITH	76	51	86	45	64	-5	T	- .8	T	3.2	82	85	42	0	0	1	0
LITTLE ROCK	73	54	83	42	64	-4	.1	- .6	.1	3.6	90	74	44	0	0	1	0
CA BAKERSFIELD	102	68	110	61	85	13	0	0	0	0	0	--	22	7	0	0	0
EUREKA	64	51	80	49	58	2	T	- .4	T	.2	18	99	75	0	0	1	0
FRESNO	100	66	102	60	83	14	0	- .1	0	0	0	59	20	7	0	0	0
LOS ANGELES	74	62	79	60	68	-2	0	0	0	0	0	86	62	0	0	0	0
RED BLUFF	101	63	107	61	82	12	0	- .1	0	.1	20	--	15	7	0	0	0
SAN DIEGO	73	64	78	63	69	1	T	0	T	0	0	91	71	0	0	0	0
SAN FRANCISCO	87	55	97	53	71	8	0	- .1	0	0	0	80	31	4	0	0	0
STOCKTON	98	59	101	56	79	11	0	- .1	0	0	0	74	23	7	0	0	0
CO DENVER	78	48	90	40	63	6	0	- .3	0	.7	50	47	17	1	0	0	0
GRAND JUNCTION	84	49	86	44	66	6	0	- .2	0	.6	60	34	13	0	0	0	0
PUEBLO	83	43	90	38	63	2	0	- .2	0	.5	56	63	16	1	0	0	0
CT BRIDGEPORT	67	55	74	50	61	0	.9	.3	.4	3.3	100	88	59	0	0	2	0
HARTFORD	71	47	78	42	59	2	.6	- .1	.5	2.1	51	87	46	0	0	2	1
DC WASHINGTON	73	59	83	53	66	1	.6	0	.3	2.4	67	87	59	0	0	2	0
FL APALACHICOLA	83	65	90	53	74	-1	.2	- 1.0	0	3.5	35	86	42	1	0	1	0
DAYTONA BEACH	87	67	93	58	77	0	.7	- .8	.3	2.4	29	87	49	2	0	3	0
FORT MYERS	87	74	93	69	81	1	1.5	- .1	.9	6.5	66	87	56	2	0	3	1
JACKSONVILLE	84	62	90	49	73	-1	0	- 1.5	0	3.0	34	94	54	1	0	0	0
KEY WEST	87	78	88	74	83	1	1.3	- .3	.6	6.7	79	82	61	0	0	3	2
MIAMI	91	76	95	73	84	4	1.2	- 1.0	1.1	6.8	65	92	46	5	0	2	1
ORLANDO	89	68	94	60	79	1	.2	- 1.2	.2	3.9	48	85	47	2	0	1	0
TALLAHASSEE	81	61	89	48	71	-3	1.0	- .1	1.0	6.2	83	98	55	0	0	1	1
TAMPA	85	69	90	59	77	-1	.8	- .2	.6	4.7	67	79	56	1	0	2	1
WEST PALM BEACH	91	71	95	67	81	1	.7	- 1.7	.5	7.1	61	98	56	4	0	2	0
GA ATLANTA	71	54	81	45	62	-5	1.8	1.2	.9	4.8	133	98	58	0	0	2	2
AUGUSTA	71	56	83	47	64	-5	1.9	1.3	.9	5.4	146	93	71	0	0	3	2
MACON	74	58	82	48	66	-4	2.3	1.6	1.8	5.0	139	93	64	0	0	2	2
SAVANNAH	75	60	80	50	68	-3	1.7	.7	1.0	5.8	92	90	60	0	0	3	2
HI HILO	--	--	--	--	75	0	1.5	- .5	--	15.1	170	--	--	-	-	-	-
HONOLULU	89	72	91	66	80	0	.1	- .1	.1	.5	71	84	48	3	0	1	0
KAHULUI	--	--	--	--	79	1	0	- .1	--	--	--	--	--	-	-	-	-
LIHUE	--	--	--	--	76	-2	2.1	1.5	--	12.9	561	--	--	-	-	-	-
ID BOISE	80	46	82	41	63	5	0	- .1	0	1.6	320	66	22	0	0	0	0
LEWISTON	80	48	86	42	64	7	0	- .2	0	1.0	111	73	26	0	0	0	0
POCATELLO	77	39	82	34	58	5	0	- .1	0	1.4	233	66	20	0	0	0	0
IL CAIRO	70	53	83	41	62	-5	0	- .7	0	2.3	57	--	--	0	0	0	0
CHICAGO	65	43	80	29	54	-5	T	- .6	T	5.7	163	85	40	0	2	1	0
MOLINE	68	40	81	28	54	-6	T	- .8	T	2.9	66	82	39	0	1	1	0
PEORIA	67	42	83	31	54	-6	.1	- .6	.1	4.2	105	87	39	0	1	1	0
ROCKFORD	63	40	78	27	52	-6	T	- .8	T	6.2	135	90	45	0	2	1	0
SPRINGFIELD	70	44	88	31	57	-5	.1	- .7	.1	5.1	131	93	41	0	1	1	0
IN EVANSVILLE	70	47	84	35	58	-5	.3	- .3	.3	2.7	84	93	47	0	0	2	0
FORT WAYNE	66	47	81	37	57	-2	.4	- .2	.2	2.9	97	86	47	0	0	3	0
INDIANAPOLIS	67	44	81	32	55	-6	.3	- .3	.1	3.5	106	88	41	0	1	3	0
SOUTH BEND	66	47	81	40	57	-2	1.6	.9	1.2	7.2	200	89	53	0	0	4	1
IA BURLINGTON	68	45	78	37	56	-5	T	- .8	T	6.7	156	--	--	0	0	0	0
DES MOINES	67	44	83	33	55	-4	T	- .6	T	1.1	31	78	40	0	0	0	0
DUBUQUE	63	43	79	32	53	-3	T	- .9	T	6.5	125	88	41	0	1	1	0
SIOUX CITY	70	40	85	30	55	-3	T	- .5	T	1.4	44	79	36	0	2	0	0
KS CONCORDIA	78	46	88	36	62	0	T	- .6	T	1.3	36	79	34	0	0	0	0
DODGE CITY	84	51	91	41	67	4	T	- .4	T	0	0	64	24	1	0	0	0
GOODLAND	79	43	88	38	61	3	0	- .3	0	2.3	135	68	20	0	0	0	0
TOPEKA	73	46	86	34	60	-3	T	- .7	T	1.2	31	85	40	0	0	0	0
WICHITA	77	51	84	40	64	-1	T	- .8	T	.6	14	76	33	0	0	1	0
KY LEXINGTON	66	47	78	34	56	-7	.3	- .2	.2	2.6	87	92	50	0	0	2	0
LOUISVILLE	69	49	81	35	59	-4	.1	- .5	.1	3.3	97	88	45	0	0	2	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Oct. 5, 1980

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION					RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
														TEMPERATURE °F		PRECIPITATION	
	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	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
LA BATON ROUGE	80	60	91	48	70	-3	1.8	1.1	1.1	7.7	179	82	47	1	0	2	2
LAKE CHARLES	82	61	87	53	72	-3	.7	- .2	.6	5.7	119	88	50	0	0	2	1
NEW ORLEANS	84	64	94	52	74	0	.4	- .4	.4	6.4	103	81	49	1	0	1	0
SHREVEPORT	81	57	88	50	69	-4	.5	- .2	.4	1.7	47	87	41	0	0	2	0
ME CARIBOU	52	40	64	23	46	-2	1.0	.2	.5	4.8	120	93	76	0	1	5	0
PORTLAND	62	46	69	34	54	0	1.1	.4	.8	4.2	117	81	70	0	0	2	1
MD BALTIMORE	71	54	83	47	63	0	1.1	.5	.6	2.1	58	86	50	0	0	2	2
MA BOSTON	65	52	70	47	58	-1	1.4	.8	1.3	2.2	61	79	74	0	0	2	1
CHATHAM	63	54	67	49	59	--	.2	--	.1	2.6	72	62	76	0	0	2	0
MI ALPENA	59	41	72	34	50	-2	.5	- .1	.2	3.0	81	--	--	0	0	4	0
DETROIT	63	43	79	35	53	-5	.4	- .1	.2	3.4	131	94	51	0	0	4	0
FLINT	60	42	76	34	51	-5	.8	.3	.4	5.6	187	95	62	0	0	4	0
GRAND RAPIDS	64	43	79	35	54	-3	.2	- .5	.1	4.7	124	90	51	0	0	3	0
HOUGHTON LAKE	57	39	73	30	48	-4	.9	.2	.5	4.7	124	95	59	0	1	3	1
LANSING	62	43	78	35	52	-5	.4	- .2	.3	3.5	117	98	60	0	0	3	0
MARQUETTE	53	36	73	28	44	-9	.7	0	.4	7.6	195	94	61	0	4	6	0
MUSKEGON	60	43	72	33	51	-5	.4	- .3	.3	4.8	123	80	53	0	0	2	0
SAULT STE. MARIE	53	34	69	25	43	-7	.2	- .5	.2	3.3	75	87	54	0	3	2	0
MN DULUTH	53	37	64	28	45	-5	.1	- .5	.1	6.7	191	86	61	0	4	2	0
INT'L FALLS	57	38	69	26	47	-1	.3	- .3	.2	4.4	119	93	57	0	4	3	0
MINNEAPOLIS	60	42	72	32	51	-4	T	- .5	T	3.7	119	76	47	0	1	2	0
ROCHESTER	60	40	71	31	50	-5	T	- .6	T	2.9	81	82	47	0	1	1	0
SAINT CLOUD	58	39	70	30	48	-5	.1	- .4	.1	6.2	200	90	--	0	3	3	0
MS JACKSON	80	56	86	43	68	-3	.9	.4	.8	3.2	94	94	43	0	0	2	1
MERIDIAN	79	55	85	43	67	-3	2.7	2.1	1.9	4.1	111	99	50	0	0	2	1
MO COLUMBIA	70	45	86	36	57	-6	0	- 1.0	0	1.9	36	81	30	0	0	0	0
KANSAS CITY	71	47	83	34	59	-4	0	- .9	0	1.7	35	75	36	0	0	0	0
SAINT LOUIS	70	48	86	37	59	-5	.1	- .5	T	3.2	97	90	39	0	0	3	0
SPRINGFIELD	73	46	89	37	59	-5	0	- .9	0	1.8	37	78	40	0	0	0	0
MT BILLINGS	81	50	89	39	66	12	0	- .3	0	.7	41	39	15	0	0	0	0
GLASGOW	77	43	85	34	60	8	T	- .1	T	.9	100	70	24	0	0	1	0
GREAT FALLS	78	45	85	33	62	8	0	- .2	0	.9	64	51	18	0	0	0	0
HAVRE	75	44	85	30	59	9	0	- .2	0	.5	38	56	20	0	1	0	0
HELENA	75	40	80	33	57	6	0	- .2	0	2.7	245	71	23	0	0	0	0
KALISPELL	72	33	76	27	52	5	T	- .2	T	.7	54	86	30	0	5	0	0
MILES CITY	79	47	88	39	63	9	0	- .2	0	.8	57	59	22	0	0	0	0
MISSOULA	76	35	85	30	55	6	0	- .2	0	1.0	0	89	27	0	2	0	0
NE GRAND ISLAND	78	43	88	32	60	1	0	- .4	0	.9	0	67	23	0	1	0	0
LINCOLN	75	45	86	30	60	0	T	- .5	T	.3	9	77	33	0	1	0	0
NORFOLK	74	44	87	33	59	1	T	- .4	T	.9	33	72	29	0	0	0	0
NORTH PLATTE	79	37	89	27	58	1	T	- .4	T	.4	17	78	21	0	1	0	0
OMAHA	70	42	83	29	56	-4	T	- .5	T	1.4	40	85	28	0	2	0	0
VALENTINE	77	41	94	30	59	3	0	- .3	0	.5	29	68	19	1	1	0	0
NV ELY	81	33	86	30	57	6	0	- .1	0	1.7	283	47	11	0	2	0	0
LAS VEGAS	99	65	101	64	82	9	0	0	0	.2	50	21	8	7	0	0	0
RENO	89	41	92	38	65	10	0	- .1	0	.5	125	69	13	3	0	0	0
WINNEMUCCA	89	37	92	29	63	10	0	- .1	0	.2	40	40	10	2	1	0	0
NH CONCORD	66	41	72	28	53	0	.7	.1	.4	2.9	83	95	52	0	2	2	0
NJ ATLANTIC CITY	69	52	75	40	60	-1	1.1	.4	.8	2.8	82	95	60	0	0	2	1
TRENTON	68	55	76	49	62	0	.5	- .1	.4	2.5	69	--	--	0	0	2	0
NM ALBUQUERQUE	85	49	90	44	67	3	0	- .2	0	1.8	200	59	13	1	0	0	0
ROSWELL	82	55	88	50	68	4	0	- .4	0	6.6	347	--	--	1	0	0	0
NY ALBANY	67	45	77	37	56	0	.6	- .1	.3	2.8	76	89	55	0	0	3	0
BINGHAMTON	62	43	73	35	53	-3	.4	- .3	.4	3.2	91	97	57	0	0	2	0
BUFFALO	64	48	76	36	56	0	.9	.2	.8	5.3	139	85	56	0	0	3	1
NEW YORK	67	57	74	54	62	-1	.8	.2	.4	1.9	51	82	62	0	0	2	0
ROCHESTER	67	45	79	36	56	-1	.2	- .4	.1	3.8	136	93	59	0	0	2	0
SYRACUSE	68	47	78	35	57	0	.2	- .4	.1	3.7	119	77	48	0	0	2	0
NC ASHEVILLE	64	50	78	40	57	-4	1.5	.7	.5	5.0	122	97	71	0	0	4	1
CHARLOTTE	67	53	79	46	60	-6	1.9	1.2	.9	5.5	141	72	70	0	0	4	2
GREENSBORO	65	54	78	47	59	-5	1.3	.6	1.0	3.1	77	81	76	0	0	4	1
HATTERAS	74	62	78	53	68	-1	2.2	1.0	1.1	5.2	78	96	66	0	0	4	2
RALEIGH	69	56	79	49	63	-2	1.7	1.0	.9	4.5	105	99	73	0	0	5	1
WILMINGTON	76	63	84	55	69	0	1.9	.9	1.0	6.4	100	94	64	0	0	4	0
ND BISMARCK	72	44	87	37	58	6	T	- .2	T	1.1	73	71	36	0	0	0	0
FARGO	65	41	81	29	53	1	T	- .3	T	2.5	119	85	43	0	2	0	0
WILLISTON	76	46	84	37	61	10	T	- .2	T	2.4	171	75	29	0	0	0	0
OH AKRON-CANTON	65	45	76	34	55	-3	.2	- .4	.2	2.0	67	85	48	0	0	2	0
CINCINNATI	65	43	79	33	54	-8	.4	- .1	.2	2.3	79	96	50	0	0	2	0
CLEVELAND	66	43	77	32	54	-5	.4	- .2	.3	3.5	109	90	51	0	1	4	0
COLUMBUS	66	45	79	35	56	-4	.2	- .2	.2	2.2	81	93	45	0	0	3	0
DAYTON	64	44	78	33	54	-7	.3	- .2	.2	1.8	67	87	48	0	0	2	0
TOLEDO	65	42	81	32	54	-4	.6	.1	.2	2.3	82	94	52	0	1	3	0
YOUNGSTOWN	62	41	74	29	51	-6	.2	- .4	.1	4.6	153	88	45	0	1	2	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Oct. 5, 1980

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION					RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
														TEMPERATURE °F		PRECIPITATION	
	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	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OK OKLAHOMA CITY	80	53	94	43	67	-1	T	- .7	T	2.2	55	78	32	1	0	0	0
TULSA	78	55	91	46	67	-1	.3	- .6	.3	3.8	79	78	36	1	0	1	0
OR ASTORIA	73	51	85	47	62	6	.1	- 1.0	.1	2.6	70	86	58	0	0	1	0
BURNS	81	34	84	32	58	5	0	- .1	0	.5	100	69	16	0	2	0	0
MEDFORD	92	45	99	41	68	10	0	- .3	0	.2	25	77	17	4	0	0	0
PENDLETON	79	48	92	43	64	6	0	- .2	0	.7	100	54	23	1	0	0	0
PORTLAND	82	50	90	45	66	8	0	- .6	0	1.6	76	94	30	1	0	0	0
SALEM	84	47	92	40	66	8	T	- .6	T	1.1	55	94	29	1	0	1	0
PA ALLENTOWN	69	52	80	46	61	2	.7	0	.4	2.7	66	84	52	0	0	2	0
ERIE	63	46	77	37	54	-3	2.1	1.3	1.7	7.6	190	--	--	0	0	4	3
HARRISBURG	67	48	76	40	58	-3	.1	- .5	.1	1.2	39	81	48	0	0	2	0
PHILADELPHIA	70	55	78	50	63	1	.7	.1	.6	3.5	103	83	52	0	0	2	1
PITTSBURGH	67	47	78	41	57	-1	.2	- .4	.2	1.4	47	81	47	0	0	2	0
SCRANTON	67	47	80	37	57	-1	.3	- .3	.3	1.7	53	86	47	0	0	1	0
RI PROVIDENCE	67	48	73	38	58	0	.8	.1	.7	1.7	46	86	56	0	0	2	1
SC CHARLESTON	76	60	83	50	68	-2	1.4	.5	.6	2.9	50	87	62	0	0	3	2
COLUMBIA	70	55	80	45	62	-7	3.4	2.6	1.6	7.5	150	100	53	0	0	4	2
GREENVILLE	66	52	78	40	59	-7	3.1	2.3	1.4	6.5	151	88	67	0	0	4	3
SD ABERDEEN	71	41	88	31	56	2	T	- .4	T	.9	45	79	35	0	2	0	0
HURON	74	40	90	30	57	2	T	- .4	T	.5	25	76	27	1	2	1	0
RAPID CITY	77	45	91	38	61	6	0	- .2	0	.4	29	54	20	1	0	0	0
SIOUX FALLS	69	39	85	26	54	-2	T	- .5	T	.8	25	78	34	0	3	0	0
TN CHATTANOOGA	65	50	75	39	58	-8	1.7	.9	1.2	4.6	110	97	59	0	0	4	2
KNOXVILLE	65	50	76	40	57	-9	.4	- .2	.3	2.5	78	96	65	0	0	4	0
MEMPHIS	73	56	83	42	64	-4	.1	- .5	.1	5.3	156	78	47	0	0	1	0
NASHVILLE	68	51	77	38	59	-7	.1	- .4	.1	1.1	31	99	51	0	0	2	0
TX ABILENE	81	59	89	51	70	-1	.9	.3	.9	6.2	230	76	43	0	0	1	1
AMARILLO	82	52	85	45	67	3	.1	- .3	.1	1.7	77	75	28	0	0	1	0
AUSTIN	83	64	90	58	74	-1	.2	- .6	.2	5.7	133	80	45	1	0	2	0
BEAUMONT	83	64	90	58	74	0	1.0	0	.9	21.9	365	90	56	1	0	2	1
BROWNSVILLE	91	68	95	61	79	1	0	- 1.1	0	1.5	25	89	43	4	0	0	0
CORPUS CHRISTI	85	66	91	61	76	-2	1.7	.8	1.6	6.0	109	86	52	1	0	2	1
DEL RIO	88	65	93	59	76	1	T	- .7	T	1.7	47	80	36	2	0	1	0
EL PASO	88	58	93	55	73	4	0	- .2	0	1.9	136	72	24	2	0	0	0
FORT WORTH	77	58	83	55	68	-5	3.3	2.6	3.3	6.5	176	70	49	0	0	1	1
GALVESTON	82	72	86	68	77	0	.7	- .3	.7	5.1	81	80	58	0	0	1	1
HOUSTON	86	62	94	54	74	-1	2.5	1.5	1.3	6.0	111	95	49	1	0	2	2
LUBBOCK	81	57	85	51	69	3	T	- .6	T	3.5	130	78	39	0	0	0	0
MIDLAND	79	55	85	51	67	-3	T	- .4	T	9.6	480	95	47	0	0	1	0
SAN ANGELO	81	58	89	51	70	-2	.1	- .5	.1	11.1	347	85	47	0	0	1	0
SAN ANTONIO	89	66	93	60	77	3	.3	- .5	.3	5.0	116	81	40	3	0	1	0
VICTORIA	86	65	91	58	75	-1	1.7	.7	1.7	6.1	115	93	55	1	0	1	1
WACO	80	57	90	49	68	-5	.4	- .3	.4	2.1	55	82	47	1	0	2	0
WICHITA FALLS	80	54	91	48	67	-4	T	- .7	T	10.2	291	81	45	1	0	0	0
UT BLANDING	84	49	87	43	66	8	0	- .3	0	.9	75	46	10	0	0	0	0
SALT LAKE CITY	80	46	83	44	63	5	0	- .2	0	.8	100	63	17	0	0	0	0
VT BURLINGTON	64	45	72	28	54	1	1.1	.5	.6	5.5	157	97	62	0	1	3	1
VA LYNCHBURG	67	52	83	42	60	-3	1.2	.5	.5	2.6	68	93	--	0	0	4	0
NORFOLK	73	60	78	51	66	0	1.2	.4	.8	2.0	43	88	61	0	0	4	1
RICHMOND	69	55	80	50	62	-2	1.3	.6	1.1	3.5	85	91	61	0	0	4	1
ROANOKE	69	51	81	42	60	-3	.6	- .2	.3	2.2	54	92	52	0	0	5	0
WA COLVILLE	74	42	78	34	58	6	0	- .2	0	1.1	0	--	--	0	0	0	0
OMAK	79	45	84	39	62	7	0	- .1	0	1.5	300	81	25	0	0	0	0
QUILLAYUTE	69	50	80	45	60	6	1.9	- .1	1.9	7.7	115	86	57	0	0	2	1
SEATTLE-TACOMA	72	52	82	49	62	6	.2	- .5	.2	1.6	62	91	52	0	0	1	0
SPOKANE	75	43	79	34	59	5	0	- .2	0	.8	89	79	23	0	0	0	0
WALLA-WALLA	79	53	86	45	66	7	0	- .3	0	1.5	150	64	32	0	0	0	0
YAKIMA	81	43	86	38	62	7	0	- .1	0	.5	100	75	24	0	0	0	0
WV BECKLEY	61	43	73	35	52	-6	.5	- .2	.3	2.1	55	88	52	0	0	3	0
CHARLESTON	67	46	85	38	57	-5	.3	- .3	.2	2.7	79	96	61	0	0	2	0
HUNTINGTON	65	48	79	41	57	-5	.2	- .3	.1	2.0	63	93	53	0	0	2	0
PARKERSBURG	66	47	80	37	57	-5	.2	- .3	.1	2.2	71	95	61	0	0	3	0
WI GREEN BAY	57	40	71	26	49	-5	.1	- .5	.1	3.6	97	93	51	0	1	1	0
LA CROSSE	63	46	77	33	55	-2	T	- .6	0	8.6	232	91	49	0	0	0	0
MADISON	60	37	75	23	49	-6	.1	- .5	.1	8.0	216	96	49	0	3	1	0
MILWAUKEE	61	42	74	32	51	-5	.1	- .5	T	3.6	103	77	43	0	1	2	0
WY CASPER	76	38	88	27	57	4	0	- .2	0	0	0	52	14	0	1	0	0
CHEYENNE	73	43	85	37	58	5	0	- .2	0	1.0	83	50	19	0	0	0	0
LANDER	76	42	86	34	59	7	0	- .3	0	.1	8	45	17	0	0	0	0
SHERIDAN	77	42	88	39	60	7	0	- .3	--	1.3	87	54	19	0	0	0	0
PR SAN JUAN	90	78	91	77	84	3	2.3	1.0	.4	5.1	73	84	57	6	0	5	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 7° below normal. Some frost northward. Early week rain 2 to 3.00 in. central sections, lighter in north and south.

Fieldwork: 3.0 days suitable. Soil moisture adequate. Activities: Harvesting cotton, soybeans, corn, peanuts; land preparation; some chemical applications; care of livestock and poultry. Corn harvested 90%, 68% 1979, 51% average. Soybean leaves turning yellow 84%, 74% 1979, 76% average; leaves shedding 64%, 46% 1979; maturing 41%, 29% 1979, 44% average; harvested 14%, 6% 1979. Cotton bolls open 87%, 48% 1979, 57% average; harvested 24%, 2% 1979, 13% average. Peanuts dug 47%, 47% 1979, 72% average; combined 33%, 37% 1979, 61% average. Wheat seeded 18%, 25% 1979. Sorghum harvested 40%, 32% 1979. Condition: Soybeans poor; cotton, pastures, pecans poor to fair.

ALASKA: Favorable weather for fieldwork. Averaged 4.0 days. Combining gained momentum. Barley combining 50% finished compared with 90% year ago. Moisture content of barley remained high. Wind, rain damage light. Haying in wind-up stage. Potato harvest virtually complete. Livestock in mostly good to excellent condition. Ground soil moisture supplies mostly adequate or better. Tanana Valley temperatures averaged about 7° warmer than normal. Light precipitation. Matanuska Valley temperatures averaged 2 to 3° above normal. Precipitation light. Kenai Peninsula temperatures averaged 2 to 3° above normal. Precipitation light. Kodiak Island temperatures averaged 1 to 2° above normal.

ARIZONA: Sunny, hot weather with near record high temperatures prevailed. No precipitation. Average temperatures mostly 5 to 11° above normal.

Cotton harvest increasing slowly, about 5% crop picked. Only 5% stands remain without open bolls, most late cotton, double cropped after small grains. Defoliation continues major activity with main harvest to follow. Unseasonably warm weather very favorable development late boll set where moisture still available. Corn, sorghum harvest making seasonal progress. Planting 1981 sugarbeet crop 75% complete. Alfalfa haying active western areas, seventh cutting, other areas in sixth. Lettuce harvest increasing southeast. Harvest expected central, Salt River Valley 7 to 10 days. Mixed vegetables fall, winter harvest good progress. Green chili harvest active Cochise County. Lemon picking increasing, currently ahead last year. Ranges well below average, critical some areas. Range conditions fair in north, poor to fair central and south. Livestock fair to good. Water adequate.

ARKANSAS: Temperatures well below normal. General rains fell first of week. Highest temperature 87°, lowest 33°. All departures from normal ranged from -3 to -8°. Most rainfall 4.09 in., least trace.

Fieldwork possible 4.0 days. Soybeans poor condition, 100% setting pods, 50% yellowing, 43% shedding, 21% mature, harvested 5%, 2% 1979, 5% average. Rice fair condition, 93% ripe, 57% harvested, 54% 1979, 61% average. Cotton open bolls 98%, 51% 1979, 65% average, 38% harvested, 5% 1979, 13% average. Corn 99% harvested, 37% 1979, 61% average. Sorghum 90% harvested, 65% 1979, 72% average. Oats 10% planted, 19% 1979, 21% average. Wheat 9% seeded, 15% 1979, 18% average. Cattle fair condition, relieved from heat stress. Regrowth of pastures evident, supplying below average feed requirements.

CALIFORNIA: Average temperatures soared to as high as 14° above normal. Even the normal cool Coast had record-setting temperatures clustered around the 100° mark. No rain except for a few scattered sprinkles extreme northwest early week. Flooding occurred lower Jones Tract, San Joaquin County. Break flooded 6,000 acres.

Rice 97% headed, 75% turning color, 50% ripe. Draining fields, 10% harvested, 22% last year. Burning stubble. Cotton 65% open, defoliation active, harvest beginning. Corn grain and silage, sugarbeet, dry bean, alfalfa hay and seed harvest active. Milo heading. Land preparation for small grain planting active. Planting beginning. Pruning and irrigating starting in orchards and vineyards. Avocado drop light. Raisins rolled and boxed. Wine grape harvest half over. Good olive crop. Kiwi harvest starting. Good lemon quality in Desert areas. Large Navel and Valencia orange crops. Almonds, pistachios, walnuts being harvested. Artichoke supplies normal. Broccoli, cauliflower in heavy supply. Cantaloups decrease sharply Westside, increase Desert. Carrots steady Salinas, Bakersfield underway. Lettuce decreasing Salinas; Imperial winter crop growing well. Peppers heavy supply. Sweetpotato harvest heavy Merced. Processing tomatoes gearing down rapidly. Fresh market tomatoes steady, San Diego underway. Range conditions dry. Cattle continue to be moved from summer ranges. Calving active San Joaquin Valley.

COLORADO: Dry, warm entire week. Only trace precipitation reported in a few isolated areas. Temperatures averaged 2 to 6° above normal.

Winter wheat seeded 92%, 93% 1979, 94% average; emerged 78%, 68% 1979, 76% average. Spring wheat harvest 92%, 93% 1979. Corn mature 76%, 65% 1979, 87% average; grain harvest 14%, 4% 1979, 15% average; silage harvest 94%, 90% 1979, 97% average. Sorghum 81% ripe, 74% 1979, 73% average; grain harvest 4%, 3% 1979, 7% average; forage harvest 74%, 67% 1979. Onions harvested 52%, 67% 1979. Six days suitable for fieldwork. Ranges and pastures fair condition. Livestock in good condition.

FLORIDA: Thundershowers over the north half on 29th. Two cold fronts moved across State from the 30th through the 4th. The second front caused the only significant rainfall amounts, north, central. A third front entered the Panhandle on the 5th. Rainfall averaged 0.50 to 1.00 in. statewide. Temperatures above normal during the second part of the period and below normal toward the end of the period.

Soil moisture generally adequate. Hoewever, a few scattered dry areas persist. Peanut harvest interrupted by rain but nearing completion. Soybeans maturing rapidly, combining increasing. Scattered corn and hay

harvest continues. Sugarcane very good to excellent condition. Panhandle and many northern county pastures in poor to fair condition, mostly good to excellent other areas. Cattle fair to mostly good condition. Citrus groves received rain at midweek, but more rain needed. Irrigation in use all areas. Cool weather slowing evaporation. Harvest increasing, oranges, grapefruit and specialty fruit. Planting steady but delayed some fields as soil moisture too low. Irrigation necessary. Pole bean, squash, sweet corn, cucumber harvest continues active for local market. Snap bean, eggplant harvest gaining. Very light harvest small acreage peppers underway southeast; good volume expected late October. Overall crop condition good to excellent, progressing favorably. Fieldwork continues very active.

GEORGIA: Strong cold front produced temperatures 3 to 8° below normal north and central, despite readings near normal both early and late week. Temperatures over southern sections cooler midweek, averaged near or below normal. Extremes 45 and 94°. Widely scattered showers extreme north produced rainfall averaging only a few hundredths of an inch.

Soil moisture much improved, now mostly adequate to surplus. Rain too late for most row crops. Only 2.0 days suitable for fieldwork. Continued insect infestation in soybeans. Corn mostly poor to fair, virtually all mature, 91% harvested, 80% last year, 71% average. Soybeans mostly poor to fair, 98% setting pods, 34% leaf drop, 4% harvested, 3% last year, 5% average. Peanuts mostly poor to fair, 70% dug, 78% last year, 83% average, 56% threshed, 64% last year, 72% average. Cotton poor to fair, 97% open, 80% last year, 53% harvested, 15% last year, 16% average. Small grain planting: Wheat 7%, 17% last year, 16% average; rye 15%, 21% last year, 22% average; other small grains 12%, last year 19%, average 22%. Apples fair to good, 92% harvested, 95% last year. Pecans poor to mostly fair, less than 1% harvested, 2% last year and average. Pastures and hay crops poor to fair. Cattle mostly fair to good. Hogs fair to good.

HAWAII: Weather favorable. Rainfall light most areas and beneficial to some agricultural sections. Irrigation heavy in the drier areas. Spraying frequent to control insect and disease infestations. Vegetable supplies adequate. Chinese cabbage and celery heavy. Others light to moderate. Banana harvesting light. Papaya harvesting active. Supplies will remain heavy. Rains beneficial. Pineapple, light harvesting anticipated. Sugar, steady harvesting most plantations. Pastures, rains beneficial to some drier pastures.

IDAHO: Warm days, cool nights. Average temperatures up to 8° above normal.

Conditions near perfect for harvest completion. Spring wheat harvested 99%, 100% 1979, 98% average. Potatoes harvested 30%, 52% 1979, 32% average. Sugarbeet harvest just beginning. Winter wheat 55% planted, 30% emerged. Fieldwork: 7.0 days suitable. Range and pasture remain in very good shape. Fall livestock round-ups intensify.

ILLINOIS: Temperatures 4 to 7° below normal. Precipitation little or none.

Soil moisture 19% short, 75% adequate, 6% surplus. Corn 39% harvested, 9% 1979, 16% average. Soybeans 61% harvested, 57% 1979, 40% average. Winter wheat acreage 28% seeded, 23% 1979, 26% average. Sorghum 45% harvested. Pastures 8% excellent, 55% good, 34% fair, 3% poor. Fieldwork: 6.5 days suitable.

INDIANA: Cool, dry week. First fall frost on 5th covering most areas. Lowest temperature 26, highest 85°. Rainfall averaged 0.10 in. in south, 0.30 central, 0.50 in. north, except 1.60 in. around South Bend.

Fieldwork averaged 6.0 days. Topsoil and subsoil moisture adequate. Corn 95% mature, 1979 90%, average 85%. Corn 20% harvested, 1979 10%, average 15%. Corn moisture content 24%. Soybeans 40% combined, 1979 20%, average 25%. Soybeans 90% mature, 1979 75%, average 70%. Soybean moisture content 14%. Wheat land 65% plowed, 1979 65%, average 70%. Wheat 40% seeded, 1979 25%, average 25%. Tobacco 95% harvested, 1979 90%, average 90%. Silos 90% filled, average 80%.

IOWA: Cool, dry week. Temperatures averaged 4° subnormal with localized moderate-to-heavy frost west the 3d and 4th and east the 5th.

Fieldwork: 6.8 days favorable. Topsoil moisture: 27% short, 67% adequate, 6% surplus. Subsoil moisture: 14% short, 78% adequate, 8% surplus. Corn acreage mature: 100%, 1979 95%, normal 99%. Corn acreage harvested: 23%, 1979 8%, normal 16%. Soybean leaves shedding: 99%, 1979 95%, normal 99%. Soybeans mature: 93%, 1979 87% normal 95%. Soybean acreage harvested: 46%, 1979 42%, normal 39%. Fall plowing complete: 7%, 1979 7%, normal 4%. Crop conditions decline, variable, pasture condition mostly good. Grain movement moderate to heavy.

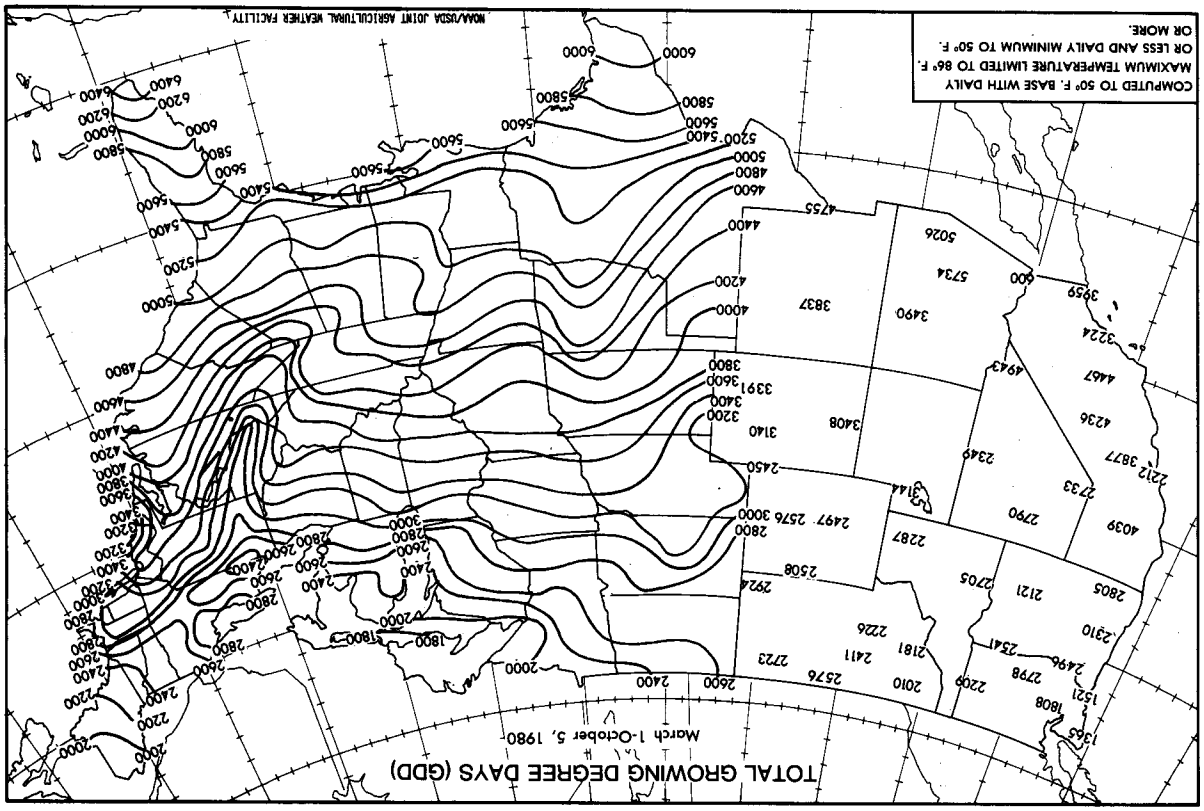
KANSAS: Precipitation limited 0.25 in. to 0.75 in. southeast quarter and very spotty similar amounts east central and south central. Temperatures averaged 60 to 65°, near normal north central and central districts to 2 to 4° below normal east and south central and 2 to 4° above normal west.

Corn matured 95%, last year 85%, average 90%. Corn harvested for grain advanced to 55%, last year 35%, average 35%. Soybeans shedding leaves 75%. Sorghum matured 60%, year earlier 70%, average 70%. Sorghum harvested 25%, previous year 25%, average 20%. Wheat seeding active with 70% completed, last year 65%, average 70%. Barley planted 45%, last year 30%, average 50%. Soil moisture shortages widespread and pastures furnishing little feed. Chief farm activities planting of wheat and harvest of row crops. Days suitable for fieldwork: 6.5.

KENTUCKY: Temperatures averaged 4 to 7° below normal with temperatures much below normal over weekend. Frost reported over weekend. Rainfall light, averaging around 0.33 in. in light rain almost every day.

Fieldwork: 5.5 days suitable. Soil moisture 58% short, 42% adequate. Burley tobacco curing up well, fine quality crop anticipated. Houseburn reported on only 6% housed tobacco and severity light. Approximately 13% ready for stripping with a few growers started. Corn harvest 52% complete, year ago 17% and average 26%. Soybeans 17% harvested, 8% in 1979 and 12% average. Some late soybeans could be susceptible to freeze damage. Most cover crop seeded and nearly 25% of all wheat seeded. Pastures need rain.

LOUISIANA: Rainfall scattered. Temperatures 2° below to 1° above normal. Extremes: 95° and 45°.



Soil moisture short to adequate. Fieldwork: 4.8 days suitable. Corn harvested 99%, 94% 1979, 90% average. Cotton poor to fair; bolls open 100%, 50% 1979; harvested 38%, 3% 1979, 15% average. Rice harvested 95%, 94% 1979, 96% average. Sorghum ripe 99%, 88% 1979; harvested 92%, 81% 1979, 74% average. Soybeans poor to fair; leaves turning 82%, 71% 1979; shedding 58%, 46% 1979; harvested 14%, 14% 1979, 21% average. Sugarcane fair to good; planted 73%, 79% 1979, 71% average. Vegetables poor. Sweetpotatoes harvested 66%, 65% 1979, 64% average. Pecans poor to fair. Pastures poor to fair. Haying active. Final cutting 82%. Wheat planted 12%, 40% 1979. Livestock fair. Supplemental feeding continued.

MARYLAND AND DELAWARE: Temperatures ranged from normal to 1° below normal. Highs low to mid 70's, minimums low to mid 50's. Precipitation light.

Corn silage harvest virtually complete, last year 80%, normal 85%. Corn for grain 50%, equal to last year, 42% normal. Soybeans, 75% yellow, 50% shed leaves, last year 70% yellow, 40% shed leaves. Tobacco, 100% harvested. Barley and wheat, 35% seeded. Rye 10% and oats 15% planted. Soil moisture short to adequate. Pastures short. Fieldwork: 6.5 days suitable.

MICHIGAN: Temperatures ranged 4 to 6° below normal over Upper and 2 to 6° below Lower. Extremes: 81° and 15°. Frost general Upper, some Lower. Precipitation generally light, mostly 0.20 in. to 0.80 in. reported. Isolated reports over 1.50 in. Light snow in Upper and northern Lower.

Harvest active early part of week. Nearly stopped late in week. Five days suitable for fieldwork. Soil moisture supplies adequate to surplus. Corn 80% mature, 53% last year, 65% average, 5% harvested, 2% last year, 5% average. Corn silage 62% harvested, 62% last year, 70% average. Soybeans 51% leaves shedding, 46% last year, 38% average, 7% harvested, 6% last year, 8% average. Dry beans 72% harvested, 88% last year,
73% average. Potatoes 61% dug, 70% last year, 64% normal. Winter wheat 48% planted, 70% last year, 57% average. Hay 73% third cut, 90% last year, 74% average. Apple picking full swing. Grape harvest half complete. Onion harvest nearing completion. Other vegetable harvests nearing completion.

MINNESOTA: Temperatures averaged near normal in western district; up to 5° below normal in eastern districts. Precipitation averaged up to 0.50 in. below normal most areas, near normal in parts of the central and west central districts. Precipitation totals light and variable with several stations reporting trace or less.

Fieldwork continues slowly. Light showers kept fields damp. Sunny weather needed to dry crops for harvest. Topsoil moisture 20% surplus, 72% adequate, 6% short, and 2% very short. Field corn: Mature 96%, 1979 68%, normal 91%; harvested 8%, 1979 1%, normal 17%; moisture content 27%, 1979 33%, normal 27%; silage cut 83%, 1979 55%, normal 85%. Soybeans: Mature 96%, 1979 78%, normal 92%; harvested 29%, 1979 28%, normal, 42%; moisture content 14%, 1979 13%, normal 13%. Harvested: Sunflowers 41%, 1979 20%, normal 35%; sugarbeets 7%, 1979 8%, normal 14%; potatoes 72%, 1979 73%, normal 72%. Seeded: Winter wheat 95%, 1979

93%, normal 91%; winter rye 94%, 1979 91%, normal 87%.

MISSISSIPPI: Temperatures 4 to 12° below normal. Rains fell most areas with the highest 24 hour rainfall of 3.78 in.

Soil moisture adequate to surplus. Fieldwork: 3.2 days suitable. Harvesting in full swing though slowed by the rain. Pastures and winter crops helped by moisture. Hay crops 93% harvested, 90% 1979, 89% average. Sorghum silage 95% harvested, 85% 1979. Peanuts 80% harvested, 65% 1979, 69% average. Corn 78% harvested, 63% 1979, 55% average; poor to very poor condition. Sweetpotatoes 46% harvested, 45% 1979, 51% average. Winter wheat planted 13%, 28% 1979, 35% average. Soybeans 82% shedding, 75% 1979, 71% average; mature 40%, 30% 1979; harvested 13%, 8% 1979, 13% average; poor condition. Sorghum 98% ripe, 92% 1979; 59% harvested, 63% 1979, 66% average. Cotton 19% harvested, 6% 1979, 18% average; condition fair to poor. Rice 96% mature, 97% 1979, harvested 80%, 63% last year and average; condition fair. Pastures poor condition. Pecans poor to fair condition.

MISSOURI: Temperatures dropped to 3° to 4° below normal. Scattered frosts reported late week. Drought conditions continue.

Fieldwork: 6.4 days suitable. Corn 65% harvested, last year 27%, normal 35%. Grain sorghum 83% mature, last year 80%, normal 78%. Grain sorghum 45% harvested, last year 33%, normal 35%. Soybeans 60% mature, last year 58%, normal 55%. Soybeans 26% harvested, last year 25%, normal 15%. Winter wheat 34% seeded, last year 30%. Cotton 100% with open bolls, last year 84%, normal 71%. Cotton 46% harvested, last year 17%, normal 16%. Fall plowing 13% complete, last year 13%. Condition of pasture poor to fair. Topsoil moisture supplies short.

MONTANA: Very warm and dry. Temperatures averaged 5° above normal over southwest, 6° above in west, and 7 to 9° above normal elsewhere. Highest 92, lowest 20°.

Moisture supplies range short to adequate. There were 6.0 days suitable for fieldwork. Winter wheat seeded 90%, 1979 80% and 80% average. Winter wheat condition fair to good. About 65% winter wheat emerged. About 55% cattle and 60% sheep moved from summer ranges. Crop harvest to date: Percent followed by previous year and average. Barley 95%, 95%, 90%; spring wheat 95%, 100%, 100%; corn silage 90%, 90%, 85%; sugarbeets 10%, 20%, 20%; potatoes 25%, 45%, 40%; dry beans 80%, 85%, 70%.

NEBRASKA: Temperatures 5° above normal over Panhandle; 3° below normal over extreme east. Precipitation: None measurable.

Dryland corn mostly fair to poor; irrigated corn condition good to fair; 95% mature, 85% last year and 90% normal; harvested 30%, 5% last year and 10% normal. Windy conditions caused some additional ear droppage many insect and disease damaged fields over eastern half. Soybeans fair to good; 96% dropping leaves, 95% last year and 90% normal; harvested: 40%, 45% last year and 25% normal. Sorghum fair to good; mature 96%, 80% last year and 90% normal: 50% harvested, well ahead of 10% last year and 25% normal. Wheat mostly fair; seeding 96% complete, 98% last year and 90% normal; emerged 75%. Additional moisture needed to insure uniform stands and growth in late planted fields. Dry bean harvest virtually complete. Sugarbeet harvest underway, factories open for deliveries. Topsoil moisture short. Subsoil moisture short. Pasture and range feed supplies mostly short to adequate. Days suitable for fieldwork: 7.0.

NEVADA: Warm, dry weather with numerous record highs. Temperatures averaged above normal all areas ranging 4 to 12°. No rain and no clouds.

Dry weather ideal for potato harvest. Excellent progress made combining alfalfa seed. Good progress winter grain seeding. Onion harvest in progress.

NEW ENGLAND: Light rain fell in extreme northern region early week. Soaking rains at week's end dropped 1.00 to 1.50 in. east and 0.50 to 0.75 in. elsewhere. Cool temperatures early week. Widespread frost over northern areas 29th. Near normal temperatures by weekend.

Fieldwork: 5 to 6 days suitable, 1 to 2 extreme north. About 40% of potato crop harvested in northern Maine, near complete in southern New England. Russets nicely shaped but appear a little smaller than average. About 67% of corn crop harvested. Yields reported as good. Apple crop over 50% picked. Cranberry harvest about 33% finished. Winter squash, pumpkins being harvested. Peppers, tomatoes and eggplants remain good supply. Soil moisture adequate north to very short south. Grazing conditions generally adequate north and short south.

NEW JERSEY: Temperatures averaged near normal. Extremes: 33 and 82°. Rainfall averaged 1.07 in. north, 0.68 in. central and 0.66 in. south. Soil moisture, in percent of field capacity, averaged: 48 north, 60 central and 68 south.

Fieldwork: 6.2 days suitable. Some areas received heavy showers but most areas need a good rain. Fall crop harvest advancing on schedule. Sweetpotato harvest general, much of the crop going into storage. Apple harvest nearly half complete. Cranberry harvest active. Harvest of corn for grain and soybeans becoming general. Fall seeded grains, cover crops being planted.

NEW MEXICO: Soil moisture in short supply in northeast with an adequate supply elsewhere. Irrigated crops remain in good condition and dryland crops in poor to good condition. Cotton remains in good condition with warmer and drier weather furthering development. Limited cotton picking underway in Lea, Eddy, Dona Ana Counties. Alfalfa hay harvest underway again most areas, but still at standstill in Eddy and Chaves Counties. Fourth cutting underway in the north and fifth in the south. Winter wheat seeding continued with 95% of the irrigated crop and 90% of the dryland crop planted. About 90% emerged and is in good condition. Corn remains fair to good as grain harvest increases and silage winds down. Irrigated grain sorghum fair to good with grain harvest getting underway. Ranges remain in poor to good condition, depending on locality. Livestock continue in good condition.

NEW YORK: Temperatures averaged near normal. Rainfall continues above normal north, below normal south.

Corn silage harvesting 58% complete, 54% 1979, 62% average. Grain corn nearly 10% harvested, same 1979, 5% average. Corn borer a problem some areas. Third cutting alfalfa 81% done, 78% 1979, 77% average. Harvest of Long Island and Upstate vegetable crops progressing normally. Apple harvest in full swing. Early

grape harvest complete. Concord grape harvest beginning. Good grape sugar content.

NORTH CAROLINA: Temperatures near normal in east, 5° below normal in west. Precipitation 1.00 to 3.00 in.

Fieldwork: 2.5 days suitable. Soil moisture 3% very short, 19% short, 66% adequate, 12% surplus. Conditions: Apples fair to good; pastures, cotton, peanuts, sweetpotatoes, sorghum fair; soybeans poor to mostly fair. Harvested: Cotton 30%, 1979 11%, average 9%; sweetpotatoes 34%, 1979 52%, average 49%; sorghum grain 50%, 1979 24%, average 47%; soybeans 4%; burley tobacco 96%, 1979 98%; average 94%; corn for grain 82%, 1979 67%, average 71%; corn silage 94%; peanuts dug 44%, 1979 6%, average 35%; peanuts threshed 28%, 1979 4%, average 24%; apples 65%, 1979 60%, average 68%. Planted: Wheat 5%, 1979 9%. Phenological stages: Cotton opened bolls 94%, 1979 62%; corn mature 98%; soybeans pods set 98%, 1979 93%; soybean leaves dropped 19%, 1979 11%.

NORTH DAKOTA: Temperatures averaged above normal and precipitation was very light. Extremes: 93 and 29°.

Warm, dry weather permitted farmers to make excellent progress on small grain harvest. Row crops continue to mature, mostly free of frost damage, with sunflower harvest getting underway and expected to be more general next week. Current harvest progress vs. last year and average. Hard red spring wheat 96, 99, 98; durum 91, 97, 95; flax 54, 70, 82; sunflower 10, 9, 15; corn for grain 5, 59, 21; potatoes 65, 75, 71; dry beans 61, 84, 81; soybeans 28, 38 44. The sugarbeet harvest is underway. Pasture and hay growth improved considerably from mid-summer drought, although southwest still dry. Soil moisture better than normal; adequate 63% of State, short 35%.

OHIO: Cold air mass brought the first frost of the season to most areas. Mean temperatures averaged from 3 to 7° degrees below normal. Minimums reached freezing or lower at most stations. Extremes: 26 and 81°. Precipitation totals generally less than 0.50 in. Rainfall was below normal all areas.

Row crop harvest continued to progress ahead of average. Corn moisture running 20 to 30% in the northern third and 16 to 25% in the southern two-thirds. Soybean moisture running 10 to 19% and below average in heavy production areas. Wheat seeding progressed rapidly last week. Corn matured 98%, 90% 1979, 90% average. Corn harvested 20%, 5% 1979, 10% average. Soybeans matured 90%, 70% 1979, 80% average. Soybeans harvested 35%, 10% 1979, 20% average. Wheat planted 45%, 40% 1979, 40% average. Days favorable 6.0. Pasture condition good. Soil moisture 26% short, 72% adequate, 2% surplus.

OKLAHOMA: Temperatures averaged below normal all divisions except Panhandle. Division averages ranged 1° above normal Panhandle to 5° below normal east central. Rains generally light in east and south with no rain in northwest third.

Generally light rains and cooler temperatures increased producer optimism in seeding wheat. Wheat seeded 30% 1980, 50% 1979 and 55% average. Wheat up to stand 10% 1980, 20% 1979 and 20% average. Sorghum mature 80% 1980, 80% 1979, 75% average. Sorghum 35% harvested, 20% last year and average. Cotton 80% open bolls, 50% last year and average. Cotton harvested 5%, 5% last year, zero average. Days suitable for fieldwork: 5.0.

OREGON: Temperatures ranged 3 to 9° above normal. Precipitation: Coastal range averaged 0.20 in., Willamette Valley averaged 0.10 in., none elsewhere.

Soil moisture supplies short western section; adequate central and eastern sections. Winter wheat planting 46%, 51% 1979. Some reseeding in east due to crusting; dry weather in west slowed planting. Grass seed, red clover seed and sugarbeets seed planting continuing. Last alfalfa hay cutting, alfalfa seed harvest about finished. Pear harvest continues. Fall apple harvest underway; Red Delicious next week. Filbert harvest beginning. Severe blight damage some areas on walnuts. Potato harvest good; sweet corn nearly finished. Livestock condition good. Range and pastures good condition east; fair condition west.

PENNSYLVANIA: First widespread frost of season central mountains. Temperatures averaged 3 to 6° below normal for coolest week since early May. Extremes: 82 and 24°. Rainfall 0. 25 to 0.50 in. most sections except northwest where nearly 2.00 in.

Six days suitable. Soil moisture short to adequate. Soybean harvest 9% complete, last year less than 5%. Potato harvest 82% complete, last year 80%. Ensilage corn 80%, last year 58%. Corn 58% mature, 13% harvested; last year 37% mature and 3% harvested, average 45% mature and 6% harvested. Fall plowing 80%; last year 82%. Barley planted 83%, same as last year. Wheat planted 70%, last year 53%. Third cutting alfalfa 94%, last year 92%. Fourth cutting alfalfa 56%, last year 61%. Hay quality good to fair. Feed from pasture below average to average.

PUERTO RICO: Island average rainfall 2.25 in. or 0.38 in. above normal. Temperatures averaged about 82° on Coasts and 76° interior divisions. Extremes: 96 and 59°.

SOUTH CAROLINA: Temperatures dropped into 30's end of week with 83° being the high on 2d. Heaviest general rainfall since early spring fell the first 3 days ranging from 5 to 10 in.

Rain improved fall crops and late soybean prospects. Corn condition poor, 90% harvested, 84% year ago, 86% average. Cotton harvest halted, condition poor, 39% harvested, 13% last year, 18% average. Soybean condition poor, 55% leaves turning color, 32% last year, 54% average; 31% shedding leaves, 14% last year, 7% mature, 4% last year, 8% average. Pastures, fall hay, poor to fair condition but greening up; hay cut at 69%, 74% last year, 73% average. Seeding of winter grazing at 34%, 48% last year, 47% average. Apple harvest at 84%, 89% year ago, 89% average.

SOUTH DAKOTA: Rainfall, no measurable amounts. Temperatures ranged slightly below normal extreme east to 6° above normal central and west. A general hard freeze in extreme east on the third. Extremes: 98 and 23°.

Harvesting of row crops limited to afternoons because of heavy dew. Stands of winter wheat and rye good where enough moisture available but spotty where moisture was short at seeding time. Both crops would really respond to a good rain. Topsoil moisture supplies 13% adequate, 49% short, 38% critically short. Subsoil moisture supplies: 10% adequate, 49%

short, 41% critically short. West River livestock producers with short winter feed supplies either buying hay, reducing herd size, or moving stock to other areas. Soybeans shedding leaves 98%, 96% 1979, 99% average. Corn mature 95%, 98% 1979, 100% average. Soybeans mature 86%. Soybeans harvested 44%, 39% 1979, 34% average. Grain sorghum harvested 22%, 10% 1979, 26% average. Corn harvested 16%, 6% 1979, 15% average. Winter wheat emerged 87%, 86% 1979, 86% average.

TENNESSEE: Rains during early week, amounts averaged 0.10 in. west and mid-State, 0.50 in. Cumberland Plateau, 0.75 in. East. Temperatures quite cool, ranging 4° below normal west to 8° below normal mid and east.

Soil moisture 52% short, 465 adequate, 2% surplus. Fieldwork: 4.5 days suitable. Major activities; Harvesting corn, cotton, tobacco, soybeans; stripping tobacco; seeding small grains. Pastures mostly poor to fair, some areas showing rapid recovery after rains. Cattle fair. Corn 95% mature, 1979 86%, average 85%; 50% harvested, 1979 23%, average 23%. Cotton 95% open bolls, 1979 41%, average 53%; 50% harvested, 1979 1%, average 16%. Soybeans 20% mature, 1979 14%, average 8%; 5% harvested, 1979 1%, average 4%. Burley tobacco 25% stripped, 1979 and average 16%; harvest virtually complete. Wheat 30% seeded, 1979 33%, average 36%.

TEXAS: Fair weather predominated, few afternoon showers. Temperatures 2 to 4° below normal. Rainfall normal eastern third, southeast. Elsewhere below normal.

CROPS: COTTON harvest delayed scattered showers, wet field conditions. Rains hurt quality open cotton Trans-Pecos, Southern High Plains. Wet weather delay opening remaining top bolls. Bollworm damage evident. Producers Edwards Plateau waiting frost begin harvesting. Sorghum harvest Northern High Plains, producers waiting frost begin harvesting. Plains irrigated remain good; some fields heavy armyworm damage. Northern High Plains rains caused corn stalks lodge. Wheat, oat planting full swing. Fields dusted-in benefited from rains. Harvest second cutting rice. Birds problem. Peanut harvest in Cross-Timbers. Dryland fields not make; being baled. Hay supplies short. Fields not recovered summer drought.

Range and livestock: Range and pasture conditions improving. Pastures providing some grazing, forage short. Supplemental feeding continues. Outlook for winter grazing improved. Livestock fair to good.

Commercial vegetables: Lower Rio Grande Valley planting broccoli, cabbage, cauliflower, lettuce, onions. Harvest green peppers, melons. Oranges, grapefruit sizing well. Harvest early oranges underway. San Antonio-Winter Garden fall vegetables progressed well. Planting onions, spinach underway. Tomatoes blooming, setting fruit. Central Texas, planting active. Insect damage minimal. East Texas sweetpotato harvest active. Trans-Pecos harvest chili peppers, tomatoes, squash, green beans. High Plains pepper harvest slowed. Carrot harvest continued, lettuce harvest beginning. Pecans, light, small nuts, production down. Irrigated orchards in good condition.

Cotton harvested 28%, 14% 1979, 19% average. Sorghum harvested for grain 78%, 70% 1979, 72% average. Wheat planted all purposes 50%, 55% 1979, 55% average. Corn for grain harvested 80%, 72% 1979, 68% average.

UTAH: Fair with little or no precipitation. Temperatures climbed well above normal about mid-period but cooling trend over weekend. Average temperatures ranged from 3 to 9° above normal.

Warm, dry weather allowed fieldwork to progress at good rate. Major activities included silage harvest, third and some fourth crop hay harvest, seeding wheat and barley, livestock movement and apple picking. Silage about 66% cut. Quality and yield both hurt by frost. Dry land wheat planting made little progress as growers wait for more rain. More than half of cattle and sheep have moved from summer ranges. Condition reported good.

VIRGINIA: Cool temperatures moderated by middle of week, much cooler end. Average temperature in mid-50's, several degrees below normal. Extremes: Mid-80's to mid-30's. Rainfall moderate to heavy. Average about 0.75 in. Range from less than 0.25 in. to over 2.00 in. Heaviest south, least northwest.

Cool, rainy weather helped small grain germination but slowed seeding, fall crop harvesting. Topsoil moisture short to adequate. Fieldwork: 4.5 days suitable. Corn 97% mature; 90% silage cut; 60% grain combined, 45% 1979, 47% usual. Small grains seeded: Wheat 10%, 4% 1979, 14% average; barley 25%, 13% 1979, 32% usual; winter oats 30%, 12% 1979, 36% average. Soybeans 3% combined, 1% 1979, 4% usual. Peanuts 15% dug, 10% 1979, 33% average; 8% combined, 1% 1979, 15% usual. Eastern Shore sweetpotatoes 28% dug, 30% 1979. Apples 55% picked, 56% 1979, 58% usual. Grain sorghum combined central areas. Fall cucumbers, snap beans picked on Eastern Shore. Pastures still very poor except good southwest. Feeder cattle, lambs sold western areas. Firewood cutting active.

WASHINGTON: West: Precipitation below normal. Temperatures well above normal. Harvesting late season vegetables; sweet corn, celery, lettuce, carrots, and tomatoes. Cucumbers about finished. Digging seed potatoes and beets. Continuous silage cutting and green chopping.

East: Mostly dry. Temperatures 2 to 6° above normal. Grain harvests wrapping up. Fall seeding progressing normally. Soil moisture adequate. Dry beans nearly finished. Red Delicious picking full swing. Golden Delicious, pears tapering off. Grape picking continues. Potato digging continues. Harvesting sweet corn. Third, some fourth cutting hay. Some forage shortages.

WEST VIRGINIA: Temperatures slightly below normal. Extremes: 84 and 31°. Precipitation slightly below normal.

Soil moisture adequate. Days suitable for fieldwork: 4.6. Corn good to fair, 62% mature, 30% harvested, 10% ahead of 1979. Fall planting of wheat 40%, 28% 1979; barley 50%, 34% 1979. Tobacco fair to good, 97% harvested, 88% of normal. Potatoes fair to good, 92% harvested, 82% of normal. Hay good to fair, 2nd cutting 95% complete, 86% of normal, 3rd cutting 84% complete, 82% of normal. Pastures good to fair.

WISCONSIN: Temperatures 5° below normal. Cold front on 1st dropped maximum readings to the 40's by 3rd and 4th. Overnight lows dropped into 20's morning 5th, bringing first hard frost to most areas. Extremes: 79 and 22°.

(continued on backcover)

International Weather and Crop Summary

September 29 - October 5

HIGHLIGHTS:

USSR: Sowing winter grains in the south...cold and too wet in many areas.
Harvesting spring grains nearly complete in New Lands...generally favorable conditions.

EUROPE: Sowing winter grains in the north...favorable conditions.

CHINA: Winter wheat sowing season in the north*...too dry in some areas.
Major harvest season in central areas*...near-normal rainfall.

INDIA: Harvesting autumn rice in the north*...favorable weather.
Cotton flowering and setting bolls in central areas*...conditions too dry.

THAILAND: Wet season crops in vegetative development*...heavy showers continue.

AUSTRALIA: Winter wheat in early grain formation period*...showers in some areas but still very dry elsewhere.

ARGENTINA: Winter wheat crop in vegetative stage*...showers in Buenos Aires Province.

BRAZIL: Winter wheat in early grain formation period*...favorable weather.

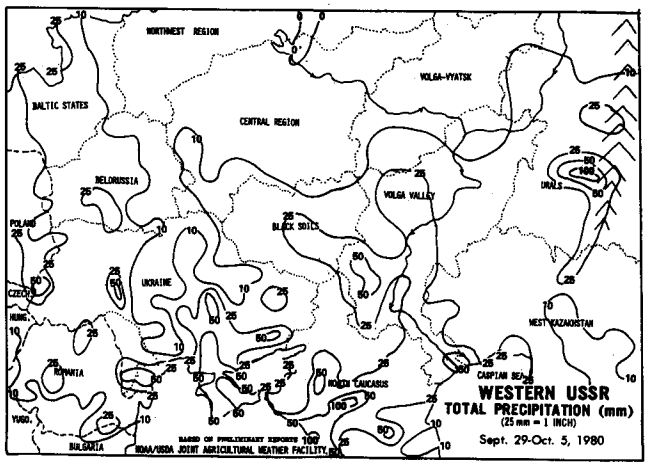
CANADA: Harvesting spring grains...dry, cool weather.

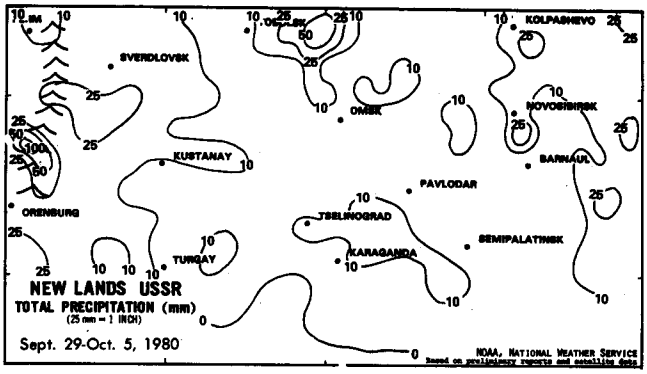
MEXICO: Seeding and transplanting west coast vegetables...rainy season ending with reservoir levels below normal.

*Based on normal crop calendar information.

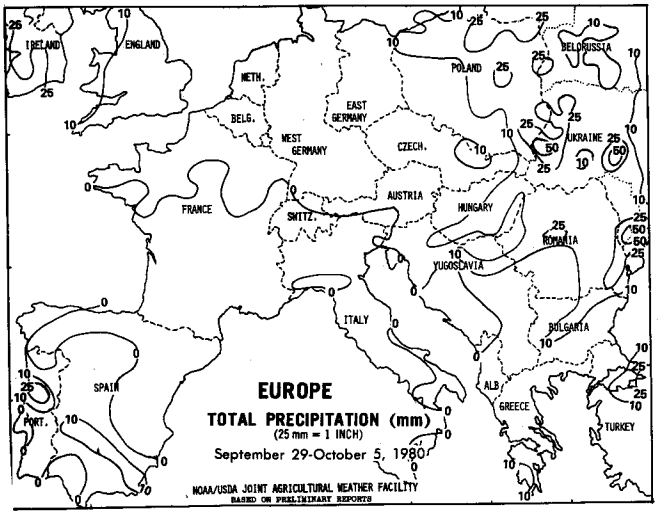
USSR. Above-normal rainfall continued in a pattern similar to the previous week's in European USSR, with increased amounts in parts of the south and west. Harvesting of late winter grains in the northwest and spring-sown crops across the south probably made little progress because breaks in the weather were of relatively short duration. Muddy fields in the southern Ukraine and the North Caucasus probably interfered with winter grain sowing as well. Temperatures remained below normal, with light frost occurring into the northern Ukraine. Warmer and drier weather will be needed for completion of wheat sowing and sufficient early growth for the plants to withstand the winter cold. Abundant rainfall in eastern portions of European USSR merely improved soil moisture reserves.

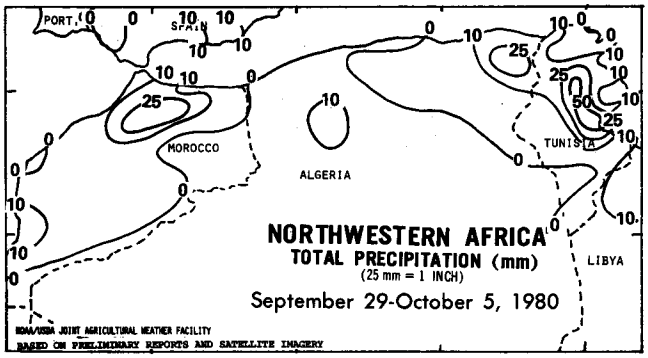
In the New Lands, above-normal rainfall was limited mostly to the extreme east and west, leaving generally favorable harvest weather over a broad area. Temperatures dropped below normal. A hard freeze hit much of the region, but ripened grains were sufficiently dry to avoid damage.





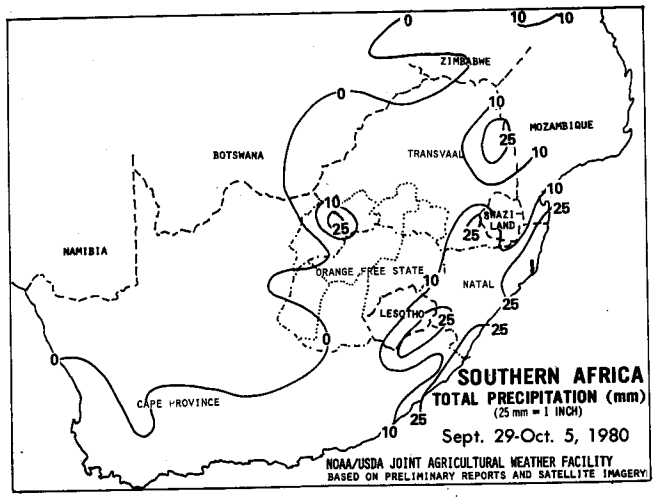
EUROPE. Favorable weather allowed fieldwork to continue unimpeded in most areas. A slow-moving front dropped light rainfall across the north, but above-normal totals were recorded as it approached the eastern portion of the region. However, even in the east, rains generally remained near normal with little impact on fieldwork. Temperatures held near normal across the north, rose above normal on the Iberian Peninsula, and dipped below normal in the southeast. The southwestern half of the Iberian Peninsula received light rain from a front early in the week, dampening soils somewhat. At the end of the week, another system spread moderate rainfall across the British Isles.

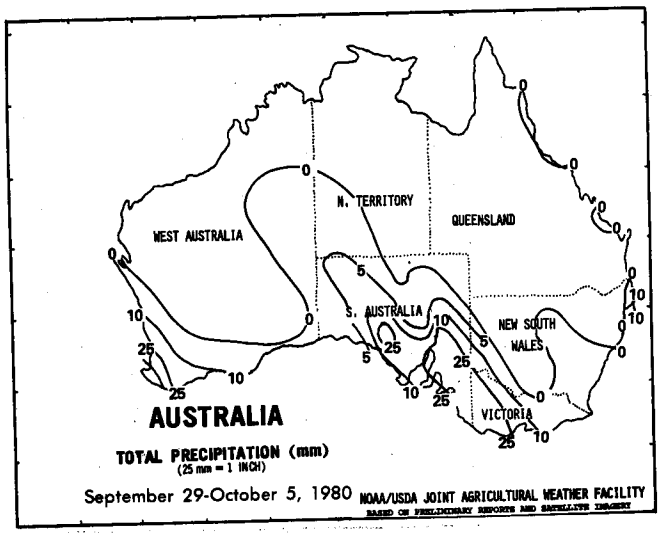




NORTHWESTERN AFRICA. As the winter grain-sowing season approached, autumn rains increased in many areas. The rainfall, which covered portions of crop areas in Morocco, Tunisia, and eastern Algeria, was the most substantial so far this season and provided at least an indication that a normal rainfall pattern might develop.

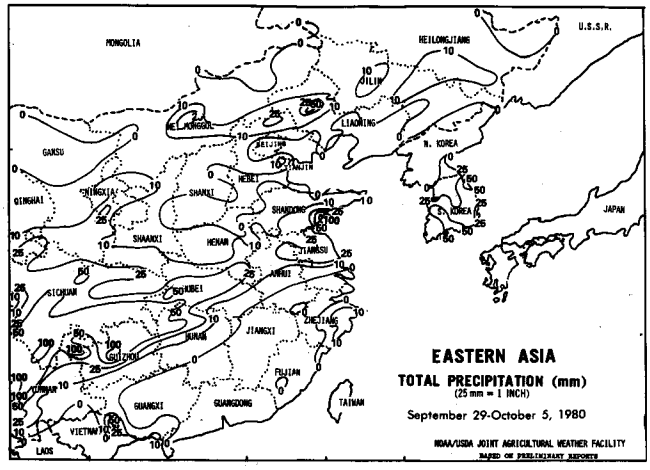
SOUTH AFRICA. A major portion of South Africa's maize crop is grown in the plateau region of the Transvaal and Orange Free State. The climate is dictated by a summer rainfall season in this region. Maize is usually planted in October and early season rainfall since mid-September has provided favorable conditions for sowing and emergence. During the first week in October, however, only scattered showers fell in this region.

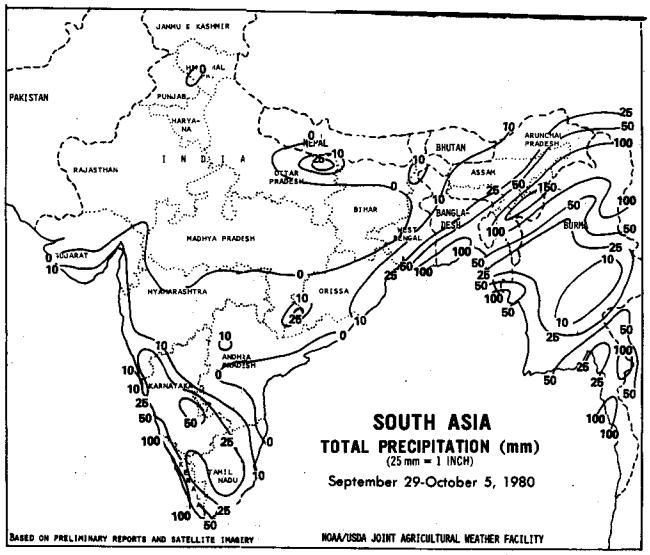




AUSTRALIA. Dry weather continues to plague the winter wheat areas of Queensland and New South Wales. Showers did occur along the southern portions of Victoria, and substantial rain fell in South Australia benefiting the crops in those areas. The heavy rain, which produced 25 to 50 mm in the southwestern tip of West Australia, missed the major portion of the winter wheat area in that State. The winter wheat crop has advanced to the reproductive stage, as well as the grain formation period in some areas. Soil moisture is in very short supply in Queensland and short in most of New South Wales and West Australia.

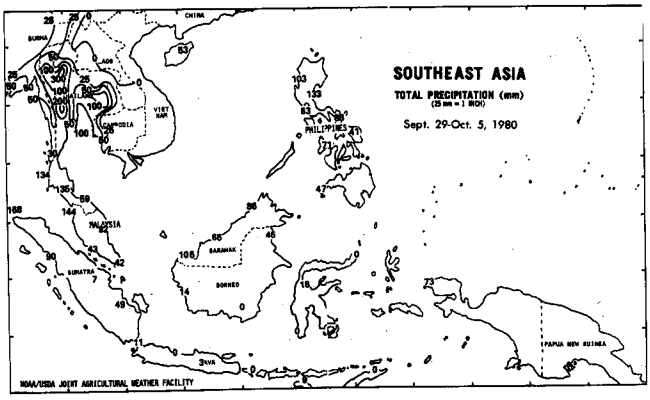
CHINA. A band of near-normal rainfall across the southern portion of the winter wheat belt maintained soil moisture, but areas to the north received little or no moisture. Rainfall just north of Beijung stayed mostly in the mountains. The dryest portion of the belt in recent weeks appears to be the northeastern coastal areas of Shandong and Hebei. Soils there are too dry for early wheat growth, but this is a minor production area. Mostly dry weather south of the Yangtze River favored late-season crops.

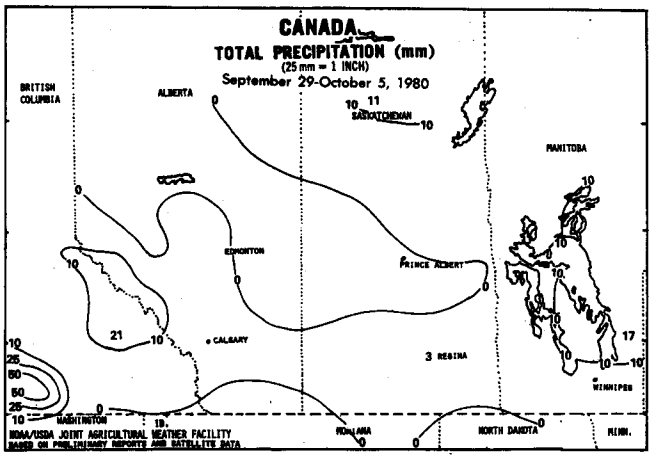




SOUTH ASIA. Much of northern India received no rainfall; only Bangladesh and the east saw continued widespread rains as a storm developed in the Bay of Bengal and moved off to the northeast. The dry weather favored harvesting of autumn rice, but soils were becoming too dry for sowing of winter wheat, which should begin soon. Most of the major cotton area in west central India continued to suffer from soil moisture deficits. Wet weather continued to the south in the peninsula, benefiting late-season crops.

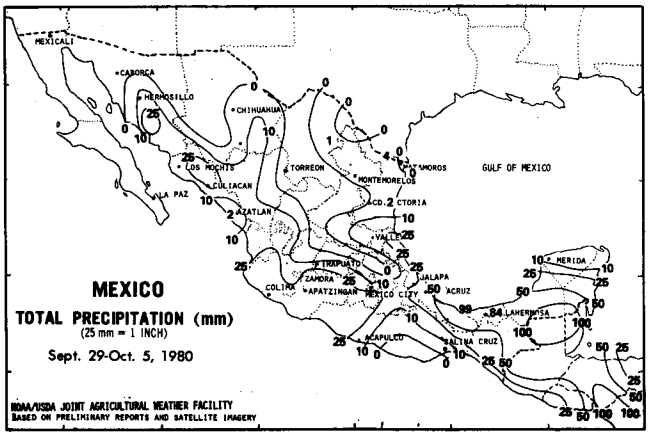
SOUTHEAST ASIA. Locally heavy rain produced above-average weekly totals in some northern provinces of Thailand as well as in the agriculturally productive Central Plains, north of Bangkok. The heavy showers have caused some rivers to overflow, waterlogging some fields. Some crop damage occurred due to flooding. The rains helped reservoir supplies, however. The shower activity is typical of the late monsoon pattern.

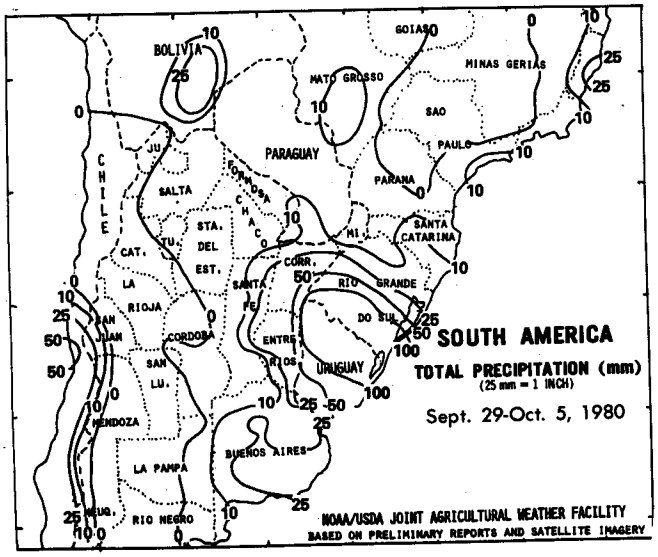




CANADA. Scattered light showers produced less than 10 mm of rain throughout the Canadian Prairies this week. The drier, cool weather aided late harvest activities. The major problem has been the delay in combining swathed fields due to the cold, damp weather. The quality of the late harvested grain has been reduced in some areas due to frost.

MEXICO. The rainy season is ending prematurely over the northwestern mountains and leaving some reservoirs abnormally low. Relatively little rain has fallen in the watersheds during the past few weeks. Showers continued to dot the west coast farming area improving soil moisture. The moisture interfered with field operations and stimulated diseases and weeds. Sunny weather benefited the cotton harvesting in the north and citrus in the northeast. Most of the Southern Plateau's corn belt had moderate rains; however, some northern fringes continued dry. Recent heavy showers from Veracruz to the central Yucatan Peninsula likely caused additional damage to corn, beans, and rice.





SOUTH AMERICA. A frontal system moved across Argentina and southern Brazil dropping above-normal amounts of rain on the crop areas of Buenos Aires, Entre Rios, and Santa Fe Provinces. This moisture was needed for winter wheat growth. The provinces of La Pampa and Cordoba remained dry. Very heavy rain fell in southern Rio Grande do Sul State in Brazil. Drier weather prevailed in northern portions of Brazil's wheat area. Conditions remained generally favorable for crop growth in Brazil; additional moisture is needed in Argentina.

CROP PROGRESS

FOR WEEK ENDING OCT 5, 1980

CORN
% HARVESTED

	1980	1979	AVG.
COLO	14	4	15
GA	91	80	71
ILL	39	9	16
IND	20	10	15
IOWA	23	8	16
KANS	55	35	35
KY	52	17	26
MICH	5	2	5
MINN	8	1	17
MO	65	27	38
NEBR	30	5	10
N C	82	67	71
OHIO	20	5	10
PA	13	3	6
S DAK	16	6	15
VA	60	45	47
WIS	4	2	4
17 STATES	29	12	18

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

CORN
% MATURE

	1980	1979	AVG.
COLO	76	65	87
GA	100	NA	NA
ILL	100	98	100
IND	95	90	85
IOWA	100	95	99
KANS	95	85	90
KY	98	90	90
MICH	80	53	65
MINN	96	68	91
MO	96	84	83
NEBR	95	85	90
N C	98	NA	NA
OHIO	98	90	90
PA	58	37	45
S DAK	95	98	100
VA	97	NA	NA
WIS	99	90	95
17 STATES	96	NA	NA
EXCL. STATES WITH NA	96	86	91

COTTON
% HARVESTED

	1980	1979	AVG.
ALA	24	2	13
ARIZ	5	10	8
ARK	38	5	13
CALF	1	6	NA
GA	53	15	16
LA	38	3	15
MISS	19	6	18
MO	46	17	15
N MEX	0	0	1
N C	30	11	9
OKLA	5	5	0
S C	39	13	18
TENN	50	1	16
TEX	28	14	19
14 STATES	23	10	NA
EXCL. STATES WITH NA	26	11	16

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

SOYBEAN
% HARVESTED

	1980	1979	AVG.
ALA	14	6	NA
ARK	5	2	5
GA	4	3	5
ILL	61	57	40
IND	40	20	25
IOWA	46	42	39
KANS	20	25	10
KY	17	8	12
LA	14	14	21
MICH	7	6	8
MINN	29	28	42
MISS	13	8	13
MO	26	25	15
NEBR	40	45	25
N C	4	NA	NA
OHIO	35	10	20
S C	1	0	0
TENN	5	1	4
18 STATES	29	NA	NA
EXCL. STATES WITH NA	30	25	23

SOYBEAN
% DROPPING LEAVES

	1980	1979	AVG.
ALA	64	46	NA
ARK	43	NA	NA
GA	34	NA	NA
ILL	98	95	95
IND	98	95	95
IOWA	99	95	99
KANS	75	NA	NA
KY	61	44	53
LA	58	46	NA
MICH	91	94	93
MINN	99	99	99
MISS	82	75	71
MO	60	58	53
NEBR	96	95	90
N C	19	11	NA
OHIO	98	90	95
S C	31	14	0
TENN	51	NA	NA
18 STATES	77	NA	NA
EXCL. STATES WITH NA	88	84	84

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

COTTON
% BOLLS OPENING

	1980	1979	AVG.
ALA	87	48	57
ARIZ	95	NA	NA
ARK	98	51	65
CALF	65	80	NA
GA	97	80	NA
LA	100	50	NA
MISS	100	92	90
MO	100	84	71
N MEX	45	40	45
N C	94	62	NA
OKLA	80	50	50
S C	97	84	78
TENN	95	41	53
TEX	61	48	NA
14 STATES	72	NA	NA
EXCL. STATES WITH NA	91	65	68

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

SORGHUM
% HARVESTED

	1980	1979	AVG.
COLO	4	3	7
KANS	25	25	20
MO	45	33	35
NEBR	50	10	25
OKLA	35	20	20
S DAK	22	10	26
TEX	78	70	72
7 STATES	50	39	41

THESE 7 STATES PRODUCED 92% OF THE 1979 SORGHUM CROP.

SORGHUM
% MATURE

	1980	1979	AVG.
COLO	81	74	73
KANS	60	70	70
MO	83	80	78
NEBR	96	80	90
OKLA	85	80	75
S DAK	79	NA	NA
TEX	87	81	NA
7 STATES	79	NA	NA
EXCL. STATES WITH NA	74	74	76

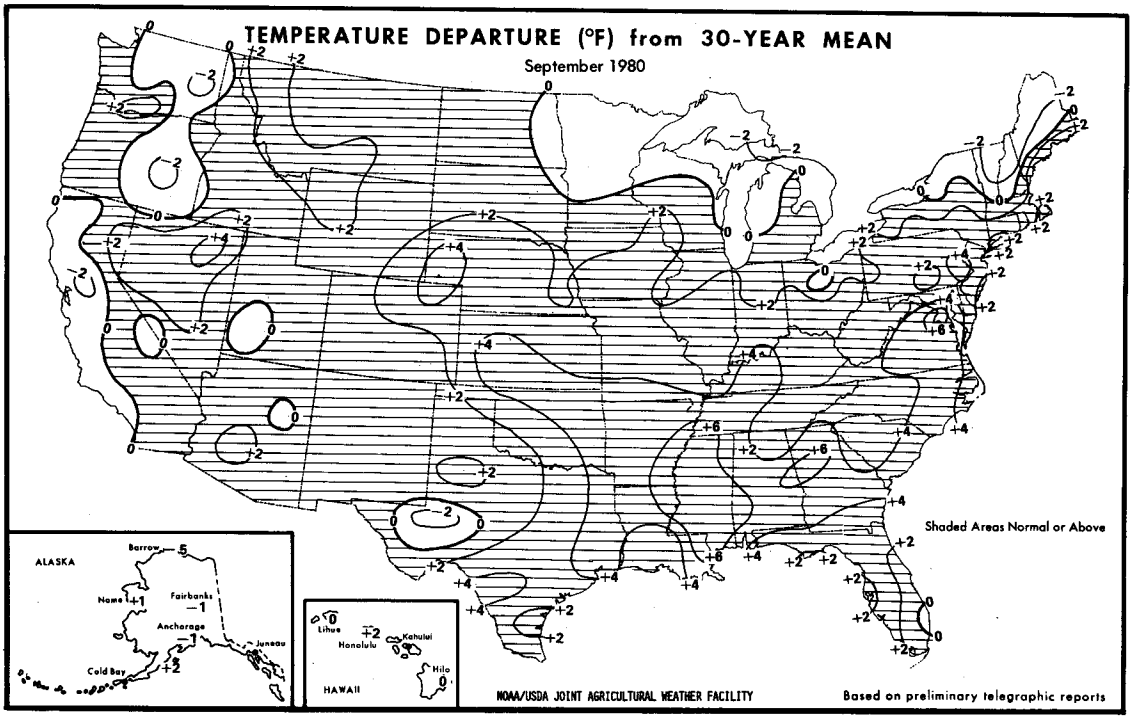
NA = NOT AVAILABLE

RICE
% HARVESTED

	1980	1979	AVG.
ARK	57	54	61
CALF	10	22	NA
LA	95	94	96
MISS	80	63	63
TEX	100	100	100
5 STATES	65	65	NA
EXCL. STATES WITH NA	77	74	78

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

(continued on backcover)



September Weather Summary

HIGHLIGHTS: Excessively wet weather in the northern Corn Belt finally ended in the fourth week of the month and allowed the drying process to start. Tropical Storm Danielle spread torrential rains early in the month from southern Louisiana to western Texas. More than 10 inches flooded some areas in north central Texas. As the month progressed, incursions of cold air became more frequent and moved further south, displacing the hot, muggy air which had persisted throughout the summer. As cold air moved slowly through the South during the last 10 days of the month, torrents of heavy rain were unleashed from southwestern Texas to the Carolinas. On the last day of September the heat wave of 1980 ended.

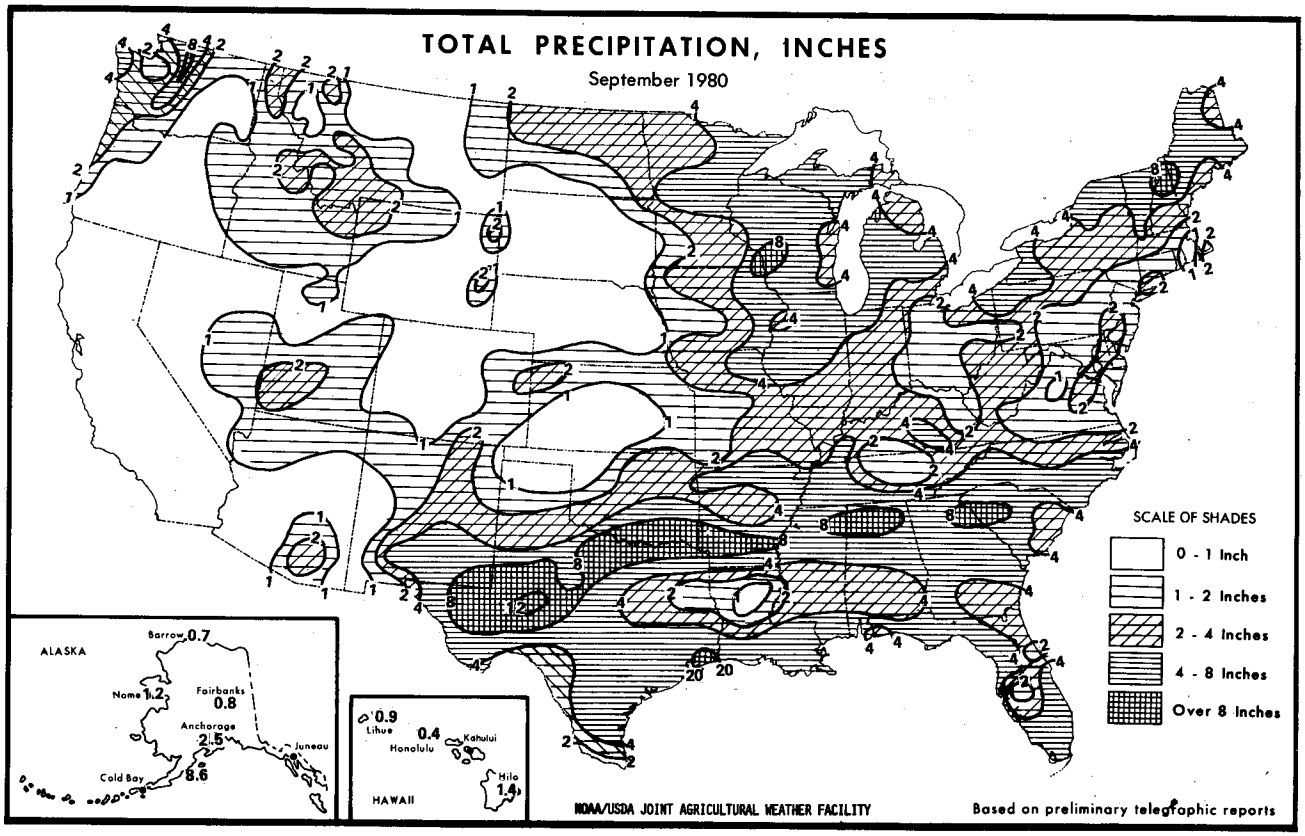
FIRST WEEK...As a high pressure system moved off the east coast, warm, moist air from the Gulf of Mexico flowed northward and intensified the heat wave from the central Plains eastward. A cold front, trailing southward into the Plains, first brought light showers to the northern Plains and then, as it encountered the moist air, triggered heavy showers and thunderstorms in the northern Mississippi Valley. More than 5 inches of rain deluged parts of Wisconsin. Late in the week, Tropical Storm Danielle formed in the Gulf of Mexico and spread heavy rain from southern Louisiana to the central Texas coast and inland to the Austin-San Antonio area.

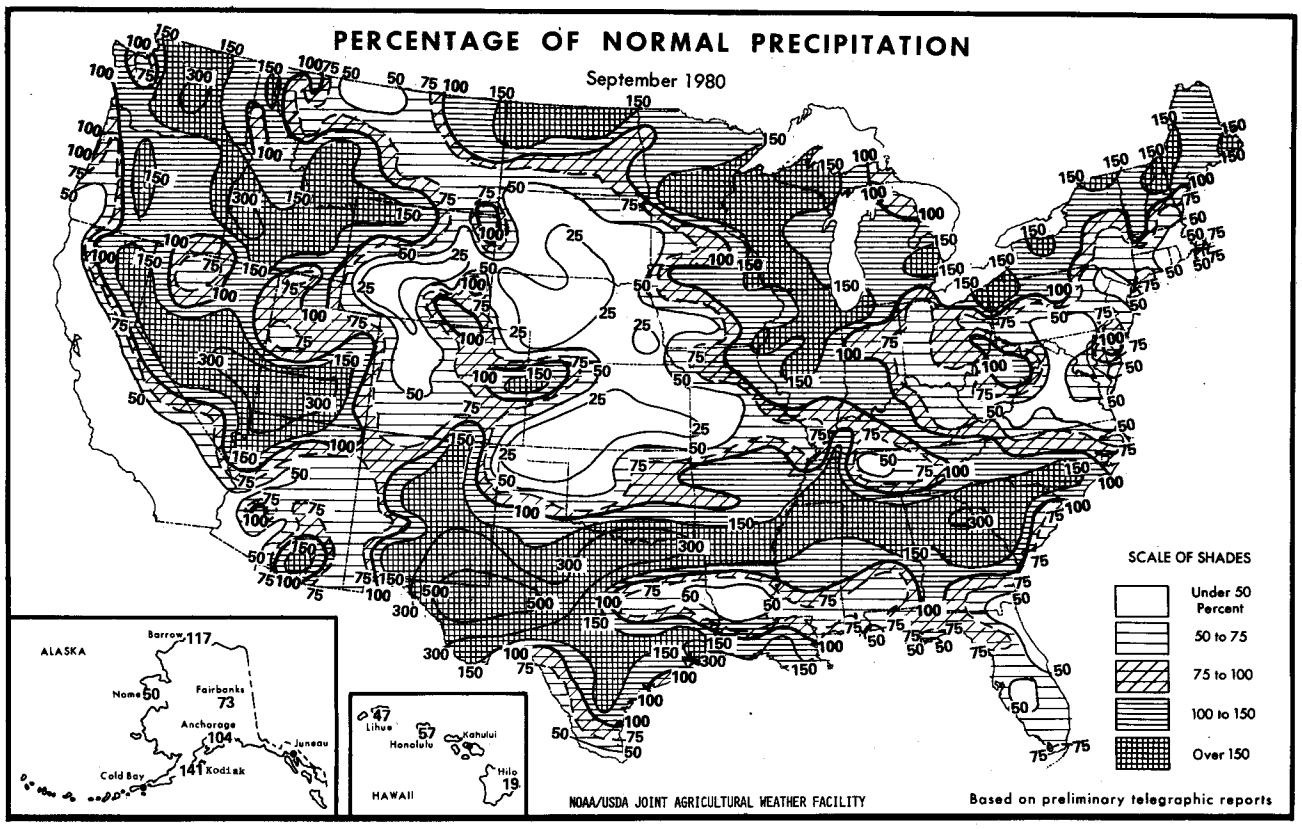
SECOND WEEK...The cold front moved through the Great Lakes and New England touching off light showers east of the Lakes. Very warm air rapidly displaced the cool air in the northern Plains, and temperatures rose to 100° as far north as South Dakota. The remnants of Tropical Storm Danielle carried torrential rain to west central Texas and New Mexico. Downpours of more than 10 inches flooded parts of this normally dry area. The moisture was helpful to some of the potential winter grain areas, but some crops were washed out. Elsewhere, another cold front moved through the northern Plains and on through New England. Showers were heavy from parts of North Dakota through Wisconsin. The persistently wet weather in Wisconsin began to cause disease in the previously healthy corn crop.

THIRD WEEK...Invasions of cool air moved into the northern Plains with great frequency as this first month of fall progressed. A new cold front pushed through the Plains to central Texas and significantly lowered temperatures behind it. The rain pattern was wide along and ahead of this front, and it wet most of eastern United States. Moderate rain again fell in Wisconsin and was substantial from Michigan to southeastern Texas. The heat wave held over most of the week from Oklahoma to Georgia and to the mid-Atlantic States.

FOURTH WEEK...A much cooler mass of air moved southward and eastward early in the week followed by still another surge at midweek. However, the rain was relatively light in the Great Lakes area, allowing Wisconsin to begin drying out. The determined cold air definitely brought autumn to the northern States, but the hot, muggy air of the South dug in for a final stand from southwestern Texas to the Carolinas. Torrents of rain resulted from this battle of cold against hot, but by the end of the week, the cold air was moving relentlessly southward.

The rain continued from Texas to the Carolinas through the end of the month on Tuesday but stopped by September's end. The cold air managed to push all the way to the gulf coast and northern Florida. The great heat wave of 1980, which began in mid-June, ended on the last day of the month.


TOTAL PRECIPITATION, INCHES
September 1980
SCALE OF SHADES
0 - 1 Inch
1 - 2 Inches
2 - 4 Inches
4 - 8 Inches
Over 8 Inches
ALASKA
Barrow 0.7
Nome 1.2
Fairbanks 0.8
Anchorage 2.5
Juneau
Cold Bay 8.6
HAWAII
Lihue 0.9
Honolulu 0.4
Kahului
Hilo 1.4
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports


PERCENTAGE OF NORMAL PRECIPITATION
September 1980
SCALE OF SHADES
Under 50 Percent
50 to 75
75 to 100
100 to 150
Over 150
ALASKA
Barrow 117
Nome 50
Fairbanks 73
Anchorage 104
Juneau
Cold Bay 141
Kodiak
HAWAII
Lihue 47
Honolulu 57
Kahului
Hilo 19
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports

Temperature and Precipitation Data for September 1980

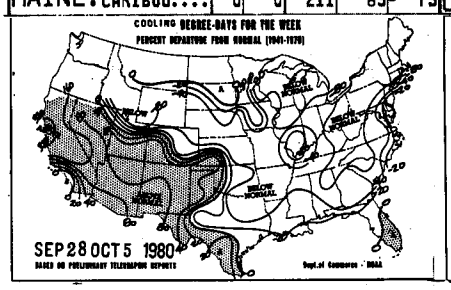
States and Stations	Temperature °F Average	Temperature °F Departure	Precipitation Inches Total	Precipitation Inches Departure
ALA.Birmingham. . .	78	+ 4	5.3	+ 1.7
Moblie.	82	+ 4	5.9	- .7
Montgomery. . . .	81	+ 5	3.1	- 1.3
ALASKA.Anchorage. .	47	- 1	2.5	+ .1
Barrow.	25	- 5	.7	+ .1
Fairbanks	43	- 1	.8	- .3
Juneau.	--	--	--	---
Kodiak.	52	+ 2	8.6	+ 2.5
Nome.	43	+ 1	1.2	- 1.2
ARIZ.Flagstaff. . .	60	+ 2	.7	- 1.0
Phoenix	87	+ 3	.1	- .6
Tucson.	81	+ 1	2.9	+ 1.5
Winslow	68	- 2	.6	- .3
Yuma.	88	+ 1	0	- .2
ARK.Fort Smith. . .	78	+ 4	3.2	- .1
Little Rock . . .	78	+ 5	3.7	+ .2
CALIF.Bakersfield .	77	0	0	- .1
Eureka.	57	0	.1	- .6
Fresno.	76	+ 2	0	- .1
Los Angeles . . .	67	- 2	T	- .1
Red Bluff	75	0	.1	- .2
San Diego	70	0	T	- .1
San Francisco . .	63	- 1	T	- .2
Stockton.	71	- 1	0	- .2
COLO.Denver	66	+ 3	.6	- .5
Grand Junction. .	68	+ 1	.6	- .2
Pueblo.	67	+ 1	.5	- .3
CONN.Bridgeport . .	68	+ 1	2.4	- .5
Hartford.	65	+ 2	1.4	- 2.2
D.C.Washington. . .	77	+ 6	1.9	- 1.2
FLA.Apalachicola. .	80	+ 1	3.5	- 5.5
Daytona Beach . . .	80	0	1.8	- 5.3
Ft. Myers	85	+ 3	4.6	- 4.1
Jacksonville. . .	81	+ 3	3.0	- 4.8
Key West.	84	+ 1	6.6	- .7
Lakeland.	83	+ 3	1.5	- 4.6
Miami	82	0	5.6	- 3.1
Orlando	82	+ 2	3.7	- 3.5
Tallahassee . . .	81	+ 3	6.2	- .4
Tampa	81	0	4.1	- 2.3
W.Palm Beach. . .	81	- 1	6.8	- 3.1
GA.Atlanta.	79	+ 7	4.8	+ 1.6
Augusta	77	+ 3	5.1	+ 1.8
Macon	81	+ 5	5.0	+ 1.9
Savannah.	80	+ 4	5.8	+ .2
HAWAII.Hilo	76	0	1.4	- 6.0
Honolulu.	82	+ 2	.4	- .3
Kahului	--	--	--	---
Lihue	79	0	.9	- 1.0
IDAHO.Boise	63	0	1.6	+ 1.2
Lewiston.	64	+ 1	1.0	+ .1
Pocatello	59	0	1.3	+ .7
ILL.Cairo	75	+ 3	2.4	- 1.1
Chicago	66	+ 2	5.7	+ 2.7
Moline.	66	+ 1	3.8	0
Peoria.	68	+ 2	4.1	+ .5
Rockford.	64	+ 1	6.1	+ 2.1
Springfield . . .	69	+ 2	5.0	+ 1.7
IND.Evansville. . .	72	+ 3	2.5	- .3
Ft. Wayne	66	+ 1	2.5	- .1
Indianapolis. . .	68	+ 2	3.3	+ .4
South Bend. . . .	66	+ 2	5.6	+ 2.5
IOWA.Burlington . .	66	+ 1	7.2	+ 3.5
Des Moines. . . .	67	+ 3	1.0	- 2.1
Dubuque	64	+ 2	6.5	- 1.9
Sioux City. . . .	64	+ 1	1.4	- 1.4
KANS.Concordia. . .	70	+ 2	1.3	- 1.8
Dodge City. . . .	74	+ 5	T	- 1.7
Goodland.	67	+ 2	2.2	+ .9
Topeka.	70	+ 2	1.2	- 2.1
Wichita	75	+ 4	.7	- 3.0
KY.Lexington. . . .	71	+ 2	2.5	- .2
Louisville. . . .	74	+ 5	3.2	+ .3
LA.Baton Rouge. . .	80	+ 2	7.7	+ 3.9
Lake Charles. . .	81	+ 3	5.8	+ 1.7
New Orleans . . .	84	+ 6	6.3	+ .7
Shreveport. . . .	82	+ 5	1.6	- 1.5
MAINE.Caribou . . .	50	- 4	3.5	0
Portland.	62	+ 3	3.0	- .1
MD.Baltimore. . . .	72	+ 3	1.0	- 2.1
MASS.Boston	67	+ 2	.8	- 2.4
Chatham	64	0	2.4	- .6
MICH.Alpena	57	+ 1	2.5	- .8
Detroit	64	0	2.9	+ .7
Flint	61	0	4.8	+ 2.3
Grand Rapids. . .	63	+ 1	4.6	+ 1.3
Houghton Lake . .	57	0	3.8	+ .6
Lansing	62	0	3.2	+ .6
Marquette	53	- 1	6.9	+ 2.9
Muskegon.	61	- 1	4.3	+ .7
S. Ste. Marie . .	52	- 3	3.3	- .6
MINN.Duluth	53	- 1	6.6	+ 3.5
Internatl Falls .	53	0	4.1	+ .8
Minneapolis . . .	60	0	3.7	+ 1.0
Rochester	60	+ 1	3.0	- .1
St. Cloud	56	- 2	6.0	+ 3.3
MISS.Jackson. . . .	82	+ 6	3.2	+ .2
Meridian.	81	+ 6	3.6	+ .3
MO.Columbia	70	+ 2	1.9	- 2.5
Kansas City . . .	70	+ 2	1.6	- 2.6
St. Louis	73	+ 3	3.1	+ .2
Springfield . . .	73	+ 4	1.9	- 2.2
MONT.Billings . . .	62	+ 3	.8	- .6
Glasgow	58	+ 1	.9	0
Great Falls . . .	58	+ 1	1.0	- .2
Havre	57	0	.5	- .6
Helena.	57	+ 1	2.6	+ 1.6
Kalispell	56	+ 3	.7	- .4
Miles City. . . .	61	+ 1	.8	- .4
Missoula.	57	+ 2	.8	- .3
NEBR.Grand Island .	67	+ 3	.8	- 1.7
Lincoln	67	+ 1	.3	- 2.6
Norfolk	65	+ 2	.9	- 1.5
N.Platte.	64	+ 2	.3	- 1.7
Omaha	67	+ 3	1.4	- 1.8
Valentine	64	+ 3	.4	- 1.1
NEV.Ely	58	+ 1	1.7	+ 1.1
Las Vegas	81	+ 1	.2	- .1
Reno.	63	+ 3	.5	+ .3
Winnemucca. . . .	61	+ 2	.2	- .1
N.H.Concord	58	- 2	2.2	- .9
N.J.Atlantic City .	68	+ 1	1.7	- 1.3
Trenton	70	+ 3	2.1	- 1.1
N.MEX.Albuquerque .	70	0	1.8	+ 1.0
Roswell	72	+ 2	6.6	+ 5.1
N.Y.Albany.	63	+ 1	2.2	- .9
Binghamton. . . .	62	+ 2	2.8	- .2
Buffalo	62	0	4.5	+ 1.2
New York.	70	+ 2	1.2	- 2.0
Rochester	64	+ 2	3.6	+ 1.2
Syracuse.	63	0	3.5	+ .8
N.C.Asheville . . .	70	+ 3	4.4	+ .8
Charlotte	75	+ 3	5.4	+ 1.9
Greensboro. . . .	73	+ 3	3.0	- .6
Hatteras.	76	+ 2	5.1	- .7
Raleigh	75	+ 4	3.8	0
Wilmington. . . .	79	+ 4	6.0	+ .4
N.DAK.Bismarck. . .	58	0	1.1	- .2
Fargo	57	- 1	2.5	+ .7
Williston	58	+ 1	2.2	+ 1.0
OHIO.Akron-Canton .	66	+ 2	1.8	- .8
Cincinnati. . . .	69	+ 1	1.8	- .8
Cleveland	65	+ 1	3.1	+ .3
Columbus.	68	+ 3	1.9	- .5
Dayton.	69	+ 3	1.5	- .8
Toledo.	64	0	1.6	- .8
Youngstown. . . .	63	0	4.4	+ 1.8
OKLA.Okla. City . .	76	+ 3	2.2	- 1.4
Tulsa	78	+ 5	3.5	- .6
OREG.Astoria. . . .	59	+ 1	2.5	- .3
Burns	56	- 2	.6	+ .1
Medford	65	+ 1	.2	- .4
Pendleton	63	- 1	.6	0
Portland.	64	+ 2	1.6	0
Salem	62	0	1.1	- .4
PA.Allentown. . . .	70	+ 5	2.0	- 1.6
Erie.	64	+ 3	5.5	+ 1.9
Harrisburg. . . .	68	+ 1	1.1	- 1.7
Philadelphia. . .	72	+ 4	2.8	- .2
Pittsburgh. . . .	67	+ 3	1.3	- 1.2
Scranton.	66	+ 3	1.4	- 1.5
R.I. Providence . .	65	+ 2	.9	- 2.4
S.C. Charleston . .	80	+ 5	2.6	- 2.6
Columbia.	77	+ 2	7.3	+ 3.0
Greenville. . . .	74	+ 2	5.8	+ 2.0
S.D. Aberdeen . . .	60	+ 1	.9	- .8
Huron	62	+ 1	.5	- 1.3
Rapid City. . . .	62	+ 1	.5	- .7
Sioux Falls . . .	62	+ 1	.8	- 2.1
TENN.Chattanooga. .	74	+ 2	4.6	+ .9
Knoxville	74	+ 2	2.4	- .4
Memphis	81	+ 7	5.3	+ 2.3
Nashville	76	+ 4	1.1	- 2.0
TEX.Abilene	78	+ 2	6.3	+ 4.0
Amarillo.	71	+ 1	1.6	- .3
Austin.	82	+ 3	5.7	+ 2.0
Beaumont.	83	+ 4	22.0	+16.7
Brownsville . . .	85	+ 3	1.5	- 3.7
Corpus Christi. .	82	+ 1	6.0	+ 1.1
Del Rio	84	+ 4	1.9	- 1.2
El Paso	76	+ 1	1.9	+ .7
Fort Worth. . . .	80	+ 2	6.5	+ 3.3
Galveston	83	+ 3	5.1	- .5
Houston	83	+ 4	6.0	+ 1.3
Lubbock	73	+ 2	3.6	+ 1.4
Midland	73	- 2	9.7	+ 8.2
San Angelo. . . .	77	0	11.0	+ 8.3
San Antonio . . .	84	+ 5	5.1	+ 1.4
Victoria.	82	+ 2	6.1	+ 1.5
Waco.	81	+ 2	2.1	- 1.1
Wichita Falls . .	78	+ 1	10.2	+ 7.2
UTAH.Blanding . . .	65	+ 2	1.0	0
Salt Lake City. .	66	+ 1	.7	0
VT.Burlington . . .	58	- 1	4.4	+ 1.3
VA.Lynchburg. . . .	73	+ 5	1.8	- 1.5
Norfolk	76	+ 4	1.5	- 2.7
Richmond.	75	+ 5	2.4	- 1.2
Roanoke	72	+ 4	1.7	- 1.7
WASH.Colville . . .	58	- 1	1.1	+ .3
Omak.	62	0	1.4	+ .9
Quillayute. . . .	57	0	7.7	+ 2.5
Seattle-Tacoma. .	60	0	1.4	- .6
Spokane	58	- 2	.8	0
Walla Walla . . .	66	0	1.4	+ .5
Yakima.	63	+ 2	.5	+ .2
W.VA.Beckley. . . .	66	+ 3	1.6	- 1.8
Charleston. . . .	70	+ 2	2.4	- .5
Huntington. . . .	71	+ 3	1.9	- 1.0
Parkersburg . . .	69	+ 2	2.0	- .8
WISC.Green Bay. . .	59	0	3.4	+ .2
La Crosse	64	+ 2	8.5	+ 5.1
Madison	60	0	7.8	+ 4.4
Milwaukee	61	0	3.6	+ .6
WYO.Casper.	60	+ 1	.1	- .8
Cheyenne.	60	+ 2	1.0	0
Lander.	60	+ 2	.1	- 1.0
Sheridan.	59	+ 1	1.3	0
P.R.San Juan. . . .	85	+ 4	5.0	- 1.1

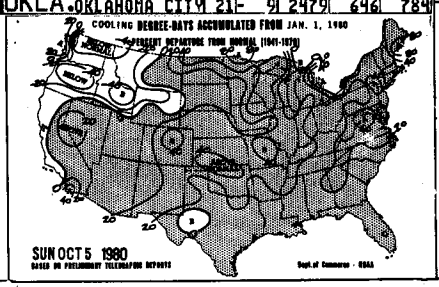
Based on 1941-70 normals

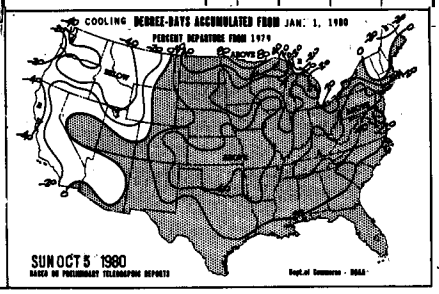
COOLING DEGREE DAYS (BASE 65°) FOR WEEK ENDING OCT. 5, 1980.

* BASED ON 1941-70 NORMALS. ACCUMULATIONS FROM JANUARY 1, 1980.

STATES AND STATIONS	WEEKLY TOTAL	WEEKLY DEPARTURE*	SEASONAL ACCUMULATION + TOTAL	SEASONAL ACCUMULATION + DEPARTURE*	SEASONAL ACCUMULATION + DEPARTURE FROM 1979
ALA. BIRMINGHAM	7	-29	2177	298	534
MOBILE	43	-15	2680	236	376
MONTGOMERY	10	-36	2375	222	417
ARIZ. FLAGSTAFF	0	0	334	194	249
PHOENIX	171	82	3872	551	38
TUCSON	124	54	2844	176	16
WINSLOW	10	-1	1139	-59	-45
YUMA	174	61	4187	308	112
ARK. FORT SMITH	9	-24	2316	345	744
LITTLE ROCK	15	-14	2486	600	638
CALIF. BAKERSFIELD	140	93	2148	50	458
EUREKA	2	-2	4	-4	11
FRESNO	128	95	1945	313	250
LOS ANGELES	23	-2	494	-43	286
RED BLUFF	124	84	1713	142	437
SAN DIEGO	27	0	920	263	203
SAN FRANCISCO	47	-40	102	-11	-68
STOCKTON	97	72	1397	159	345
COLO. DENVER	9	9	950	330	293
GRAND JUNCTION	13	-4	1183	-47	-69
PUEBLO	5	-2	1229	239	326
CONN. BRIDGEPORT	2	-5	945	210	216
HARTFORD	0	0	787	203	-19
DEL. WILMINGTON	9	0	1333	346	349
D.C. WASHINGTON	23	6	1973	573	516
FLA. APALACHICOLA	64	-3	2417	-46	142
DAYTONA BEACH	85	-4	2734	153	96
FORT MYERS	111	11	3539	378	-51
JACKSONVILLE	59	-7	2447	248	342
KEY WEST	126	11	4027	174	19
LAKELAND	84	-3	2934	39	-23
MIAMI	132	28	3486	144	93
ORLANDO	96	10	2941	115	-62
TALLAHASSEE	44	-17	2458	-35	372
TAMPA	86	-3	2975	-23	-7
WEST PALM BEACH	114	12	3227	68	174
GA. ATLANTA	11	-15	2370	814	653
AUGUSTA	7	-27	2150	206	374
MACON	15	-22	2221	301	305
SAVANNAH	23	-24	2501	285	256
IDAHO. BOISE	0	-7	511	-203	-238
LEWISTON	5	-7	563	-94	-401
POCATELLO	0	-4	225	-221	-254
ILL. CAIRO	20	-5	2273	501	566
MOLINE	0	-7	1062	179	177
PEORIA	1	-6	1186	229	306
ROCKFORD	0	-5	929	216	266
SPRINGFIELD	8	-2	1452	349	287
IND. EVANSVILLE	10	-5	1672	313	462
FORT WAYNE	4	-3	844	99	182
INDIANAPOLIS	4	-4	1142	175	280
SOUTH BEND	1	-3	1000	307	220
IOWA. BURLINGTON	1	-6	1156	176	244
DES MOINES	6	-1	1262	346	293
DUBUQUE	2	-4	899	286	307
SIOUX CITY	2	-5	1071	142	206
KANS. CONCORDIA	24	11	1735	448	482
DODGE CITY	22	8	2006	610	725
GOODLAND	2	-5	1136	214	203
TOPEKA	8	-6	1810	457	562
WICHITA	11	-9	2286	638	689
KY. LEXINGTON	0	-14	1328	132	381
LOUISVILLE	9	-6	1676	413	473
LA. BATON ROUGE	38	-21	2670	219	429
LAKE CHARLES	47	-18	2614	46	330
NEW ORLEANS	66	-2	3030	500	338
SHREVEPORT	29	-24	2774	353	764
MAINE. CARIBOU	0	0	211	83	-73
PORTLAND	0	0	468	216	155
MD. BALTIMORE	13	3	1407	305	290
MASS. BOSTON	0	-1	894	233	119
MICH. ALPENA	0	0	357	146	92
DETROIT	3	-4	672	20	166
FLINT	0	-3	465	20	27
GRAND RAPIDS	0	-4	667	85	72
HOUGHTON LAKE	0	0	290	40	26
LANSING	1	-2	671	130	110
MARQUETTE	0	0	208	79	53
MUSKEGON	0	-4	488	11	116
S. STE. MARIE	0	0	96	-43	-49
MINN. DULUTH	0	0	241	65	72
INTERNATL FALLS	0	0	327	151	196
MINNEAPOLIS	0	0	776	186	125
ROCHESTER	0	0	675	203	65
ST. CLOUD	0	0	442	16	118
MISS. JACKSON	32	-14	2578	342	705
MERIDIAN	27	-13	2406	253	524
MO. COLUMBIA	6	-8	1822	560	695
KANSAS CITY	4	-10	1721	454	575
ST. LOUIS	11	-7	1907	448	370
SPRINGFIELD	3	-14	1850	493	790
MONT. BILLINGS	22	22	670	172	-41
GLASGOW	0	0	499	61	-33
GREAT FALLS	3	0	302	-38	-93
HAVRE	1	-1	345	-50	-163
HELENA	0	-1	167	-89	-155
KALISPELL	0	0	65	-52	-193
MILES CITY	0	-1	820	68	18
MISSOULA	0	-1	125	-63	-265
NEBR. GRAND ISLAND	4	-3	1338	307	362
LINCOLN	4	-3	1552	413	558
NORFOLK	2	-2	1206	288	260
NORTH PLATTE	0	-2	1052	246	190
OMAHA	2	-2	1374	241	442
VALENTINE	2	-2	1025	286	248
NEV. ELY	0	0	217	10	9
LAS VEGAS	124	65	3035	169	222
RENO	3	-3	400	-69	-4
WINNEMUCCA	3	-3	478	-72	-115
N.H. CONCORD	0	0	450	101	63
N.J. ATLANTIC CITY	5	-4	751	-113	-87
TRENTON	7	0	1288	324	365
N. MEX. ALBUQUERQUE	17	8	1519	203	28
ROSWELL	26	10	2061	515	436
N.Y. ALBANY	0	0	561	-13	-58
BINGHAMTON	0	0	516	147	159
BUFFALO	1	-1	595	158	43
NEW YORK	5	-5	1276	232	243
ROCHESTER	2	-2	718	184	139
SYRACUSE	1	-1	687	136	114
N.C. ASHEVILLE	1	-6	1166	303	378
CHARLOTTE	3	-2	1715	443	372
GREENSBORO	3	-3	1434	98	276
HATTERAS	2	-8	1685	195	189
RALEIGH	2	-12	1742	361	507
WILMINGTON	3	-4	2230	329	329
N. DAK. BISMARCK	1	1	500	13	135
FARGO	1	1	580	107	76
WILLISTON	1	1	600	178	185
OHIO. AKRON-CANTON	0	-7	741	107	187
CINCINNATI	0	-11	1164	92	341
CLEVELAND	0	-7	675	63	-23
COLUMBUS	1	-6	1008	201	220
DAYTON	0	-7	1104	175	266
TOLEDO	3	-4	740	56	160
YOUNGSTOWN	0	0	464	-54	-23
OKLA. OKLAHOMA CITY	21	-9	2479	646	784
TULSA	22	-9	2800	903	766
OREG. ASTORIA	0	-8	29	15	-2
BURNS	0	0	106	-189	-259
MEDFORD	26	-25	516	-46	-138
PENDLETON	11	-10	398	258	252
PORTLAND	11	-11	270	-30	-190
SALEM	10	-10	129	-114	-90
PA. ALLENTOWN	3	-4	1174	402	371
ERIE	3	-2	575	202	112
HARRISBURG	3	-4	1183	160	360
PHILADELPHIA	1	-7	1410	311	321
PITTSBURGH	0	-1	876	230	263
SCRANTON	0	-7	835	228	214
R.I. PROVIDENCE	0	0	789	257	159
S.C. CHARLESTON	23	-20	2258	256	171
COLUMBIA	5	-33	1923	-106	-284
GREENVILLE	5	-19	1710	157	428
S. DAK. ABERDEEN	1	1	663	97	161
HURON	3	-3	748	37	-35
RAPID CITY	3	-4	665	7	117
SIOUX FALLS	5	0	793	66	69
TENN. CHATTANOOGA	1	-23	1778	168	362
KNOXVILLE	1	-23	1814	294	481
MEMPHIS	16	-16	2683	207	686
NASHVILLE	6	-19	1900	235	564
TEXAS. ABILENE	38	-7	2784	412	482
AMARILLO	22	-6	1666	256	534
AUSTIN	61	-5	3029	281	652
BEAUMONT	67	-2	2640	-28	245
BROWNSVILLE	104	-8	3756	342	534
CORPUS CHRISTI	75	-12	3191	-41	-71
DEL RIO	82	-8	3411	232	484
EL PASO	58	-27	2487	424	391
FORT WORTH	24	-29	3142	662	808
GALVESTON	85	-3	2760	-30	359
HOUSTON	66	-4	3127	432	750
LUBBOCK	31	-12	2123	498	325
MIDLAND	21	-20	2060	-114	-71
SAN ANGELO	33	-17	2526	-64	349
SAN ANTONIO	80	-20	3155	318	467
VICTORIA	72	-5	3043	143	450
WACO	26	-37	2944	222	814
WICHITA FALLS	21	-25	2854	333	598
UTAH. SALT LAKE CITY	1	-6	990	-68	-277
VT. BURLINGTON	0	0	503	107	-15
VA. LYNCHBURG	5	-6	1319	227	348
NORFOLK	20	-3	1788	353	406
RICHMOND	4	-13	1681	328	337
ROANOKE	2	-7	1285	260	390
WASH. QUILLAYUTE	0	0	11	-3	-4
SEATTLE-TACOMA	0	0	57	-72	-114
SPOKANE	0	0	228	-164	-268
WALLA WALLA	1	-12	654	-209	-574
YAKIMA	3	-3	371	-108	-198
W. VA. BECKLEY	0	-7	619	129	221
CHARLESTON	0	-10	1128	66	246
HUNTINGTON	1	-11	1279	180	298
PARKERSBURG	0	-11	1074	40	251
WIS. GREEN BAY	0	0	451	-65	-72
LACROSSE	0	-5	1155	-454	-574
MADISON	0	0	630	-176	-193
MILWAUKEE	0	0	483	-39	-44
WYO. CASPER	3	3	424	-34	9
CHEYENNE	2	2	415	-88	-63
LANDER	1	1	423	-40	-13
SHERIDAN	1	1	353	-93	-35





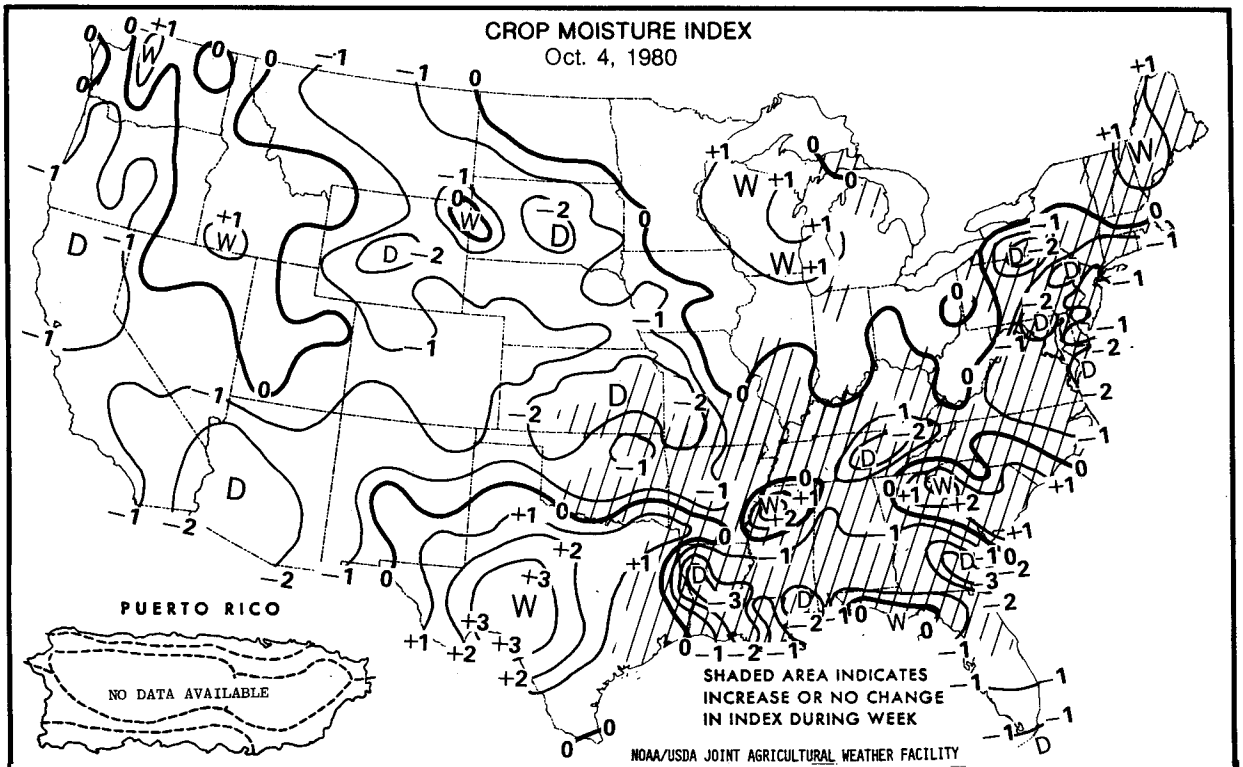


Heating Degree Days (Base 65° F.)

September 1980

ALA.Birmingham	7	MAINE,Caribou	425	OKLA.Okla. City	23
Mobile	0	Portland	163	Tulsa	13
Montgomery	3	MD.Baltimore	20	OREG.Astoria	184
ALASKA,Anchorage	541	MASS.Boston	72	Burns U.	274
Barrow	1191	Chatham	78	Medford	54
Fairbanks	654	MICH.Alpena	248	Pendleton	85
Juneau	---	Detroit	110	Portland	64
Nome	669	Flint	152	Salem	87
ARIZ.Flagstaff	158	Grand Rapids	115	PA.Allentown	26
Phoenix	0	Houghton Lake	258	Erie	108
Tucson	0	Lansing	136	Harrisburg	57
Winslow	121	Marquette U	361	Philadelphia	22
Yuma	0	S. Ste. Marie	384	Pittsburgh	48
ARK.Fort Smith	17	MINN.Duluth	357	Scranton	82
Little Rock	26	Internatl Falls	365	R.I.Providence	120
CALIF.Bakersfield	0	Minneapolis	194	S.C.Charleston	0
Eureka U.	246	Rochester	181	Columbia	14
Fresno	0	St. Cloud	279	Greenville	27
Los Angeles U	3	MISS.Jackson	0	S.DAK.Aberdeen	192
Red Bluff	1	Meridian	0	Huron	160
Stockton	5			Rapid City	144
San Diego	0	MO.Columbia	56	Sioux Falls	157
San Francisco	74	Kansas City	63	TENN.Chattanooga	24
COLO.Denver	56	St. Louis	30	Knoxville	23
Grand Junction	21	Springfield	42	Memphis	2
Pueblo	46	MONT.Billings	127	Nashville	9
CONN.Bridgeport	41	Glasgow	232	TEX.Abilene	16
Hartford	99	Great Falls	226	Amarillo	35
D.C.Washington	4	Havre	236	Austin	0
FLA.Apalachicola	0	Helena	240	Beaumont	0
Ft. Myers	0	Kalispell	279	Brownsville	0
Jacksonville	0	Miles City	169	Corpus Christi	0
Key West	0	Missoula	243		
Lakeland U.	0	NEBR.Grand Island	71	Del Rio	0
Miami	0	Lincoln	80	El Paso	2
Orlando	0	Norfolk	100	Fort Worth	18
W. Palm Beach	0	North Platte	107	Galveston U.	0
Tallahassee	0	Omaha	67	Houston	0
Tampa	0	Valentine	112	Lubbock	21
GA.Atlanta	18	NEV.Ely	221	Midland	0
Augusta	10	Las Vegas	0	San Angelo	5
Macon	2	Reno	79	San Antonio	0
Savannah	0	Winnemucca	146	Victoria	0
IDAHO,Boise	104	N.H.Concord	245	Waco	0
Lewiston	74	N.J.Atlantic City	38	Wichita Falls	32
Pocatello	182	Trenton U	30	UTAH,Blanding R	--
ILL.Cairo U.	14	N.MEX.Albuquerque	6	Salt Lake City	57
Chicago	71	Roswell	19	VT.Burlington	240
Moline	77	N.Y.Albany	140	VA.Lynchburg	28
Peoria	65	Binghamton	143	Norfolk	11
Rockford	99	Buffalo	128	Richmond	14
Springfield	49	New York	24	Roanoke	30
IND.Evansville	24	Rochester	108	WASH.Colville	216
Fort Wayne	64	Syracuse	119	Omak	--
Indianapolis	45	N.C.Asheville	37	Quillayute	245
South Bend	62	Charlotte	26	Seattle-Tacoma	158
IOWA,Burlington	68	Greensboro	31	Spokane	195
Des Moines	77	Hatteras R.	0	Walla Walla U.	45
Dubuque	113	Raleigh	16	Yakima	98
Sioux City	108	Wilmington	0	W.VA.Beckley	69
KANS.Concordia	50	N.DAK.Bismarck	217	Charleston	33
Dodge City	26	Fargo	267	Huntington	26
Goodland	61	Williston U	221	Parkersburg U.	43
Topeka	65	OHIO.Akron-Canton	79	WIS.Green Bay	189
Wichita	28	Cincinnati U.	48	Madison	178
KY.Lexington	23	Cleveland	97	Milwaukee	140
Louisville	12	Columbus	46	WYO.Casper	175
LA.Baton Rouge	0	Dayton	44	Cheyenne	151
Lake Charles	0	Toledo	113	Lander	166
New Orleans	0	Youngstown	117	Sheridan	192
Shreveport	0				

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



The Crop Moisture Index measures the degree to which moisture requirements of growing crops were met during the previous week. The index is computed from average weekly values of temperature and precipitation. These values are used to calculate the potential moisture demand. Taking into account the previous soil moisture condition and current rainfall, the actual moisture loss is determined.

If the potential moisture demand, or potential evapotranspiration, exceeds available moisture supplies, actual evapotranspiration is reduced and the CMI gives a negative value. However, if moisture meets or exceeds demand the index is positive.

Shaded areas indicate the index was unchanged or increased from the previous week's value; soils dried in the unshaded areas. Centers of positive and negative areas are identified by W for wet and D for dry.

Local moisture conditions may vary because of differences in rainfall distribution or soil types. The type of agriculture and stage of crop development must be considered when assessing the impact of moisture conditions based on the Crop Moisture Index. Some general guidelines follow.

UNSHADED AREAS:			INDEX DECREASED
ABOVE		3.0	SOME DRYING BUT STILL EXCESSIVELY WET
2.0	to	3.0	MORE DRY WEATHER NEED, WORK DELAYED
1.0	to	2.0	FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
0	to	1.0	FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
0	to	-1.0	TOPSOIL MOISTURE SHORT, GERMINATION SLOW
-1.0	to	-2.0	ABNORMALLY DRY, PROSPECTS DETERIORATING
-2.0	to	-3.0	TOO DRY, YIELD PROSPECTS REDUCED
-3.0	to	-4.0	POTENTIAL YIELDS SEVERELY CUT BY DROUGHT
BELOW		-4.0	EXTREMELY DRY, MOST CROPS RUINED

SHADED AREAS:			INDEX INCREASED OR DID NOT CHANGE
ABOVE		3.0	EXCESSIVELY WET, SOME FIELDS FLOODED
2.0	to	3.0	TOO WET, SOME STANDING WATER
1.0	to	2.0	PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
0	to	1.0	MOISTURE ADEQUATE FOR PRESENT NEEDS
0	to	-1.0	PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1.0	to	-2.0	SOME IMPROVEMENT BUT STILL TOO DRY
-2.0	to	-3.0	DROUGHT EASED BUT STILL SERIOUS
-3.0	to	-4.0	DROUGHT CONTINUES, RAIN URGENTLY NEEDED
BELOW		-4.0	NOT ENOUGH RAIN, STILL EXTREMELY DRY

COOL WEATHER IN THE EAST AND THE END OF THE GROWING SEASON IN MUCH OF THE NATION IS LOWERING THE DEMAND FOR CROP MOISTURE. AT THE SAME TIME, MODERATE RAIN FROM EAST TEXAS THROUGH THE CAROLINAS SLOWED HARVEST BUT HELPED RESTORE SOIL MOISTURE AND PROMOTED PASTURE GROWTH. CONTINUED DRYING IN THE NORTHERN CORN BELT IMPROVED HARVEST CONDITIONS. EXCESSIVE HEAT IN THE WEST AND SOUTHWEST IS RAPIDLY DRYING SOILS.

The Weekly Weather and Crop Bulletin is jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the Weekly Weather Chronicle. It is issued under general authority of the Act of January 12, 1895 (44USC 213), 53d Congress, 3d Session. NOAA is responsible for managing, printing, and distributing the Bulletin. The contents may be reprinted freely, with proper credit.

Annual subscription: $13 domestic and $18 foreign airmail, checks drawn on U.S. banks or international money orders in U.S. funds... payable to U.S. Department of Commerce, NOAA. Order from the NOAA/USDA Joint Agricultural Weather Facility, USDA South Building, Room 3526, Washington, DC 20250.

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(continued from page 12)

Precipitation light, less than 0.25 in. all areas except few isolated heavier amounts. Snow north 2nd.

Field activity increased with drier weather. Fieldwork: 5^{0} days suitable. Corn silo filling 35% done, 1979 40%, normal 70%. Corn for grain 4% harvested, 1979 2%, normal 4%. High moisture corn being harvested. Moisture content of corn below year ago. Soybean harvest 2% done, 1979 3%, normal 2%. Sunflower harvest started. Harvesting of third crop hay continuing, some fourth crops ready to cut. Winter wheat being seeded where too wet earlier. Fall plowing 8% done, 1979 10%, normal 14%. Pastures very good. Tobacco harvest completed, curing weather improving. Potato digging making progress. Apple harvest increasing with better weather. Cranberry harvest in full swing. Vegetable losses above normal due to wet August and September. Soil moisture adequate to surplus.

WYOMING: Precipitation practically nil. Temperatures 3 to 5^{0} above normal. Highest 93^{0}, lowest 23^{0}.

Topsoil moisture short 89%; subsoil short 80%. Average of 70 days suitable for fieldwork. Winter wheat mostly planted, 87% emerged, fair to good stands. Acreage harvested: Potatoes 81%; corn for grain 52% dented, 40% mature, 15% harvested; dry beans 93% windrowed, 84% combined: sugarbeet 5%, sugar content around 17%. Cattle, calves contracted 30%, marketed 18%. Sheep, lambs contracted 53%, marketed 37%. Stock water supplies short in 52% of State.

(continued from page 17)

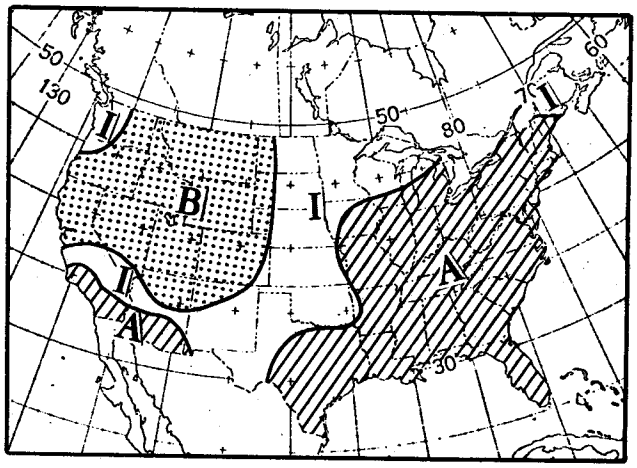
WINTER WHEAT
% PLANTED

	1980	1979	AVG.
CALF	1	3	NA
COLO	92	93	94
IDA	55	79	63
ILL	28	23	26
IND	40	25	25
KANS	70	65	70
MO	34	30	NA
MONT	90	80	80
NEBR	96	98	90
OHIO	45	40	40
OKLA	30	50	55
OREG	46	51	NA
S DAK	100	96	98
TEX	50	55	55
WASH	59	61	NA
15 STATES	59	61	NA
EXCL. STATES WITH NA	62	64	66

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

OUTLOOK FOR 90 DAY AVERAGE TEMPERATURES
OCTOBER THROUGH DECEMBER 1980

NOAA,National Weather Service
Climate Analysis Center



A — ABOVE NORMAL, 60% CHANCE OF OCCURRENCE

B — BELOW NORMAL, 60% CHANCE OF OCCURRENCE

I — INDETERMINATE, 50% CHANCE OF ABOVE NORMAL
50% CHANCE OF BELOW NORMAL

The two categories Above and Below are to be compared to the long-term average or "normal" temperatures of the year 1941-70. Each category has a natural climatic frequency or probability of 50%. Each carries a 60% probability of occurring where forecast (shaded area), based on the verification scores of twenty-one years of experimental seasonal predictions.