

# WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE  
Statistical Reporting Service  
and World Agricultural Outlook Board

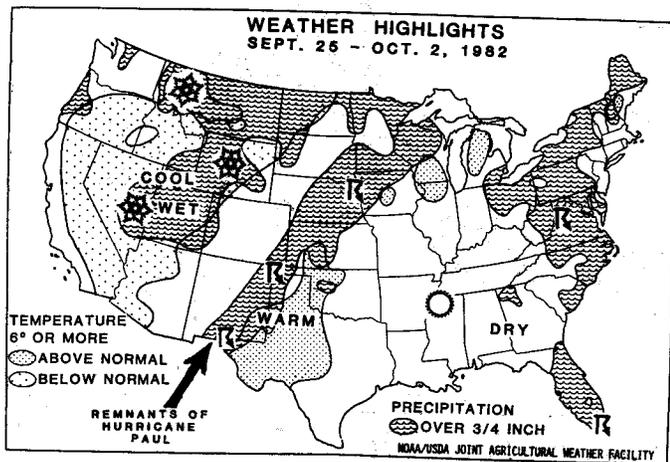
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Oct. 5, 1982

## National Weather Summary

September 26 - October 2



west, a cold front reached from Canada through the Dakotas to western Texas. Showers and thunderstorms were occasionally heavy along and ahead of the front. Showers covered the Northwest, and some heavy snow fell in the northern Rockies. Warm weather ahead of the front pushed into South Dakota and Minnesota. High temperatures rose to the eighties in Iowa, but highs in the thirties were reached behind the front in northern Montana.

**WEDNESDAY** . . . Showers and thunderstorms continued from northeastern Kansas and eastern Nebraska to the western Great Lakes. Showers persisted in the central Plateau and northern Rockies. Heavy snow fell in Nevada, Utah, and Wyoming. A few rain showers fell along the east coast and in southwestern Texas. The cooler weather spread over the central Plateau, the northern Rockies, and the Dakotas.

**THURSDAY** . . . The remnants of Hurricane Paul moved across Mexico and triggered moderate to heavy showers and thunderstorms in eastern New Mexico and western Texas. Moderate showers and thunderstorms extended northward along a cold front from the Texas Panhandle to southern Minnesota. Showers of rain or snow continued over the central Plateau and central Rockies. The cooler air spread over the Plains behind the cold front. Early-morning temperatures dropped below freezing in North Dakota, parts of Montana, and in large areas of the Plateau and northern Rockies. Showers were very light along the coasts of the central East Coast States but heavier in Florida.

(continued on back cover)

**HIGHLIGHTS:** Some light showers continued in central California early in the week. The complex storm system over the Plateau and northern Rockies continued to produce showers until the last day of the week. Snow was confined to the higher elevations, but an outbreak of cold air at midweek spread snow over the Plateau and onto the High Plains of Montana. The cold air pushed into the Plains and triggered showers from eastern New Mexico and western Texas to the western Great Lakes region. The remnants of Hurricane Paul moved across Mexico and supplied moisture to produce heavy showers in the southern part of this line. Rain in the East Coast States helped the dry condition, but more rain is needed. Little rain fell in Georgia or the western part of the Carolinas.

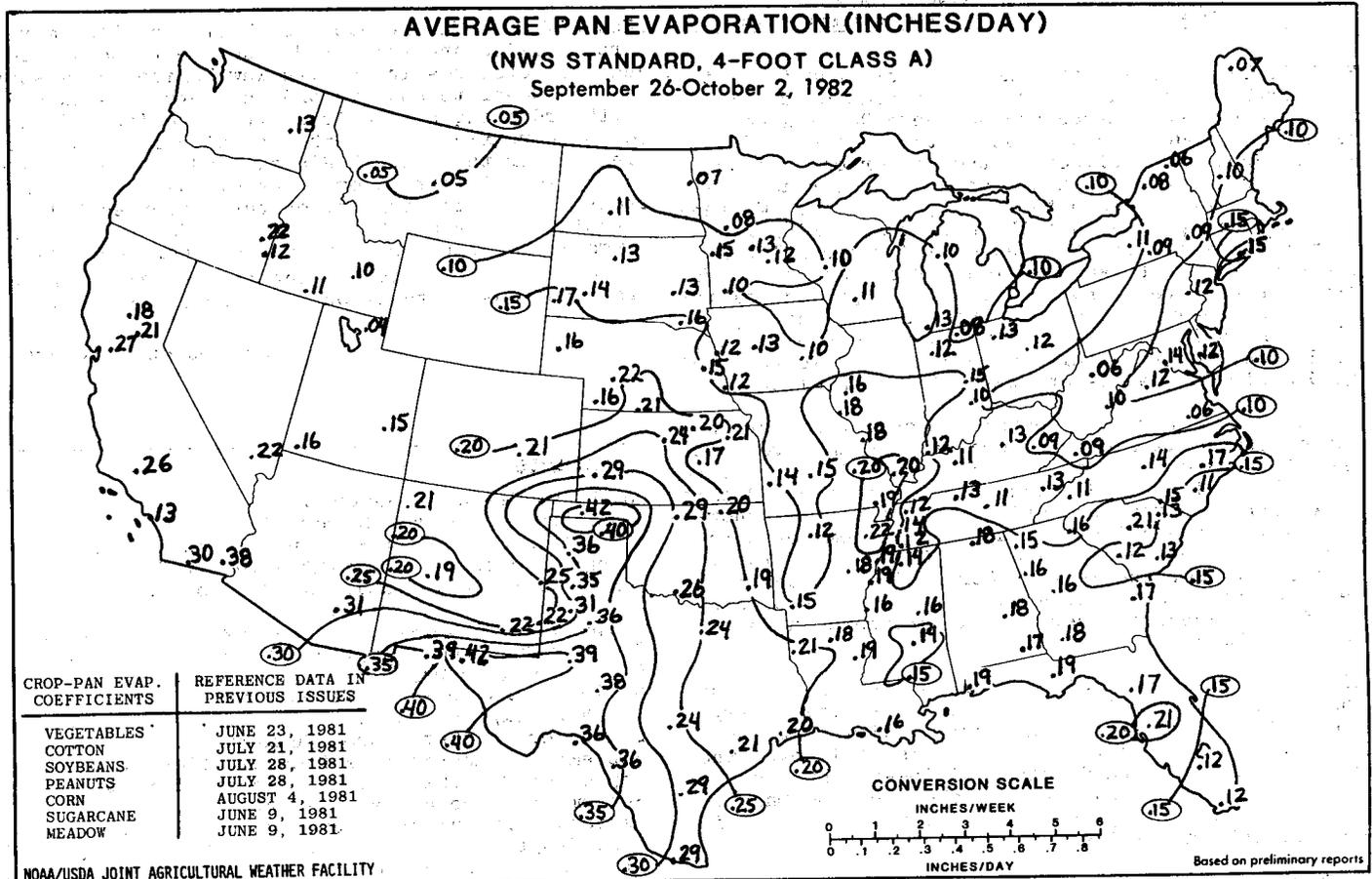
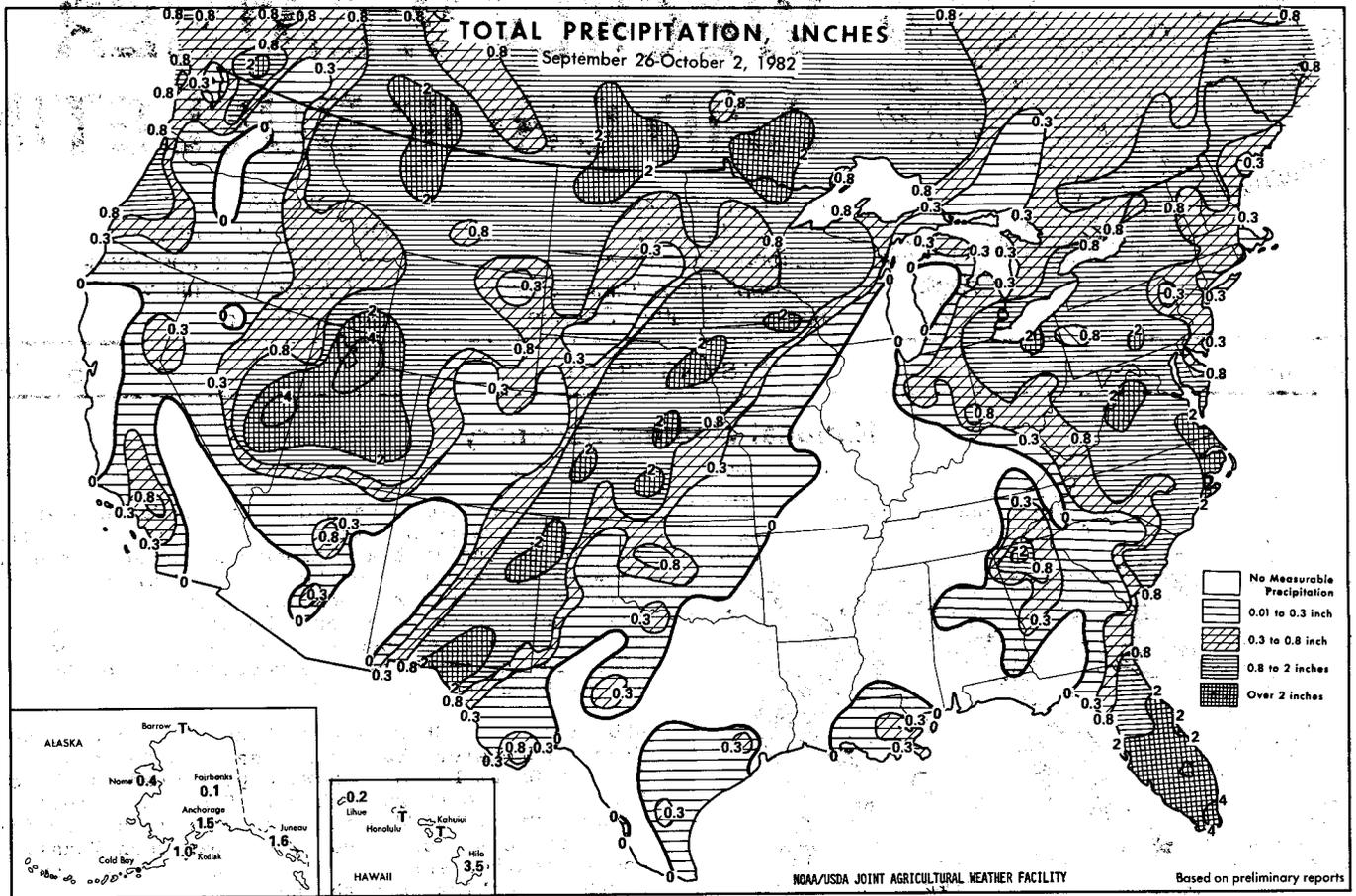
**SUNDAY** . . . Wet weather persisted over the western United States as a complex weather system moved over the Plateau to the Rockies. Showers fell over southern California, the Plateau, and the northern Rockies. Snow fell at higher elevations. In the East, showers were widespread all along the coast, from northern Georgia to New England, and from Ohio to New York. It was dry over the western Corn Belt, but the high temperatures there reached only to the fifties and sixties. Warmer weather pushed northward in the western Plains.

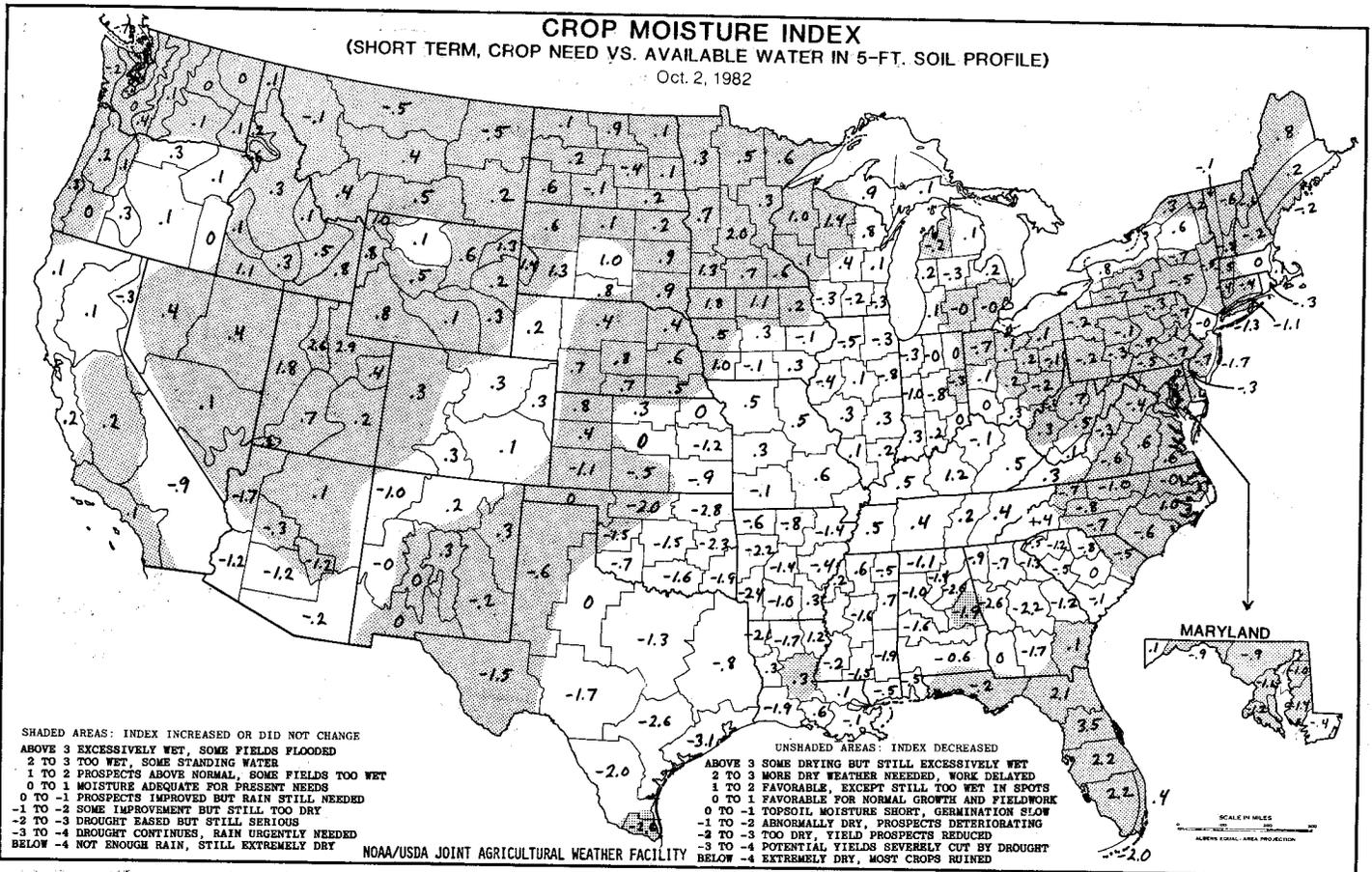
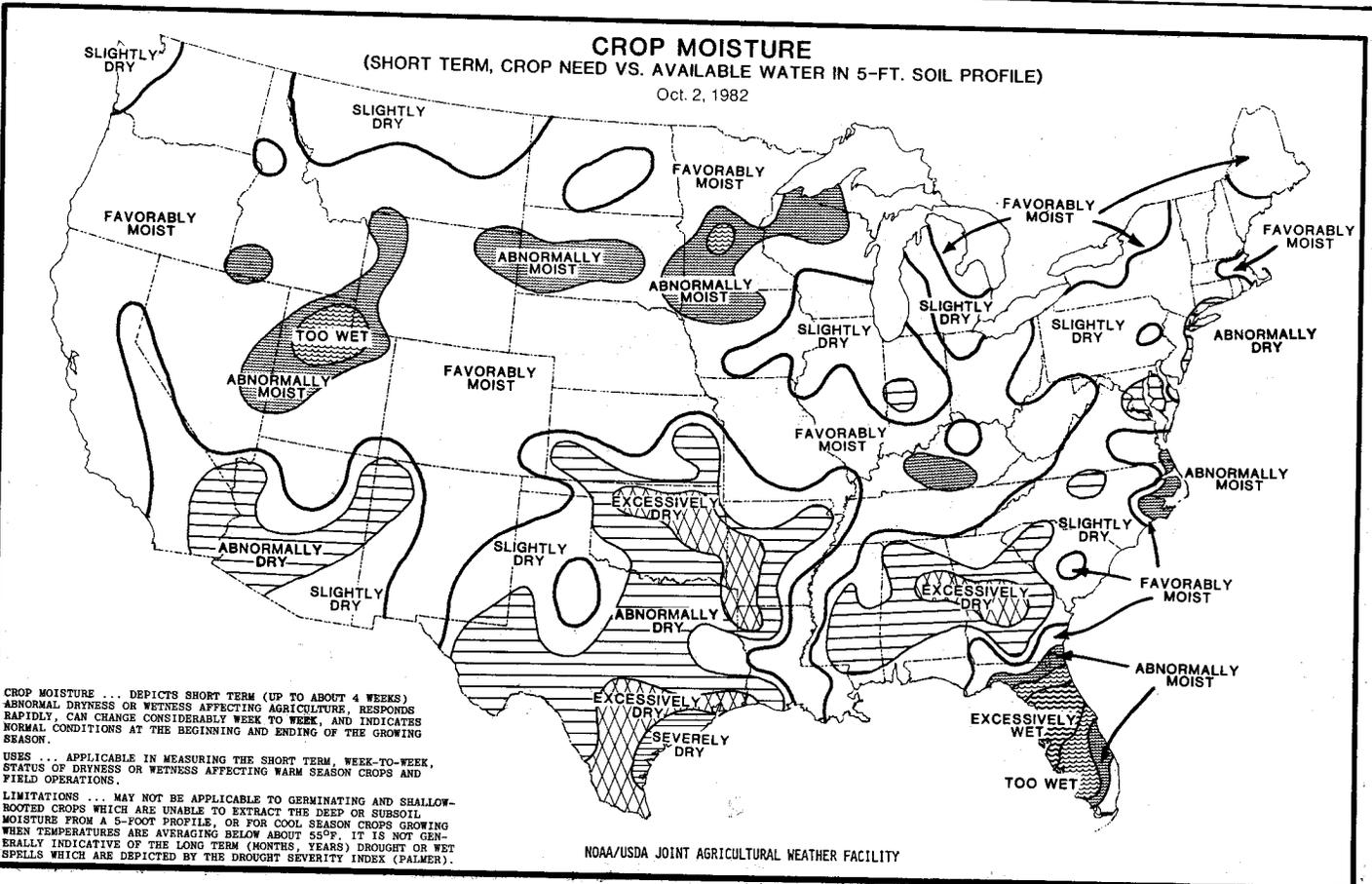
**MONDAY** . . . Showers fell throughout the Plateau and Rockies and spread into the northern Plains. Very light showers persisted in central California, but some heavy rain, snow at high levels, fell over the Plateau and northern Rockies. A low-pressure system in Pennsylvania spread rain or showers from Ohio to New York and New England. The warming trend continued through the Plains.

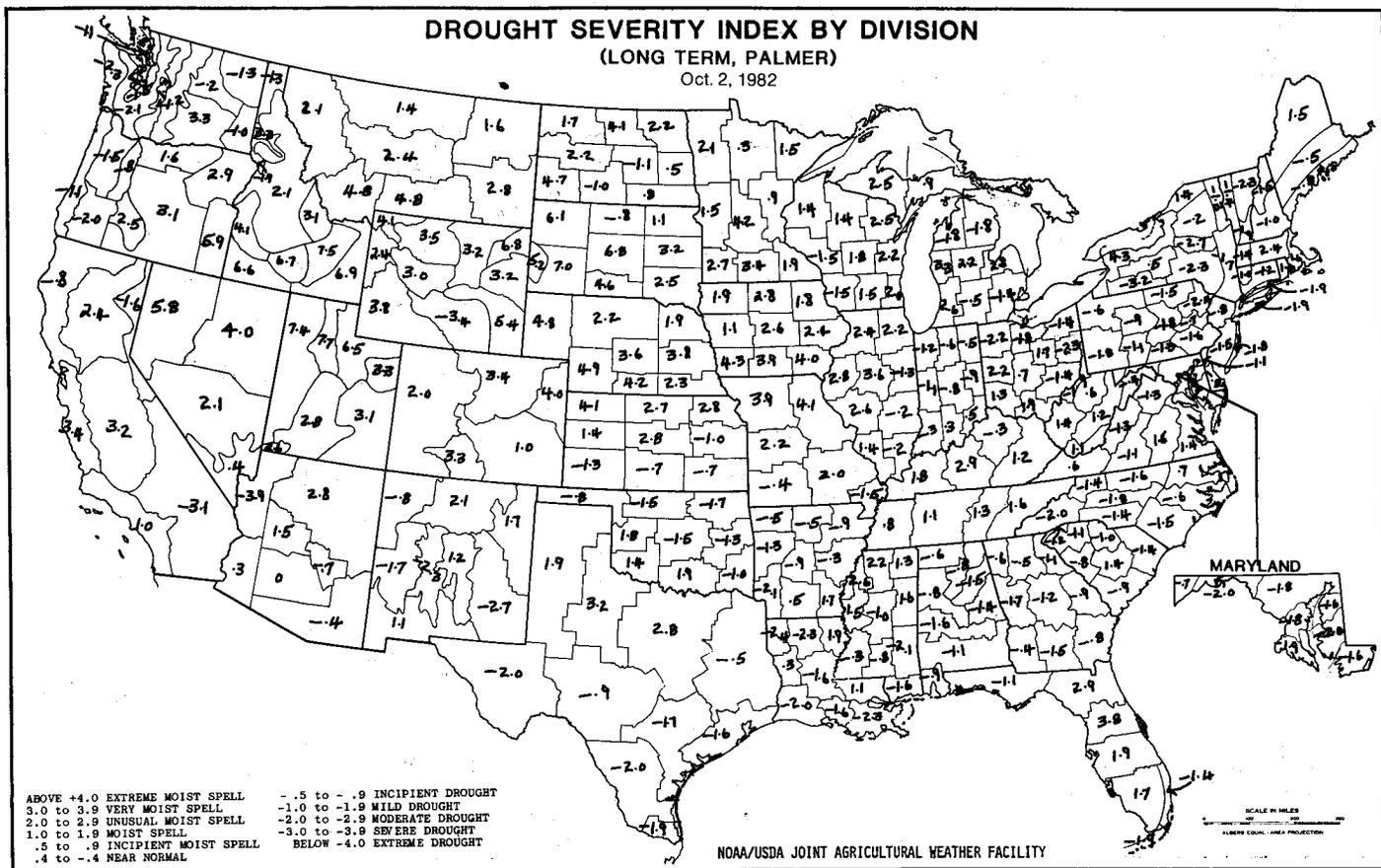
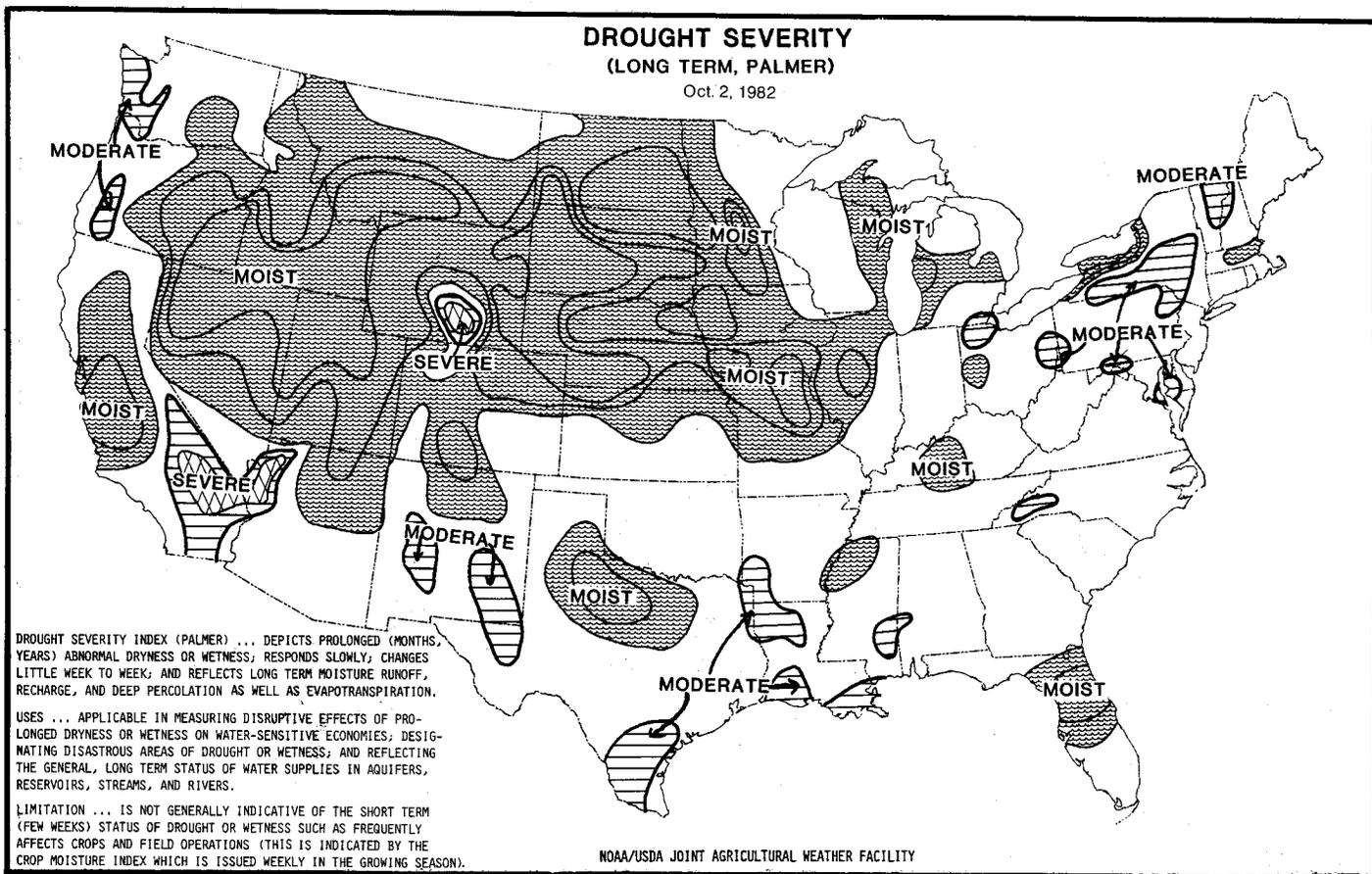
**TUESDAY** . . . The heavy rain in the Northeast moved out and left only scattered light showers. Further

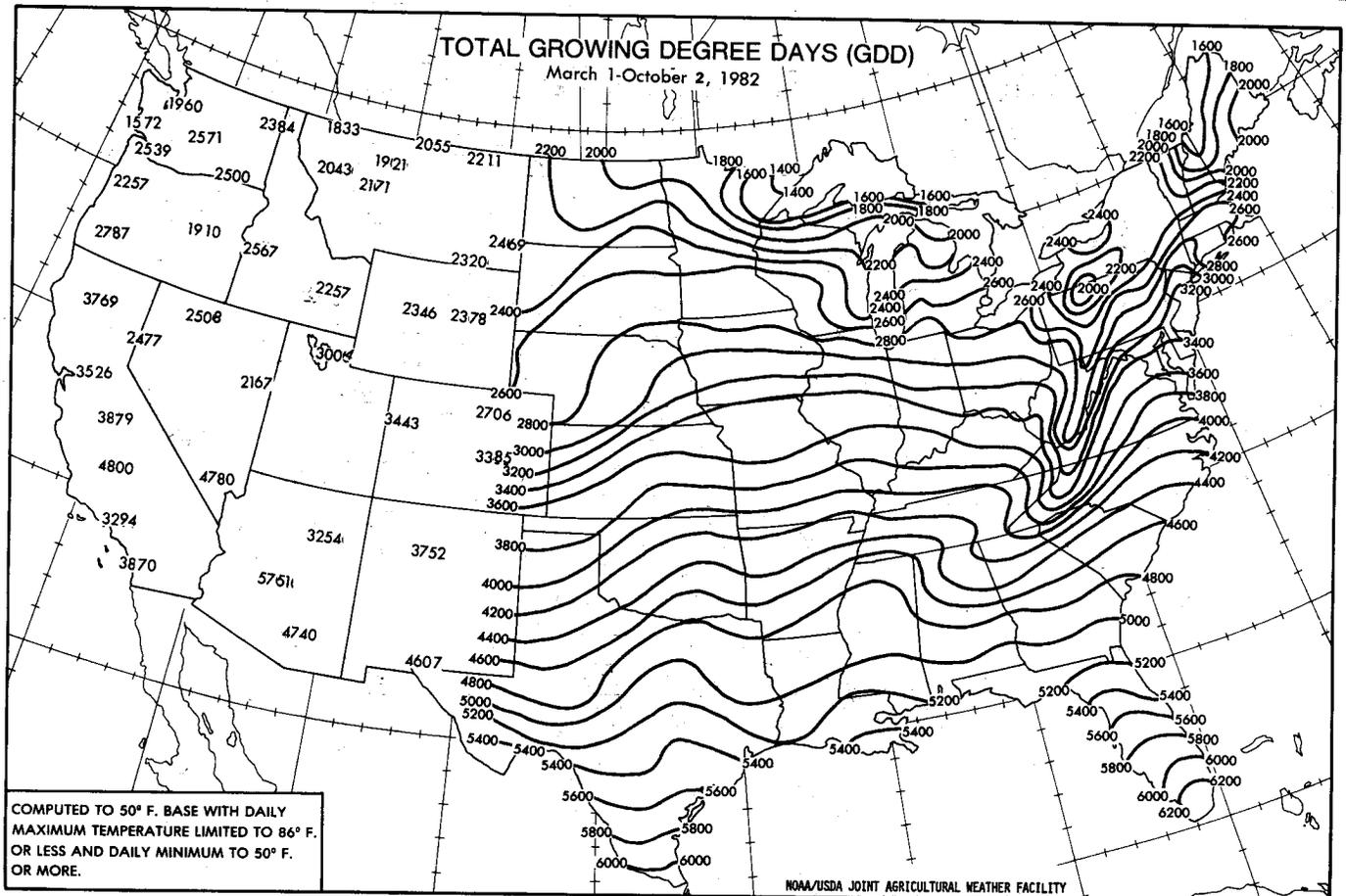
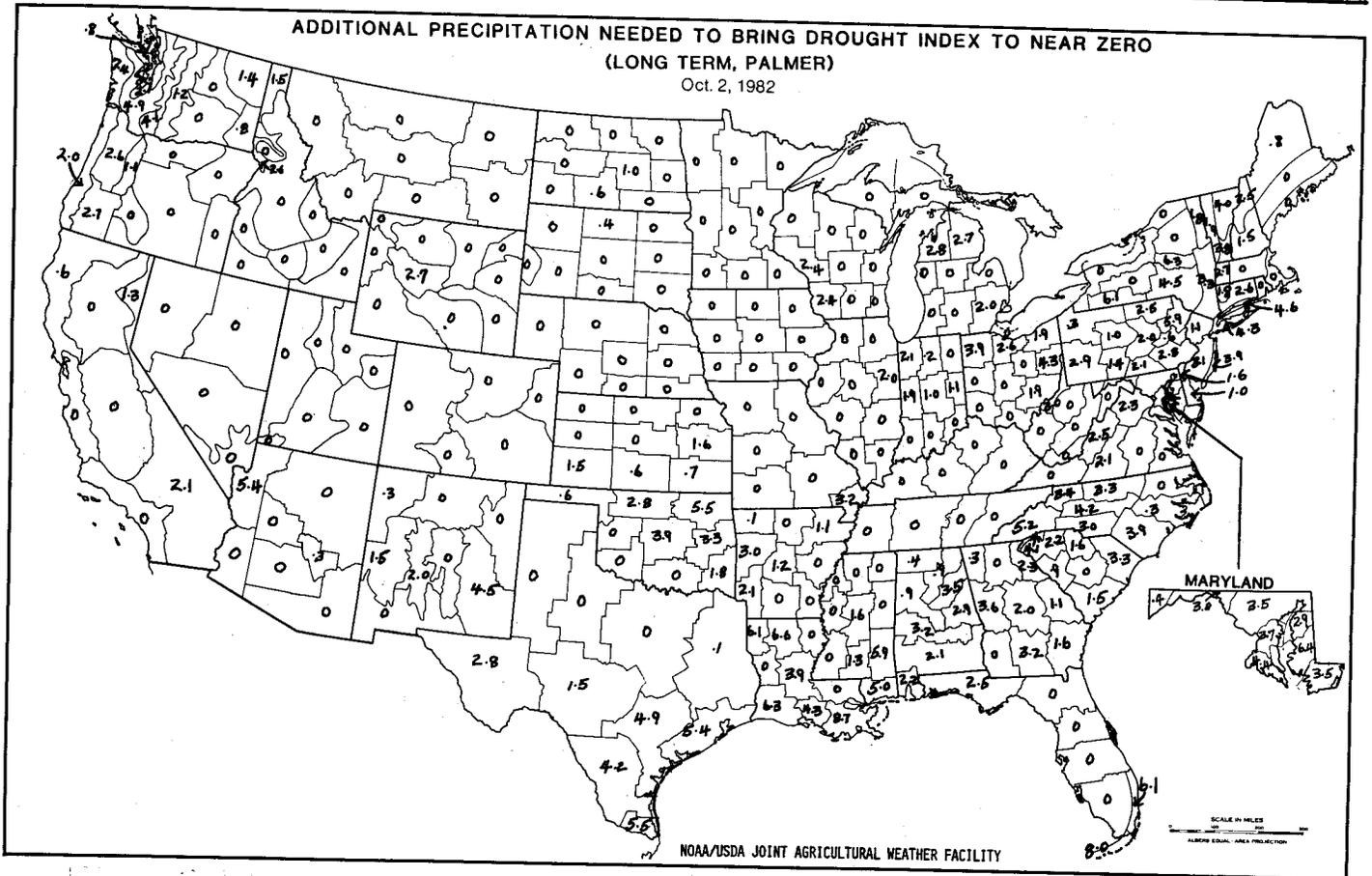
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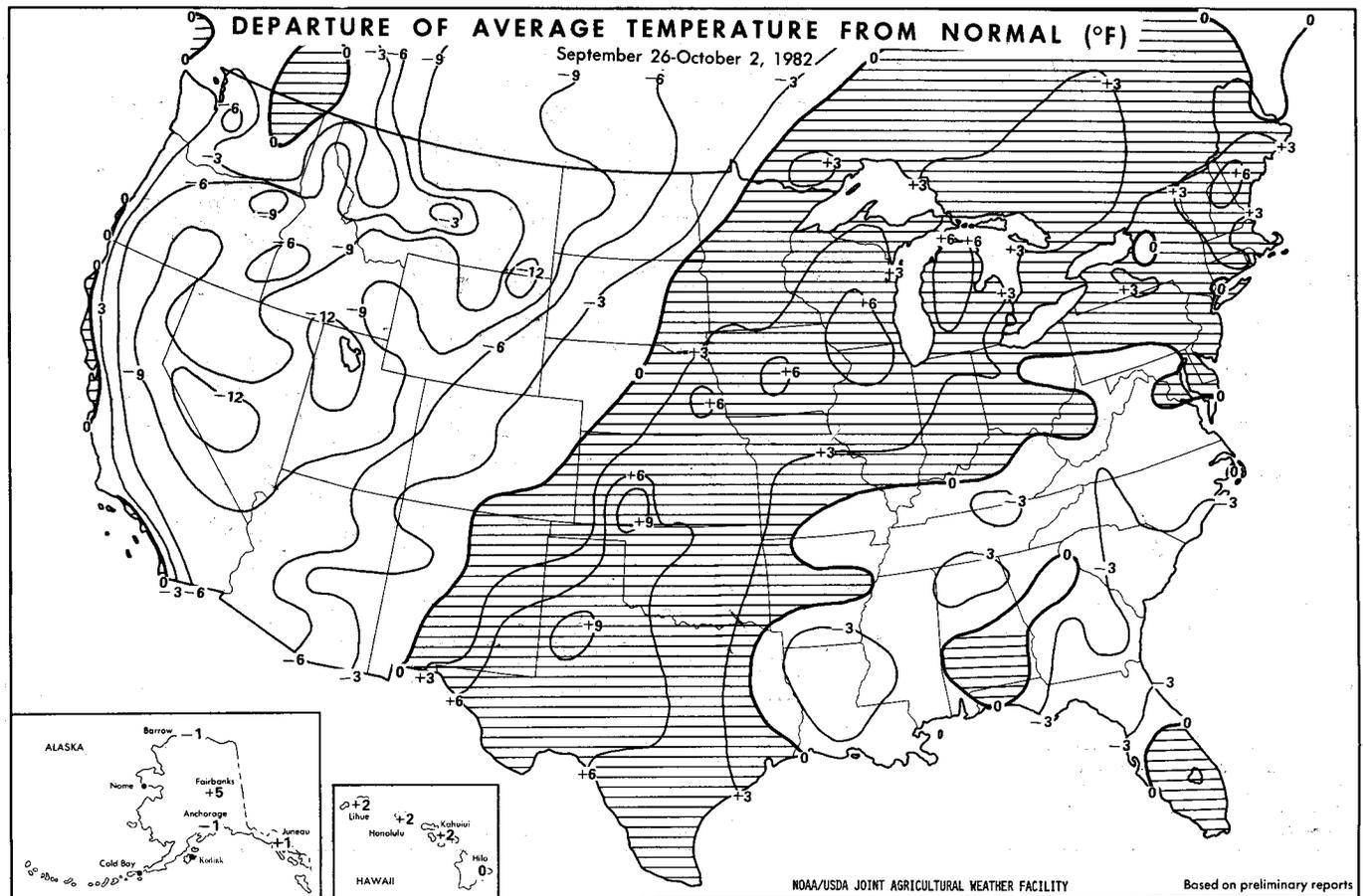
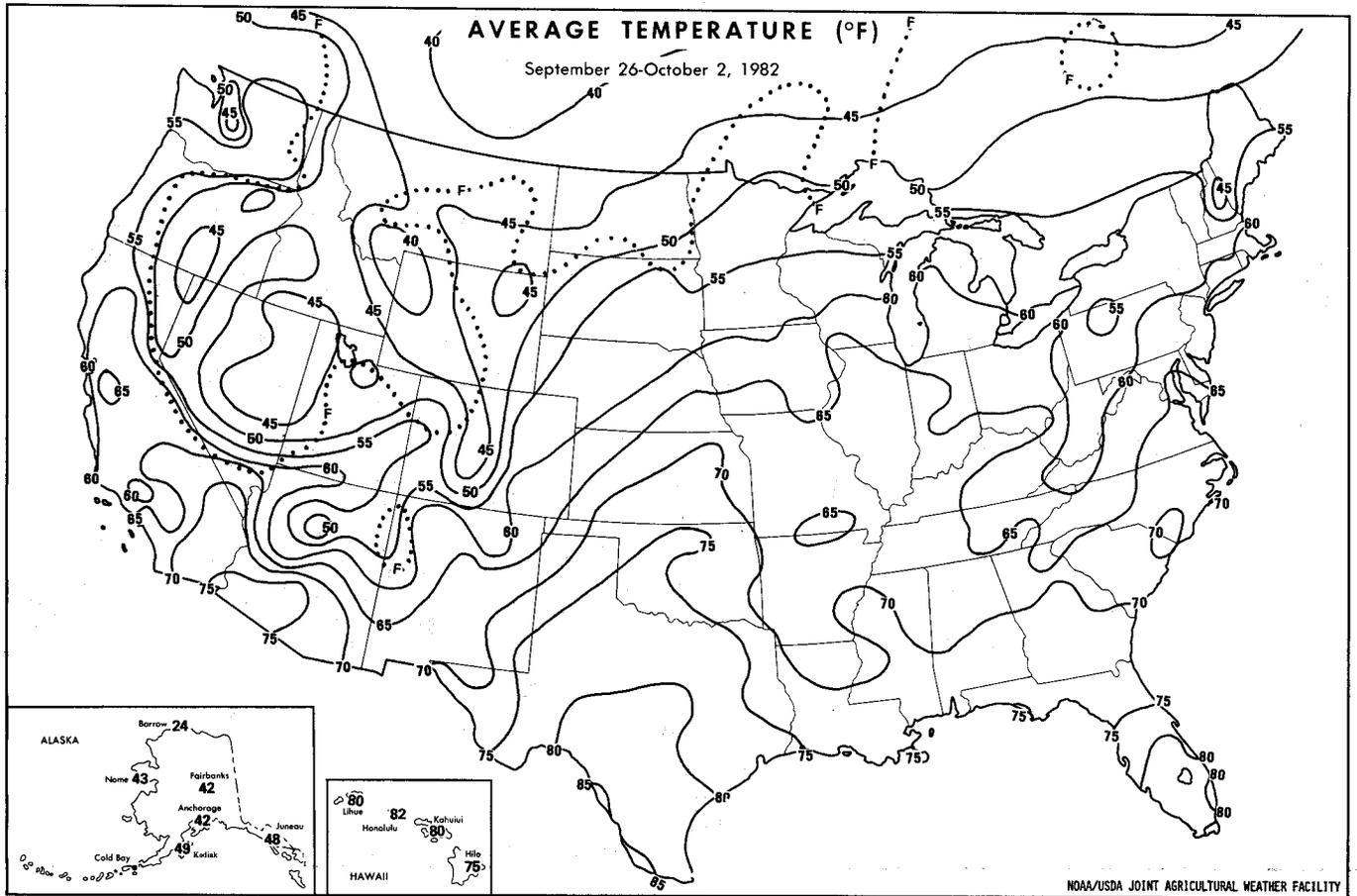
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Weather Data for the Week Ending Oct. 2, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Aug. 29	PCT. NORMAL SINCE Aug. 29	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	PRECIPI-TATION			
																		.01 INCH OR MORE	.50 INCH OR MORE		
AL BIRMINGHAM	83	55	86	51	69	-1	T	-	.7	T	1.0	24	51.0	126	91	38	0	0	1	0	
MOBILE	84	60	87	55	72	-2	0	-	1.2	0	4.7	62	60.7	113	90	43	0	0	0	0	
MONTGOMERY	85	59	88	57	72	0	0	-	.8	0	2.0	42	47.4	125	83	36	0	0	0	0	
AK ANCHORAGE	47	36	53	32	42	-1	1.5	1.0	-	0	6.5	224	13.4	118	95	72	0	0	0	0	
BARROW	26	22	31	18	24	-1	T	-	.1	T	.7	88	4.0	100	99	80	0	0	1	1	
FAIRBANKS	47	37	57	30	42	5	.1	-	.1	-	1.5	74	32.5	89	100	82	0	0	0	0	
JUNEAU	52	43	56	34	48	1	1.6	-	.2	-	5.9	115	9.8	104	76	53	0	0	2	3	
KODIAK	57	41	60	38	49	3	1.0	-	.5	-	10.1	144	45.7	116	94	56	0	0	0	0	
NOME	47	38	52	32	43	3	.4	-	0	-	4.9	181	15.6	89	100	82	0	0	0	0	
AZ PHOENIX	88	65	101	57	77	-3	T	-	.1	T	.1	14	5.8	114	52	16	3	0	2	3	
PRESCOTT	70	45	80	35	57	-7	.1	-	.1	-	.7	41	10.8	76	67	20	0	0	0	0	
TUCSON	86	59	94	49	72	-4	0	-	.2	0	2.2	138	10.5	118	53	16	1	0	0	0	
YUMA	88	65	97	57	76	-7	0	-	.1	0	.7	33	2.9	161	46	17	2	0	0	0	
AR FORT SMITH	85	55	90	40	70	-1	0	-	.8	0	0	1	32.8	101	89	36	2	0	0	0	
LITTLE ROCK	81	57	86	50	69	0	0	-	.8	0	1.5	37	42.1	119	87	46	0	0	0	0	
CA BAKERSFIELD	76	57	82	51	67	-7	.3	-	.3	-	.5	100	5.3	143	83	36	0	0	1	0	
EUREKA	64	50	67	45	57	1	.1	-	.3	-	.6	75	25.0	108	89	62	0	0	0	0	
FRESNO	74	51	81	46	63	-8	.1	-	.1	-	1.1	1100	9.7	152	91	36	0	0	2	0	
LOS ANGELES	75	60	86	56	68	0	.3	-	.3	-	.8	400	9.4	122	81	39	0	0	1	0	
RED BLUFF	76	52	78	46	64	-8	0	-	.1	0	1.3	325	14.1	104	66	26	0	0	0	0	
SACRAMENTO	74	48	78	46	61	-8	0	-	.1	0	1.8	600	19.9	167	86	33	0	0	0	0	
SAN DIEGO	74	62	81	58	68	-1	.1	-	.1	0	.4	400	9.4	165	84	54	0	0	1	0	
SAN FRANCISCO	72	52	76	49	62	-1	0	-	.1	0	.9	900	23.5	206	74	38	0	0	0	0	
CO DENVER	68	44	82	38	56	-2	T	-	.3	T	1.4	100	10.1	81	80	30	0	0	2	0	
GRAND JUNCTION	69	48	79	38	58	-4	.9	-	.7	T	2.6	260	6.4	103	85	37	0	0	4	1	
PUEBLO	74	47	86	39	61	-1	T	-	.1	T	1.8	200	14.1	138	84	28	0	0	1	0	
CT BRIDGEPORT	70	55	74	51	63	0	.2	-	.4	-	1.3	39	36.9	131	89	63	0	0	1	0	
HARTFORD	70	52	81	45	61	2	.7	-	0	-	.7	2.3	56	40.2	130	91	57	0	0	2	1
DC WASHINGTON	75	57	78	55	66	0	.5	-	.1	-	.5	1.8	49	29.4	97	87	55	0	0	2	0
FL APALACHICOLA	82	64	85	60	73	-2	0	-	1.6	0	16.1	155	58.1	121	88	54	0	0	0	0	
DAYTONA BEACH	81	68	85	59	75	-3	2.0	-	.4	1.1	5.7	70	43.6	108	93	67	0	0	3	2	
JACKSONVILLE	81	62	85	57	72	-4	.9	-	.7	1.0	10.0	110	44.9	99	97	65	0	0	4	1	
KEY WEST	86	76	88	72	81	-1	2.9	-	1.2	1.9	6.9	82	33.3	110	88	70	0	0	5	1	
MIAMI	85	75	87	74	80	0	5.4	-	3.2	1.9	10.1	99	53.4	113	98	69	0	0	7	5	
ORLANDO	86	70	89	64	78	0	1.9	-	.4	1.3	7.2	88	49.5	114	94	59	0	0	2	2	
TALLAHASSEE	85	59	88	54	72	-3	T	-	1.2	T	6.5	87	50.9	100	91	47	0	0	0	0	
TAMPA	86	71	88	65	78	0	3.1	-	2.0	2.1	12.3	168	53.0	125	98	59	0	0	2	2	
WEST PALM BEACH	85	74	88	72	80	-1	2.1	-	.4	1.5	6.4	56	59.7	123	91	69	0	0	5	1	
GA ATLANTA	78	57	82	53	68	-1	.1	-	.6	.1	3.1	82	41.2	110	89	46	0	0	1	0	
AUGUSTA	80	54	85	52	67	-3	.1	-	.6	.1	2.0	51	30.3	88	92	46	0	0	1	0	
MACON	85	57	87	55	71	-1	.2	-	.5	.2	2.9	76	36.9	106	99	44	0	0	1	0	
SAVANNAH	81	59	85	55	70	-3	.2	-	.8	.2	3.0	47	46.4	108	90	52	0	0	1	0	
HI HILO	81	70	82	69	75	0	3.5	-	1.6	1.4	15.4	171	152.7	169	93	69	0	0	7	2	
HONOLULU	89	75	90	74	82	2	T	-	.2	T	.5	63	23.2	163	76	48	1	0	0	0	
KAHULUI	89	71	91	66	80	2	T	-	.1	T	.4	133	23.3	203	77	46	3	0	1	0	
LIHUE	86	75	87	69	80	2	.2	-	.3	.2	1.8	82	47.9	177	87	61	0	0	3	0	
ID BOISE	63	43	72	34	53	-6	.3	-	.1	.2	1.5	300	9.0	110	86	39	0	0	3	0	
LEWISTON	63	46	69	37	55	-4	.4	-	.2	.3	.8	80	8.9	97	82	46	0	0	2	0	
POCATELLO	53	41	62	36	47	-7	1.0	-	.9	.7	3.9	650	13.7	171	91	54	0	0	5	1	
IL CHICAGO	76	52	85	48	64	4	0	-	.7	0	1.3	35	28.0	110	89	47	0	0	0	0	
MOLINE	78	53	86	43	66	5	0	-	.8	0	2.2	51	31.4	111	93	49	0	0	0	0	
PEORIA	78	54	86	45	66	5	0	-	.8	0	1.5	36	33.3	119	92	49	0	0	0	0	
QUINCY	76	56	85	48	66	4	0	-	.9	0	4.2	86	34.4	--	88	52	0	0	0	0	
ROCKFORD	78	52	87	46	65	6	T	-	.8	T	1.8	38	30.9	106	91	45	0	0	0	0	
SPRINGFIELD	78	55	86	45	66	3	0	-	.8	0	4.1	111	29.5	110	90	52	0	0	0	0	
IN EVANSVILLE	78	51	84	46	65	0	0	-	.6	0	7.0	219	38.3	119	88	44	0	0	0	0	
FORT WAYNE	73	50	83	46	62	1	.4	-	.2	.3	1.7	57	31.8	115	92	52	0	0	2	0	
INDIANAPOLIS	76	50	86	43	63	1	.1	-	.6	.1	1.5	45	31.2	106	98	50	0	0	1	0	
SOUTH BEND	74	54	82	46	64	4	.2	-	.6	.1	2.5	66	31.5	115	96	58	0	0	2	0	
IA DES MOINES	75	57	82	43	66	6	.1	-	.5	.1	5.0	143	35.4	140	87	59	0	0	1	0	
STOUX CITY	73	53	82	44	63	3	2.8	-	2.3	.9	5.0	156	23.1	102	92	56	0	0	5	4	
WATERLOO	73	52	83	36	63	5	.2	-	.6	.2	3.6	84	25.3	92	88	58	0	0	2	0	
KS CONCORDIA	77	58	86	49	67	4	.8	-	.2	.3	2.9	78	34.6	145	93	56	0	0	5	4	
DODGE CITY	83	62	93	53	72	8	.9	-	.5	.8	2.1	95	18.0	104	76	38	3	0	3	1	
GOODLAND	74	48	90	40	61	1	1.7	-	1.4	1.3	4.1	241	24.5	170	81	36	1	0	3	1	
TOPEKA	79	56	84	38	68	4	.3	-	.4	.3	1.5	38	31.5	109	85	47	0	0	1	0	
WICHITA	83	60	90	50	72	6	T	-	.8	T	2.0	45	24.4	97	78	44	1	0	1	0	
KY BOWLING GREEN	77	51	82	46	64	-3	0	-	.6	0	8.7	249	39.9	109	100	52	0	0	0	0	
LEXINGTON	75	53	82	46	64	0	T	-	.5	T	4.0	129	29.1	85							

Weather Data for the Week Ending Oct. 2, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Aug. 29	PCT. NORMAL SINCE Aug. 29	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME SHREVEPORT	85	58	88	51	71	-3	0	.7	0	1.5	42	23.8	72	96	41	0	0	0	0
ME CARIBOU	60	44	68	33	52	3	1.6	.8	.7	4.5	105	28.4	107	94	67	0	0	3	2
ME PORTLAND	66	50	72	43	58	3	.4	.4	.4	2.1	60	32.8	118	92	63	0	0	1	0
MD BALTIMORE	72	54	77	50	63	-1	1.0	.3	.5	3.7	100	27.5	90	91	54	0	0	2	1
MD SALISBURY	73	56	77	46	65	0	1.3	.5	.8	2.7	56	30.9	90	100	68	0	0	2	2
MA BOSTON	68	56	81	52	62	1	.2	.4	.2	1.6	42	36.8	121	92	66	0	0	2	0
MA CHATHAM	65	57	71	52	61	-1	.3	.5	.5	6.7	-	35.1	-	95	79	0	0	2	1
MI ALPENA	68	49	84	39	58	6	.7	.3	.3	3.7	95	19.5	94	95	64	0	0	1	0
MI DETROIT	71	51	84	48	61	2	.8	.3	.7	2.6	100	24.2	100	95	60	0	0	2	1
MI FLINT	71	53	78	49	62	5	.6	.1	.6	3.0	103	20.3	89	97	64	0	0	2	1
MI GRAND RAPIDS	74	54	82	51	64	6	0	.7	0	2.3	59	23.7	99	90	60	0	0	2	0
MI HOUGHTON LAKE	68	50	80	42	59	6	0	.7	0	4.0	114	23.8	114	95	58	0	0	0	0
MI LANSING	71	52	80	46	62	4	.7	.1	.7	3.8	123	20.1	86	97	68	0	0	1	1
MI MARQUETTE	62	45	73	38	53	3	.5	.3	.3	5.4	117	28.0	104	97	68	0	0	2	0
MI MUSKEGON	71	54	76	46	62	5	0	.7	0	2.9	76	24.7	108	94	64	0	0	0	0
MI SAULT STE. MARIE	64	47	75	37	55	4	.1	.7	.1	6.4	142	26.4	116	92	62	0	0	2	0
MN ALEXANDRIA	61	46	71	40	54	0	.6	.2	.2	3.5	130	22.6	108	97	59	0	0	4	0
MN DULUTH	59	44	67	36	52	1	1.2	.6	.9	5.6	165	25.9	108	91	63	0	0	4	1
MN INT'L FALLS	60	42	71	34	51	2	2.2	1.6	.9	4.9	126	20.3	94	98	67	0	0	4	2
MN MINNEAPOLIS	67	50	75	43	58	2	.6	0	.4	3.7	112	19.8	92	85	56	0	0	3	0
MN ROCHESTER	68	52	75	42	60	4	1.4	.8	.6	6.7	191	29.4	125	84	66	0	0	5	1
MS GREENWOOD	84	57	88	49	70	-1	0	.7	0	4.3	119	39.5	--	91	41	0	0	0	0
MS JACKSON	85	53	90	47	69	-3	0	.6	0	1.1	31	43.8	119	99	39	1	0	0	0
MS MERIDIAN	86	55	90	50	70	-1	0	.6	0	.8	21	42.3	108	91	36	1	0	0	0
MO CAPE GIRARDEAU	79	53	85	46	66	-2	0	.8	0	2.5	57	38.9	118	98	49	0	0	0	0
MO COLUMBIA	77	55	84	43	66	2	T	1.0	T	5.9	116	36.9	125	93	58	0	0	1	0
MO KANSAS CITY	79	58	85	44	68	4	.1	.9	.	1.8	37	38.1	127	87	52	0	0	1	0
MO SAINT LOUIS	78	58	84	51	68	2	0	.6	0	5.6	170	40.9	147	95	52	0	0	0	0
MO SPRINGFIELD	80	56	85	41	68	3	0	1.0	0	1.8	38	32.1	104	81	46	0	0	0	0
MT BILLINGS	56	42	71	33	49	-6	.4	.1	.1	1.6	100	15.7	134	86	55	0	0	5	0
MT GLASGOW	50	37	71	33	43	-9	1.1	1.0	.7	1.3	130	10.2	112	87	62	0	0	4	1
MT GREAT FALLS	50	37	69	33	44	-10	2.1	1.9	1.7	2.5	179	15.4	121	90	61	0	0	5	1
MT HAVRE	48	36	63	32	42	-11	1.4	1.2	.5	1.5	107	13.8	138	99	71	0	2	5	0
MT HELENA	52	40	66	35	46	-5	1.5	1.3	.9	2.9	264	12.2	133	83	57	0	0	3	2
MT KALISPELL	53	38	61	26	46	-3	1.2	1.0	.6	1.9	158	15.6	136	96	56	0	2	4	1
MT MILES CITY	55	39	74	32	47	-9	1.5	1.2	1.1	2.6	173	13.2	112	93	57	0	1	4	1
MT MISSOULA	57	43	64	34	50	-1	1.6	1.4	.9	2.3	177	13.7	141	89	60	0	0	4	1
NE GRAND ISLAND	75	51	88	46	63	3	1.7	1.3	1.1	3.8	131	32.1	156	86	48	0	0	3	1
NE LINCOLN	76	56	83	46	66	5	.6	.1	.5	3.4	103	33.6	142	84	56	0	0	4	1
NE NORFOLK	74	52	84	46	63	4	2.5	2.0	1.2	3.9	139	23.9	113	89	53	0	0	5	2
NE NORTH PLATTE	70	43	82	35	57	-1	1.4	1.0	.9	2.2	92	16.5	94	86	40	0	0	2	1
NE OMAHA	73	55	80	48	64	3	1.6	1.0	.8	4.5	122	29.1	115	89	65	0	0	5	1
NE SCOTTSBLUFF	67	45	80	36	56	-1	.3	0	.2	1.6	133	19.0	152	81	36	0	0	3	0
NE VALENTINE	66	44	80	39	55	-2	.2	.1	.1	2.2	129	19.9	128	60	34	0	0	2	0
NV ELY	51	31	62	26	41	-11	3.6	3.5	2.5	4.9	980	12.7	195	96	61	0	5	5	2
NV LAS VEGAS	76	54	87	47	65	-10	T	0	T	.1	25	2.7	84	55	21	0	0	1	0
NV RENO	60	34	69	29	47	-10	.6	.5	.4	2.4	800	6.7	134	99	38	0	4	3	0
NV WINNEMUCCA	59	34	70	26	47	-8	T	.1	T	1.1	275	5.8	97	78	30	0	3	0	0
NH CONCORD	67	49	79	37	58	3	.6	0	.6	1.8	51	29.3	114	94	58	0	0	2	1
NJ ATLANTIC CITY	72	56	79	46	64	1	.2	.4	.2	1.3	36	24.7	74	98	64	0	0	2	0
NM ALBUQUERQUE	78	51	87	38	64	-1	0	.2	0	1.3	144	5.7	89	65	21	0	0	0	0
NM CLOVIS	80	59	92	54	70	5	.8	.4	.8	1.9	86	14.1	--	74	28	2	0	1	1
NM ROSWELL	84	60	96	52	72	6	1.6	1.2	1.6	3.8	224	8.2	81	72	29	2	0	1	1
NY ALBANY	69	47	78	40	58	1	1.3	.4	.3	1.5	42	26.1	107	98	61	0	0	2	0
NY BINGHAMTON	69	50	76	41	59	3	.8	.1	.7	2.0	57	28.1	101	94	58	0	0	2	1
NY BUFFALO	67	51	75	41	59	2	.9	.2	.7	3.8	100	29.4	115	95	57	0	0	3	1
NY NEW YORK	70	59	78	56	64	0	.3	.3	.3	1.1	30	27.5	91	92	64	0	0	2	0
NY ROCHESTER	69	52	79	47	61	-2	1.2	.6	1.0	3.7	128	24.1	103	89	58	0	0	3	1
NY SYRACUSE	67	47	76	38	57	-1	1.0	.3	.9	4.3	134	27.4	104	99	67	0	0	2	1
NC ASHEVILLE	74	47	80	44	61	-2	T	.8	T	1.4	33	38.7	111	100	55	0	0	0	0
NC CHARLOTTE	76	55	84	52	66	-3	.3	.4	.3	.8	20	30.8	95	92	44	0	0	1	0
NC GREENSBORO	74	52	81	48	63	-2	1.0	.2	1.0	1.3	31	34.4	108	95	51	0	0	1	1
NC HATTERAS	75	65	78	60	70	0	2.9	1.7	2.9	4.5	67	44.6	108	94	72	0	0	1	1
NC NEW BERN	76	58	79	55	67	-4	1.8	.7	1.8	4.6	70	35.5	79	95	62	0	0	1	1
NC RALEIGH	77	56	83	55	66	0	.8	.1	.8	1.5	34	34.0	102	93	51	0	0	1	1
NC WILMINGTON	78	58	83	55	68	-3	1.4	.3	1.4	7.4	109	47.3	108	94	54	0	0	1	1
ND BISMARCK	55	38	75	33	47	-7	.6	.4	.3	1.0	67	13.0	94	95	59	0	0	3	0
ND FARGO	62	42	75	34	52	-1	1.1	.8	.8	2.1	95	12.6	74	93	53	0	0	4	0
ND GRAND FORKS	57	42	70	34	49	-3	1.0	.7	.5	1.6	76	15.1	94	95	67	0	0	3	0
ND WILLISTON	52	35	74	30	43	-9	1.9	1.7	1.2	2.8	187	13.8	108	91	63	0	3	3	2
OH AKRON-CANTON	70	51	79	46	61	1	.9	.4	.5	3.0	97	25.5	93	87	54	0	0	3	1
OH CINCINNATI	77	53	84	47	65	1	.2	.3	.2	1.7	59	34.9	114	89	49	0	0	1	0
OH CLEVELAND	71	52	83	50	62	2	2.2	1.6	1.8	4.8	155	27.1	102	93	59	0	0	2	1
OH COLUMBUS	72	51	81	49	62	1	.7	.2	.4	4.4	152	29.4	100	96	58	0	0	2	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

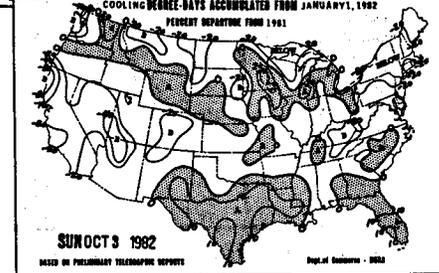
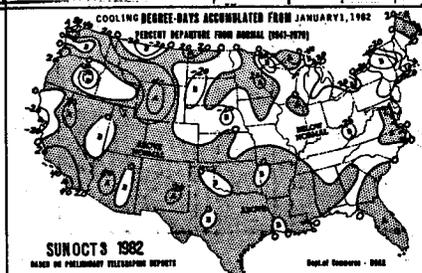
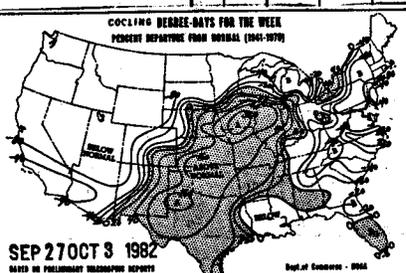
Weather Data for the Week Ending Oct. 2, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Aug. 29	PCT. NORMAL SINCE Aug. 29	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	73	52	81	49	62	0	.4	-.1	.3	1.4	52	33.6	123	96	55	0	0	2	3
TOLEDO	73	49	87	46	61	2	1.4	-.9	1.2	2.0	71	20.0	83	99	58	0	0	2	1
YOUNGSTOWN	69	50	79	45	59	1	.8	-.1	.5	2.1	66	25.2	88	96	60	0	0	3	1
OK OKLAHOMA CITY	85	63	90	52	74	5	.7	-.1	.7	3.6	90	31.1	123	77	50	1	0	1	1
TULSA	85	62	89	47	74	5	.4	-.9	.1	3.0	64	26.1	89	77	43	0	0	1	0
OR ASTORIA	64	46	69	38	55	-1	.1	-.6	.2	4.0	118	45.5	121	84	57	0	0	1	0
BURNS	60	34	67	24	47	-6	T	-.1	T	1.2	300	7.9	104	79	40	0	4	4	0
MEDFORD	67	41	74	34	54	-6	.1	-.2	-.1	1.2	150	10.4	87	90	41	0	4	2	0
PENDLETON	63	45	69	35	54	-6	T	-.2	T	1.1	157	7.0	88	83	41	0	0	4	0
PORTLAND	66	47	71	42	56	-3	.1	-.4	-.1	4.3	239	26.7	125	93	54	0	0	0	0
SALEM	66	43	73	36	54	-4	.2	-.3	.2	2.1	131	23.5	100	94	52	0	0	3	0
PA ALLENTOWN	71	52	78	47	61	1	.8	-.1	.7	1.6	39	36.9	115	94	51	0	0	2	1
ERIE	68	51	76	44	60	2	.7	-.1	.6	3.1	76	29.2	107	81	61	0	0	2	1
HARRISBURG	71	53	78	50	62	-1	1.0	-.5	.6	2.9	97	33.2	108	94	54	0	0	2	1
PHILADELPHIA	74	58	78	55	66	2	.8	-.2	.4	2.9	78	33.6	113	90	49	0	0	2	1
PITTSBURGH	68	50	77	46	59	-1	.9	-.3	.8	2.6	87	25.3	91	89	57	0	0	2	1
SCRANTON	70	50	74	45	60	1	.1	-.5	-.1	1.1	34	29.6	114	93	63	0	0	2	0
RI PROVIDENCE	70	55	78	48	62	-.3	.3	-.4	.3	3.9	100	40.3	135	91	61	0	0	1	0
SC CHARLESTON	79	60	83	57	69	2	1.3	-.3	1.3	3.9	66	39.2	92	95	54	0	0	1	1
COLUMBIA	79	52	85	49	65	-5	.2	-.6	.2	3.4	65	42.6	113	98	50	0	0	1	0
FLORENCE	77	57	84	55	67	-3	.3	-.5	.3	1.6	34	32.2	90	99	52	0	0	1	0
GREENVILLE	77	54	84	52	66	-2	T	-.8	T	1.6	36	44.1	121	89	46	0	0	1	0
SD ABERDEEN	64	45	77	34	54	0	-.1	-.1	-.1	-.1	-.1	-.1	-.1	88	50	0	0	1	0
HURON	65	48	76	41	57	1	1.0	-.6	.9	5.3	252	21.4	130	93	54	0	0	2	1
RAPID CITY	61	40	78	34	51	-6	1.7	1.4	.7	2.9	193	21.8	143	90	54	0	0	6	1
SIoux FALLS	67	48	78	42	58	1	1.1	-.6	.7	8.7	272	24.1	113	95	62	0	0	3	1
TN CHATTANOOGA	80	53	84	51	66	-1	0	-.8	0	1.3	32	40.1	103	97	45	0	0	0	0
KNOXVILLE	78	54	82	50	66	-1	.4	-.2	.4	2.7	87	42.0	121	97	53	0	0	1	0
MEMPHIS	82	56	86	49	69	-1	0	-.6	0	1.8	51	43.3	117	90	41	0	0	0	0
TX NASHVILLE	79	54	84	51	67	-1	0	-.6	0	3.7	103	37.3	107	100	50	0	0	0	0
ABILENE	91	68	98	61	79	7	.2	-.4	.2	1.3	48	17.8	95	73	33	4	0	1	0
AMARILLO	83	58	92	51	71	5	.1	-.4	.1	1.5	63	16.4	99	75	33	1	0	1	0
AUSTIN	91	70	94	63	80	5	.2	-.6	.2	2.3	56	18.7	77	80	38	4	0	2	0
BEAUMONT	88	65	90	51	76	1	0	-.1	0	1.1	17	42.4	101	90	45	2	0	0	0
BROWNVILLE	93	73	95	67	83	3	T	-.1	T	2.4	41	17.9	94	85	42	7	0	1	0
GORPUS CHRISTI	91	72	93	67	82	3	T	-.1	T	.6	11	15.8	71	81	44	6	0	1	0
DEL RIO	93	71	97	68	82	6	0	-.7	0	1.0	30	9.2	68	74	33	6	0	0	0
EL PASO	86	62	97	55	74	3	2.1	1.9	2.1	5.2	433	7.9	125	69	25	2	0	1	1
FORT WORTH	89	66	93	53	78	4	0	-.7	0	.6	17	30.4	123	66	34	5	0	0	0
GALVESTON	82	75	85	66	78	1	0	-.1	0	1.3	20	20.0	63	80	58	0	0	0	0
HOUSTON	89	65	91	50	77	1	.3	-.7	.3	1.3	25	22.6	64	92	40	3	0	1	0
LUBBOCK	88	63	94	59	76	9	.1	-.5	.1	1.3	50	17.5	114	77	30	3	0	1	0
MIDLAND	90	67	96	62	79	7	T	-.4	T	1.5	79	11.7	106	74	30	4	0	0	0
SAN ANGELO	92	68	98	56	80	7	.3	-.3	.3	.4	13	15.2	108	75	35	5	0	1	0
SAN ANTONIO	91	68	94	58	80	4	.1	-.7	.1	1.0	23	13.4	64	83	37	5	0	2	0
VICTORIA	93	68	94	57	80	3	.1	-.1	.1	1.3	25	19.1	73	85	39	7	0	1	0
WACO	92	68	95	51	80	5	T	-.7	T	.2	6	22.0	93	81	37	6	0	0	0
WICHITA FALLS	90	65	95	53	78	5	.6	-.1	.6	2.7	79	33.1	156	79	39	4	0	1	1
UT Blanding	67	39	80	30	53	-6	1.4	1.1	1.4	2.6	217	11.9	131	78	31	0	1	2	1
CEDAR CITY	61	38	75	31	50	-9	1.0	.9	.4	1.9	211	12.0	162	87	44	0	1	4	0
SALT LAKE CITY	57	43	67	39	50	-10	4.5	4.3	2.3	7.2	800	18.4	169	93	55	0	0	6	3
VT BURLINGTON	66	50	73	38	58	3	.8	-.2	.7	2.3	64	25.0	100	89	62	0	0	3	1
VA NORFOLK	73	61	75	54	67	-1	2.1	1.3	1.6	3.6	75	37.2	106	93	63	0	0	4	1
RICHMOND	74	55	78	54	65	-1	1.9	1.1	1.9	2.6	60	37.6	113	99	64	0	0	1	1
ROANOKE	74	52	82	49	63	-1	1.3	.5	1.3	2.8	68	34.7	117	97	54	0	0	1	1
WA COLVILLE	60	43	67	38	52	-2	.5	.3	.3	1.7	170	13.3	122	91	59	0	0	3	0
QUILLAYUTE	62	40	67	35	51	-4	.8	-.1	.4	5.0	83	71.3	116	98	61	0	0	3	0
SEATTLE-TACOMA	62	46	64	43	54	-3	.4	-.2	.3	1.6	73	23.1	103	93	58	0	0	4	0
SPokane	61	43	64	34	52	-3	.2	0	.1	1.8	180	11.2	101	92	52	0	0	3	0
WV YAKIMA	69	42	72	37	55	-2	T	-.1	T	1.2	300	6.4	128	84	38	0	0	0	0
BECKLEY	67	48	76	42	57	-2	.6	-.1	.6	2.4	59	34.5	103	97	59	0	0	1	1
CHARLESTON	73	53	82	49	63	0	.5	-.1	.4	3.1	91	34.2	108	95	60	0	0	2	0
HUNTINGTON	71	51	81	48	61	-2	.5	-.1	.3	2.7	79	33.8	110	99	62	0	0	2	0
PARKERSBURG	74	56	82	53	65	3	.8	-.3	.6	2.5	78	28.8	86	97	60	0	0	2	1
WI GREEN BAY	67	51	78	43	59	4	T	.6	T	2.1	60	20.9	99	91	64	0	0	0	0
LA CROSSE	67	52	76	38	59	2	.8	-.1	.5	3.6	95	17.9	73	91	65	0	0	4	0
MADISON	73	49	85	37	61	5	T	.7	T	2.5	63	22.2	91	92	55	0	0	4	0
MILWAUKEE	70	51	84	42	61	4	0	-.6	0	.8	23	24.4	106	96	63	0	0	0	0
WAUSAU	64	51	72	45	58	4	1.5	.8	1.1	6.1	142	30.3	117	96	70	0	0	4	1
WY CASPER	57	40	74	32	48	-6	1.3	1.1	.7	3.5	350	15.2	167	96	56	0	1	5	1
CHEYENNE	60	41	72	34	51	-3	.7	.5	.5	2.8	255	16.7	138	92	49	0	0	4	1
LANDER	50	36	62	28	43	-11	2.0	1.7	.8	3.2	267	9.8	90	90	62	0	3	6	2
SHERIDAN	56	39	71	35	48	-6	.5	.2	.2	2.3	144	11.9	92	87	56	0	0	6	0
PR SAN JUAN	92	77	95	76	85	4	.2	-.1	.1	3.6	50	33.5	78	87	55	7	0	3	0

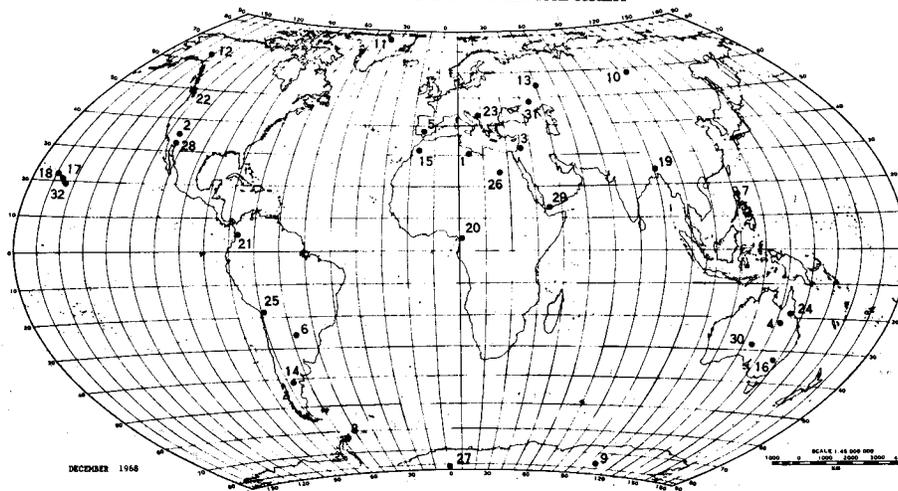
BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

COOLING DEGREE DAYS (BASE 65°) FOR WEEK ENDING OCT. 3, 1982.
BASED ON 1941-70 NORMALS. +ACCUMULATION FROM JAN. 1, 1982

Table with columns for STATES AND STATIONS, WEEKLY DEPARTURE\*, SEASONAL ACCUMULATION +, and corresponding values for various locations across the United States.



WORLDWIDE EXTREMES OF TEMPERATURE AND PRECIPITATION  
RECORDED BY CONTINENTAL AREA



● Key numbers correspond to data entries on following page.

TEMPERATURE EXTREMES

Key No.	Area	Highest °F	Place	Elevation Feet	Date
1	Africa	136	Azizia, Libya	380	Sep. 13, 1922
2	North America	134	Death Valley, Calif.	-178	July 10, 1913
3	Asia	129	Tirat Tsvi, Israel	+722	June 21, 1942
4	Australia	128	Cloncurry, Queensland	622	Jan. 16, 1889
5	Europe	122	Seville, Spain	26	Aug. 4, 1881
6	South America	120	Rivadavia, Argentina	676	Dec. 11, 1905
7	Oceania	108	Tuguegarao, Philippines	72	Apr. 29, 1912
8	Antarctica	58	Esperanza, Palmer Pen.	26	Oct. 20, 1956

Key No.	Area	Lowest °F	Place	Elevation Feet	Date
9	Antarctica	-127	Vostok	11,220	Aug. 24, 1960
10	Asia	- 90	Oymykon, U.S.S.R.	2,625	Feb. 6, 1933
11	Greenland	- 87	Northice	7,690	Jan. '9, 1954
12	North America	- 81	Snag, Yukon, Canada	1,925	Feb. 3, 1947
13	Europe	- 67	Ust'Shchugor, USSR	279	January +
14	South America	- 27	Sarmiento, Argentina	879	June 1, 1907
15	Africa	- 11	Ifrane, Morocco	5,364	Feb. 11, 1935
16	Australia	- 8	Charlotte Pass, N.S.W.	---	July 22, 1947*
17	Oceania	14	Haleakala Summit, Maui	9,750	Jan. 2, 1961

+ exact date unknown; lowest in 15-year period  
\* and earlier date  
--- elevation unknown

EXTREMES OF AVERAGE ANNUAL PRECIPITATION

Key No.	Area	Greatest Amount Inches	Place	Elevation Feet	Years of Record
18	Oceania	460.0	Mt. Waialeale, Kauai, Hawaii	5,075	32
19	Asia	450.0	Cherrapunji, India	4,309	74
20	Africa	404.6	Debundscha, Cameroon	30	32
21	South America	353.9	Quibdo, Colombia	240	10-16
22	North America	262.1	Henderson Lake, B. C., Canada	12	14
23	Europe	182.8	Crkvice, Yugoslavia	3,337	22
24	Australia	179.3	Tully, Queensland	---	31

Key No.	Area	Least Amount Inches	Place	Elevation Feet	Years of Record
25	South America	0.03	Arica, Chile	95	59
26	Africa	<0.1	Wadi Halfa, Sudan	410	39
27	Antarctica	* 0.8	South Pole Station	9,186	10
28	North America	1.2	Batagues, Mexico	16	14
29	Asia	1.8	Aden, Arabia	22	50
30	Australia	4.05	Mulka, South Australia	---	34
31	Europe	6.4	Astrakhan, USSR	45	25
32	Oceania	8.93	Fuako, Hawaii	5	13

\* The value given is the average amount of solid snow accumulating in one year as indicated by snow markers. The liquid content of the snow is undetermined.

## September Weather and Crop Summary

**HIGHLIGHTS:** Persistent heavy showers from southern Illinois and western Kentucky into northern Mississippi early in the month swelled small streams and caused local flooding throughout the Tennessee Valley. The month began with dry weather in the winter wheat areas of the central and southern Plains but showers and thunderstorms at midmonth and again at the end of the month partially relieved the dry condition. Adequate rainfall and near normal temperatures allowed crops to progress normally in the western Corn Belt, but the crops were already behind normal. It was cooler than normal in the eastern part of the Belt. Freezing temperatures pushed into the extreme northern Plains and northern Great Lakes region at midmonth. Near the end of the month Tropical Storm Olivia pushed moisture through California and into the western mountains. The resulting heavy rain was disastrous to some of the fruit and vegetable crops, especially in the San Joaquin Valley.

Heavy showers and thunderstorms during the first 4 days of the month caused local flooding from Missouri to southern Illinois and from northwestern Georgia to eastern Kentucky. Lighter showers covered the area from Arkansas to the Great Lakes and eastward to the Appalachian Mountains.

**FIRST WEEK...** Unusually warm temperatures began through the Plains and spread slowly eastward over the Corn Belt. Average temperatures for the week were over 6° warmer than normal in the central and northern Plains. Moderate showers fell in the Southwest and central Rockies, while heavier showers and thunderstorms covered the area from the central Plains to the western Great Lakes. Moderate showers in the central Plains benefited the winter wheat areas but did not extend southward into Oklahoma and Texas. A tropical storm in the Gulf of Mexico spread rain from Louisiana into Georgia and Florida.

**SECOND WEEK...** A mass of cool air moved into the Pacific Northwest and was augmented by colder air from Canada which spread into the Rockies and across the northern Plains. Snow fell in parts of the northern Rockies where temperatures were below the freezing point. Early-morning freezing temperatures were also recorded over all but extreme eastern North Dakota and in parts of northern Minnesota. Precipitation in the form of showers and thunderstorms especially benefited the winter wheat areas in Oklahoma and northern Texas. The remnants of a tropical storm spread heavy rain from the Mississippi Delta through Kentucky. The heavy rain in Kentucky and Tennessee exacerbated wet conditions already in those areas.

**THIRD WEEK...** Unseasonably cold weather spread over all of the area east of the Rockies. Average temperatures for the week were as much as 9° to 12° colder than normal in the eastern portion of the central Plains and in the Tennessee Valley and 6° to 10° colder over all of the Corn Belt. Freezing temperatures in low places were reported as far south as central Nebraska and northern Iowa. Light to moderate showers were spread over northern Texas and parts of the east coast. Lighter showers fell throughout the East, but the northern and central Plains had little or no rain. Moisture from Tropical Storm Olivia swept northward through California and caused unseasonable rain in the San Joaquin Valley.

**FOURTH WEEK...** The injection of moisture from Tropical Storm Olivia into the western mountain area caused a persistent and complex storm that spread showers over the Plateau and northern Rockies through the end of the month. Snow fell only at

high elevations early in the period, but after an outbreak of colder air from Canada, the snow spread to the central Plateau and the High Plains of Montana. The remnants of Hurricane Paul moved over Mexico and into New Mexico on the last day of the month and supplied moisture that triggered heavy showers from New Mexico to the central Plains.

### September Row Crop Summary

Corn and soybeans were in good to excellent condition in most of the Corn Belt and Southeast and fair to mostly good condition in other producing areas as September began. Crop development lagged as the month began in the western Corn Belt due to late plantings but was ahead of usual in the eastern area. Adequate rainfall and near normal temperatures in the western region during September permitted crops to develop at an average pace, but progress remained behind average. In the eastern Corn Belt, temperatures were cooler than normal and dry weather stressed crops in a few areas. Freezing temperatures plunged southward at mid-month into the northern Plains and Great Lakes area. However, damage to crops was minor.

Corn was 79 percent mature by October 3. Only 30 percent of the corn in Nebraska was mature, 55 percentage points behind the average. Development lagged by 20 points in Iowa and Wisconsin and 12 points in Minnesota. Harvest advanced to 12 percent complete, behind the average of 18 percent. Combining was active in all major States except Pennsylvania with progress ranging from 1 percent complete in Nebraska and Wisconsin to 94 percent finished in Georgia.

Leaves were dropping on 67 percent of the soybean acreage by October 3, only 1 point behind a year ago. Harvesting was 15 percent complete, slightly behind 1981 and average. Progress was behind normal in 9 of the 18 major States. Harvest was active in all States except North Carolina with progress ranging from 1 percent complete in South Carolina to 44 percent finished in Illinois.

Cotton was in fair to mostly good condition. By October 3, bolls were opening on 67 percent of the acreage. Seventeen percent of the acreage had been harvested, equal to the average progress for this date. Harvest was active in all States except New Mexico and Oklahoma.

One half of the sorghum acreage was mature on October 3, behind the average of 74 percent. In Nebraska, only 10 percent was mature, compared to an average of 80 percent. Harvest was 29 percent finished, lagging the average of 37 percent. Harvest was active in all major States except Colorado and Nebraska.

Rice was 65 percent harvested by October 3, only 1 point behind average. Progress ranged from 5 percent complete in California to 100 percent in Texas.

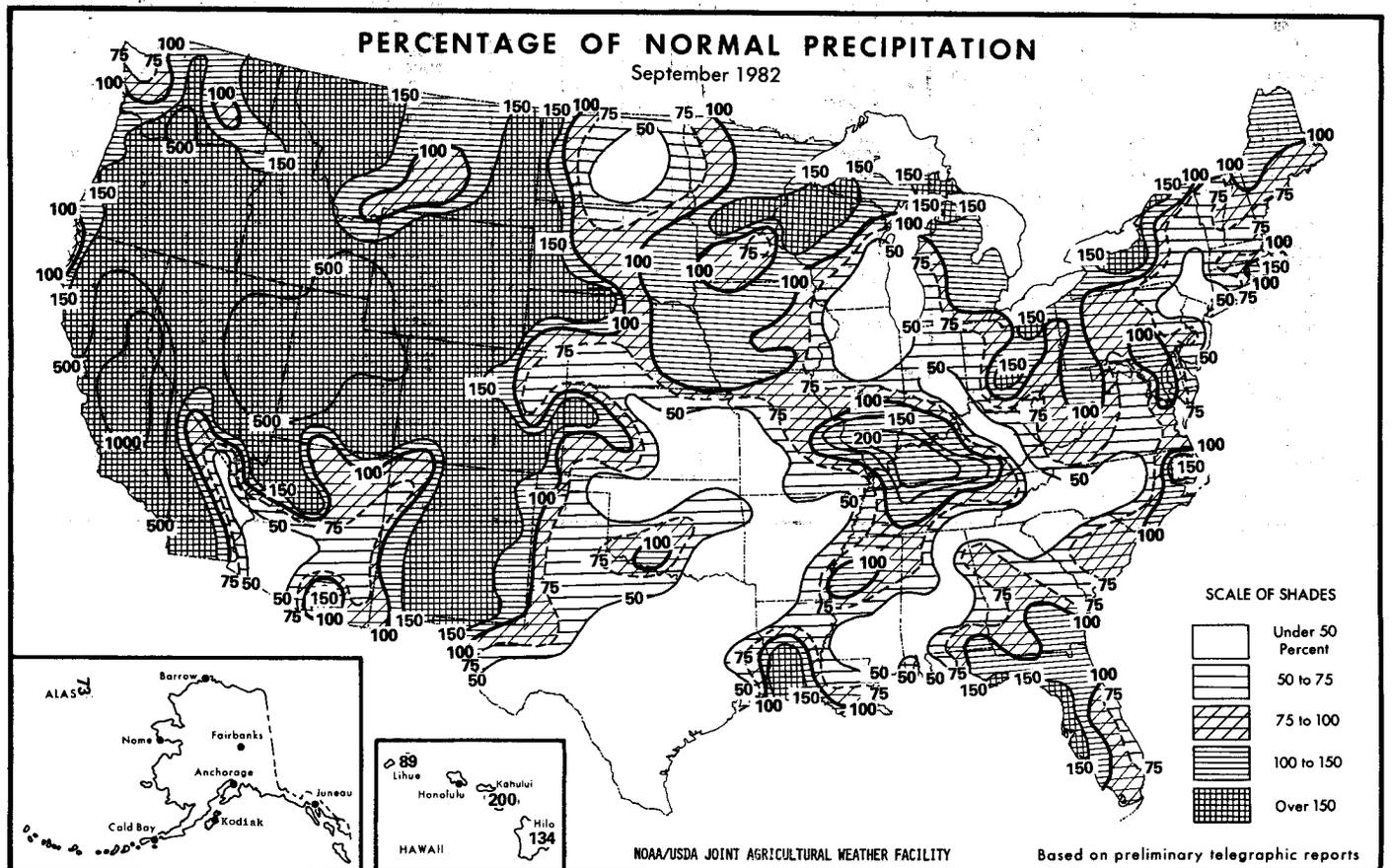
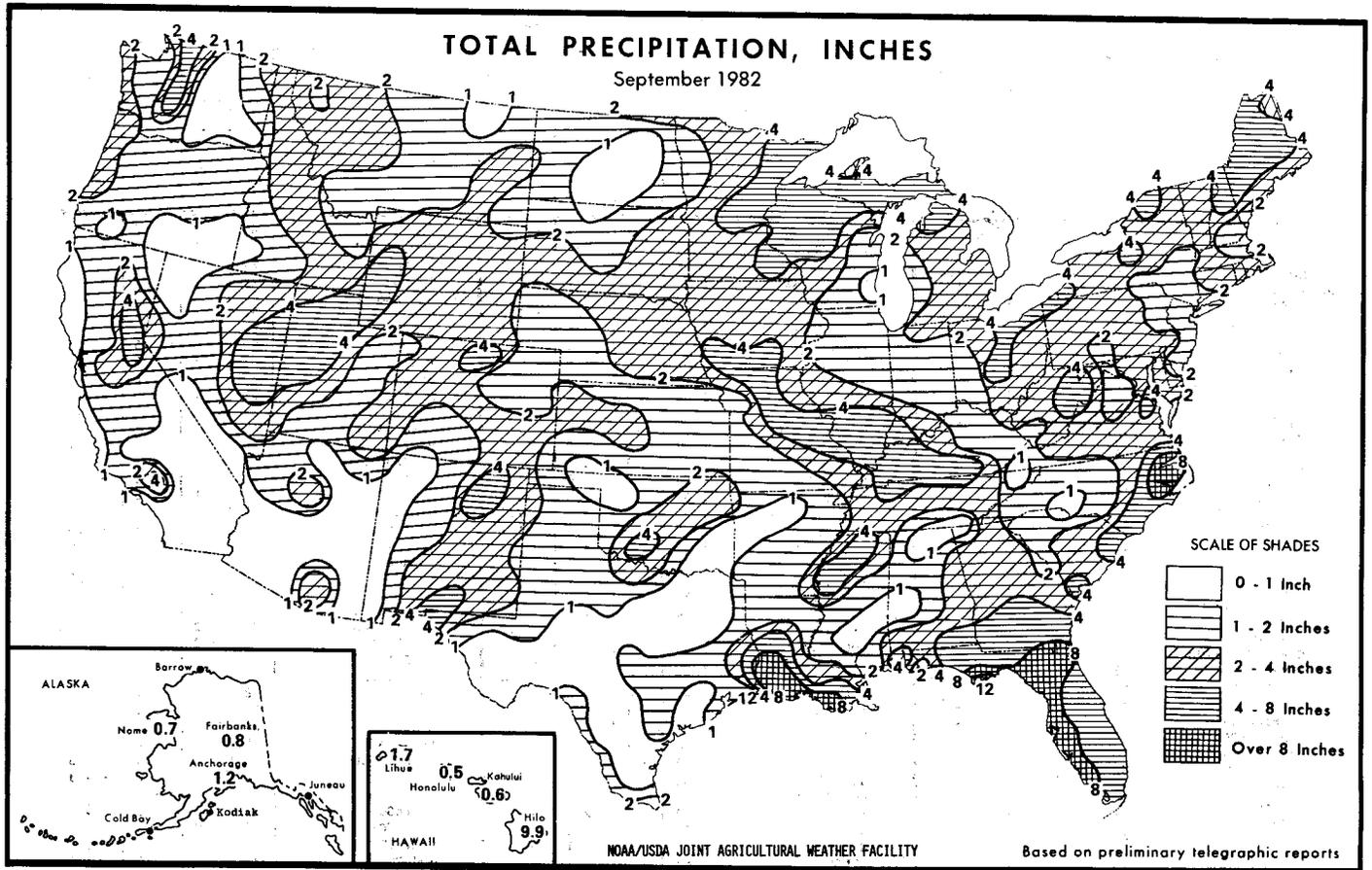
### WINTER WHEAT SEEDING

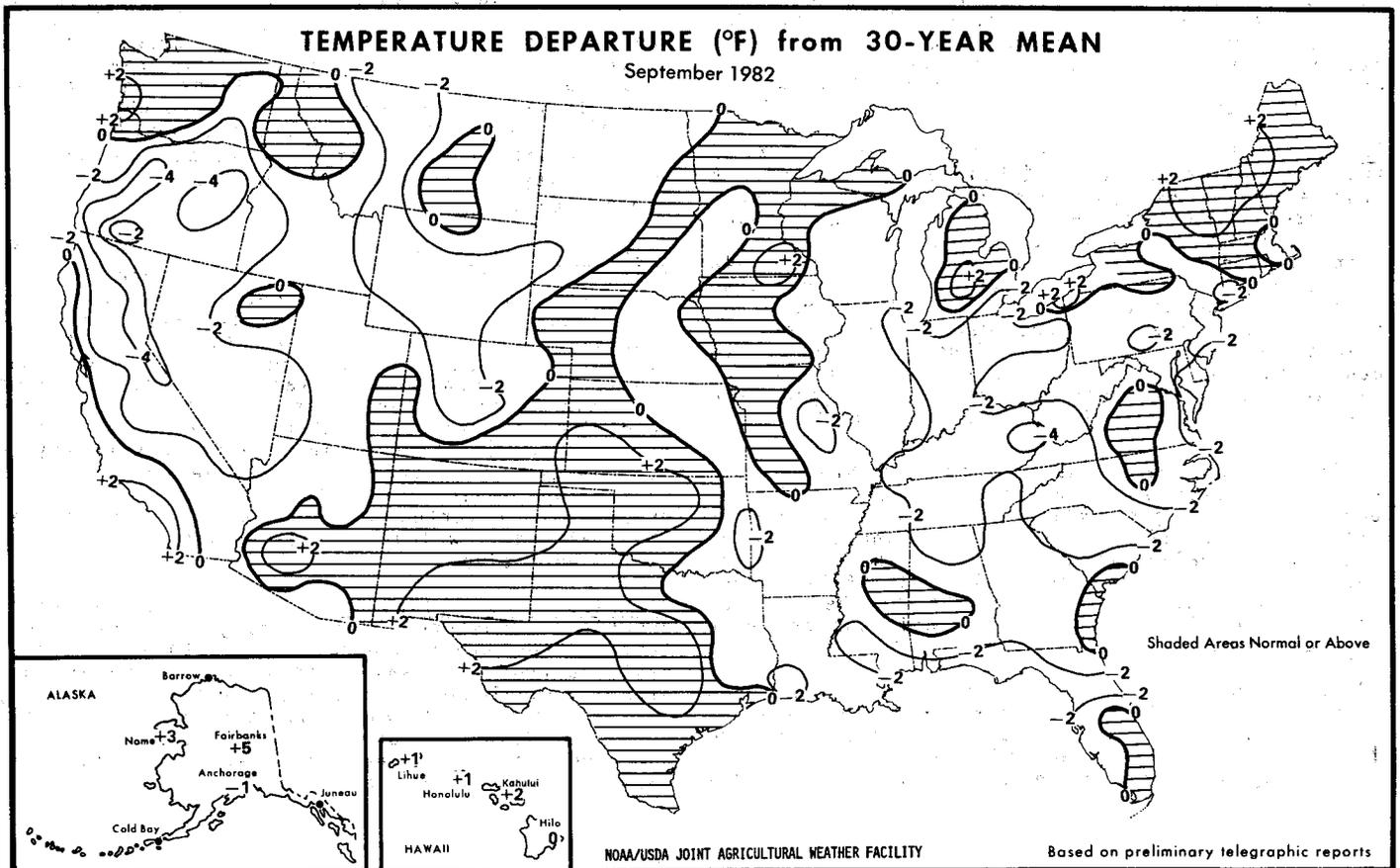
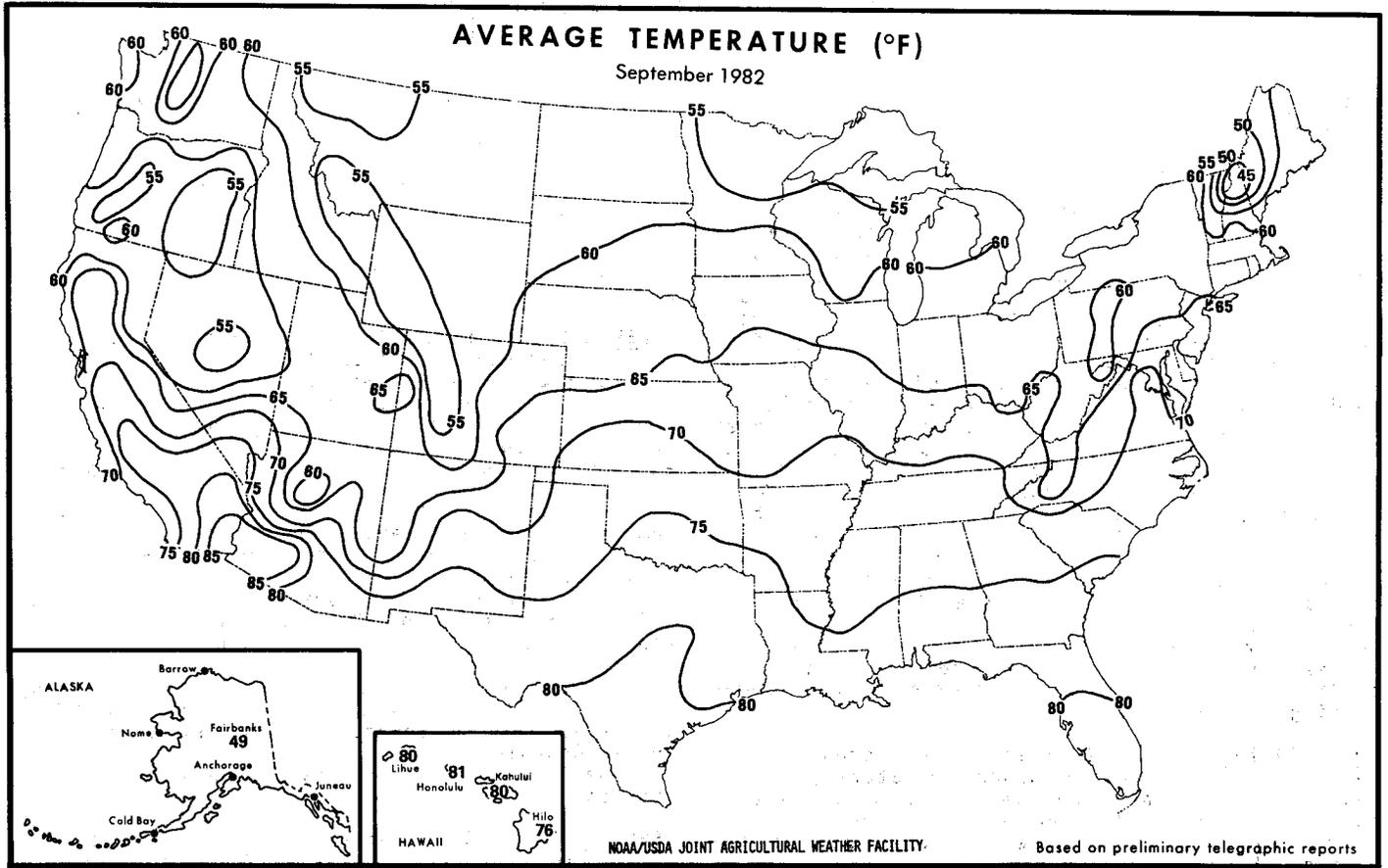
Winter wheat seeding for 1983 harvest reached 53 percent complete by October 3, only 5 percentage points behind a year ago and 1 point behind average. Progress was behind average in all States except California, Idaho, Kansas, and Washington. Showers and thunderstorms at mid-month and again at the end of September helped relieve dryness on the central and southern Plains. However, dry conditions persisted in some parts of Oklahoma and Texas and growers delayed seeding in hopes of receiving rain.

Temperature and Precipitation Data for September 1982

States and Stations	Temperature OF		Precipitation Inches		States and Stations	Temperature OF		Precipitation Inches		States and Stations	Temperature OF		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
AL BIRMINGHAM	73	-1	1.9	-1.7	LA BATON ROUGE	77	-1	2.5	-1.3	TOLEDO	62	-2	2.0	-.4
MOBILE	76	-2	4.7	-1.9	LAKE CHARLES	76	-2	8.5	-4.4	YOUNGSTOWN	61	-2	2.2	-.4
MONTGOMERY	76	0	2.0	-2.4	NEW ORLEANS	77	-1	5.4	-.2	OK OKLAHOMA CITY	75	2	2.9	-.7
AK ANCHORAGE	47	-1	1.2	-1.2	SHREVEPORT	76	-1	1.1	-2.0	TULSA	75	2	3.0	-1.1
BARROW	--	--	--	--	ME CARIBOU	55	1	3.7	-.2	OR ASTORIA	60	-2	3.7	-.9
FAIRBANKS	49	5	.8	-.3	PORTLAND	59	0	1.9	-1.2	BURNS	53	-5	1.1	.6
JUNEAU	--	--	--	--	MD BALTIMORE	67	-2	3.6	.5	MEDFORD	63	-1	1.0	.4
KODIAK	--	--	--	--	MA BOSTON	64	-1	1.6	-1.6	PENDLETON	61	-3	1.5	.9
NOME	45	3	3.7	1.3	CHATHAM	62	--	6.8	--	PORTLAND	63	1	4.0	2.4
AZ FLAGSTAFF	58	0	3.2	1.5	MI ALPENA	57	1	3.6	.3	SALEM	61	-1	1.8	.3
PHOENIX	87	3	.1	-.6	DETROIT	62	-2	2.6	-.4	PA ALLENTOWN	64	-1	1.8	-1.8
TUCSON	79	-1	2.7	1.3	FLINT	61	0	2.8	.3	ERIE	63	2	4.1	.5
WINSLOW	69	-1	.7	-.2	GRAND RAPIDS	62	0	1.9	-1.4	HARRISBURG	65	-2	2.9	.2
YUMA	86	-1	.2	.0	HOUGHTON LAKE	57	0	3.6	.4	PHILADELPHIA	68	0	2.3	-.7
AR FORT SMITH	72	-2	.6	-2.7	LANSING	60	2	3.5	.9	PITTSBURGH	63	-1	2.8	.3
LITTLE ROCK	72	-1	1.4	-2.1	MARQUETTE	54	0	5.0	1.0	SCRANTON	62	-1	1.1	-1.8
CA BAKERSFIELD	77	0	.7	-.6	MUSKEGON	60	-2	1.8	-1.6	RI PROVIDENCE	64	1	3.6	.3
EUREKA	59	0	.6	-.1	SAULT STE. MARIE	54	-1	6.1	2.2	SC CHARLESTON	75	0	3.9	-1.3
FRESNO	72	-2	1.1	1.0	MN DULUTH	54	0	4.2	1.1	COLUMBIA	72	-3	3.3	-1.0
LOS ANGELES	72	3	.8	.7	INT'L FALLS	54	1	3.6	.3	GREENVILLE	70	-2	1.4	-2.4
RFD BLUFF	73	-2	1.5	1.2	MINNEAPOLIS	61	1	1.5	-1.2	SD ABERDEEN	--	--	--	--
SAN DIEGO	73	3	.4	.3	ROCHESTER	61	2	4.1	1.0	HURON	61	0	2.3	.5
SAN FRANCISCO	64	0	1.0	.8	SAINT CLOUD	57	-1	4.4	1.7	RAPID CITY	59	-2	2.7	1.5
STOCKTON	71	-1	2.5	2.3	MS JACKSON	74	-2	1.1	-1.9	SIoux FALLS	60	-1	3.5	.6
CO DENVER	62	-1	1.4	.3	MERIDIAN	75	0	.1	-3.2	TN CHATTANOOGA	70	-2	.6	-3.1
GRAND JUNCTION	68	1	2.8	2.0	MO COLUMBIA	66	-2	4.3	-.1	KNOXVILLE	71	-2	2.7	-.1
PUEBLO	66	0	2.2	-1.4	KANSAS CITY	68	0	1.6	-2.6	MEMPHIS	73	-1	1.9	-1.1
CT BRIDGEPORT	64	-3	1.3	-1.6	SAINT LOUIS	69	-1	5.3	2.4	NASHVILLE	70	-2	3.2	.1
HARTFORD	63	0	2.4	-1.2	SPRINGFIELD	69	0	1.2	-2.9	TX ABILENE	78	2	1.1	-1.2
DC WASHINGTON	71	0	1.7	-1.4	MT BILLINGS	60	1	1.2	-.2	AMARILLO	71	1	1.4	-.5
FL APALACHICOLA	77	-2	15.4	6.4	GLASGOW	57	0	1.0	.1	AUSTIN	82	3	1.8	-1.9
DAYTONA BEACH	78	-2	5.0	-2.1	GREAT FALLS	54	-3	2.4	1.2	BEAUMONT	79	0	1.0	-4.3
FORT MYERS	81	-1	9.3	.6	HAVRE	55	-2	1.3	-.2	BROWNSVILLE	83	1	2.4	-2.8
JACKSONVILLE	78	0	9.3	1.5	HELENA	56	0	2.7	1.7	CORPUS CHRISTI	82	1	.6	-4.3
KEY WEST	82	-1	6.4	-.9	FALISPELL	53	0	1.9	.8	DEL RIO	81	1	1.1	-2.0
MIAMI	83	1	7.6	-1.1	MILES CITY	59	-1	2.2	1.0	EL PASO	77	3	5.3	4.1
ORLANDO	80	0	7.0	-.2	MISSOULA	56	1	2.1	1.0	FORT WORTH	78	0	.6	-2.6
TALLAHASSEE	76	-2	6.6	.0	NE GRAND ISLAND	63	-1	2.4	-.1	GALVESTON	81	1	1.3	-4.3
TAMPA	80	-1	10.8	4.4	LINCOLN	65	-1	3.2	.3	HOUSTON	79	0	1.0	-3.7
WEST PALM BEACH	82	0	6.0	-3.9	NORFOLK	63	0	2.7	.3	LUBBOCK	74	3	1.3	-.9
GA ATLANTA	71	-1	3.0	-.2	NORTH PLATTE	62	0	1.3	-.7	MIDLAND	77	2	1.4	-.1
AUGUSTA	73	-1	1.9	-1.4	OMAHA	64	0	4.0	.8	SAN ANGELO	77	0	.1	-2.6
MACON	75	-1	3.0	-.1	VALENTINE	61	0	2.7	1.2	SAN ANTONIO	80	1	.9	-2.8
SAVANNAH	76	0	3.0	-2.6	NV ELY	55	-2	5.0	4.4	VICTORIA	82	2	1.1	-3.5
HI HILO	76	0	9.9	-2.5	LAS VEGAS	78	-2	.1	-.2	WACO	81	3	-.2	-3.0
HONOLULU	81	1	.5	-.2	RENO	57	-3	2.3	2.1	WICHITA FALLS	77	0	2.1	-.9
KAHULUI	80	2	.6	.3	WINNEMUCCA	57	-2	1.1	.8	UT BLANDING	63	0	2.6	1.6
LIHUE	--	--	--	--	NH CONCORD	60	0	1.9	-1.2	SALT LAKE CITY	64	-1	7.0	6.3
ID BOISE	60	-3	1.4	1.0	NJ ATLANTIC CITY	65	-2	1.3	-1.7	VT BURLINGTON	62	3	2.1	-1.0
LEWISTON	64	-1	1.0	.1	TRENTON	--	--	--	--	VA LYNCHBURG	69	1	2.3	-1.0
POCATELLO	58	-1	3.4	2.8	NM ALBUQUERQUE	70	0	1.3	.5	NORFOLK	70	-2	3.6	-.6
IL CAIRO	70	-2	2.2	-1.3	ROSWELL	--	--	--	--	RICHMOND	70	0	2.6	-1.0
CHICAGO	62	-2	1.2	-1.8	NY AI BANY	63	1	1.4	-1.7	ROANOK	66	-2	2.7	-.7
MOLINE	64	-1	1.9	-1.9	BINGHAMTON	61	1	1.9	-1.1	WA COLVILLE	59	0	1.5	.7
PEORIA	65	-1	1.2	-2.4	BUFFALO	62	0	3.4	.1	OMAK	63	1	.6	-.1
ROCKFORD	62	-1	1.7	-2.3	NEW YORK	67	-1	1.4	-1.8	QUILLAYUTE	58	1	3.8	-1.4
SPRINGFIELD	66	-1	2.8	-.5	ROCHESTER	63	1	3.6	1.2	SEATTLE-TACOMA	61	1	1.5	-.5
IN EVANSVILLE	68	-1	6.1	3.3	SYRACUSE	61	-2	4.2	1.5	SPOKANE	59	-1	1.8	1.0
FORT WAYNE	63	-2	1.6	-1.0	ASHEVILLE	65	-2	1.1	-2.5	WALLA-WALLA	--	--	--	--
INDIANAPOLIS	64	-2	1.2	-1.7	CHARLOTTE	70	-2	.6	-2.9	YAKIMA	60	1	1.8	1.5
SOUTH BEND	63	-1	2.5	-.6	GREENSBORO	68	-2	1.2	-2.4	WV BECKLEY	61	-2	1.7	-1.7
IA BURLINGTON	65	0	2.5	-1.2	FATTERAS	73	-1	4.5	-1.3	CHARLESTON	66	-2	2.6	-.3
DES MOINES	65	1	2.9	-.2	RALEIGH	71	0	1.6	-2.2	HUNTINGTON	64	-4	2.0	-.9
DUBUQUE	--	--	--	--	WILMINGTON	72	-3	7.1	1.5	PARKERSBURG	--	--	--	--
SIoux CITY	63	0	3.6	1.1	ND BISMARCK	57	-1	.5	-.8	WI GREEN BAY	58	-1	1.4	-1.8
KS CONCORDIA	67	-1	1.8	-1.3	FARGO	58	0	1.1	-.6	LA CROSSE	61	-1	2.7	-.7
DODGE CITY	72	3	1.3	-.4	WILLISTON	56	-1	1.9	.7	MADISON	59	-1	1.4	-2.0
COODLAND	65	1	3.4	2.0	OH AKRON-CANTON	62	-2	3.0	.4	MILWAUKEE	61	0	.6	-2.4
TOPEKA	67	-1	1.2	-2.1	WILLISTON	67	-1	1.3	1.3	WY CASPER	57	-2	3.4	2.5
WICHITA	72	1	1.1	-2.6	CLEVELAND	63	-1	4.8	2.0	CHEYENNE	57	-1	2.9	1.9
KY LEXINGTON	66	-3	1.2	-1.5	COLUMBUS	64	-1	4.3	1.9	LANDER	55	-3	3.8	2.7
LOUISVILLE	67	-2	3.5	.6	DAYTON	64	-2	1.4	-.9	SHERIDAN	58	0	2.9	1.6
									PR SAN JUAN	--	--	--	--	

Based on 1941-70 normals





## National Agricultural Summary

September 27 - October 3

**HIGHLIGHTS:** Rainfall in the central Plains and extreme northwest Texas improved the outlook for newly seeded winter wheat, but dryness continued to delay seedings in parts of the southern Plains. Rain halted fieldwork across the northern tier of States but was needed to help restore soil moisture supplies, especially in the northern Plains. Farmers had 4 to 7 days suitable for fieldwork except in Idaho and Montana where wet conditions limited the number of days available to less than 3. Soil moisture was short to adequate except in the area extending from Idaho eastward through Minnesota. In Wisconsin, some surplus supplies were recorded. Winter wheat seeding remained on schedule as progress passed to half-way mark. Corn development and harvest lagged the average; 79% was mature and 12% had been combined. Soybean harvest picked up momentum; plants were dropping leaves on 67% of the acreage, and 15% of the acreage had been harvested. Cotton harvest was on schedule; bolls were opening on 67% of the acreage, and 17% of the acreage had been picked. Sorghum was 29% harvested. Rice harvest advanced to 65%. Tobacco harvesting and marketing remained active. Fall apple picking was in full swing. Pastures and ranges were in fair to good condition. Livestock condition was rated good. Movement from summer grazing continued.

**SMALL GRAINS:** The 1983 winter wheat crop was 53% seeded in the 15 major producing States, behind last year's 58% and the average of 54%. Seeding in Kansas reached 70% completion, 10 points ahead of average. Oklahoma growers seeded 35% of the acreage, 5 points behind normal. In Texas, 42% of the land was seeded, 6 points behind average. Light rain improved the outlook for newly seeded fields, but more is needed to relieve dryness and to produce good stands. In parts of Oklahoma and Texas, growers delayed seeding in hopes of receiving rain. In the Low Plains of Texas, emerged wheat was moisture stressed. Dry weather delayed wheat and oat planting in the Blacklands.

**CORN:** In the 17 major producing States, 79% of the corn was mature and 12% had been harvested. A year earlier, 84% was mature and 16% had been harvested. Harvest was underway in all major States except Pennsylvania. Progress ranged from just 1% complete in Nebraska and Wisconsin to 94% in Georgia. Development continued slower than average in the western Corn Belt. The percentage of the crop reaching the mature stage was 12 points behind average in Minnesota, 20 points behind in Iowa and Wisconsin, and 55 points behind in Nebraska. Harvesting progress lagged the average in all but 5 of the 17 major States.

**SOYBEANS:** In the 18 major producing States, 67% of the soybeans were dropping leaves and 15% had been combined, just slightly behind last year's progress. The 1982 harvest was behind average in 9 of the 18 major States. Most of these 9 States were in the western Corn Belt. Rainfall helped some late-planted fields in the Southeast, but more is needed to relieve dry conditions and ease moisture stress.

**COTTON:** Cotton continued in fair to mostly good condition. In the 14 major producing States, bolls were opening on 67% of the acreage, behind last year's 71% but ahead of the average of 65%. Harvesting was active in all States except New

Mexico and Oklahoma. Progress ranged from 1% complete in California to 46% in Missouri. In the 14 major States, 17% of the acreage had been harvested, equal to the average progress for this date. Bolls were opening rapidly in the Panhandle of Texas, but most of the State's crop was maturing slowly due to continued cool weather. Defoliation was underway on the southern High Plains. Stalk destruction was active in east and south-central Texas.

**OTHER CROPS:** In the 7 major producing States, 29% of the sorghum had been harvested, behind last year's 33% and the average of 37%. Harvest had started in all States except Colorado and Nebraska. Coloring was well advanced in all States. Crop prospects remain good in Texas if any early frost does not damage the late-planted fields.

Rice harvest was finished in Texas and neared completion in Louisiana. In the 5 major States, harvest reached 65% completion, only 1 point behind normal.

Tobacco harvest and marketing remained in full swing. Stripping of the barley crop was 15% finished in Tennessee. The Kentucky burley crop was 15% cured.

Peanut harvest continued in full swing. Harvest was 12% complete in North Carolina, 17% in Virginia, 26% in Texas, 60% in Mississippi, and 79% in Georgia.

The Florida sugarcane harvest was just getting started.

**VEGETABLES:** Fall vegetable harvests were in full swing in northern areas. Growers harvested broccoli, cauliflower, peas, beans, and spinach. Maine potatoes were 60% harvested. Continued rain halted the Idaho potato harvest at the 15% mark. This was well behind the average of 29%. Frequent showers fell in Florida's vegetable growing areas, delaying fieldwork. Flooding in low areas caused some crop damage. Land preparations and planting were active as weather permitted. Light harvest of a few crops continued. Rain and wet fields slowed California's vegetable harvest, lowered the quality of some crops, and caused losses in other crops.

**FRUITS AND NUTS:** Fall apple picking was in full swing. Florida's citrus groves remained in near excellent condition, with adequate moisture and very little irrigation required. Harvest increased on all early varieties of fruit. Arizona's citrus groves were in very good condition. Lemon picking was active in the Yuma and Salt River Valley areas. Citrus was in good condition in Texas, although irrigation needs remained heavy. Growers in California were trying to salvage raisin grapes. The wine grape harvest picked up again after the rains. Some table grapes were diverted to wine due to rain damage. The almond, walnut, and pistachio harvest continued active.

**PASTURES AND LIVESTOCK:** Scattered rainfall benefited pastures and ranges, but cool temperatures again slowed the growth of grasses. Pastures condition was rated fair to good in most areas. Supplemental feeding continued necessary in many areas of Texas. Livestock were in mostly good condition. Movement from summer grazing remained active. Some cattle were moved in wheat pastures in the Panhandle of Texas.

**CROP PROGRESS**

FOR WEEK ENDING OCT 3

	SOYBEANS % DROPPING LEAVES		
	1982	1981	AVG.
ALA	45	49	NA
ARK	30	29	36
GA	50	39	NA
ILL	92	82	93
IND	95	70	90
IOWA	70	97	96
KANS	50	65	NA
KY	50	36	50
LA	53	49	48
MICH	95	95	92
MINN	97	99	98
MISS	79	82	76
MO	49	61	63
NEBR	50	90	90
N C	18	16	8
OHIO	95	70	85
S C	20	25	25
TENN	39	39	37

	SOYBEANS % HARVESTED		
	1982	1981	AVG.
ALA	13	8	NA
ARK	3	6	4
GA	3	3	3
ILL	44	25	38
IND	30	10	25
IOWA	8	38	33
KANS	5	10	10
KY	8	4	9
LA	17	17	15
MICH	8	3	4
MINN	10	19	23
MISS	10	11	12
MO	6	14	15
NEBR	2	30	25
N C	0	0	0
OHIO	25	10	15
S C	1	NA	NA
TENN	2	3	4

	CORN % MATURE		
	1982	1981	AVG.
COLO	45	50	62
GA	100	100	NA
ILL	99	94	98
IND	95	60	90
IOWA	77	98	97
KANS	80	85	90
KY	92	90	92
MICH	85	80	75
MINN	74	86	86
MO	78	85	77
NEBR	30	75	85
N C	100	100	98
OHIO	95	55	80
PA	47	65	54
S DAK	83	81	97
VA	95	97	NA
WIS	72	92	92

	CORN % HARVESTED		
	1982	1981	AVG.
COLO	2	1	8
GA	94	93	82
ILL	14	14	19
IND	12	7	12
IOWA	5	20	17
KANS	20	25	35
KY	30	35	34
MICH	4	2	4
MINN	2	5	9
MO	25	33	38
NEBR	1	8	15
N C	77	79	73
OHIO	15	5	10
PA	0	6	6
S DAK	4	12	11
VA	41	49	49
WIS	1	2	3

18 STATES 67 68 NA  
EXCL. STATES WITH NA 68 69 74

18 STATES 15 NA NA  
EXCL. STATES WITH NA 16 17 20

17 STATES 79 84 NA  
EXCL. STATES WITH NA 78 84 90

17 STATES 12 16 18  
THESE 17 STATES PRODUCED 93% OF THE 1981 CORN CROP.

THESE 18 STATES PRODUCED 95% OF THE 1981 SOYBEAN CROP.

THESE 18 STATES PRODUCED 95% OF THE 1981 SOYBEAN CROP.

THESE 17 STATES PRODUCED 93% OF THE 1981 CORN CROP.

NA - NOT AVAILABLE

NA - NOT AVAILABLE

NA - NOT AVAILABLE

	COTTON % BOLLS OPENING		
	1982	1981	AVG.
ALA	92	88	63
ARIZ	94	95	95
ARK	96	91	78
CALIF	85	90	78
GA	73	84	80
LA	97	97	81
MISS	100	100	97
MO	100	86	82
N MEX	85	85	80
N C	94	98	83
OKLA	50	65	50
S C	90	88	91
TENN	87	70	58
TEX	48	54	52

	WINTER WHEAT % PLANTED		
	1982	1981	AVG.
CALIF	1	0	0
COLO	88	86	90
IDAHO	49	50	40
ILL	18	18	19
IND	20	15	25
KANS	70	70	60
MO	12	19	21
MONT	65	70	85
NEBR	90	98	93
OHIO	20	20	30
OKLA	35	60	40
OREG	31	31	37
S DAK	94	93	97
TEX	42	46	48
WASH	64	65	59

	SORGHUM % HARVESTED		
	1982	1981	AVG.
COLO	0	1	3
KANS	5	10	20
MO	36	29	32
NEBR	0	4	15
OKLA	10	25	15
S DAK	6	17	17
TEX	70	74	73

	SORGHUM % COLORING		
	1982	1981	AVG.
COLO	76	75	85
KANS	85	95	NA
MO	96	93	97
NEBR	85	98	98
OKLA	NA	NA	NA
S DAK	91	99	100
TEX	95	96	94

	COTTON % HARVESTED		
	1982	1981	AVG.
ALA	13	24	16
ARIZ	3	14	10
ARK	38	22	20
CALIF	1	1	3
GA	12	35	27
LA	30	36	20
MISS	27	48	25
MO	46	7	24
N MEX	0	0	1
N C	18	22	17
OKLA	0	5	1
S C	12	26	24
TENN	25	10	17
TEX	18	16	20

THESE 15 STATES PRODUCED 88% OF THE 1981 WINTER WHEAT CROP.

	RICE % HARVESTED		
	1982	1981	AVG.
ARK	62	77	57
CALIF	5	25	19
LA	95	97	94
MISS	60	78	69
TEX	100	100	100

	SORGHUM % MATURE		
	1982	1981	AVG.
COLO	25	42	53
KANS	35	50	65
MO	74	73	77
NEBR	10	70	80
OKLA	65	85	70
S DAK	72	86	83
TEX	76	80	81

THESE 7 STATES PRODUCED 92% OF THE 1981 SORGHUM CROP.

NA - NOT AVAILABLE

THESE 7 STATES PRODUCED 92% OF THE 1981 SORGHUM CROP.

THESE 14 STATES PRODUCED 99% OF THE 1981 COTTON CROP.

THESE 5 STATES PRODUCED 98% OF THE 1981 RICE CROP.

## 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 SRS State Offices in cooperation with the National Weather Service.

**ALABAMA:** Temperatures normal with little rainfall.

Soil moisture mostly very short to short. Fieldwork: 6.0 days. Peanuts dug 95%, 71% 1981, 52% average; combined 88%, 59% 1981, 42% average. Corn harvested 90%, 85% 1981, 68% average. Soybeans leaves turning yellow 70%, 76% 1981, 73% average; dropping leaves 45%, 49% 1981. Soybeans mature 30%, 22% 1981; harvested 13%, 8% 1981. Cotton bolls open 92%, 88% 1981, 63% average; harvested 18%, 24% 1981. Sorghum harvested 67%, 50% 1981. Conditions: Peanuts good, corn, soybeans, cotton, sorghum and livestock fair to good. Pastures poor to fair.

**ALASKA:** Winter has returned as an Arctic front slowly pushed south plummeting temperatures into the teens at night and bringing snow to some sections. Max temperatures cooled from the 40's to the 30's by the weekend, averaging 1 to 5° below normal. Minimum temperatures though cold certain nights averaged 2 to 7° above normal. Precipitation ranged from 0.25 to 1.00 in. across the valleys.

Favorable weather for fieldwork ranged from only few hours in Matanuska Valley up to five days in Tanana Valley. Rain and damp conditions kept moisture content of barley high at 25%. Barley combining 90% complete, compared with less than 35% a year ago. Haying activities in the wind up stages in Tanana Valley while Matanuska Valley farmers at standstill for nearly four weeks. Hay supplies could become short in Matanuska Valley if weather conditions do not improve. Potato digging in final stages. Livestock going into winter in mostly good to excellent condition. Ground soil moisture supplies rated mostly adequate or better.

**ARIZONA:** A cold system moved across State first part week, rain fell over central basins, Mogollon Rim, White Mountains northward. Amounts mostly under 0.50 in. except 1.50 in. Flagstaff, Sedona area. Temperatures dropped 10 to 15°. Minimum temperatures lower 20's mountains, 40's, 50's deserts. High by week's end increased 5 to 10°. Average temperatures mostly 1 to 9° below normal.

Open bolls in 94% all cotton fields, 95% last year and average. Crop development late, harvest behind normal; 3% crop picked compared 14% last year, average 10%. Insects a concern some areas. Sorghum harvest steady rate. Later planted sorghum just heading to approaching maturity. Corn harvest slow, steady progress, very good yields reported. Alfalfa haying tapering off. Guar reasonable progress. Recent cooler nights beneficial growth winter vegetables. Lettuce harvest good progress Cochise County. Lettuce central, western areas growing very well. Cochise County pumpkins, apples, carrots remained. Salt River Valley area, harvest green onions, greens, squash, cantaloups, honeydews, few watermelons active. Cabbage, cauliflower, broccoli growing well. Lemon picking active Yuma, Salt River Valley. Other new crop fruit sizing well, groves mostly very good condition. Range, pasture substantial improvement during September. Winter browse started, looking good. Most stock tanks full, partly full on many mid-to-higher elevation ranges. Western counties spotty rains, ranges varied widely very dry to excellent condition. Cattle mostly fair, good condition.

**ARKANSAS:** Warm, dry week. Highest temperature 94°, lowest 40°. All departures from normal -5 to +5°. No rainfall.

Seven days suitable for fieldwork. Soil moisture short. Crop growth slow. Soybean condition fair; turning yellow 52%, 52% 1981, 51% average; shedding 30%, 29% 1981, 36% average; mature 15%, 16% 1981, 19% average; harvested 3%, 6% 1981, 4% average. Rice good condition; ripe 94%, 96% 1981, 95% average; harvested 62%, 77% 1981, 57% average. Cotton good condition; virtually all open bolls, 91% 1981, 78% average; harvested 38%, 22% 1981, 20% average. Sorghum good condition, harvested 91%, 87% 1981, 78% average. Oats good condition, planted 6%, 7% 1981, 14% average. Wheat good condition, planted 10%, 8% 1981, 12% average. Pastures average. Cattle good condition.

**CALIFORNIA:** A trough off the coast combined with moisture from Hurricane Olivia to produce widespread rainfall. Many areas received well over half an inch, while Huntington Lake received the most with 4.20 in. Temperatures with few exemptions ranged upwards to 14° below normal. The highest temperature was 105° at Imperial with the coldest being 21° at Alturas.

Good weather and northerly winds improved conditions most crops. Rice harvest increasing, 5% complete, 25% last year, 19% average. Cotton condition satisfactory with 85% of bolls open, 90% last year, 78% average. Defoliation increasing southern areas San Joaquin Valley. Dry bean harvest resumed. Field corn and grain sorghum harvest active. Sugarbeet harvest continues. Ground preparation planting small grains increasing. Winter wheat planting 1%. Alfalfa haying continues. Salvaging raisin grapes in full swing. Wine grape harvest picked up after the rains. Bunch rot noted. Table grape harvest continued, some diverted to wine because of rain damage. Olive harvest started with Queen and Manzanillo varieties. Kiwi harvest limited in Sacramento Valley. Desert lemon harvest continued. Almond, walnut and pistachio harvests continue. Broccoli supplies moderate. Carrot harvest light, wet fields delay harvest. Cauliflower supplies moderate some diversion freezers. Honeydew harvest slow-wet fields quality down some losses. Some cantaloup acreage abandoned due rains. Season nearly done. Lettuce moderate supply Salinas-Watsonville quality problems wet fields. Fall potato harvest increasing Tulalake-Butte Valleys. Strawberry harvest slow, some losses remainder of season fresh market only. Fresh market tomato losses heavy San Joaquin Valley and King City areas. San Diego County normal. Processing tomato harvest more active. Picking slow, must sort for mold. Just over 5.6 million tons received as of 2nd with 7 to 10% of crop remaining for harvest. Harvest to last 7 to 10 days before wind down. Recent rains started new grass. Movement livestock winter pastures continues. Calving active coastal, valley areas. Santa Maria-Oceano area better. Bell pepper harvest hampered wet fields.

**COLORADO:** Widespread precipitation 30th thru 1st over the mountains. Average precipitation in Colorado Basin 0.75 in. with snow over 9,000 feet. The 2nd thru 3rd had cooler temperatures in the east along with rain. Platte and Kansas Basin had precipitation of 0.25 in. Arkansas Basin 0.50 in. Temperatures were 1 to 2° below normal in northeast; 1 to 2° above normal elsewhere.

Grain and hay harvest delayed slightly from rain. Row crop prospects mostly good. Winter wheat: 88% seeded, 65% emerged; last year 86% seeded, 62% emerged; average 90% seeded, 67% emerged. Dry beans suffer from vine rot, 76% cut, 42% threshed; last year 86% cut, 62% threshed. Corn 87% dented, 45% mature; 2% harvested; in 1981, 94% dented, 50% mature, 1% harvested; average, 94% dented and 62% mature, 8% harvested. Corn silage 88% harvested. Sorghum 80% turning, 25% mature; last year 75% turning and 42% mature. Alfalfa third cutting 60% complete, fourth cutting 11%. Top and subsoil moisture adequate to surplus. Five days suitable for fieldwork. Livestock in good to very good condition.

FLORIDA: An old frontal system across the Everglades began to move northward first of week as a weak warm front spread rain showers, new cold front central Peninsula; both moved into Florida Straits and dissipated. On the 29th a tropical trough moved into south Florida from the Bahamas and then into central Peninsula, then dissipated. Showers, thunderstorms returned to normal pattern of mornings, east coast; late evenings, west coast. Late week brought much drier air, some sunshine as a small ridge of high pressure began to build.

Soil moisture variable, mostly adequate north and west, adequate to excessive central and south. Harvesting peanuts active, yields good. Soybean harvest underway, yields variable. Hay harvest continues, delayed by wet condition in southern areas. Sugarcane harvest for sugar beginning. Cotton mostly good condition, maturing. Seed corn in south rapid growth. Land being prepared for small grains. Pasture condition primarily good to excellent except in Panhandle where poor to fair condition reported due to reduced rainfall. Armyworms continue a problem especially on Bermuda pastures. Cattle in mostly good condition. New crop fruit making excellent progress. Harvest increasing on all early varieties. Cloudy to partly cloudy skies, frequent showers prevailed vegetable areas. Cooler temperatures, heavy rains, strong winds occurred early week. Adverse weather delayed fieldwork. Gusty winds, flooding in low areas caused some crop damage. Preventive spray programs stepped up. Land preparation, planting of fall vegetables active, weather permitting. Laying of plastic mulch for strawberries active. Some planting expected this week. Light harvest sweet corn, cucumbers, eggplant, pepper, squash continues. Pole bean harvest active Gadsden County. Light harvest fall watermelons expected this week or next.

GEORGIA: A dry week. Rainfall averaged about 0.33 in. coastal and extreme northern sections and less than 0.10 in. elsewhere. Temperatures 2 to 4° below normal most locations. No rainfall 2nd and 3rd except traces from showers. Temperatures averaged 3 to 4° below normal.

Soil moisture: 15% very short, 59% short, 26% adequate. Six days suitable for fieldwork. Major activities: Harvesting corn, peanuts, hay; small grain land preparation and planting. Conditions: Cotton 42% fair, 51% good, 5% excellent; peanuts 15% fair, 73% good, 10% excellent; soybeans 5% poor, 44% fair, 48% good; pecans 5% poor, 45% fair, 45% good; hay 39% fair, 55% good; pasture 5% poor, 43% fair, 49% good. Corn 94% harvested, 93% last year, 82% average. Cotton 73% bolls opened, 84% last year, 80% average; 12% harvested, 35% last year, 27% average. Peanuts 92% dug, 71% last year, 69% average; 79% threshed, 57% last year, 56% average. Soybeans 50% dropping leaves, 39% last year; 3% harvested, 3% last year, 3% average. Wheat 6% planted, 6% last year, 9% average. Rye 20% planted, 13% last year, 13% average. Other small grains 14% planted, 14% last year, 13% average. Apples 99% harvested, 89% last year, 88% average.

HAWAII: Weather favorable for crop development. Showers generally light. Few gusty winds. Light damage to exposed areas. Spraying minimized insect and disease damage. Vegetables: Supplies light to moderate. Only sweetpotatoes heavy. Romaine increasing. Bananas: Supplies steady. Papayas: Fall seasonal flush underway. Increased production anticipated. Pineapples: Light harvest. Sugar: Steady harvest. Pastures: Generally fair to good.

IDAHO: A wet and cool week was experienced. Temperatures were up to 6° below normal. High was 82° at Caldwell and Kuna. Lowest was 25° at Fairfield. Precipitation was well above normal. Most areas received at least 0.50 in. of water and many over 1.00 in. In the northern portion of the State, Porthill recorded the most with 1.19 in. In the south many readings were over 1.00 in. and Grace reported 2.17 in.

Less than 3 days suitable for fieldwork as rain continued to dominate. Potato harvest at a standstill, reaching only 15%, well behind the average of 29% dug by this time. Barley harvest 91%, 100% last year, 96% average. Third cutting alfalfa hay 57% harvested. Dry bean combining at 52%, 92% in 1981. Onions were 68% harvested, but were rained on once again. Corn silage 64% harvested. Winter wheat seeding 49% complete, 60% last year, 40% average. Ranges in excellent condition, snow at higher elevations, and cattle were being moved off of fall allotments.

ILLINOIS: Temperatures 3 to 6° above normal. Maximum temperatures climbed into the 80's in many sections of the State. Precipitation light in most sections of the State with little or no rain being recorded.

Corn 99% mature, 94% 1981, 98% average; 14% harvested, 14% 1981, 19% average. Soybeans 92% dropping leaves, 82% 1981, 93% average; 44% harvested, 25% 1981, 38% average. Eighteen percent of the 1983 winter wheat crop has been seeded. This compares to 18% last year and the average of 19%. Fifteen percent of the sorghum crop had been harvested. Seven percent of the intended ground for corn and soybeans has been tilled (plowed or chiseled) for next year's crop. This compares with 5% last year and the average of 6%. Pastures 5% excellent, 78% good, 17% fair. Soil moisture 25% short and 75% adequate. Days suitable for fieldwork: 6.5.

INDIANA: Fieldwork averaged 6 days. Topsoil and subsoil moisture short to mostly adequate. Corn 12% harvested, 1981 7%, average 12%. Corn moisture content 25%, 1981 28%. Corn 95% mature, 1981 60%, average 90%. Soybeans 30% harvested, 1981 10%, average 25%. Soybean moisture content 14%. Soybeans 85% mature, 1981 35%, average 70%. Soybeans 95% shedding leaves, 1981 70%, average 90%. Wheat land 60% plowed, 1981 60%, average 65%. Wheat 20% seeded, 1981 15%, average 25%. Tobacco 90% harvested, 1981 85%, average 95%. Silos 90% filled, 1981 55%, average 80%.

IOWA: A warm week with moderate precipitation in the northwest and north central and only isolated light showers in the southeast. Temperatures averaged 4° above normal in the northwest and north central to 8° above normal across the south.

Topsoil moisture: 28% surplus, 70% adequate, 2% short. Subsoil moisture: 16% surplus, 83% adequate, 1% short. Corn mature: 77%, last year 98%, normal 97%. Corn harvested: 5%, last year 20%, normal 17%. Soybeans with leaves turning: 92%, last year 100%, normal 100%. Soybeans with leaves shedding: 70%, last year 97%, normal 96%. Soybeans mature: 46%, last year 93%, normal 90%. Soybeans harvested: 8%, last year 38%, normal 33%. Winter wheat sown: 30%, last year 44%, normal 59%. Field-

work: 5.2 days suitable. Crop conditions: Corn, soybeans, and pasture mostly good to excellent. Livestock in good condition.

**KANSAS:** Precipitation none east central and south-east, 0.50 in. central and southwest, 0.90 in. northwest and 1.50 in. west central. Temperatures 64° northwest, 70 to 72° east and south ranging 5 to 7° above normal.

Temperatures above normal during week, late crop maturity lags behind last year and average. Sorghum 85% coloring, last year 95%; 35% mature, 50% last year, 65% average; 5% harvested, 10% last year, 20% average. Soybeans 50% shedding leaves, 65% last year; 5% harvested, 10% last year and average. Corn 80% mature, 85% last year, 90% average; 20% harvested, 25% last year, 35% average. Winter wheat 70% planted, 70% last year, 60% average. Six days suitable for fieldwork.

**KENTUCKY:** Temperatures averaged 1 to 3° above normal. Light precipitation.

Soil moisture 7% short, 84% adequate, 7% surplus. Suitable fieldwork days: 5.2. Corn 30% harvested, 35% last year, average 34%; 92% mature, 90% year ago, 92% average. Soybeans 8% harvested, 4% last year, 9% average; 50% dropping leaves or beyond, 36% year ago, 50% average. Burley tobacco 15% cured. Houseburn severity mostly light. Other activities: Fall wheat seeding, hay harvest.

**LOUISIANA:** Rainfall 0 to 0.71 in. Temperatures 2 to 4° below normal. High 91°, low 46°.

Soil moisture short to adequate. Days suitable: 6.4. Corn harvested 99%, 96% 1981, 93% average. Rice harvested 96%, 97% 1981, 94% average. Cotton open bolls 97% 1982 and 1981, 81% average; harvested 30%, 36% 1981, 20% average; condition good. Soybeans leaves turning 79%, 77% 1981, 72% average; shedding 53%, 49% 1981, 48% average; harvested 17% 1982 and 1981, 15% average; condition fair to good. Sorghum harvested 93%, 91% 1981, 82% average. Wheat planted 2%, 4% 1981, 19% average. Sweetpotatoes harvested 69%, 81% 1981, 67% average; condition good. Sugarcane planted 81%, 84% 1981, 62% average; condition good. Pecans harvested 1%. Pecans and vegetables rated fair. Last cutting of hay 86%, 87% 1981. Pastures fair. Cattle good.

**MARYLAND AND DELAWARE:** Rain on the 25th and 26th contributed much needed moisture to dry fields and pasture. Topsoil moisture improved somewhat in all areas. Subsoil moisture improved but remained in short supply in Maryland, but reported adequate in Delaware.

**Maryland:** Corn 90% mature, 80% last year; 40% harvested equals last year. Silage 90% harvested both years. Soybeans 70% turning, 40% shed leaves; last year 75% turned, 35% shed leaves. Tobacco harvest 95% complete, 100% last year. Apple harvest 55% complete. Small grain harvest, barley and rye, 30% harvested, 45% last year. Wheat 5% planted, last year 29%. Oats 20% planted.

**Delaware:** Corn 90% mature; 50% harvested for grain; last year 85% mature, 50% harvested. Silage 100% cut, 90% last year. Soybeans 90% turned, 60% shed leaves, last year 70% and 35% respectively. Apples 65% harvested this year and last. Small grain planting; barley 45%, and rye 20% planted, last year 30% and 15% respectively.

**MICHIGAN:** Mostly mild and dry. Average temperatures, from 5 to 9° above normal in lower Peninsula, from 3 to 4° above normal in upper Peninsula. Lows were from 32 to 48° and highs from 73 to 84°. Precipitation: 0 to 0.75 in. Many stations, none.

Dry bean harvesting, wheat planting and corn silage chopping were extensive. Hay-making and fruit and vegetable harvests continued. Sugar-beet lifting and soybean combining underway. Harvesting corn for grain still light due to high moisture content. Wheat planting and germination conditions good. McIntosh apple harvest finishing; Jonathans and Red Delicious in full swing. Grape harvest nearing halfway. Wheat planted, 40%, 25% 1981, 45% average. Dry bean harvest, 55%, 55% 1981, 65% average. Soybeans mature, 60%, 55% 1981, 45% average. Corn silage harvest, 65%, 50% 1981, 60% average. Hay, 3rd crop, 85%, 70% last year, 75% average.

**MINNESOTA:** Wet weather with near normal temperatures. Temperatures averaged from the upper 40's north to the upper 50's south and north were normal to 4° below normal and 3 to 4° above normal south. The highest reported temperature was 81° at Browns Valley, and the coolest reported temperature was 30° at Fosston, Hallock and Warroad. Rainfall averaged 1.00 in. or over in all areas except 0.95 in. in the east central. The heaviest amounts were along the northern and southern borders with more than 2.00 in. total. The largest amount reported was 3.84 in. in Preston.

Heavy rains nearly halted field activity in many areas. Last cutting of hay down and getting rained on, but hay fields green and in good shape for winter. Corn and soybean fields too wet and crop moisture content still high. Topsoil moisture: 5% short, 69% adequate, and 26% surplus. Mature: Corn 74%, 1981 86%, normal 86%; soybeans 59%, 1981 76%, normal 83%. Harvested: Corn 2%, 1981 5%, normal 9%; soybeans 10%, 1981 19%, normal 23%.

**MISSISSIPPI:** Temperatures only slightly below normal. Extremes: 43 and 90°. Little to no rainfall except along coast. Greatest amount 0.38 in. at Biloxi.

Soil moisture short to adequate north, very short to short central and south. Fieldwork: 6.5 days suitable. Cotton 100% with some open bolls, 100% last year, 97% average; 27% harvested, 48% last year, 25% average; condition good to fair. Soybeans 79% shedding, 82% last year, 76% average; 10% harvested, 11% last year, 12% average; condition good to fair. Rice 60% harvested, 78% last year, 69% average; condition fair to good. Corn 75% harvested, hay 95%, sorghum 61%, peanuts 60%, sorghum silage 92%, sweetpotatoes 51% harvested. Winter wheat 9% seeded, 20% last year, 24% average. Pasture condition fair.

**MISSOURI:** Temperatures averaged 4° above normal. Warm, dry weather was general throughout the State as little to no rain fell.

Fieldwork was 5.9 days suitable. Corn 78% mature, last year 85%, normal 77%. Corn 25% harvested, last year 33%, normal 38%. Grain sorghum 74% mature, last year 73%, normal 77%. Grain sorghum 36% harvested, last year 29%, normal 32%. Soybeans 71% turning color, last year 79%, normal 80%. Soybeans 24% mature, last year 14%, normal 50%. Winter wheat seeding 12% completed, last year 19%, normal 21%. Plowing for spring-planted crops 9% completed, last year 12%, normal 9%. Cotton 46% harvested, last year 7%, normal 24%. Pasture condition 10% excellent, 59% good and 31% fair. Topsoil moisture supply 10% surplus, 82% adequate and 8% short. Soybeans 6% harvested, last year 14%, normal 15%.

**MONTANA:** Precipitation 1.00 to 2.00 in. over nearly all the State early in week. Most precipitation in valleys and plains came as rain. Heavy

snow in mountains. Temperatures were 2 to 8° below normal, warmest in west and coolest in east.

Topsoil moisture adequate. Subsoil moisture mostly adequate. Days suitable for fieldwork less than 2. Harvest progress compared with last year and normal: Spring wheat 95, 100, 100; barley 95, 100, 100; sugarbeets 10, 5, 15; second cutting alfalfa hay 95, 100, 100; corn silage 75, 90, 85; dry beans 75, 85, 75; and potatoes 35, 20, 30. Winter wheat seeded 65% compared with 70% last year and 85% normally. Germination mostly good; 40% of the acreage emerged. Cattle and sheep moved from summer ranges 40%.

NEBRASKA: Precipitation: 0.25 in. in Panhandle up to near 3.00 in. in northeast. Temperatures: 2° below normal in Panhandle to 7° above normal in southeast.

Corn good; dent 90%, 98% last year and 100% normal; mature 30%, 75% year ago and 85% normal; harvested 1%, 8% last year and 15% normal. Soybeans good; turning color 85%, 95% last year and 98% normal; shedding 50%, 90% last year and normal; harvested 2%, 30% year ago and 25% normal. Sorghum good; turning color, 85%, 98% last year and normal; ripe 10%, 70% previous year and 80% normal; harvested 0%, 4% last year and 15% normal. Wheat sown 90%, 98% last year and 93% normal; emerged 65%, 80% last year. Pasture and range feed supplies adequate. Topsoil moisture adequate to surplus. Subsoil moisture adequate. Days suitable: 4.8.

NEVADA: Last days of September brought heavy amounts precipitation and an end to one of wettest Septembers on record. Precipitation heavy early in week changing to snow midweek with lower temperatures. End of period saw clearing skies and warmer weather. Temperatures averaged 8 to 10° below normal north and central, near normal to slightly above south.

Wet fields slowed potato harvest main producing area. Rains caught considerable cut hay on ground. Completion alfalfa seed and grain harvests hampered by soggy fields. Cattle drifting down from summer ranges. Pastures and ranges excellent.

NEW ENGLAND: Temperatures above normal north, near normal central and below normal south. Precipitation ranged from nearly 2.00 in. over northern Maine to a little less than 1.00 in. elsewhere. Most precipitation occurred during the first part of the week.

Five days suitable for fieldwork. Soil moisture short to adequate. Maine potatoes: Topkilling nearly complete, harvest about 60% complete, 1981, 67%; quality ranges from poor to good. Third crop hay harvest: 80%; quality about average. Silage corn harvest: 25%, 1981, 53%. Cranberry harvest: 25% complete, early varieties nearly done, later varieties to start this week. Crop holding near estimate.

NEW JERSEY: Temperatures averaged above normal. Extremes: 34° at Charlotteburg on 3rd and 81° at Belvidere Bridge on the 1st. Rainfall averaged 0.14 in. north, 0.17 in. central and 0.01 in. south. The heaviest 24-hour total 0.81 in. at Pemberton on 27th to 28th. Estimated soil moisture, in percent of field capacity, averaged 76% north, 62% central and 39% south. Four inch soil temperatures averaged 61° north, 67° central and 67° south.

Fieldwork: 6.3 days suitable. Topsoil moisture adequate to short. Fall vegetable harvest active. Summer vegetable harvest in clean-up stage. Irish potatoes going into storages. Some sweetpotatoes being stored. Fall apple and cranberry harvest active. Color good but some fruit small. Corn silage making continues. Harvest of corn for grain

and soybeans increasing. Pasture growth slowed by cooler temperatures.

NEW MEXICO: Average temperatures were above normal in the southeast and near or below normal elsewhere.

Soil moisture remains in an adequate supply, rainfall has been scattered, left some areas in a short supply. Cotton in fair to good condition in most areas. Some hand picking of cotton occurring. Harvest expected to remain light until after first frost. Alfalfa hay in good condition. Rains continue to slow harvest and lower the quality of the hay. Sixth cutting just getting underway. Corn in good condition. About 90% of the silage fields have been harvested and approximately 20% of the grain fields have been harvested. Grain sorghum in fair to good condition. Approximately 80% of the fall grain fields have been planted. Green chile harvest nearly complete in the more southern producing areas, as fields continue to turn red. Peanuts in good condition, however, dry winds forcing some early digging. Pecans and apples in good condition with harvest of apples continuing. The northern ranges remain in excellent condition with the southern ranges in mostly fair condition. Cattle and sheep in good condition. Sales and deliveries of livestock active. Cotton open bolls 85%, 85% 1981, 80% average. Cotton harvested 0%, 0% 1981, 1% average.

NEW YORK: Above normal rain north and west, below normal east. Temperatures above normal. No additional frost.

Corn silage 44% cut, 18% 1981, 38% average. Grain corn harvest starting. Third cutting alfalfa 68% complete, 62% 1981, 67% average. Dry bean harvesting variable. Winter wheat planting about done, many fields up. McIntosh apple harvest complete in Hudson Valley, almost done in west. Red Delicious and Empire apple harvests beginning. Cortland harvest active. Finger Lakes, Great Lakes grape harvests active. Long Island continued dry, some cauliflower showing water stress. Upstate vegetable harvests well along.

NORTH CAROLINA: Temperatures: 3 to 5° below normal in the Piedmont, near normal other areas. Precipitation varied.

Fieldwork: 5.0 days suitable. Soil moisture: 7% very short, 31% short, 53% adequate, and 9% surplus. Conditions: Cotton, peanuts, sweetpotatoes and sorghum mostly good. Pasture and soybeans mostly fair to good. Harvest: Cotton 18%, 1981 22%, average 17%; sweetpotatoes 61%, 1981 45%, average 44%; sorghum 51%, 1981 57%, average 45%; burley tobacco 90%, 1981 97%, average 93%; corn for grain 77%, 1981 79%, average 73%; peanuts dug 26%, 1981 26%, average 28%; peanuts threshed 12%, 1981 13%, average 20%; apples 80%, 1981 73%, average 64%. Phenological stages: Cotton open bolls 94%, 1981 98%, average 83%; soybeans shedding leaves 18%, 1981 16%, average 8%. Major farm activities: Corn harvest for grain, sweetpotato harvest, cutting burley tobacco, digging peanuts and land preparation for fall seeding.

NORTH DAKOTA: First general rainfall in several weeks occurred. North and west received 1.00 to 2.00 in. South and east around 0.50 in. Several northern stations received over 2.00 in. Temperatures averaged 2 to 9° below normal. Temperatures were coolest northwest and warmest southeast. High temperature was 80° southeast 26th, coolest was 25° on 2nd.

Widespread showers slowed harvest activity but brought needed relief to dry soil conditions. Soil moisture situation improved greatly. Topsoil moisture adequate to surplus in 66% of State. Average 64%. Subsoil still somewhat below aver-

age. Flax, potato, sugarbeet and corn for silage harvests still ahead of average. Dry beans slightly behind. Additional drying weather needed for corn grain and sunflower harvests, which not yet general. A killing frost would also be beneficial for drying sunflower. The percent harvested, along with last year and average was: Sunflower 2, 8, 11; corn grain 7, 10, 14; flax 80, 82, 71; dry beans 69, 84, 73; potatoes 76, 79, 65; sugarbeets 18, 12, 11; and soybeans 37, 29, 27.

OHIO: Showers early week; totals generally under 0.20 in., well below normal. Dry conditions persisted; evaporation totals between 0.80 and 0.90 in. Temperatures averaged 2 to 4° above normal. Highs climbed into 80's. Lows averaged upper 40's to low 50's. Base 50 growing degree day accumulations ranged around 90 to 100; values 10 to 15 above normal.

Early week rains delayed row crops harvest but improved soil conditions for plowing and winter wheat germination. Vegetable harvests almost complete. Apple and grape harvests near halfway mark. Corn mature 95%, 55% 1981, 80% average. Corn harvested 15%, 5% 1981, 10% average. Soybeans shedding leaves 95%, 70% 1981, 85% average. Soybeans mature 90%, 40% 1981, 65% average. Soybeans harvested 25%, 10% 1981, 15% average. Tobacco cut 95%, 90% 1981, 100% average. Winter wheat planted 20%, 20% 1981, 30% average. Days favorable: 4. Pasture condition fair. Soil moisture 20% short, 70% adequate, 10% surplus.

OKLAHOMA: Temperatures averaged 3 to 7° above normal. Rainfall ranged from 0.02 in. southeast to 0.95 in. Panhandle.

Growing crops benefited from weekend showers in most areas. In eastern localities, crops were suffering from lack of moisture. Wheat planted: 35%, 60% 1981, 40% average. Sorghum mature: 65%, 85% 1981, 70% average. Sorghum harvested: 10%, 25% 1981, 15% average. Cotton bolls opened: 50%, 65% 1981, 50% average. Cotton harvested: 0%, 5% 1981, 1% average. Days suitable for fieldwork: 6.7.

OREGON: Temperatures near normal in the Willamette Valley; slightly above along coast; 2 to 3° below in east; 3 to 7° below in south central. Rainfall west of Cascades ranged from 0.10 to 1.30 in. Amounts east of mountains varied from 0.10 to 0.60 in. with the heaviest amounts falling in the northeastern section.

Fall seeding of winter wheat 31%; 31% last year; 37% average. Some holding on seeding for additional weed control. Harvesting of late grain fields and hay slowed by rain. Corn silage harvest continues. Grass seed planting in full swing. Pear harvest winding down except for upper Hood River Valley. Apple picking in full swing. Filbert harvesting getting underway. Potatoes moving into storage; harvest underway in all areas with few exceptions. Onion harvest hampered. Sweet corn in final stages. Fall vegetable harvest progressing normally. Livestock condition good. Fall round-up on summer ranges underway. Range and pasture forage sufficient in most areas. Cannery corn waste moving into silos.

PENNSYLVANIA: Seasonable mild and dry most of the week. Daily highs mostly 60's and 70's and lows 40's and 50's. Extremes: 84 and 32° with frost morning of the 3rd. Rainfall first two days totaled 0.50 to 1.00 in. most sections with up to 1.50 in. in a few northern counties.

Four days suitable. Moisture adequate to short. Activities: Plowing; planting wheat and barley; making hay; and harvesting tobacco, corn silage, soybeans, potatoes, cabbage, apples, grapes and pumpkins. Tobacco harvest virtually complete, about a week later than last year. Potatoes 79%

harvested, last year 75%. Soybeans 13% harvested, last year less than 5% harvested. Corn 47% mature and less than 5% harvested; last year 65% mature and 6% harvested; average 54% mature and 6% harvested. Corn silage 67% harvested, last year 71%. Fall plowing 80% complete; last year 82% complete; average 78% complete. Barley 88% planted, last year 83%. Wheat 52% planted, last year 69%. Third crop alfalfa 83% harvested, last year harvest was virtually complete. Fourth crop alfalfa 39% harvested, last year 43%. Quality of hay made mostly fair. Feed from pasture average to below average.

PUERTO RICO: Island average rainfall 1.05 in. or 0.78 in. below normal. Highest weekly total 3.03 in. Temperatures averaged about 82 to 80° on Coasts and 76 to 75° Interior Divisions. Extremes: 95 and 59°.

SOUTH CAROLINA: Temperatures below normal. Week rainless except for scattered activity at the beginning of period.

Soil moisture short to adequate. Six days suitable for fieldwork. Corn 94% harvested, 94 year ago, 90 average. Cotton 90% open bolls, 88 last year, 91 average; 12% harvested, 26 last year, 24 average; good yields reported. Soybeans fair condition, drought stress evident in some fields; 20% shedding leaves, 25 year ago, 25 average; 6% mature, 10 last year, 7 average; 1% harvested. Winter grazing 56% planted 32 last year, 39 average, 31% emerged, 17 last year. Need rain for seeding. Fall cucumbers 25% harvested compared to 41 last year and average of 21. Fall snap beans 1% harvested, 16 last year and 24 average.

SOUTH DAKOTA: Temperatures generally 2 to 5° below normal. Extremes: 31 and 86° outside Black Hills. Precipitation mostly 1.00 to 3.00 in. Heaviest southeast.

Topsoil moisture critically short in much of north central. Short to adequate elsewhere except small area surplus southwest and east central. Subsoil critically short much of north central and northeast. Surplus small areas southwest. Balance short to mostly adequate. Five days suitable. Row crop harvest getting started. Soybeans 4 days behind, sunflowers 5 days behind, corn and sorghum 7 days behind normal. Soybeans shedding leaves 94%, 1981 95%, average 97%. Corn dented 95%, 1981 100%, average 100%. Sorghum showing color 91%, 1981 99%, average 100%. Corn mature 83%, 1981 81%, average 97%. Soybeans mature 90%, 1981 81%, average 84%. Sorghum mature 72%, 1981 86%, average 83%. Sunflowers mature 95%, 1981 85%, average 85%. Corn for grain harvested 4%, 1981 12%, average 11%. Sorghum for grain harvested 6%, 1981 17%, average 17%. Soybeans harvested 17%, 1981 43%, average 29%. Sunflowers harvested 6%, 1981 15%, average 12%. Winter wheat seeded 94%, 1981 93%, average 97%. Winter rye seeded 94%, 1981 93%, average 94%. Winter wheat emerged 65%, 1981 69%, average 79%. Winter rye emerged 69%, 1981 70%, average 80%.

TENNESSEE: Fieldwork: 5.3 days available. Soil moisture 83% adequate, 11% short, 6% surplus. Corn mature 93%, 1981 88%, average 80%; harvested 34%, 1981 35%, average 27%. Cotton open bolls 87%, 1981 70%, average 58%; picked 25%, 1981 10%, average 17%. Soybeans shedding leaves 39%, 1981 39%, average 37%; mature 10%, 1981 10%, average 12%; harvested 2%, 1981 3%, average 4%. Burley tobacco stripped 15%, 1981 15%, average 23%. Wheat sown 17%, 1981 18%, average 33%. Oats sown 34%, 1981 41%, average 52%.

TEXAS: Weather: Skies fair to partly cloudy. Showers and scattered thunderstorms associated

remnants Hurricane Paul dotted Trans-Pecos. Thunderstorms developed along minor Pacific cold front over Northwest Texas, but significant rainfall limited Wichita Falls area. Temperatures above normal. Precipitation below normal.

**Crops:** Unseasonably hot, dry weather Central Texas, Edwards Plateau moisture stress crops, small grain planting some areas. Although open weather ideal harvesting operations, crop yields low some counties because prolonged dryness. Cotton

bolts opening rapidly across Panhandle, but most crop maturing slowly because continued cool weather. Crop prospects many areas depend timing first frost. Defoliation operations active Southern High Plains, harvest underway limited areas. Harvest good progress Low Plains, bolts small because lack of moisture earlier in season. Harvest good progress Blacklands under open weather. Stalk destruction active East and South Central Texas. Statewide condition was 56% of normal with 1% excellent; 14% good; 62% fair; and 23% poor. This compares with 81% of normal last year. Sorghum harvest underway scattered areas High Plains, crop prospects remain good if an early frost does not damage the late-planted stands. Mites problem some fields, yields affected. Condition across the State was 83% of normal, compared with 92% last year. Statewide condition was 9% excellent; 62% good; and 29% fair. Corn harvest winding down some counties Panhandle. Scattered showers some harvesting delays, operations continued as fields quickly dried. Yields good-excellent. Crop 57% good; 16% fair; and 2% poor. This compares with 92% of normal last year. Small grain planting some progress, dry weather continued delay seeding operations some areas. Scattered showers across the High Plains provided necessary moisture many dry-planted wheat fields. Low Plains emerged wheat moisture stress. Dry weather delaying wheat and oat planting Blacklands. Peanut harvest active Cross-Timbers, although prospects dryland stands poor. Dryland stands declining rapidly South Central Texas, some fields plowed. Harvest underway Edwards Plateau. Scattered showers interrupted soybean harvest High Plains. Blacklands, along coast, yields low because prolonged dry weather during pod-fill stage. Heavy disease problems along Upper Coast. Sugarbeet harvest underway Northern High Plains, yields good. Sunflower harvest active Panhandle. Hay baling operations complete many areas, although scattered cuttings made irrigated meadows. Cotton open bolls 48%, 54% 1981, 52% average. Cotton harvested 18%, 16% 1981, 20% average. Sorghum turning color 95%, 96% 1981, 94% average. Sorghum mature 76%, 80% 1981, 81% average. Sorghum harvested for grain 70%, 74% 1981, 73% average. Wheat planted 42%, 46% 1981, 48% average. Wheat emerged 9%, 18% 1981, 23% average. Corn for grain harvested 78%, 71% 1981, 69% average. Peanuts harvested 26%, 22% 1981, 30% average. Soybeans harvested 3%, 7% 1981, 6% average. Sugarbeets harvested 0%, 0% 1981, 1% average. Sunflowers harvested 32%, 38% 1981, 27% average. Oats planted 27%, 32% 1981, 38% average.

**Range and pasture:** Ranges and pastures Panhandle following recent showers, native pastures going into winter good condition. Some southern counties, continued dry conditions made winter prospects poor, some pastures overgrazed. Scattered areas supply dry grass good, quality below average. Supplemental feeding continued many areas, Edwards Plateau producers flushing ewes preparation for breeding. Stocker cattle moved into some Panhandle wheat pastures.

**Commercial vegetables:** Lower Rio Grande Valley, bell peppers, tomatoes setting fruit. Lettuce planting active, early fields emerged. Citrus good condition, irrigation needs heavy summer and early fall. Coastal Bend, fall cucumbers need rain. San Antonio-Winter Garden, fall bedding, planting active. Tomatoes and bell peppers set-

ting fruit, spinach planting good progress. East Texas, sweetpotato harvest continued, fair quality reported. Some watermelons still moving to market. Trans-Pecos, fall lettuce planting active. Plains, vegetable harvest winding down. Harvest underway Edwards Plateau early varieties pecans. Crop maturing across State, many acres nuts not filled properly because prolonged dry weather.

**UTAH:** Recurring periods heavy precipitation. Accumulated amounts generally heavy to very heavy. Record accumulations some localities. Extensive damage from flash flooding several areas. Average temperatures generally below normal.

Heavy rains and flooding has halted fall fieldwork and caused serious crop damage. Over 50% of third crop hay soaked by rain. Corn silage ready to cut in most areas. Onion and potato growers waiting for fields to dry. Thousands of sheep trapped in heavy snow. Hay being airlifted in. About 70% of range livestock still on summer pastures. Corn for grain not yet mature.

**VIRGINIA:** Low pressure that developed in Gulf of Mexico moved northeast and brought much needed rainfall to the State with most locations getting around 1.50 in. Total for month was still 1.00 to 2.00 in. below normal. Temperatures averaged below normal. Highs mostly in the 70's to around 80 and lows in the 30's in some mountain locations to 40's and 50's east of the mountains.

Showers occurring only on the weekend left 5 days suitable for fieldwork during the rest of the week. Main activities were corn, tobacco and hay harvests, peanut digging and small grains and cover crop seeding. Soil moisture rated 35% short, 65% adequate. Corn for grain 95% mature, 97% 1981; harvested 47%, 49% 1981 and 49% average. Cut for silage 87%, 85% 1981. Soybean condition rated good with 95% setting pods; 1% harvested, 6% 1981 and 2% average. Farmers still report good yields expected. All types of tobacco 95% harvested, a little ahead of last year and well ahead of normal. Main activities curing and marketing. Winter wheat seeding 8% complete, 8% 1981, 7% average; oats 38% seeded, 42% 1981, 28% average; barley 23% seeded, 29% 1981, 20% average. Seeding slowed by dry conditions. Peanuts in excellent condition with 31% dug, 36% 1981, 18% average and 17% combined, 18% 1981, 9% average. Apples 50% picked, 56% 1981, 49% average. Sweetpotatoes 56% dug, 50% 1981, 31% average. Pastures stressed, haying limited. Livestock sales active.

**WASHINGTON:** A moderately strong frontal system entered State late on 28th and produced most of the rainfall as it crossed the State over the weekend. Moisture circulating around a large low pressure system centered over Utah continued to provide light rainfall east of the Cascades throughout most of the first half of the week. As a result, amounts were much above the normals over east. High pressure over Canada followed the front into State and by 2nd many stations reported low temperatures near the frost point. Odessa, at 27°, was the coldest temperature reported.

**West:** Harvesting of sweet corn, tomatoes, carrots, peppers, squash, and celery continues. Pumpkin harvest underway. Broccoli harvest almost over. Tulip and daffodil planting continues. Blueberries nearly finished. Strawberry and raspberry growers cleaning and caning fields. Livestock, ranges, and pastures in good condition. Cattle still being moved to market. Dairymen still green chopping. Soil moisture adequate.

**East:** Winter wheat seeding still in progress, with reseeded of crusted acres. Potato and silage corn harvest continues. Dry bean harvest de-

laid due to rain. Vegetable seed, alfalfa seed, and third cutting of alfalfa hay are nearly finished. Wine and concord grape harvest well underway. Apple and pear harvest continues. Size and quality of apples good. Sweet corn harvest still on. Livestock in good condition. Cattle being moved from forest service and fall ranges. Ranchers waiting for turnip and corn fields to open up. Feed supplies and soil moisture adequate.

**WEST VIRGINIA:** Temperatures averaged near normal. Low 36°, high 83°. Precipitation above normal. Range: 0.50 to 1.81 in.

Soil moisture adequate to short. Days worked: 4.4. Main activities: Hay harvesting, corn harvesting, and maintenance. Corn in good to fair condition; 22% harvested; compared to 28% in 1981. Fall planting: Wheat 38%, 60% in 1981; barley 36%, 61% in 1981. Hay reported in fair to good condition; 2nd cutting 94% complete and 83% of normal; third cutting was 75% complete, 81% in 1981. Pastures in fair to good condition. Tobacco good condition with 98% topped, and 96% harvested, the same as in 1981. Apples in good to fair condition. Remaining gardens were in fair to good condition. Rain early in week gave some limited relief to dry conditions.

**WISCONSIN:** The week started on a cool note but climbed to the 70's and 80's by the middle of the week. Temperatures averaged 3° above normal. Temperatures ranged from a balmy 88° in Cambridge on the 30th to a much cooler 36° at Lake Thompson on the 28th. Scattered showers fell in north and west on the 30th and 1st. Most of the districts in these areas reported precipitation totals in the 0.50 to 1.00 in. range. Heaviest rainfall was reported from Marshfield where totals amounted to 1.83 in.

Fieldwork: 5 days suitable. Warm weather helped speed corn crop maturity. Currently 72% of the crop safe from frost, 92% 1981, 92% average. Very

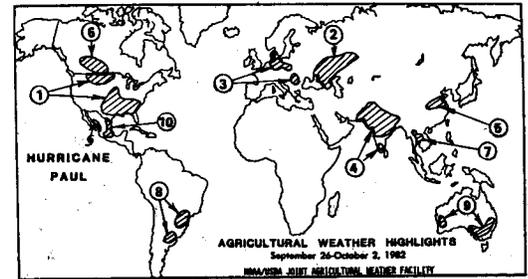
little of the corn for grain acreage has been harvested, 1%, 2% 1981, 3% average. Some dairy farmers have begun harvesting high moisture corn. Making corn silage was a major field activity. Currently silo filling 28% complete, 43% 1981, 53% average. Silage yields appear to be very good this year. Fall plowing got underway; 9% complete, 10% 1981, 10% average. Currently 57% of soybean acreage has leaves shedding, 75% 1981. Pastures still look good, rated at 85% of normal, 91% 1981, 83% average. Some third and fourth crop hay was harvested. Topsoil moisture supplies were rated 12% short, 57% adequate and 31% surplus. Poor field conditions exist in the north central district where moisture supplies were rated 94% surplus.

**WYOMING:** Wet, cool was norm for all areas except Upper Platte Drainage. The Snake, Green and Bear Drainages wettest areas average over 2.00 in. per station. Every station below normal temperatures. Lander coolest, 8° below normal.

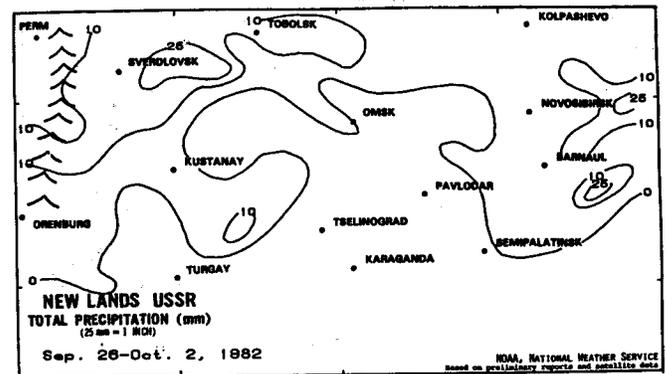
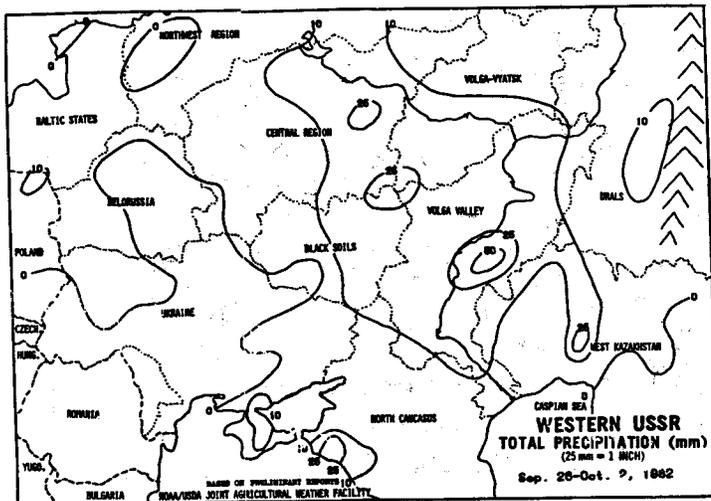
Topsoil moisture adequate. Subsoil moisture adequate 91% State. Average 2 days suitable fieldwork. Widespread rain and snow. Some damage to hay, barley, corn and beans; harvesting delayed. Winter wheat planted: 85%; year ago, 95%. Winter wheat emerged: 60%; year ago, 80%. Winter wheat stands good most areas. Most spring wheat harvested. Barley harvested, 90%, normally barley harvest complete. Oats harvested, 90%, normally oat harvest completed. Potatoes harvested: 65%; year ago, 40%. Corn for grain denting: 60%; year ago, 50%. Corn for grain mature: 40%; year ago, 40%. Corn for grain harvested: 5%; year ago, 10%. Corn silage harvested, 70%. Sugarbeets dug: 5%; small amount a year ago. Dry beans windrowed: 85%; year ago, most. Dry beans combined: 45%; year ago 90%. Thirty percent cattle, calves moved from summer pasture. Forty percent sheep, lambs moved from summer pasture. Some difficulty with snow at higher elevations. Lamb marketing to begin soon.

# International Weather and Crop Summary

September 26-October 2

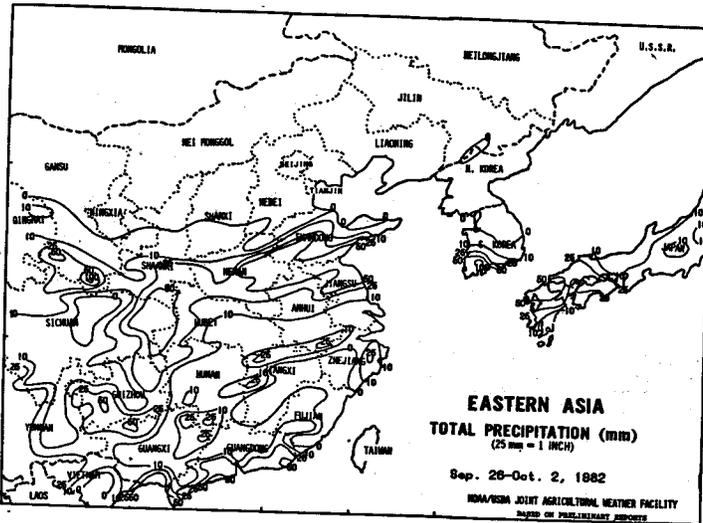


1. **UNITED STATES:** Rains help winter grains over the central Plains and extreme northwestern Texas and improve soil moisture in the northern Plains, but halt fieldwork. Dryness delays grain seeding over remainder of southern Plains and stresses late crops over the South and Southeast.
2. **USSR:** Near- to below-freezing temperatures accompanied by snow and freezing rain produce harvest delays in the northern New Lands and slows winter grain growth already stressed by continued dry weather in southeast European grain areas.
3. **EUROPE:** Continued dry weather in East Germany and Poland stresses poorly emerged crops. Becoming unfavorably dry in some areas of Romania.
4. **SOUTH ASIA:** Dry weather over much of the region; crops in some areas are severely stressed.
5. **EASTERN ASIA:** Generous rains benefit some China winter grain areas.
6. **CANADA:** Snow and rain delay final crop harvests in Saskatchewan and Alberta.
7. **SOUTHEAST ASIA:** Above-normal rainfall benefits much of Thailand.
8. **SOUTH AMERICA:** Continued too wet for wheat growth in southern Brazil and for wheat harvesting in Parana; beneficial moisture for crops in Argentina.
9. **AUSTRALIA:** Severe drought and cold weather plague eastern and southern wheat areas; beneficial rains again in west.
10. **MEXICO:** Hurricane Paul moves into the central west coast, damaging crops and property but improving water supplies. Most other crop areas remain dry, needing irrigation for immature crops.

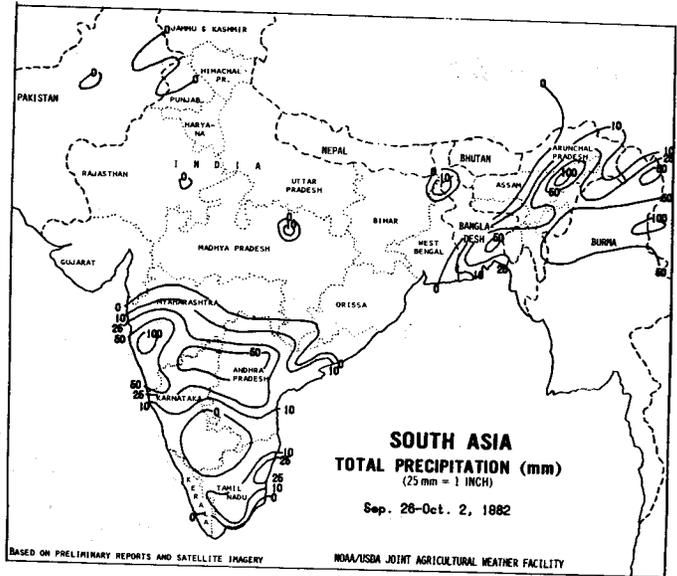


**USSR:** Generally dry weather returned to crop areas in the Baltic States, Belorussia, and the Northwest Region. Topsoil moisture supplies in these areas appear adequate for uniform emergence and good early growth of the winter grain crop. In contrast, showers covered crop areas in the eastern portion of the Central Region, the eastern Black Soils, northern Volga Valley, northern Urals, and the Volga Vyatsk. Rainfall amounts ranged from 10 to 25 mm in these areas, providing favorable moisture conditions for winter grains in the vegetative stage but possibly delaying late harvest efforts. Reports indicate that 93 percent of grain and pulses, excluding corn, had been harvested. Generally dry weather covered the

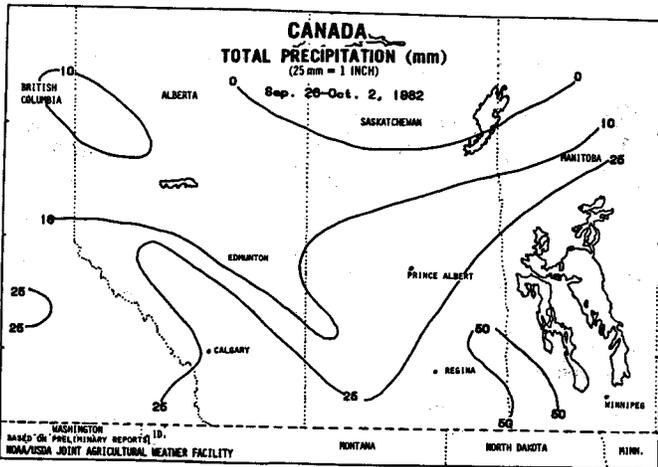
Ukraine, most of the North Caucasus, and the southern Volga Valley, favoring maturing crops such as corn and sunflowers. Corn harvesting normally begins throughout these areas by early October, and reports indicate that the corn crop is fully ripe in more southern crop areas. In addition, winter grain sowing continued throughout these areas with some planting delays and poor emergence due to the continued dry weather. In addition, near-freezing temperatures spread southward into the major winter grain area by week's end, slowing the growth of emerging grains already stressed by continued dry weather. In the New Lands, a low-pressure system intensified north of the Caspian Sea late in the week. As a result, very cold air advanced southward behind the low into the Urals and West Kazakhstan. Snow and freezing rain were reported over northern crop areas, delaying final harvest efforts.



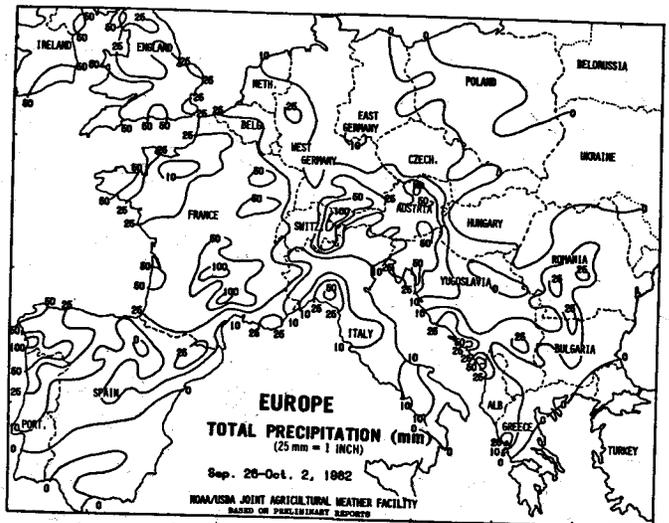
**EASTERN ASIA:** Above-normal rainfall benefited newly sown winter grains in a broad band across Henan, southern Shandong, and northern Jiangsu. Virtually no rain fell north of the Yellow River, but winter grains there should have adequate moisture for early growth. Near-normal temperatures allowed vigorous growth to continue. Relatively cool, dry weather over much of the Yangtze Valley permitted rapid harvesting. Moderate rain in Guangdong likely had little impact on maturing late rice. In South Korea, above-normal rains in the extreme southwest likely interfered with rice harvesting, but most of the country had favorable weather. Temperature averaged slightly above normal.



**SOUTH ASIA:** Rainfall declined further over most of the subcontinent. The northern half of India had little or no rainfall. Wet weather persisted early in the week over parts of Bangladesh, Assam, and southern India, but dry weather has dominated all areas in recent days. Nonirrigated crops in the west and northwest have suffered the greatest yield losses. Dryness in the northeast should have been fairly localized. Dry conditions hurt crops in the south in August and early September, and further losses could occur if the late-season rains end early there as well. Temperatures were below normal in the far north but near normal elsewhere.

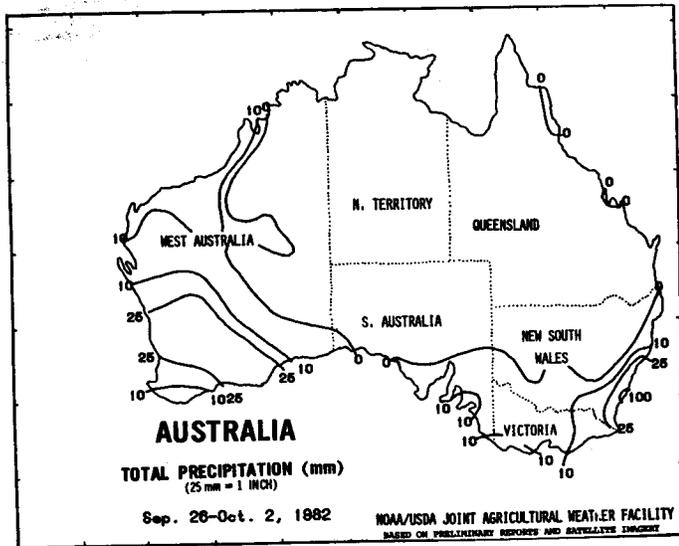


**CANADA:** Cold, unsettled weather during much of the week in the Prairie Provinces hampered late harvesting of grains and oilseeds. In fact, snowfall accumulated over crop areas of Saskatchewan and eastern Alberta. The widespread precipitation was especially bothersome in northern crop areas of Saskatchewan and Alberta where drying conditions for matured crops have not been favorable during much of the harvest season. Harvesting is nearly complete in southern crop areas as well as in much of Manitoba's grain-producing region. Reports indicate that about a week of favorably dry harvest weather is needed to conclude the crop season once harvesting is allowed to resume in wet areas.

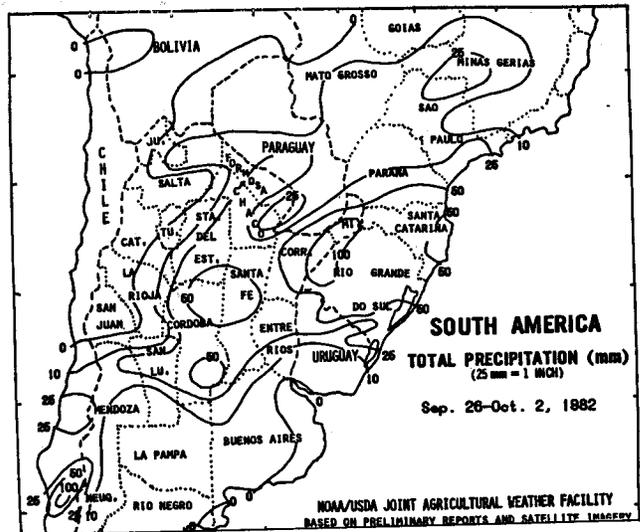


**EUROPE:** Wet weather covered crop areas in England, France, and northern Spain. Rainfall amounts which ranged from 25 to 50 mm, provided favorable moisture conditions for winter grains but delayed some fieldwork. In northern crop areas, light showers benefited some crop areas, but topsoil moisture supplies remain at unfavorably low levels for uniform winter grain emergence in East Germany and Poland. Elsewhere, light showers in northern Italy continued to provide favorable moisture conditions, but much of the southeast remained dry. Topsoil moisture levels in Romania became unfavorably low for

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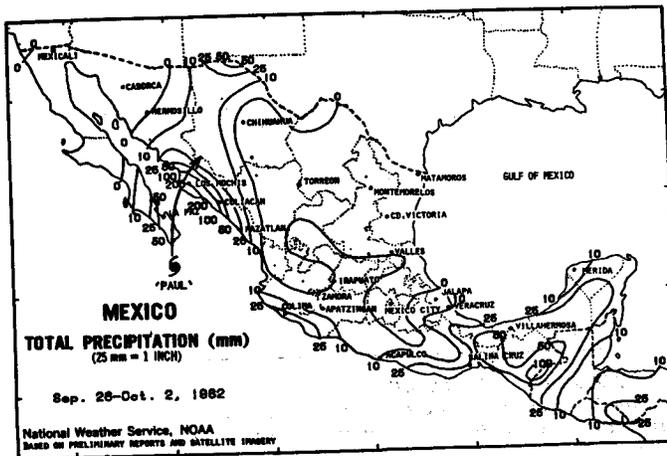


**AUSTRALIA:** Crop areas of southern New South Wales, Victoria, and South Australia received some light rain during the week; however, substantial rains were again confined to coastal areas. Any moisture brings some respite from the severe persistent drought, but the limited rainfall amounts serve only to sustain the crops under severe stress conditions. Cool weather prevailed late in the week with minimum temperatures dropping below 4°C at some locations in southern crop areas. Thus, localized frost may have occurred, depending on terrain features, at a time when wheat usually advances through its reproductive cycle. However, the severe deficiency of moisture is the major factor affecting crop yield potential. Beneficial rains fell again throughout the crop areas of Western Australia.

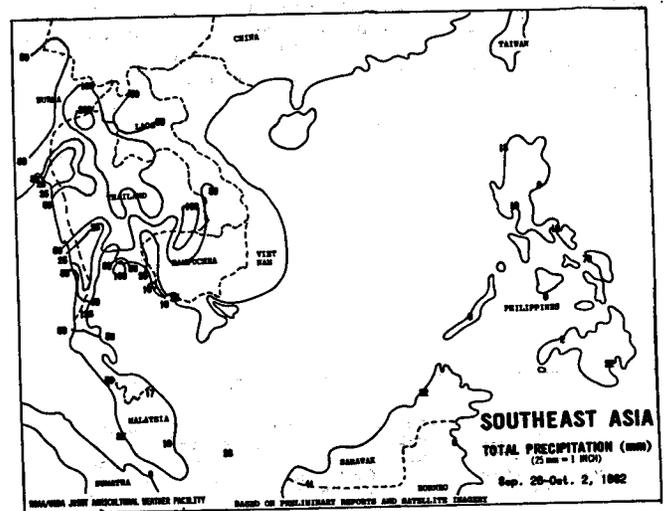


**SOUTH AMERICA:** Another in a series of frontal systems pushed across Argentina and Brazil, producing substantial amounts of rain from northern Buenos Aires northward to the cotton areas of Chaco and Formosa in Argentina, and from Rio Grande do Sul to southern Sao Paulo and Mato Grosso in Brazil. Only light showers fell on the southern wheat area of Buenos Aires as the crop advanced into the reproductive stage. Moisture supplies are favorable in Argentina for both wheat growth and sowing preparations for spring-planted crops. In Brazil, excessively wet conditions continued in southern wheat areas during the grain-filling period, creating the potential for reduced yields due to fungus disease and weed

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**MEXICO:** Hurricane Paul moved into the central west coast near Los Mochis with heavy rains and strong winds adversely affecting agriculture. Maturing soybeans and other unharvested summer crops as well as young fall vegetables were heavily damaged in Sinoloa and southern Sonora. Paul's rains improved water supplies in some watersheds, while overflowing dams and destroying crops and property in others. Light, localized rain from the remnants of the hurricane moved into the north-central region but did not improve rangeland and livestock much. Tropical showers continued to moisten the southern coast and the Yucatan Peninsula. The rest of the country remained generally dry, requiring irrigation to maintain optimum moisture for citrus, sugarcane, and immature crops.



**SOUTHEAST ASIA:** Normal to above-normal rainfall continued over much of northern and eastern Thailand. The heaviest rains fell early in the week, with a definite slackening in recent days. The rice crop in both the Central Plains and the east should be in good condition now. The heaviest rains in the north fell outside of reservoir source areas, but water levels likely increased. Only in a localized area to the west of Bangkok did conditions remain unfavorably dry. Satellite imagery indicated that rainfall in Laos and much of Vietnam was about the same as in eastern Thailand, but Kampuchea was somewhat drier.

