

# 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

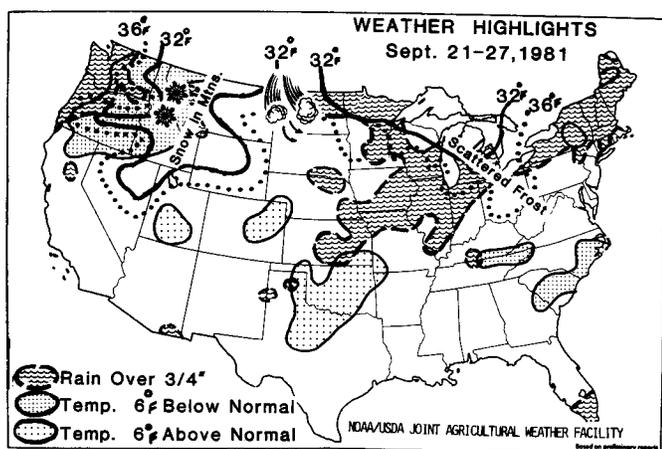
Volume 68, No. 39

WASHINGTON, D.C.

Sept. 29, 1981

## National Weather Summary

21-27, 1981



**HIGHLIGHTS:** Little or no rain fell in the Gulf Coast States and Southeast, except for southern Florida where thunderstorms dumped large amounts. Seasonal rains were off to a good start in the Pacific Northwest and showers and some thunderstorms extended across the northern United States and from Arizona to western Texas and northeastward. Temperatures were cool in the Northwest. Averages ranged from 6 to 9° cooler than normal. Some snow fell in the Rockies where temperatures dropped below freezing. Freezing temperatures occurred in the extreme northern Plains, northern Lakes area, and through Michigan. Frost was scattered from the central Great Lakes to the central Appalachians.

**MONDAY...** Showers moved through the Pacific Northwest to the northern Rockies. Showers and some thunderstorms covered the Great Lakes region and moved into the Northeast. Precipitation was moderate from southern Michigan through northern New York to New Hampshire. A cold night was registered through the South, but temperatures warmed during the day. A cold front moved into the Plains, driving warm air ahead of it and leaving cool air behind.

**TUESDAY...** A low pressure system spread rain across the northeastern corner of the Nation. Heavy rain fell in parts of New York and New England. Thunderstorms with small hail struck in western Nebraska while lighter storms extended through the Dakotas. Showers dotted the area from the Pacific Northwest to the northern Rockies and thunderstorms dropped heavy rain on southern Florida. Cold weather pushed into northern Michigan.

**WEDNESDAY...** Rain continued in the Northeast with heavier amounts recorded in northeastern New York and northern New England. A cold front through

the northern Plains and a low pressure center in Colorado caused showers and thunderstorms from Arizona and New Mexico, through the Texas Panhandle to the western Great Lakes. Cold weather settled into the Great Lakes region. Record low temperatures extended throughout Michigan, with frost reported as far south as southwestern Michigan. It was also cold over the northwestern third of the Nation.

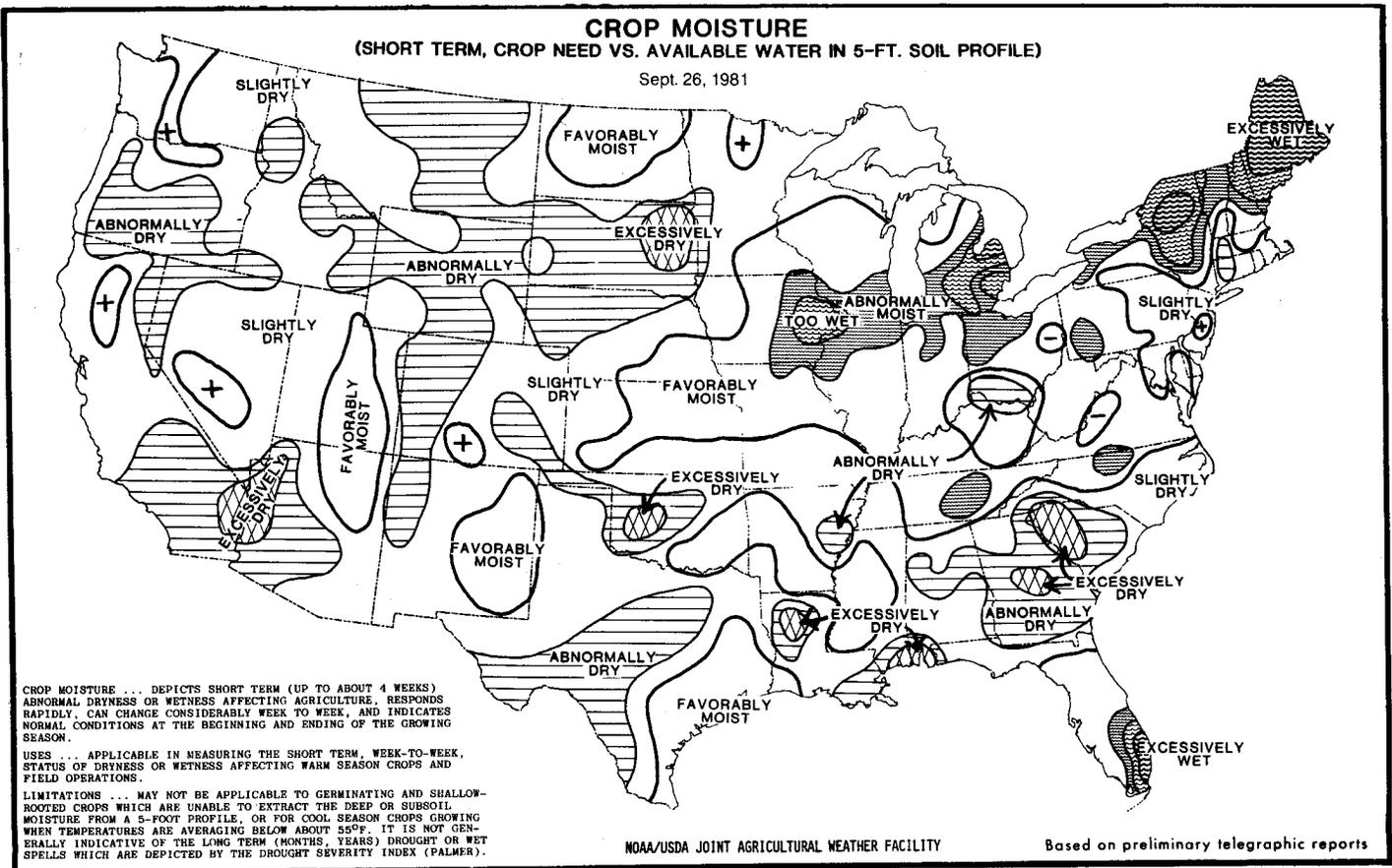
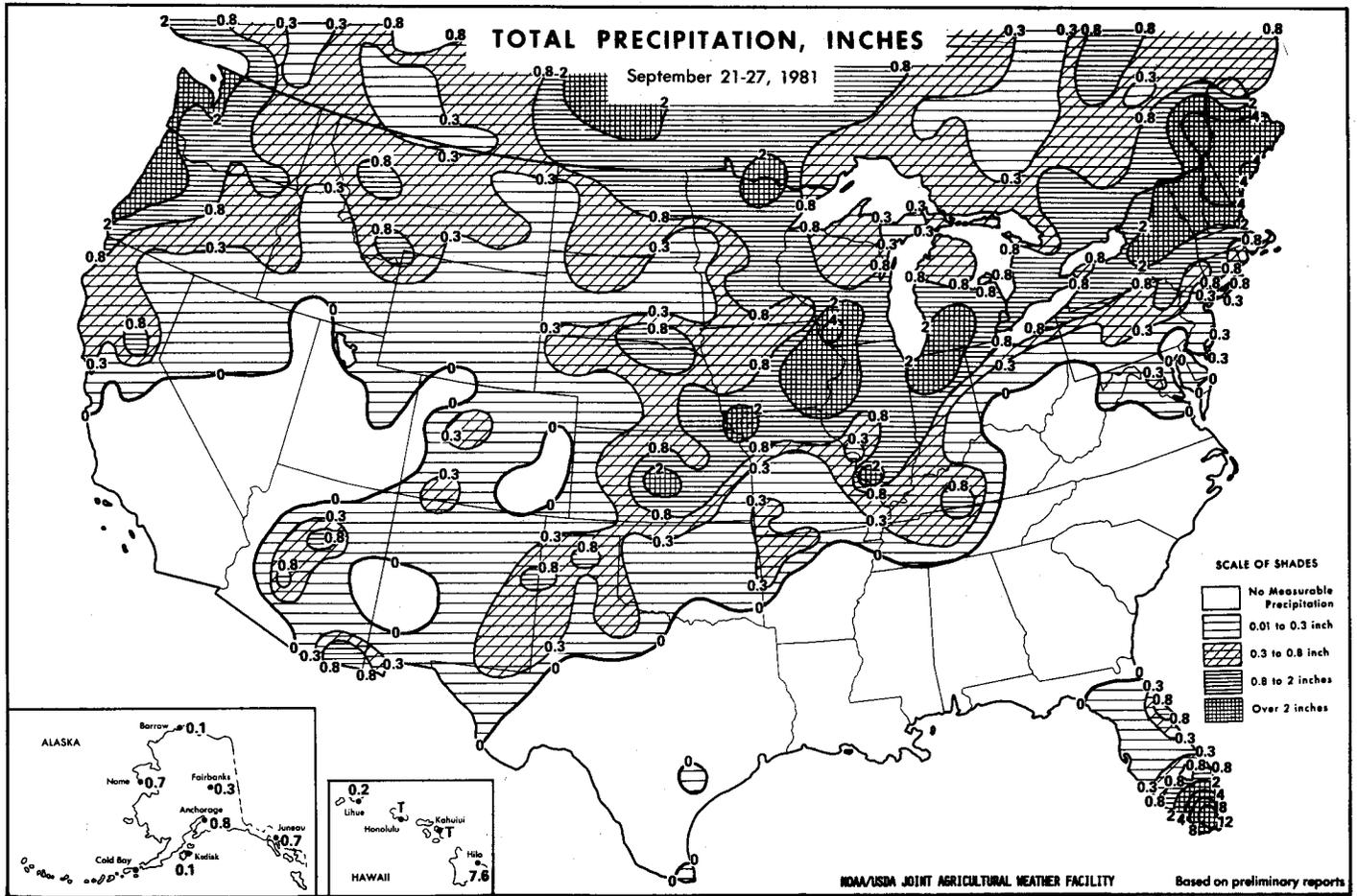
**THURSDAY...** More rain in New England caused local flooding, but the storm was moving out of the area. A cold front brought widespread showers and thunderstorms from western Texas to the Great Lakes and northward through the Plains. A warm front across the Plateau and low pressure off the California coast caused showers and rain from northern California through the northern Rockies. Cold air moved southward from Michigan, and into the mountains bringing scattered frost through Ohio. Reported temperatures were above freezing, so frost damage was probably minimal.

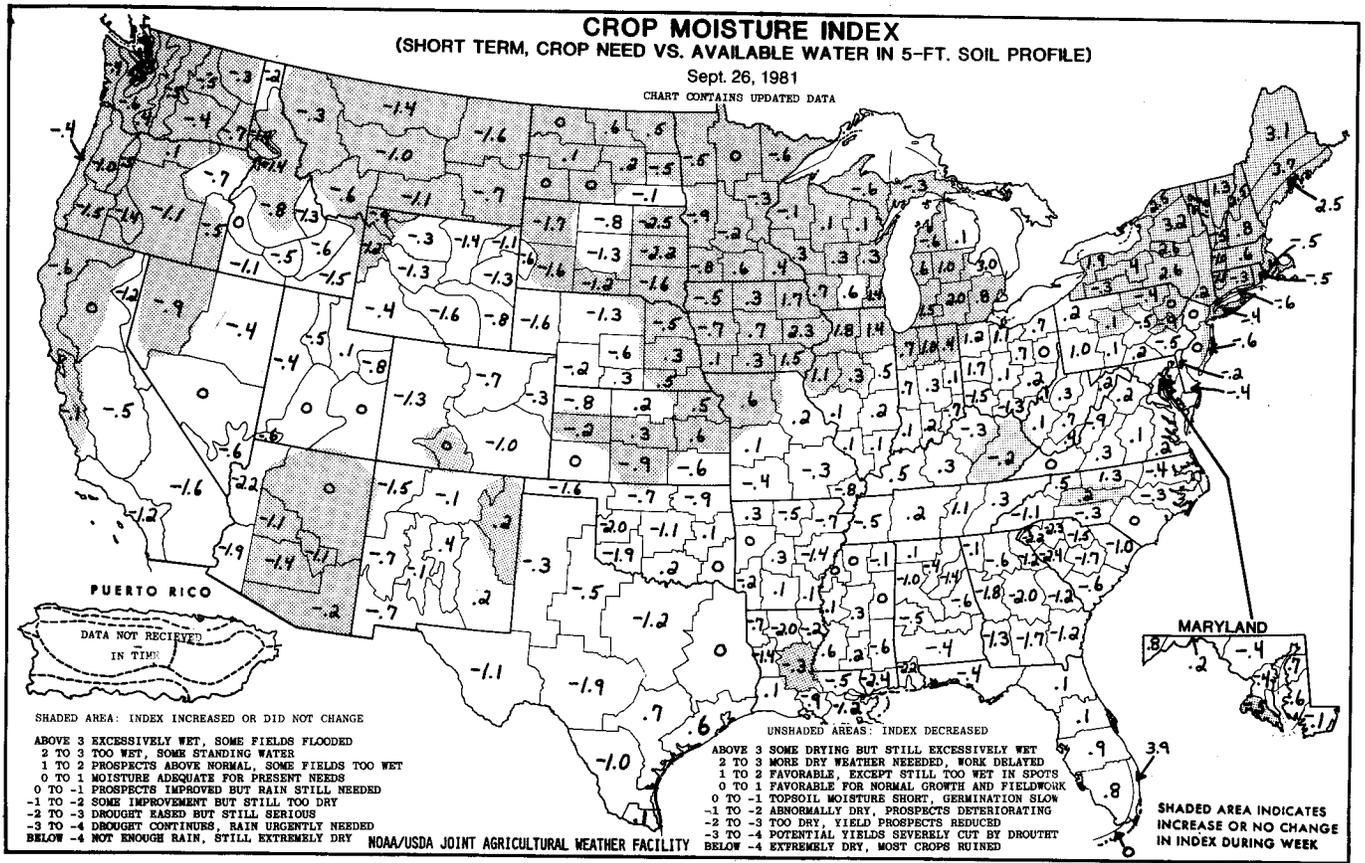
**FRIDAY...** Showers were scattered from northern California and the central Plateau through the Pacific Northwest and northern Rockies. Snow fell in the high elevations. Showers extended across the northern Plains through the Great Lakes and from eastern Kansas to the Lakes. Heavy showers hit in Kansas and Nebraska. The weather was chilly from the Pacific Northwest into the northern Plains and Appalachians.

**SATURDAY...** Showers and thunderstorms covered much of the northern half of the Mississippi River Valley and across the Great Lakes into the northern Appalachians. Rain continued from northern California through the Pacific Northwest and in southern Florida. Cool weather moved into the East and the Plains. Some record-low temperatures occurred in the Southeast. (Continued on page 20.)

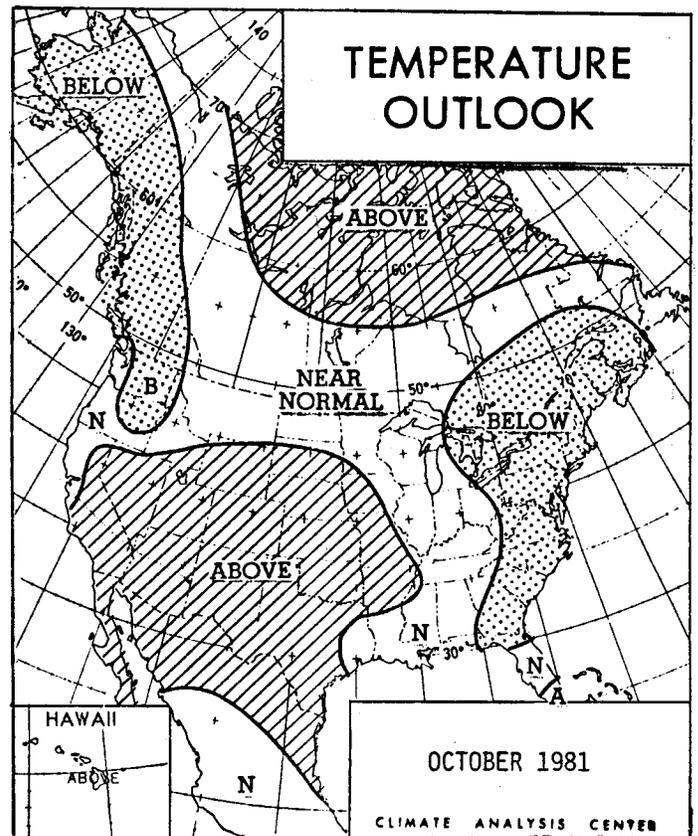
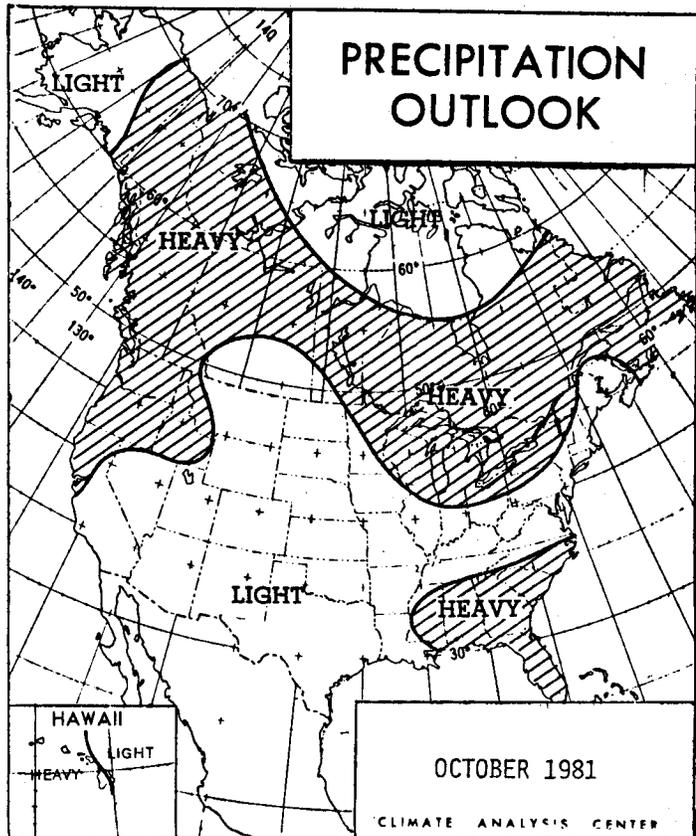
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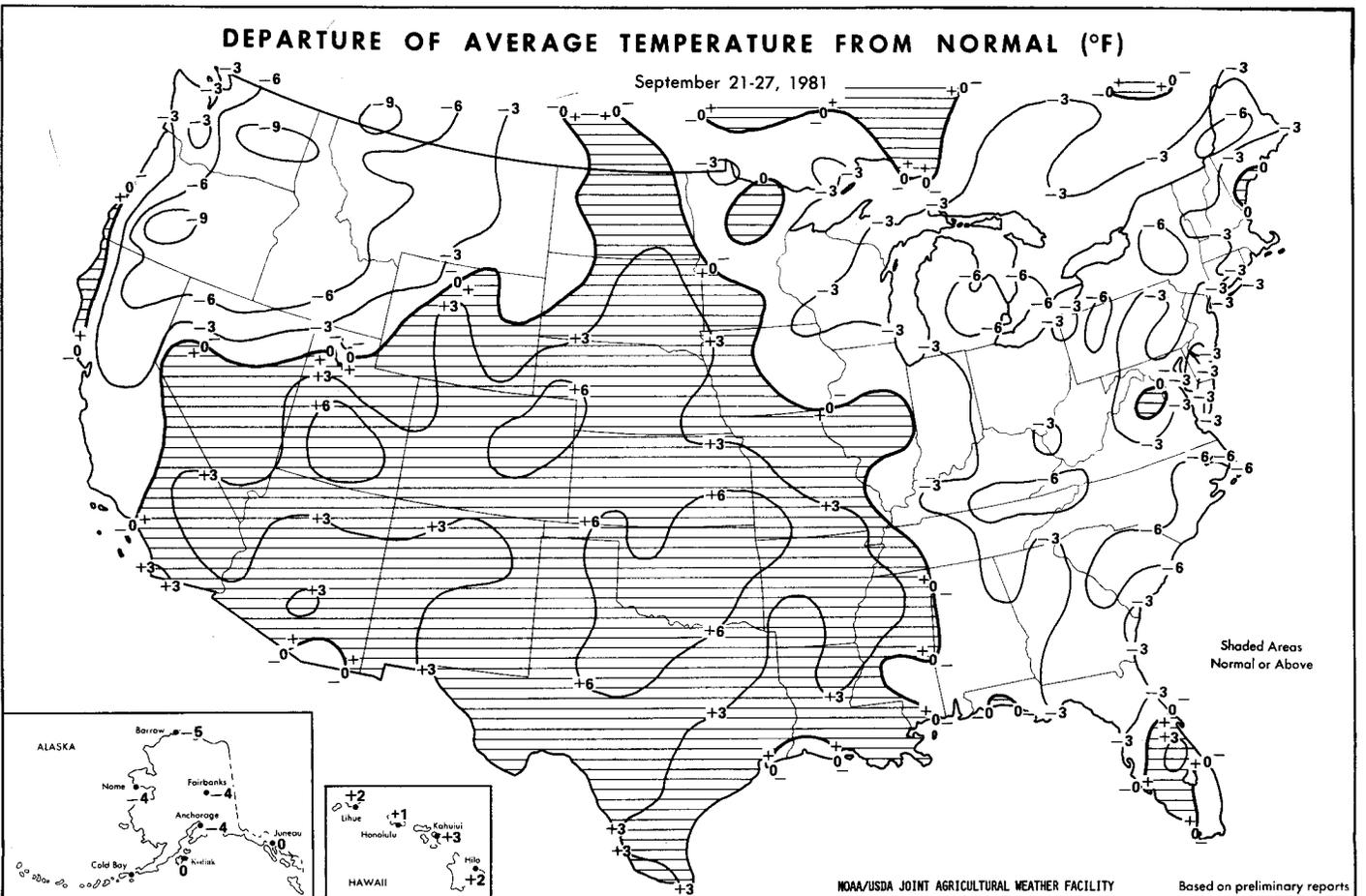
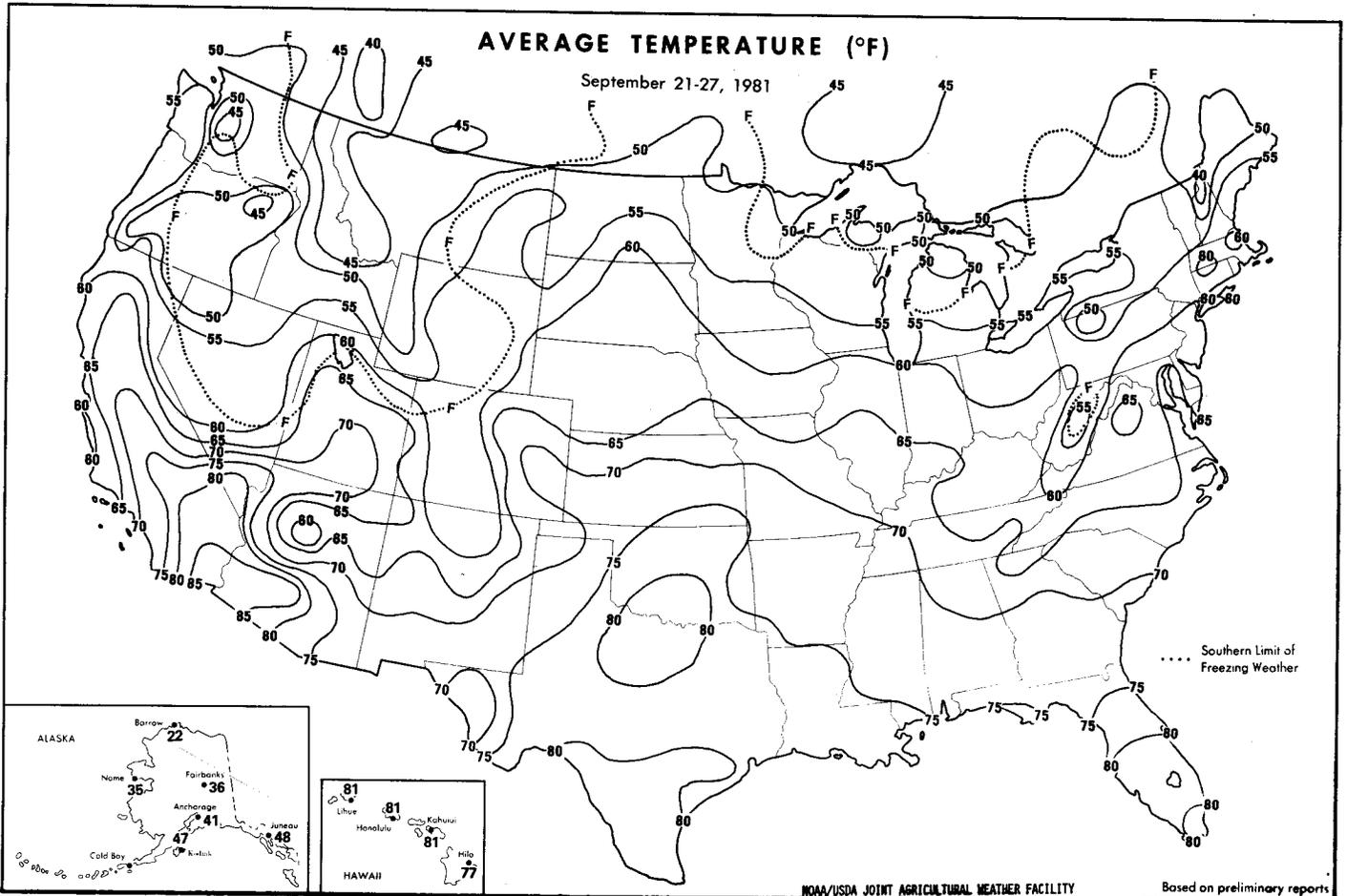
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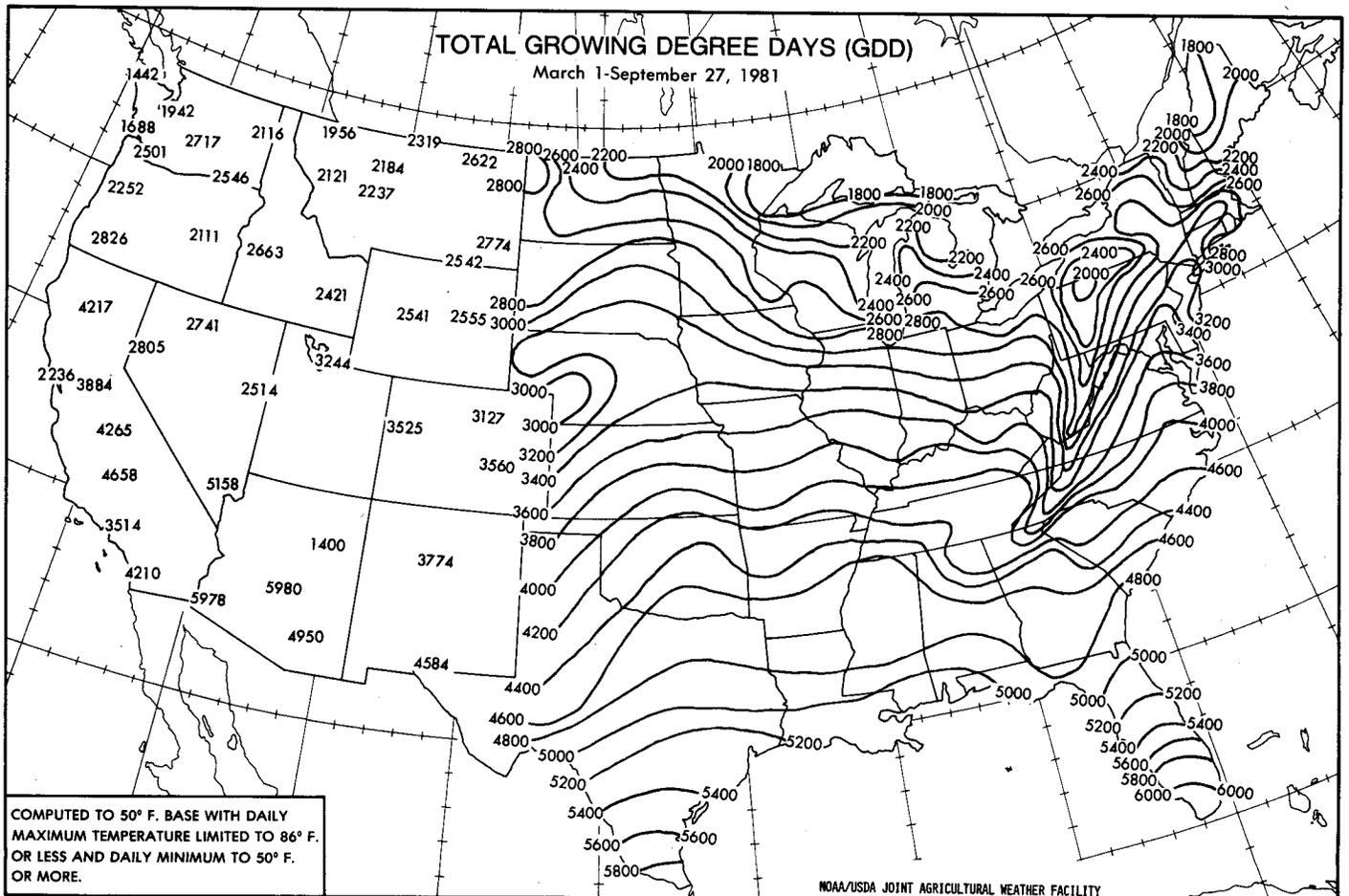
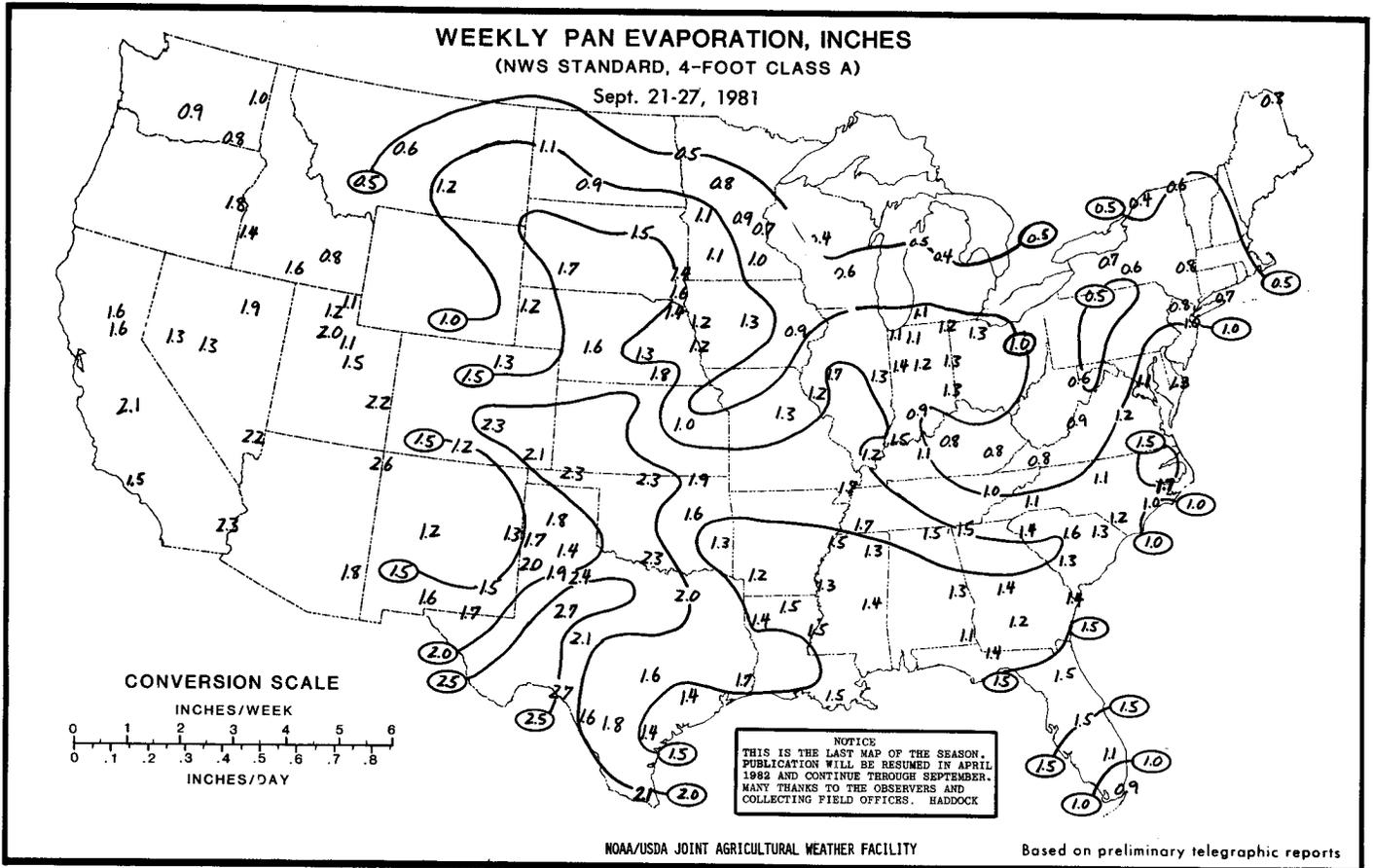




### Average Monthly Weather Outlook







Weather Data for the Week Ending Sept. 27, 1981

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. 31	PCT. NORMAL SINCE Aug. 31	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	
AL BIRMINGHAM	85	54	88	46	70	-2	0	-.8	0	2.5	69	31.1	75	89	41	0	0	0	0	
AL MOBILE	87	60	90	54	74	-2	0	-1.4	0	4.1	64	48.6	88	95	39	2	0	0	0	
AL MONTGOMERY	86	59	88	53	73	-1	0	-1.0	0	2.1	51	36.2	93	88	41	0	0	0	0	
AK ANCHORAGE	49	32	54	27	41	-4	.8	.3	.8	2.1	95	15.0	138	85	44	0	4	1	1	
AK BARROW	25	20	30	15	22	-5	.1	0	.5	.83	83	-.5	100	89	0	7	4	0	0	
AK FAIRBANKS	41	32	47	25	36	-4	.3	-.1	.1	.9	75	8.0	89	91	65	0	3	5	0	0
AK JUNEAU	54	41	60	35	48	0	.7	-1.1	.4	9.5	148	36.9	103	94	67	0	0	4	0	0
AK KODIAK	56	39	61	31	47	0	.1	-1.4	.1	7.0	125	52.0	132	82	47	0	1	3	0	0
AK NOME	41	30	51	22	35	-4	.7	-.2	.3	1.0	43	13.0	104	84	56	0	4	4	0	0
AZ FLAGSTAFF	71	44	77	36	57	2	.8	-.5	T	1.3	76	17.7	122	92	36	0	0	2	1	0
AZ PHOENIX	97	75	102	71	86	4	.1	-.1	T	.2	29	4.6	88	55	22	7	0	2	0	0
AZ TUCSON	91	63	98	61	77	0	.1	-.1	T	.9	64	13.1	151	72	24	5	0	2	0	0
AZ WINSLOW	82	53	90	48	67	0	.3	-.2	.3	.9	100	7.1	108	77	24	1	0	2	0	0
AZ YUMA	101	72	105	65	87	2	0	0	0	0	0	1.4	61	58	21	7	0	0	0	0
AR FORT SMITH	88	61	91	51	74	3	.5	-.3	.5	1.9	61	31.3	96	95	48	3	0	1	1	0
AR LITTLE ROCK	86	63	93	57	74	3	0	-.8	0	2.3	68	34.2	93	82	50	2	0	0	0	0
CA BAKERSFIELD	86	61	90	57	74	-1	0	-.1	0	0	0	4.4	107	57	24	1	0	0	0	0
CA EUREKA	65	51	70	43	58	2	.8	-.5	.5	1.0	167	20.0	82	85	62	0	0	2	0	0
CA FRESNO	86	56	90	51	71	-1	0	0	0	0	+100	7.5	107	75	25	1	0	0	0	0
CA LOS ANGELES	74	62	78	61	68	0	0	0	0	0	0	6.6	81	88	58	0	0	0	0	0
CA RED BLUFF	77	59	89	54	68	-5	.4	.4	.4	.4	133	16.7	118	67	35	0	0	1	0	0
CA SAN DIEGO	75	68	78	66	72	2	0	0	0	0	0	8.5	137	87	67	0	0	0	0	0
CA SAN FRANCISCO	72	53	79	48	63	-1	.3	-.2	.3	.3	150	12.5	100	86	47	0	0	0	0	0
CA STOCKTON	84	53	91	50	69	-2	T	-.1	T	0	0	9.2	100	82	26	1	0	1	0	0
CO DENVER	83	53	87	45	68	8	.2	-.1	.2	.4	36	11.1	85	70	18	0	0	2	0	0
CO GRAND JUNCTION	81	54	86	43	67	3	T	-.2	T	.5	50	5.5	95	55	21	0	0	1	0	0
CO PUEBLO	85	52	89	43	69	6	0	-.1	0	.5	71	6.9	64	69	22	0	0	0	0	0
CT BRIDGEPORT	68	50	75	44	59	-5	.8	-.1	.7	4.5	161	22.3	79	88	50	0	0	3	1	0
CT HARTFORD	71	50	80	42	60	0	1.4	.7	1.3	4.6	139	23.6	75	89	45	0	0	3	1	0
DC WASHINGTON	78	57	84	51	67	-1	.2	-.4	.2	2.3	74	24.9	83	84	46	0	0	2	0	0
FL APALACHICOLA	84	66	89	58	75	-2	0	-.1	0	2.5	29	32.3	67	88	56	0	0	0	0	0
FL DAYTONA BEACH	84	68	87	65	76	-2	1.1	-.5	1.1	7.2	109	32.5	81	95	59	0	0	2	1	0
FL FORT MYERS	89	74	91	72	82	1	T	-.1	T	6.8	82	50.4	109	98	58	4	0	1	0	0
FL JACKSONVILLE	86	59	92	52	73	-4	.0	-.7	0	1.5	20	26.4	59	97	49	1	0	0	0	0
FL KEY WEST	85	77	89	74	81	-1	1.1	-.6	.8	4.6	68	19.9	67	97	77	0	0	3	1	0
FL MIAMI	84	73	88	71	79	-2	7.6	5.4	3.1	14.8	185	47.1	101	95	66	0	0	5	4	0
FL ORLANDO	89	69	90	67	79	0	.3	-1.3	.2	8.3	124	39.0	90	95	52	2	0	2	0	0
FL TALLAHASSEE	86	61	90	50	73	-3	0	-1.4	0	4.9	77	41.5	81	97	44	1	0	0	0	0
FL TAMPA	87	69	89	68	78	-2	.1	-1.2	.1	5.9	97	34.0	79	97	53	0	0	2	0	0
FL WEST PALM BEACH	87	73	88	69	80	-1	1.4	-1.1	1.0	9.3	101	41.1	87	92	61	0	0	3	1	0
GA ATLANTA	82	58	84	51	70	0	0	-.7	0	5.3	171	31.0	82	90	41	0	0	0	0	0
GA AUGUSTA	82	47	86	44	65	-7	0	-.7	0	.7	23	31.8	91	100	37	0	0	0	0	0
GA MACON	87	55	90	51	71	-2	0	-.7	0	1.7	59	34.5	97	96	36	1	0	0	0	0
GA SAVANNAH	84	60	87	55	72	-3	0	-1.2	0	2.8	53	33.9	80	91	40	0	0	0	0	0
HI HILO	83	71	87	68	77	2	7.6	5.8	6.3	12.6	180	-.5	84	67	0	0	5	2	0	0
HI HONOLULU	88	74	89	73	81	1	T	-.2	T	.3	60	5.9	40	93	53	0	0	1	0	0
HI KAHULUI	89	73	92	72	81	3	T	0	T	.7	350	-.5	73	49	3	0	1	0	0	0
HI LIHUE	88	74	89	70	81	2	.2	-.3	.1	2.1	117	-.5	89	57	0	0	2	0	0	0
ID BOISE	66	41	83	36	53	-7	.3	-.2	.3	.3	75	9.3	111	71	30	0	0	1	0	0
ID LEWISTON	64	43	70	38	54	-7	.5	-.3	.5	.7	78	9.6	97	76	37	0	0	2	0	0
ID POCATELLO	69	38	81	29	54	-3	.1	-.1	.1	.1	20	9.0	113	67	22	0	1	1	0	0
IL CAIRO	79	58	87	50	69	-1	.2	-.6	.2	1.7	50	34.2	93	93	-.5	0	0	0	0	0
IL CHICAGO	69	48	77	35	59	-3	1.1	-.4	.9	2.9	104	33.3	131	94	51	0	0	3	1	0
IL MOLINE	72	49	79	40	60	-2	3.3	2.4	1.8	5.6	160	28.8	99	91	50	0	0	3	3	1
IL PEORIA	76	54	81	49	65	2	.8	-.1	.6	1.8	53	35.1	124	87	48	0	0	3	1	0
IL ROCKFORD	71	50	78	42	60	0	1.4	-.5	.7	5.3	143	29.6	100	82	43	0	0	3	2	0
IL SPRINGFIELD	78	53	87	44	65	1	.6	-.2	.6	1.5	48	41.5	151	88	42	0	0	2	1	0
IN EVANSVILLE	78	52	88	44	65	-2	.4	-.2	.4	2.1	81	35.5	109	79	39	0	0	1	0	0
IN FORT WAYNE	74	50	84	40	62	0	.4	-.3	.3	2.9	116	29.5	105	79	38	0	0	2	0	0
IN INDIANAPOLIS	75	50	84	39	62	-2	.1	-.6	.1	1.5	56	30.3	100	84	38	0	0	2	0	0
IN SOUTH BEND	69	48	76	36	59	-2	2.3	1.6	2.3	2.9	97	31.9	114	95	48	0	0	3	1	0
IA BURLINGTON	72	54	81	46	63	0	2.9	2.0	1.3	4.2	117	37.2	132	92	52	0	0	3	2	0
IA DES MOINES	73	55	78	49	64	3	1.4	.7	.7	2.4	80	25.8	98	83	50	0	0	2	2	0
IA DUBUQUE	67	51	73	42	59	0	3.1	2.0	1.3	4.6	105	-.5	91	54	0	0	4	4	0	0
IA SIOUX CITY	74	54	80	44	64	3	.4	-.3	.2	1.0	36	15.3	68	92	46	0	0	2	0	0
KS CONCORDIA	80	56	91	46	68	3	.7	0	.5	2.7	87	29.5	123	92	47	1	0	2	1	0
KS DODGE CITY	85	59	95	52	72	6	.5	-.2	.5	3.1	194	20.7	116	83	32	2	0	1	1	0
KS GOODLAND	80	50	85	45	65	4	T	-.3	T	.4	29	20.1	136	74	28	0	0	0	0	0
KS TOPEKA	79	58	86	45	69	3	1.7	1.0	1.3	3.0	97	32.7	113	92	53	0	0	2	1	0
KS WICHITA	86	62	94	51	74	6	T	-.2	.6	2.7	77	20.0	78	84	40	1	0	2	1	0
KY LEXINGTON	76	51	83	40	63	-3	1.0	-.5	T	1.9	76	28.8	82	91	45	0	0	1	0	0
KY LOUISVILLE	77	52	86	45	65	-2	.1	-.5	.1	3.2	119	27.8	82	92	41	0	0	1	0	0
LA BATON ROUGE	88	64	90	59	76	0	0	-.8	0	4.0	111	35.4	100	48	1	0	0	0	0	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending Sept. 27, 1981

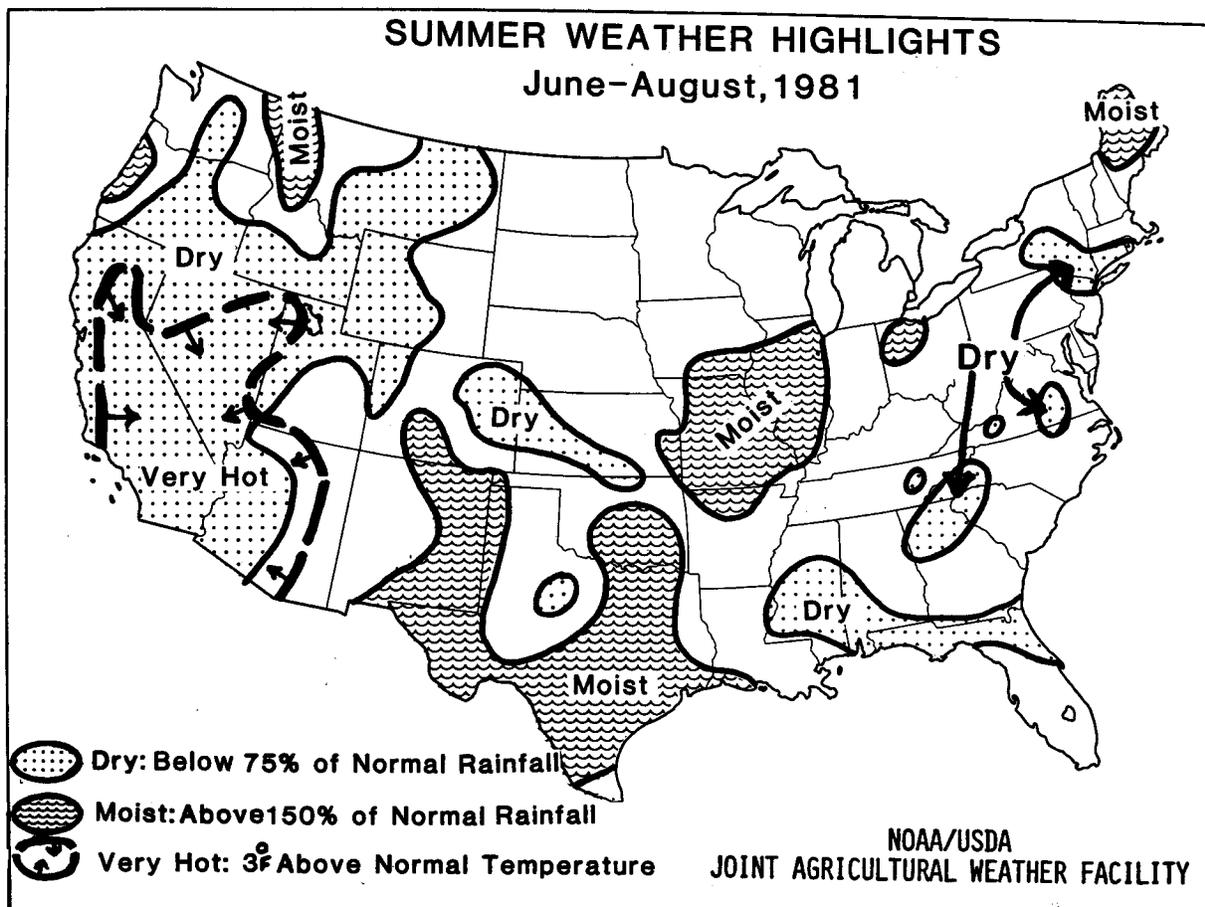
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Aug. 31	PCT. NORMAL SINCE Aug. 31	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
LAZY CHARLES	88	64	91	51	76	-1	0	-.9	0	2.6	68	42.3	101	97	52	2	0	0	0
NEW ORLEANS	88	63	91	58	76	-1	0	-1.2	0	4.9	91	46.2	102	100	49	1	0	0	0
SHREVEPORT	89	62	90	53	76	0	0	-.7	0	3.5	125	33.5	99	97	50	3	0	0	0
ME CARIBOU	56	37	63	33	47	-5	-.6	-.2	-.3	2.3	72	34.5	132	95	57	0	0	4	0
PORTLAND	66	48	84	41	57	1	4.4	3.7	3.4	6.1	210	34.4	119	90	54	0	0	4	2
MD BALTIMORE	76	51	86	45	64	-2	T	-.7	T	3.3	110	25.1	82	83	36	0	0	1	0
MA BOSTON	70	52	80	46	61	-1	-.6	-.1	-.4	2.6	84	21.2	70	91	51	0	0	4	0
CHATHAM	66	53	70	50	59	-1	-.4	-.4	-.3	4.0	-	30.2	92	68	0	0	3	0	
MI ALPENA	59	38	66	27	49	-5	-.3	-.4	-.2	2.4	80	16.1	75	98	58	0	0	3	0
DETROIT	66	46	80	35	56	-5	1.0	-.5	-.9	4.6	209	25.1	102	90	49	0	0	4	1
FLINT	61	42	72	34	52	-7	1.7	1.1	-.9	5.4	216	26.4	113	92	54	0	0	4	1
GRAND RAPIDS	65	47	73	34	56	-4	3.2	2.4	1.7	6.5	210	35.7	144	89	55	0	0	3	2
HOUGHTON LAKE	59	42	67	28	51	-4	-.5	-.2	-.3	1.2	39	23.9	110	97	62	0	1	4	0
LANSING	63	43	72	31	53	-6	2.4	1.7	1.2	4.6	184	24.4	103	99	62	0	1	3	2
MARQUETTE	56	38	64	25	47	-4	-.3	-.6	-.2	1.4	37	22.9	83	98	64	0	3	4	0
MUSKEGON	62	47	69	33	54	-5	1.4	-.6	-.7	2.6	81	22.3	96	96	62	0	0	3	1
S.ULT STE. MARIE	59	35	64	25	47	-6	-.6	-.3	-.3	2.2	61	19.8	85	98	56	0	4	3	0
MN DULUTH	56	43	62	31	50	-2	-.9	-.2	-.7	1.2	40	21.5	87	93	64	0	1	3	1
INT'L FALLS	58	43	63	30	51	0	2.3	1.5	2.0	3.9	122	16.9	78	99	66	0	1	3	1
MINNEAPOLIS	64	49	71	41	57	-1	1.0	-.4	-.5	1.3	48	22.1	101	84	56	0	0	5	0
ROCHESTER	62	46	67	36	54	-3	-.5	-.1	-.5	2.8	97	29.2	125	90	61	0	0	4	0
SAINT CLOUD	62	45	69	35	53	-2	-.8	-.2	-.7	1.2	46	19.4	83	86	58	0	0	3	1
MS JACKSON	88	57	91	52	73	-1	0	-.6	0	3.5	125	34.9	91	98	42	3	0	0	0
MERIDIAN	91	55	94	49	73	0	0	-.7	0	1.7	55	32.0	80	92	29	6	0	0	0
MO COLUMBIA	80	56	90	48	68	3	-.1	-.9	-.1	1.0	24	39.9	132	85	47	1	0	1	0
KANSAS CITY	78	58	83	47	68	3	-.4	-.6	-.2	2.6	65	34.6	114	84	49	0	0	2	0
SAINT LOUIS	79	58	87	50	69	2	-.1	-.6	-.1	2.3	88	37.0	132	88	43	0	0	1	0
SPRINGFIELD	87	59	91	50	73	6	T	-1.0	T	-.8	21	31.6	101	86	44	3	0	1	0
MT BILLINGS	67	41	76	37	54	-2	-.1	-.2	-.1	-.1	7	13.8	117	74	30	0	0	1	0
GLASGOW	64	40	72	25	52	-2	T	-.1	T	0	0	6.7	66	67	31	0	1	1	0
GREAT FALLS	60	37	68	32	49	-6	-.4	-.1	-.3	-.4	33	12.5	98	75	33	0	2	2	0
HAVRE	62	37	68	30	49	-5	-.6	-.4	-.5	-.6	55	8.1	80	73	30	0	1	3	0
HELENA	60	37	68	31	48	-4	-.8	-.6	-.6	-.9	100	12.1	129	80	35	0	2	3	1
KALISPELL	58	34	61	24	46	-5	-.3	-.1	-.2	-.3	30	15.2	121	85	36	0	2	3	0
MILES CITY	66	43	77	33	55	-2	-.4	-.1	-.3	-.4	33	8.0	66	74	31	0	0	2	0
MISSOULA	56	35	63	27	45	-7	-.9	-.7	-.7	1.0	91	13.6	132	96	48	0	3	5	1
NE GRAND ISLAND	76	52	91	41	64	2	-.6	0	-.6	1.0	43	18.5	87	92	45	1	0	1	1
LINCOLN	75	55	85	43	65	2	1.1	-.5	1.1	2.5	89	18.9	81	92	54	0	0	1	1
NORFOLK	74	52	86	43	63	3	-.4	-.1	-.3	-.5	22	17.3	80	90	42	0	0	2	0
NORTH PLATTE	77	49	90	37	63	4	T	-.4	T	-.2	11	21.0	119	92	39	1	0	1	0
OMAHA	74	55	81	47	64	3	-.6	0	-.4	-.7	23	22.9	89	87	58	0	0	2	0
NV VALENTINE	74	50	83	41	62	4	-.8	-.5	-.8	-.9	60	15.3	94	85	45	0	0	2	1
ELY	76	38	81	27	57	3	0	-.1	0	-.3	75	6.2	105	53	18	0	1	0	0
LAS VEGAS	93	68	98	60	80	3	0	-.1	0	-.3	75	2.7	84	36	15	5	0	0	0
RENO	77	39	80	36	58	0	T	0	T	0	0	2.8	56	78	18	0	0	2	0
WINNEMUCCA	73	34	81	26	54	-3	-.2	-.1	-.1	-.2	50	4.3	73	72	19	0	3	2	0
H. CONCORD	64	45	80	38	55	-2	2.6	1.9	1.4	4.6	164	31.8	123	98	60	0	0	4	2
ATLANTIC CITY	75	53	84	46	64	0	-.3	-.4	-.3	1.9	66	26.4	78	87	43	0	0	1	0
TRENTON	73	54	82	50	64	-1	-.2	-.6	-.2	3.7	123	27.8	90	89	47	0	0	1	0
NM ALBUQUERQUE	83	53	89	50	68	1	T	-.1	T	-.4	67	5.9	95	71	25	0	0	1	0
ROS WELL	86	57	92	53	72	3	-.4	0	-.2	2.7	180	23.2	261	86	29	2	0	2	0
NY ALBANY	62	44	76	35	53	-7	1.4	-.7	-.5	3.5	117	21.8	88	85	58	0	0	5	0
BINGHAMTON	61	46	75	41	53	-4	-.8	-.1	-.4	3.6	129	21.6	77	87	61	0	0	4	0
BUFFALO	64	48	75	42	56	-3	1.6	-.9	1.2	4.3	139	28.0	107	88	50	0	0	6	1
NEW YORK	69	55	79	50	62	-4	-.1	-.6	-.1	3.1	97	25.0	80	83	52	0	0	1	0
ROCHESTER	62	47	71	41	54	-5	1.9	1.4	1.1	5.4	245	27.0	116	97	58	0	0	5	1
SYRACUSE	64	50	78	47	57	-3	2.1	1.5	-.7	5.6	215	22.6	84	92	64	0	0	6	2
NC ASHEVILLE	78	43	83	38	61	-4	0	-.8	0	1.4	41	26.4	74	100	35	0	0	0	0
CHARLOTTE	78	52	82	48	65	-5	0	-.8	0	3.5	109	26.8	79	81	33	0	0	0	0
GREENSBORO	77	49	82	42	63	-4	0	-.8	0	6.3	185	31.5	98	83	37	0	0	0	0
HATTERAS	75	57	82	50	66	-5	0	-1.3	0	1.3	23	39.0	94	89	52	0	0	0	0
RALEIGH	78	49	84	41	63	-5	0	-.8	0	2.6	74	25.8	77	94	36	0	0	0	0
WILMINGTON	80	51	86	44	66	-7	0	-1.2	0	1.0	19	36.4	83	91	41	0	0	0	0
ND BISMARCK	67	45	73	39	56	1	-.4	-.1	-.1	1.8	129	12.5	86	88	43	0	0	5	0
FARGO	64	45	72	34	55	0	-.1	-.3	T	1.1	58	13.7	79	90	51	0	0	3	0
WILLISTON	69	42	78	36	55	2	-.1	-.1	-.1	-.2	17	9.4	75	82	31	0	0	2	0
OH AKRON-CANTON	69	46	79	39	58	-4	-.1	-.5	T	3.2	128	34.2	123	83	45	0	0	2	0
CINCINNATI	75	50	85	39	62	-3	T	-.6	T	1.4	58	27.3	90	84	37	0	0	0	0
CLEVELAND	68	48	81	36	58	-3	-.2	-.4	-.2	6.0	231	30.7	110	79	44	0	0	3	0
COLUMBUS	70	45	81	35	58	-5	T	-.5	T	2.2	96	31.9	107	84	46	0	0	0	0
DAYTON	71	47	82	36	59	-5	T	-.5	T	5.1	232	34.6	126	83	43	0	0	0	0
TOLEDO	68	45	82	37	56	-5	-.7	-.1	-.3	6.1	265	29.9	120	94	48	0	0	4	0
YOUNGSTOWN	66	44	78	35	55	-5	T	-.6	T	3.7	161	28.0	96	84	45	0	0	1	0
OK OKLAHOMA CITY	91	66	95	59	78	8	T	-.8	T	1.5	47	28.8	110	81	39	5	0	1	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Sept. 27, 1981

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. 31	PCT. NORMAL SINCE Aug. 31	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE			
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OR TULSA	89	66	93	60	78	7	.1	-.9	.1	3.1	82	27.9	93	85	51	3	0	1	0
OR ASTORIA	63	47	66	40	55	-2	1.3	.4	.5	2.3	88	36.5	93	89	59	0	0	5	0
OR BURNS	61	30	76	23	45	-11	.4	.3	.2	.4	100	7.7	100	87	47	0	3	2	0
OR MEDFORD	69	45	73	36	57	-5	.4	.2	.5	.5	83	6.8	56	82	34	0	0	2	0
OR PENDLETON	62	43	66	40	53	-9	1.3	1.1	1.0	1.3	260	10.3	124	78	40	0	0	2	0
OR PORTLAND	66	49	72	43	57	-3	1.3	.8	.5	1.9	127	17.4	79	96	53	0	0	2	1
OR SALEM	66	45	72	39	55	-5	2.2	1.7	1.2	2.8	215	19.5	81	99	53	0	0	5	1
PA ALLENTOWN	71	48	83	40	59	-3	.1	-.7	-.1	2.8	80	27.2	85	88	48	0	0	2	0
PA ERIE	65	52	81	47	58	-1	.9	.1	.5	3.5	106	31.3	112	81	51	0	0	3	0
PA HARRISBURG	71	49	81	44	60	-4	.2	-.4	.2	2.7	104	27.7	101	84	41	0	0	1	0
PA PHILADELPHIA	74	52	82	47	63	-3	.1	-.6	.1	2.9	97	29.2	96	85	42	0	0	0	0
PA PITTSBURGH	68	45	78	36	57	-5	.5	.5	.5	4.1	178	30.8	110	86	50	0	0	1	0
PA SCRANTON	66	49	81	41	58	-3	.9	.3	.5	2.8	108	28.1	106	87	59	0	0	3	1
RI PROVIDENCE	72	47	80	41	59	-2	.2	-.5	-.2	2.3	77	23.1	76	91	48	0	0	1	0
SC CHARLESTON	84	57	87	51	71	-3	0	-.1	0	1.3	26	41.8	96	91	42	0	0	0	0
SC COLUMBIA	83	47	86	43	65	-7	0	-.9	0	.4	10	28.1	74	95	31	0	0	0	0
SC GREENVILLE	80	49	84	43	65	-5	0	-.8	0	2.0	57	22.3	61	78	31	0	0	0	0
SD ABERDEEN	72	50	85	45	61	5	.2	-.3	.1	1.4	82	12.8	76	94	43	0	0	3	0
SD HURON	74	50	79	43	62	4	.1	-.2	-.1	.2	17	11.9	75	79	34	0	0	0	0
SD RAPID CITY	72	47	85	38	59	2	.3	-.4	.2	.5	18	14.1	65	89	39	0	0	2	0
SD SIOUX FALLS	73	49	78	39	61	3	0	-.9	0	2.8	80	33.3	86	88	39	0	0	3	0
TN CHATTANOOGA	81	51	86	48	66	-3	0	-.6	0	6.1	244	32.6	92	91	45	0	0	0	0
TN KNOXVILLE	79	53	84	49	66	-3	0	-.7	0	2.9	97	30.0	79	82	43	1	0	0	0
TN MEMPHIS	86	64	90	55	75	4	0	-.7	0	2.9	97	32.8	92	83	41	0	0	1	0
TX ABILENE	93	70	95	67	82	8	.4	-.2	.4	1.4	47	32.8	92	83	41	0	0	1	0
TX AMARILLO	84	59	91	52	72	4	.1	-.3	.1	1.7	81	16.2	86	75	32	6	0	0	0
TX AUSTIN	92	68	94	61	80	3	0	-.9	0	2.8	78	37.9	150	89	41	6	0	2	0
TX BEAUMONT	87	66	90	63	77	-6	0	-.1	0	3.5	71	38.9	93	100	52	1	0	0	0
TX BROWNSVILLE	91	72	92	70	82	1	.2	-.1	.2	4.5	96	26.1	139	91	53	7	0	1	0
TX CORPUS CHRISTI	90	70	91	67	80	0	.2	-.1	.2	.5	11	31.8	143	93	55	3	0	0	0
TX DEL RIO	93	69	96	64	81	3	0	-.8	0	.3	10	20.6	153	84	36	7	0	0	0
TX EL PASO	92	62	96	56	77	5	.1	-.2	.1	.5	45	11.8	190	74	25	5	0	1	0
TX FORT WORTH	92	65	95	58	79	4	0	-.8	0	2.4	83	28.9	112	86	36	7	0	0	0
TX GALVESTON	85	74	85	69	80	1	0	-.2	0	2.5	48	29.0	91	89	67	0	0	0	0
TX HOUSTON	90	67	92	63	79	1	0	-.1	0	8.9	202	41.7	116	97	48	5	0	0	0
TX LUBBOCK	85	60	92	54	72	4	.3	-.2	.2	1.8	90	16.8	114	85	39	1	0	2	0
TX MIDLAND	93	64	97	57	79	5	0	-.4	0	1.7	113	11.9	110	75	28	6	0	0	0
TX SAN ANGELO	89	64	92	55	77	2	0	-.7	0	2.6	100	21.3	154	85	34	4	0	0	0
TX SAN ANTONIO	92	68	94	58	80	3	T	-.9	T	1.4	40	27.4	126	93	42	7	0	0	0
TX VICTORIA	91	67	92	63	79	1	T	-.1	T	1.2	27	33.5	128	95	49	6	0	1	0
TX WACO	91	67	93	59	79	2	0	-.8	0	3.7	123	23.9	98	93	42	6	0	0	0
TX WICHITA FALLS	96	67	100	63	82	8	.1	-.6	-.1	1.5	54	22.6	102	78	33	7	0	1	0
UT BLANDING	77	51	82	47	64	3	0	-.2	0	1.5	150	9.9	118	68	30	0	0	1	0
UT SALT LAKE CITY	78	47	86	39	63	1	T	-.2	T	.5	71	9.8	86	71	22	0	0	1	0
VT BURLINGTON	60	48	73	44	54	-3	3.3	2.6	1.9	5.6	193	31.7	132	91	60	0	0	6	2
VA LYNCHBURG	76	47	83	39	62	-4	0	-.7	0	3.6	116	28.2	96	86	40	0	0	0	0
VA NORFOLK	77	56	84	51	67	-3	0	-.9	0	3.2	76	30.3	86	86	37	0	0	0	0
VA RICHMOND	79	49	85	40	64	-3	0	.8	0	2.7	79	28.1	85	91	38	0	0	0	0
VA ROANOKE	77	47	83	41	62	-4	0	-.8	0	4.5	141	23.0	77	86	40	0	0	0	0
WA COLVILLE	59	38	64	27	49	-7	.5	-.2	.3	1.1	122	17.6	156	90	55	0	1	3	0
WA OMAK	64	40	66	32	52	-7	.7	-.7	.5	.9	--	7.4	--	--	0	1	4	1	2
WA QUILLAYUTE	61	44	63	34	52	-3	2.9	1.4	1.6	5.3	120	60.4	96	100	66	0	0	6	1
WA SEATTLE-TACOMA	62	47	68	44	55	-3	2.4	1.9	1.0	3.1	182	19.2	85	88	51	0	0	5	2
WA SPOKANE	59	36	60	29	47	-9	.4	.2	.4	.6	100	10.1	85	91	45	0	1	2	0
WA WALLA-WALLA	65	47	67	43	56	-6	.8	.6	.7	.8	100	14.8	131	78	34	0	0	2	1
WA YAKIMA	65	38	66	30	51	-7	.5	.5	.5	.6	150	3.9	78	81	37	0	2	3	0
WV BECKLEY	69	45	76	33	57	-4	T	-.7	T	5.2	163	29.5	88	92	48	0	0	0	0
WV CHARLESTON	75	49	83	40	62	-3	T	-.7	T	2.3	79	29.5	90	94	43	0	0	0	0
WV HUNTINGTON	77	49	87	38	63	-2	0	-.6	0	1.6	59	31.3	101	86	40	0	0	0	0
WV PARKERSBURG	71	52	81	37	62	-3	T	-.6	T	3.7	142	27.3	88	92	49	0	0	0	0
WI GREEN BAY	61	45	69	34	53	-3	1.2	.5	.5	2.1	72	16.8	76	96	65	0	0	4	2
WI LA CROSSE	64	48	73	40	56	-3	.5	-.3	.3	1.9	59	30.5	126	97	65	0	0	4	0
WI MADISON	65	46	74	37	56	-2	1.5	.7	.6	4.1	128	26.4	106	90	57	0	0	4	1
WI MILWAUKEE	63	49	71	44	56	-2	1.5	.8	.6	4.3	154	26.3	115	91	58	0	0	4	1
WY CASPER	75	39	80	28	57	1	T	-.2	T	0	0	8.9	102	57	17	0	1	0	0
WY CHEYENNE	73	46	78	41	60	5	.1	-.1	-.1	.3	33	15.2	119	78	29	0	0	3	0
WY LANDER	73	42	80	31	58	2	T	-.3	T	.5	50	9.4	86	52	22	0	1	0	0
WY SHERIDAN	73	41	87	35	57	2	.1	-.2	.1	.5	42	12.2	92	70	25	0	0	1	0
PR SAN JUAN	92	76	94	71	84	3	.2	-.2	.2	3.0	52	42.6	100	92	61	7	0	1	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS



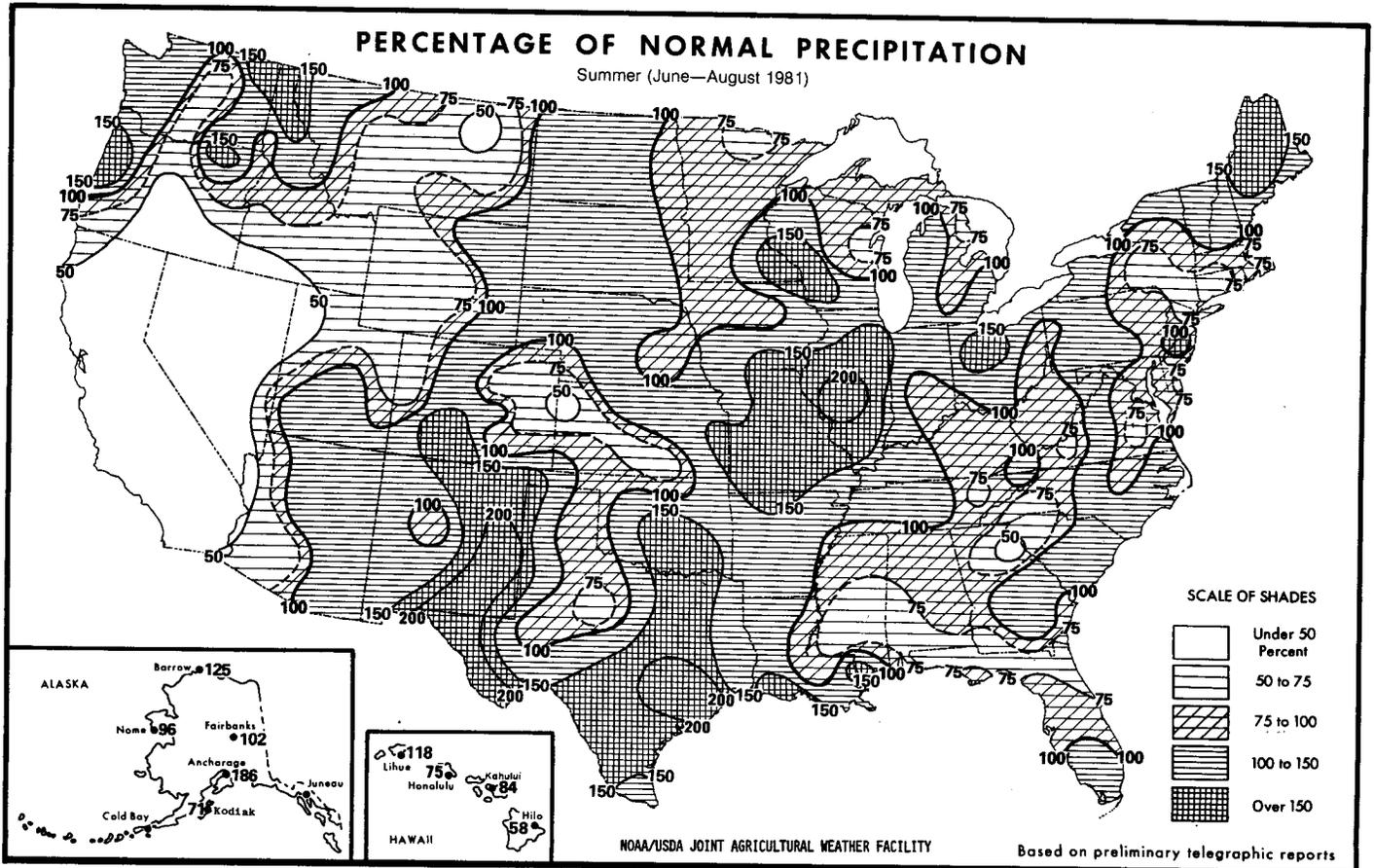
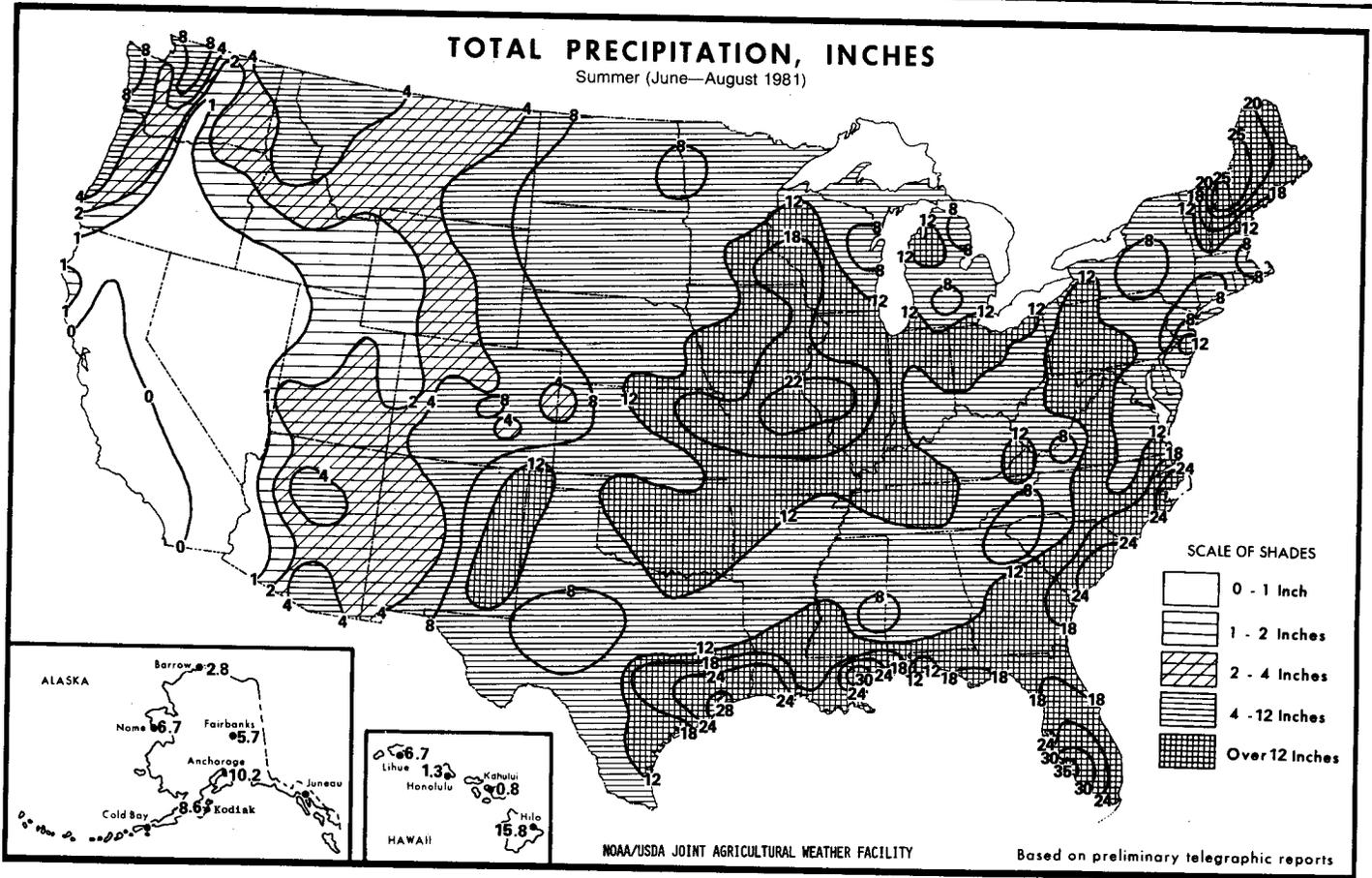
### Summer Weather Review

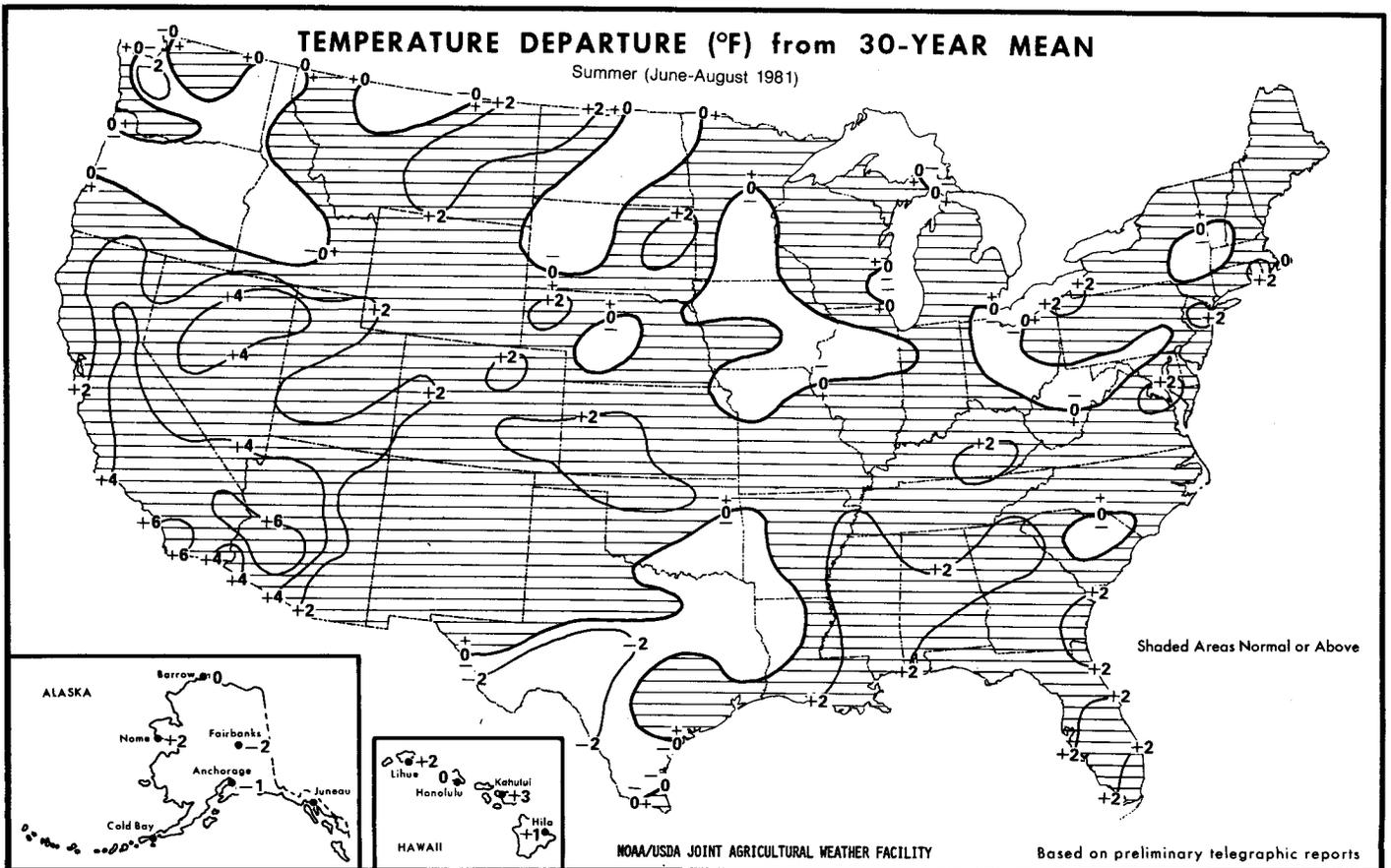
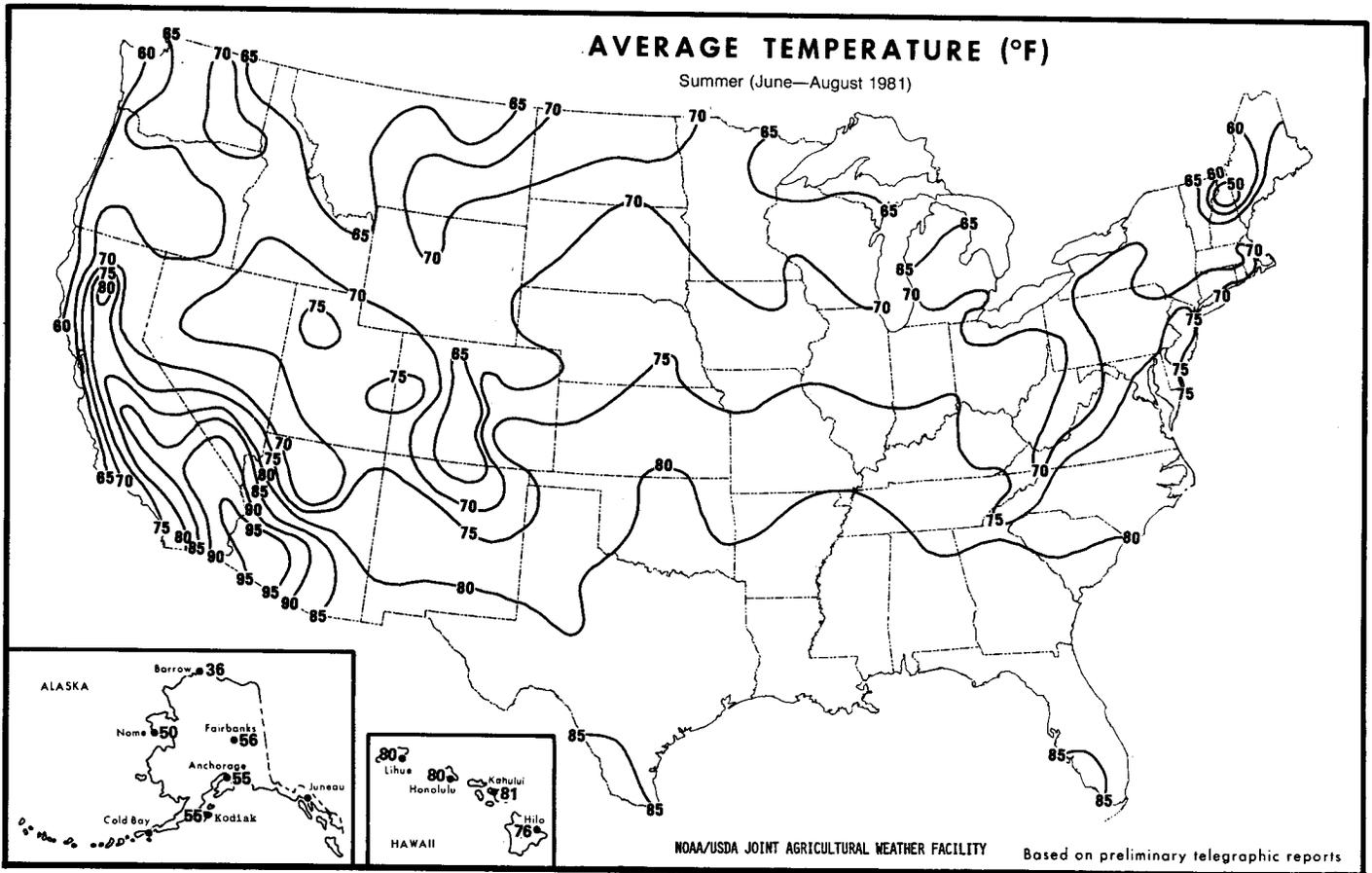
**HIGHLIGHTS:** Summer rainfall was unusually heavy from southern Texas to western Wisconsin. Parts of Texas and Illinois accumulated over twice the normal amount for the season. Heavy rain inundated most of Missouri during the first 2 months of the season. Some fields were flooded and the winter wheat harvest was delayed. Unusually wet weather in June further delayed the planting of corn and soybeans in the eastern portion of the Corn Belt. Tropical storms brought heavy rains to southern Florida and parts of the East, but total amounts were only slightly above normal for the season. Other parts of the East and Southeast had less than normal rainfall and some areas were too dry. Seasonal rains in the Southwest resulted in heavy accumulations in the southern Rockies. Timely rains in most of the northern Plains were good for spring-planted crops. Eastern Montana had much less than normal summer rain and drought continues there. Summer temperatures were near normal through the Corn Belt and pollination was accomplished without stress. The Southwest and most of the Plateau was much warmer than normal.

**JUNE...**Tropical air caused heavy rain--more than double the normal amount in much of eastern Texas and Oklahoma. Well above-normal amounts spread into Arkansas, Tennessee, and the upper Ohio Valley, and southeastern Great Lakes region. Planting of corn and soybeans was further delayed. Above-normal seasonal rain fell in the Southwest and Pacific Northwest. Another area of wet weather extended northward from Arkansas through Minnesota. Rain over the northern Plains was beneficial to spring wheat. Temperatures were warmer than normal over all of the East and most of the West. Only the Pacific Northwest, the northern Plains, and south central Texas averaged cooler than normal.

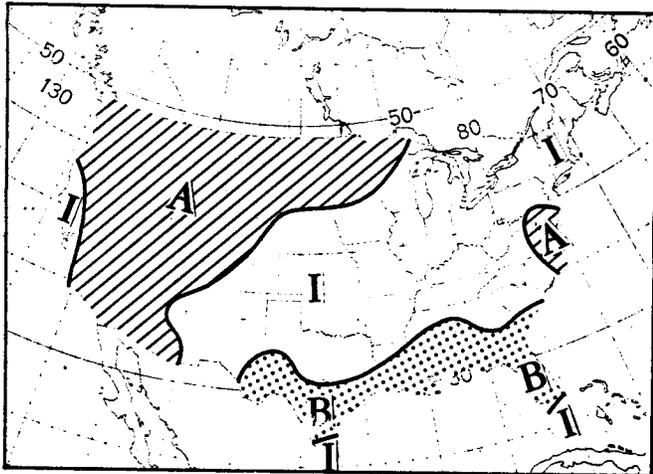
**JULY...**Heavy rain over the middle Mississippi Valley resulted in local flooding and caused problems for the winter wheat harvest. Beneficial rain fell throughout the northern Plains, catching spring crops at their peak demand for moisture. Only small areas recorded less than normal rain. Precipitation in the eastern Corn Belt was less than normal as was much of eastern United States. Parts of New England and mid-Atlantic States accumulated above-normal rain. But most of the Southeast was very dry. Seasonal rain tapered off in the Pacific Northwest and progressed well in the Rockies and Southwest. Temperatures stayed near normal through the Corn Belt and were beneficial for the start of the important pollination period for corn.

**AUGUST...**Seasonal precipitation continued in the Southwest and shifted eastward through New Mexico and West Texas. Amounts totaled above normal for the month. Much of the Plains had above-normal rain in the form of thunderstorms but some areas in the high Plains were relatively dry. Most of the northern Plains--eastern Montana and northern Minnesota excepted--continued to get normal to above-normal rain. Tropical systems accounted for heavy rain in southern Florida, the southeastern coast, New England, and along the western gulf coast. Adequate moisture for the growing crops fell through most of the Corn Belt, but parts of the upper Ohio Valley and Indiana were too dry. A heat wave was in progress in the West. Some cooling occurred along the coast in the latter part of the month, but the hot area continued in inland areas and through the Plateau. Late in the month, the warm air moved over the northern Plains. Temperatures in the East were near normal, benefiting the flowering of corn and soybeans.





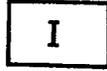
OUTLOOK FOR 90 DAY AVERAGE TEMPERATURES  
OCTOBER THROUGH DECEMBER 1981



ABOVE NORMAL, 60% CHANCE OF OCCURRENCE



BELOW NORMAL, 60% CHANCE OF OCCURRENCE



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

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

NOAA, National Weather Service, Climate Analysis Center

MEDFLY SITUATION REPORT  
SEPTEMBER 25, 1981

A larvae find in Castro Valley was confirmed Wednesday, September 23rd. The find was near Highway 580 within the quarantine area but not in an area previously sprayed in the Santa Clara Valley. The host fruit was a peach. The property was ground sprayed with Diazinon and aerial sprayed Thursday night.

Four additional medflies have been found at Los Angeles International Airport. These were being flown to Sacramento Thursday for identification. The fly previously found was a sterile fly. All flies found so far have been dyed with horizon blue dye used by the Hawaiian lab for identification. The Hawaiian lab ships pupae to Guatemala in sausage-like containers. Containers are transferred from one airline to another at LAX. It now appears that one container was dropped by airline personnel (or damaged in transferring to other plane) and pupae escaped and hatched at airport.

Road inspection stations are scheduled to be discontinued as of October 1. The inspection stations were installed on July 9 to remind the public of the Medfly quarantine. When the checkpoints were first installed, confiscations were high. Confiscations are low now and the number of citations issued has declined sharply when the roadblocks were installed, stone fruits (peaches, apricots, plums, etc.) were in season. With the close of the stone fruit season comes the close of the checkpoints. The first inspection stations were on Highway 101 south at Coyote, Highway 680 north at Mission and Highway 17 at Summit. Three roving patrols were added on

July 10. Since the initiation of the inspection stations, over 4.8 million vehicles have been stopped. Fruit has been confiscated from more than 91,000 vehicles and over 900 citations have been issued. The California Highway Patrol (CHP), California Department of Food and Agriculture (CDFA) and United States Department of Agriculture (USDA) officials operate the checkpoints. The CHP, CDFA, Caltrans and USDA officials have dedicated 77,000 hours to operating the checkpoints. The estimated cost to the CHP for staff and operations is approximately \$10,000 per day. The cost to all agencies involved is estimated to be about a quarter of a million dollars per week.

There are more than 100,000 Medfly traps in California stretching from San Diego to Redding. Two years ago, before the first two Medflies were trapped in San Jose, there were only 80 traps in Santa Clara County. Today, there are more than 26,000 Jackson traps in Santa Clara, Alameda and San Mateo Counties.

Most of the Medfly traps in California are checked by county employees. The counties are reimbursed by the State for Medfly trapping expenditures. The Jackson traps used in California's trapping program are purchased from the Sandie Die and Cartridge Company of Albuquerque, New Mexico at a price of about 20 cents each. The Jackson trap is a cardboard delta-shaped trap with a metal hanger, sticky board and a cotton wick where an attractant is placed. The attractant, Trimedlure, is purchased for about \$787.00 per gallon and is dyed red so trappers can see it and avoid spills. The Medfly Project's Deputy Director Dick Jackson developed the Jackson trap in 1967.

## National Agricultural Summary

SEPTEMBER 21-27, 1981

**HIGHLIGHTS:** Dry weather in the southeastern third of the Nation further depleted soil moisture supplies, deteriorated pastures, and stressed crops. In parts of the northern Plains and Montana, the lack of rainfall continued to delay small grain seeding. However, extremely heavy rainfall in Michigan damaged the dry bean crop. Soil moisture supplies were rated surplus in Michigan, adequate to surplus in New England, very short to short in South Dakota, parts of Montana, and Georgia, and short to adequate in most other areas. Farmers had 5 to 7 days available for fieldwork in all areas of the Nation--except in Michigan and New England, where rain limited the number of days suitable for fieldwork to 3 or 4. Corn rated good to excellent in much of the Corn Belt; 97% of the crop was in or past the dent stage and 70% was mature. Harvesting became more widespread. Soybeans were in good to excellent condition in parts of the Corn Belt and fair to mostly good in all other areas; leaves were dropping on 50% of the acreage and harvest was 8% finished. Winter wheat seeding was 44% complete; conditions were favorable for germination except in parts of the northern Plains and Montana where dry conditions persisted. Cotton bolls were opening on 63% of the acreage and harvesting reached 12% finished. Sorghum combining was 29% complete. Rice was 66% harvested. The fall apple harvest moved into full swing. Livestock were being moved from summer pastures and ranges.

**CORN:** Corn rated good to excellent throughout much of the Corn Belt, poor to fair in parts of the southeast, and fair to mostly good in other areas. Development still lagged normal in nearly all of the major producing States. Frost touched parts of the eastern Corn Belt. Damage, if any, was minimal. In the 17 major producing States, 97% of the crop was in or past the dent stage and 70% was mature. The percentage of the crop reaching the mature stage was well below normal in most of the 17 States, ranging up to 30 points less than average in Indiana and 35 points below average in Nebraska and Ohio. Harvesting became more widespread in the Corn Belt and was well advanced across the South, reaching 89% complete in Georgia.

**SOYBEANS:** Soybeans were in good to excellent condition in parts of the Corn Belt and fair to mostly good in all other areas. Rain is needed to improve conditions in the Southeast. In the 18 major producing States, leaves were dropping on 50% of the acreage, 14 points behind a year ago. Harvesting in the major States was 8% finished, 3 points behind last year. Harvest was underway in all States except North Carolina, South Carolina, and Tennessee. Progress ranged up to 23% complete in Iowa and generally lagged normal in most States.

**SMALL GRAINS:** Spring wheat harvesting was completed as excellent weather allowed Idaho growers to finish rapidly. Winter wheat seeding of the 1982 crop was 44% complete in the 15 major producing States, equal to last year's progress but slightly behind normal. Seeding was underway in all States except California, where seeding usually starts later. Conditions were favorable for germination--except in parts of the northern Plains and Montana, where growers delayed seeding as they waited for improved soil moisture conditions. Progress in Kansas reached the half-way mark, 10 percentage points ahead of normal.

**COTTON:** Cotton was in fair to good condition--except in Georgia, where the crop rated poor to fair due to dry weather. In the 14 major producing States, bolls were opening on 63% of the acreage, 1 point behind last year. Harvesting was underway in all States--except California, where picking normally begins at a later date. In the 14 major States, 12% of the acreage had been harvested, compared with 18% last year. Cool, cloudy weather slowed the development of Texas cotton. In the southern High Plains of Texas, some fields were destroyed by recent hail storms.

**SORGHUM:** Sorghum harvest was active in all seven of the major producing States. Combining reached 29% finished, 2 points behind average. Harvesting made little progress in Texas during the week. Damp weather kept moisture levels of the grain too high for harvest.

**OTHER CROPS:** Rice harvesting was 66% finished, ahead of last year's 58%. Harvesting was complete in Texas and active in all other producing States. Progress generally exceeded last year and average. Ideal weather prevailed for harvest in Arkansas and dryers were operating at full capacity.

The Maine potato harvest reached 40% complete. Progress was slowed by rain. Idaho potatoes were 18% harvested, slightly ahead of schedule.

Heavy rains did major damage to the Michigan dry bean crop. There is widespread sprouting, molding, and overall quality deterioration of unharvested beans.

Peanut harvest became more widespread as growers continued digging and threshing activities. In Texas, some fields in the Edwards Plateau area showed damage due to excessive moisture.

**FRUITS AND NUTS:** Fall apple harvest was in full swing in northern production regions, as was the New York grape harvest. California growers continued harvesting wine and table grapes. Florida citrus groves were in very good to excellent condition with very limited irrigation. Fresh fruit packing increased. Arizona's lemon harvest picked up momentum in the Yuma area. High winds and unusually heavy fruit sets caused severe tree damage in several areas. California growers harvested apples, pistachios, almonds, walnuts, Valencia oranges, and lemons.

**VEGETABLES:** Summer vegetable harvests neared completion and fall harvests became more widespread. Heavy rains in Dade County, Florida, caused damage to recently planted vegetable fields. Hand preparation, seeding, and transplanting continued to be a major job for growers. Limited harvest started in early-planted vegetable fields. California growers harvested a wide variety of vegetables. In Texas, vegetable crops made excellent progress.

**PASTURES AND LIVESTOCK:** Pastures and ranges were in fair to good condition--except in parts of the Corn Belt, where good to excellent conditions were reported. In the West, dry conditions prevailed. Livestock were being moved from summer grazing and were in fair to good condition.

**CROP PROGRESS**

FOR WEEK ENDING SEPT 27, 1981  
NA - NOT AVAILABLE

	CORN % DENT		
	1981	1980	AVG.
COLO	94	94	92
GA	100	100	100
ILL	100	100	100
IND	95	99	99
IOWA	100	100	100
KANS	95	97	95
KY	100	100	100
MICH	95	94	95
MINN	99	99	98
MO	100	100	100
NEBR	95	100	99
N C	100	100	NA
OHIO	90	100	100
PA	93	91	86
S DAK	91	100	100
VA	98	94	NA
WIS	92	100	97
17 STATES	97	99	NA
EXCL. STATES WITH NA	97	99	99

THESE 17 STATES PRODUCED 93%  
OF THE 1980 CORN CROP.

	CORN % MATURE		
	1981	1980	AVG.
COLO	50	59	70
GA	100	100	100
ILL	85	100	95
IND	45	90	75
IOWA	92	92	91
KANS	70	80	75
KY	80	95	80
MICH	55	55	50
MINN	60	86	79
MO	71	89	74
NEBR	45	90	80
N C	99	96	NA
OHIO	45	90	80
PA	44	45	32
S DAK	66	83	94
VA	96	90	NA
WIS	82	100	91
17 STATES	70	89	NA
EXCL. STATES WITH NA	69	89	83

THESE 17 STATES PRODUCED 93%  
OF THE 1980 CORN CROP.

	SOYBEAN % DROPPING LEAVES		
	1981	1980	AVG.
ALA	31	31	NA
ARK	13	41	NA
GA	24	29	NA
ILL	65	88	86
IND	40	80	80
IOWA	85	92	87
KANS	55	55	NA
KY	28	47	38
LA	39	38	39
MICH	60	57	62
MINN	96	91	94
MISS	68	65	59
MO	23	36	33
NEBR	65	75	75
N C	8	13	NA
OHIO	50	90	80
S C	10	24	16
TENN	24	41	28
18 STATES	50	64	NA
EXCL. STATES WITH NA	57	71	68

THESE 18 STATES PRODUCED 95%  
OF THE 1980 SOYBEAN CROP.

	SOYBEAN % HARVESTED		
	1981	1980	AVG.
ALA	1	4	NA
ARK	3	3	3
GA	1	1	1
ILL	11	25	25
IND	3	10	10
IOWA	23	13	19
KANS	3	10	3
KY	1	11	8
LA	8	8	10
MICH	2	2	3
MINN	12	7	17
MISS	6	7	7
MO	4	11	8
NEBR	5	15	10
N C	0	0	0
OHIO	5	15	10
S C	0	0	0
TENN	0	2	2
18 STATES	8	11	NA
EXCL. STATES WITH NA	8	11	12

THESE 18 STATES PRODUCED 95%  
OF THE 1980 SOYBEAN CROP.

	SORGHUM % MATURE		
	1981	1980	AVG.
COLO	42	54	56
KANS	30	40	50
MO	63	67	69
NEBR	40	90	60
OKLA	70	65	65
S DAK	60	63	63
TEX	77	82	NA
7 STATES	53	66	NA
EXCL. STATES WITH NA	41	58	56

THESE 7 STATES PRODUCED 92%  
OF THE 1980 SORGHUM CROP.

	SORGHUM % HARVESTED		
	1981	1980	AVG.
COLO	1	4	3
KANS	4	15	15
MO	22	34	25
NEBR	1	25	1
OKLA	20	25	15
S DAK	10	8	8
TEX	73	75	70
7 STATES	29	38	31

THESE 7 STATES PRODUCED 92%  
OF THE 1980 SORGHUM CROP.

	RICE % HARVESTED		
	1981	1980	AVG.
ARK	61	45	36
CALIF	14	5	NA
LA	95	90	91
MISS	60	62	51
TEX	100	100	100
5 STATES	66	58	NA
EXCL. STATES WITH NA	77	68	63

THESE 5 STATES PRODUCED 98%  
OF THE 1980 RICE CROP.

	WINTER WHEAT % PLANTED		
	1981	1980	AVG.
CALIF	0	0	NA
COLO	86	88	91
IDAHO	36	29	38
ILL	8	10	9
IND	7	15	12
KANS	50	50	40
MO	10	19	13
MONT	45	70	75
NEBR	85	90	75
OHIO	15	15	20
OKLA	40	25	30
OREG	20	35	NA
S DAK	90	94	90
TEX	38	37	40
WASH	54	45	43
15 STATES	44	44	NA
EXCL. STATES WITH NA	46	45	43

THESE 15 STATES PRODUCED 88%  
OF THE 1980 WINTER WHEAT CROP.

	COTTON % HARVESTED		
	1981	1980	AVG.
ALA	10	19	8
ARIZ	9	2	6
ARK	10	20	10
CALIF	0	0	NA
GA	24	42	15
LA	23	20	11
MISS	20	10	10
MO	3	38	10
N MEX	1	1	1
N C	17	22	7
OKLA	5	5	5
S C	8	35	14
TENN	4	35	12
TEX	15	23	17
14 STATES	12	18	NA
EXCL. STATES WITH NA	14	20	14

THESE 14 STATES PRODUCED 99%  
OF THE 1980 COTTON CROP.

	COTTON % BOLLS OPENING		
	1981	1980	AVG.
ALA	80	84	47
ARIZ	94	95	94
ARK	80	93	63
CALIF	85	40	NA
GA	77	92	NA
LA	95	81	64
MISS	99	97	87
MO	73	87	72
N MEX	85	40	NA
N C	93	92	NA
OKLA	40	65	35
S C	80	92	84
TENN	54	91	44
TEX	47	54	NA
14 STATES	63	64	NA
EXCL. STATES WITH NA	80	88	68

## 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 below normal. No rainfall.

Fieldwork: 6.0 days. Activities: Harvest of row crops, hay, fruits, vegetables, scouting and treating agricultural pests, planting forage crops. Corn: Harvested 82%, 84% 1980, 53% average. Cotton: Bolls open 80%, 84% 1980, 47% average; harvested 10%, 19% 1980, 8% average. Peanuts: Dug 56%, 34% 1980, 49% average; combined 42%, 23% 1980, 39% average. Sorghum: Harvested 43%, 31% 1980. Soybeans: Turning yellow 54%, 76% 1980, 60% average; leaves dropping 31%, 31% 1980; mature 14%, 29% 1980, 26% average; harvested 1%, 4% 1980. Wheat: Seeded 6%, 12% 1980. Conditions: Peanuts good; soybeans, cotton, sorghum fair to good; pastures fair.

**ARIZONA:** Numerous showers over State during week. Rainfall eastern two-thirds State, 0.25 to 0.75 in. Warmer, drier air across during weekend. Average temperatures 2° below to 5° above normal.

Cotton very good progress, harvest activity increasing, watering, pesticide applications, decreasing, application defoliant increasing; 94% crop open bolls, 9% harvested. Sorghum harvest increasing, alfalfa haying seasonal progress, rain damaged cut, baled hay several areas. Land preparation, planting vegetables late fall, early winter active. Most vegetables fall harvest good stand, growing well. Lettuce Cochise County at maturity. Weeding, thinning lettuce, other mixed vegetables active. Harvest green onions under-way Salt River Valley. Lemon harvest increasing Yuma area. Other new crop fruit sizing well. High winds, unusually heavy fruit sets, caused severe tree damage several areas, especially lemons. Southwestern Deserts poor to fair. Northeastern counties fair. Remainder State fair to good with water supplies and soil moisture adequate. Cattle fair to good, sheep excellent.

**ARKANSAS:** Temperatures near normal. Very dry week. Highest temperature 94°, lowest 42°. All departures ranged from -4 to +3°. Most rainfall 0.39 in., least zero.

Ideal weather for rice harvest. Rice dryers operating at full capacity. Late soybeans need rain. Rice ripe 90%, 80% 1980; harvested 61%, 45% 1980, 36% average. Soybeans yellowing 26%, 48% 1980; shedding 13%, 41% 1980; mature 8%, 16% 1980; harvested less than 5%, same as 1980 and average. Cotton open bolls 80%, 93% 1980, 63% average; harvested 10%, 20% 1980, 10% average. Corn harvested 88%, 98% 1980, 58% average. Sorghum harvested 83%, 88% 1980, 69% average. Seven days fieldwork. Soil moisture short. Livestock good.

**CALIFORNIA:** First storm of the season to go as far south as Stockton. Blue Canyon, at 5,000 ft., received 1.12 in. Largest valley amounts were Marysville, 0.79 and Chico, 0.66. Southern California still about 2° above normal, but all of Northern California was below normal with the Sacramento Valley 5° below normal. The Sacramento Valley averaged 0.50 in. and the North Coast about 0.25 in. for the week.

Rice harvest 15%, 5 last year. Cotton bolls 85% open. Defoliation cotton active. Land prepared for winter wheat planting. Sugarbeets going to processors. Harvest of corn for grain active. Seed alfalfa harvest well along. Harvest of apples, wine grapes, table grapes, pistachio, almonds, walnuts and Valencia oranges continued. Desert lemon harvest increased.

Sugar content in wine grapes continued generally high. Olive harvest began Sacramento Valley. Kiwi harvest expected by mid-October Sacramento Valley. Artichoke, broccoli, cauliflower supplies normal Central Coast. Cantaloupe harvest continues San Joaquin Valley and west Riverside. Carrot pulling active Kern District, Salinas Valley. Celery harvest Central Coast. Lettuce supplies fairly heavy Central Coast. Harvest of Norgold potatoes active Klamath Basin. Market tomato harvest active coastal districts and San Joaquin Valley. Processing tomato harvest active late districts. Movement cattle from summer ranges complete many areas. Rain Northern California reduced fire danger.

**COLORADO:** Minor cooling and spotty precipitation early in week. Unseasonably warm and dry remainder of week. Temperatures averaged from 3 to 8° above normal mountains and west; 5 to 10° above normal east.

Winter wheat seeded 86%, 88% 1980, 91% average; emerged 62%, 59% 1980, 67% average. Barley harvested 97%, 98% 1980 and average. Spring wheat harvested 82%, 90% 1980. Corn dented 94%, 94% 1980, 92% average; mature 50%, 59% 1980, 70% average; grain harvested 1%, 5% 1980, 10% average; silage harvested 86%, 75% 1980, 87% average. Sorghum ripe 42%, 54% 1980, 56% average; grain harvested 1%, 4% 1980, 3% average; forage harvested 32%, 47% 1980. Dry beans cut 86%, 74% 1980, 85% average; threshed 62%, 49% 1980, 56% average. Fall potatoes harvested 27%, 36% 1980, 42% average. Six days suitable for fieldwork. Ranges and pastures, livestock good condition.

**FLORIDA:** Over Panhandle, north cool weather with temperatures 5 to 7° below normal; no rain. Central Peninsula temperatures little below normal; few showers of mostly under 0.50 in. South Florida had near normal temperatures; heavy rains along southeast coast with 4.00 to 8.00 in. Some isolated localities mostly above 10.00 in. Elsewhere over south a few showers with amounts generally under 0.50 in.

Soil moisture excessive south, adequate most central eastern areas, getting short north, parts of Panhandle. Soybean harvest beginning. Peanut harvest active. Hay, corn harvest winding down. Tobacco marketing practically complete. Cutting sugarcane for seed increasing. Sugarcane condition good to excellent. Planting small grains underway. Pastures showed some decline many northern, Panhandle areas due to decreased rainfall. Most lower central, upper southern Peninsular pastures good to excellent, but some areas lower south have excessive water. Cattle good condition except drier Panhandle areas and excessively wet sections in south where condition only fair. Citrus grove condition very good to excellent. Spotty irrigation, most areas adequate moisture. New crop progressing well. Fresh fruit packing increasing. Cloudy to partly cloudy skies with scattered afternoon showers prevailed in vegetable areas. Rainfall mostly light to moderate but very heavy rains late week in Dade County caused undetermined damage to newly planted fields. Land preparation, seeding, transplanting fall vegetable crops continues active. Plantings getting back on schedule most areas. Light harvest has started early fields pole beans, sweet corn, eggplant, squash.

**GEORGIA:** Scattered light rainfall, less than 0.10 in. extreme southeast. Otherwise dry with cool

nights and mild days. Average temperatures 8 to 10° below normal despite slow warming trend. Dry 26th and 27th with continued slow warming. Average temperatures just slightly below normal.

Soil moisture short to very short. Six days suitable for fieldwork. Harvest and insect controls had priority. Corn poor to fair, 89% harvested, last year 87%, average 75%. Soybeans declined but still fair to good, need rain, 24% dropping leaves, last year 29%, 1% combined, equal last year and average. Peanuts fair to good, drought slowing maturity, 52% dug, 38% threshed, last year 56% and 41%, average 57% and 44%. Cotton poor to fair, 77% open, last year 92%, 24% harvested, last year 42%, average 15%. Tobacco marketing continues active, harvest complete. Wheat 7% planted, last year 4%, average 6%. Rye 8% planted, same as last year and average. Apples fair to good, 88% picked, last year 89%, supply exceeds demand. Pecans fair to good, harvest began. Hay crops and pastures declining but still fair to good. Cattle weaker, fair to good. Hogs fair to mostly good.

HAWAII: Weather favorable. Rains light in some areas. No appreciable rains in the former drought area, Waimea District, Island of Hawaii. Voluntary water conservation continues as water level decreasing in reservoirs. Insects affected yields of some leafy crops Island of Maui. Generally crop progress was fair to good State level. Vegetables: Supplies increasing for cucumbers. Chinese cabbage production due to increase in about two weeks. Bananas: Moderate to heavy supplies indicated for all varieties. Papayas: Seasonal flush will keep production up. Rains beneficial. Pineapples: Plantings increasing as peak harvest over. Sugar: Steady harvest. Pastures: Some leeward areas dry. More rains would be welcome.

IDAHO: Most temperatures averaged 1 to 9° below normal. High of 94° at Coeur D'Alene, low of 16° at Stanley. Measureable precipitation reported in all localities except the extreme southeast. Amounts ranged from 0.02 in. at Mountain Home and Blackfoot to 0.64 in. at Sandpoint.

Scattered rains helped moisten and break up hard soils so fall fieldwork and plantings can now move ahead in those areas. Winter wheat planted: 36%, 29% in 1980, 38% average. Winter wheat emerged: 12%, 18%, 16%, continued excellent weather allowed harvest to advance rapidly. State averaged over 6 days suitable for fieldwork. Dry beans combined: 82%, 38%, 45%. Onion harvest: 70%, 51%, 75%. Corn silage: 59%, 34%, 50%. Potatoes: 18%, 17%, 14%. Red clover and alfalfa seed combining well underway as well. Apples 30% picked.

ILLINOIS: Temperatures 1 to 3° below normal in north, normal remainder of State. Precipitation 1.00 to 4.00 in. in north and west, 0.30 to 0.80 in. central and south.

Corn 85% mature, 100% 1980 and 95% average; 9% harvested, 18% 1980, 10% average. Soybeans 88% turning yellow, 95% 1980, 95% average; 65% shedding leaves, 88% 1980, 86% average; 11% combined, 25% 1980, 25% average. Winter wheat 8% seeded, 10% 1980, and 9% average. Pastures 22% excellent, 60% good, 18% fair. Soil moisture 6% short, 88% adequate, 6% surplus. Fieldwork: 6.5 days suitable.

INDIANA: Near normal temperatures, from 34 to 88°. Only scattered light frost in low areas of north. Heavy showers extreme northwest (1.50 to 3.00 in.) but only 0.50 in. central to none in southeast. Sunshine 75% of possible and low humidities.

Fieldwork averaged 6 days. Topsoil and subsoil moisture adequate. Pastures fair to good. Corn 95% dented, 1980 99%, average 99%. Corn

45% mature, 1980 90%, average 75%. Corn 3% harvested, 1980 10%, average 5%. Corn moisture 30%, 1980 26%. Soybeans 40% dropping leaves, 1980 80%, average 80%. Soybeans 15% mature, 1980 55%, average 45%. Soybeans 3% harvested, 1980 10%, average 10%. Wheat land 55% plowed, 1980 55%, average 60%. Wheat 7% seeded, 1980 15%, average 12%. Tobacco 80% harvested, 1980 85%, average 60%. Silos 40% filled, 1980 75%, average 70%.

IOWA: The State experienced the first significant widespread rainfall in nearly a month. Temperatures averaged from 4° above normal in the southwest to 1° below normal in the northeast.

Topsoil moisture: 24% short, 70% adequate, 6% surplus. Subsoil moisture: 25% short, 70% adequate, 5% surplus. Corn acreage mature: 92%, 1980 92%, normal 91%. Corn acreage harvested: 11%, 1980 11%, normal 9%. Soybeans with leaves turning: 98%, 1980 100%, normal 99%. Soybeans with leaves shedding: 85%, 1980 92%, normal 87%. Soybean acreage mature: 74%, 1980 71%, normal 78%. Soybean acreage harvested: 23%, 1980 13%, normal 19%. Fieldwork: 5.7 days suitable. Crop conditions: Soybeans, corn, pasture mostly good to excellent. Livestock reported to be in mostly good condition.

KANSAS: Precipitation averaged only a few hundredths northwest to less than 0.25 in. southeast, 0.25 to 0.50 in. southwest through north central, near 1.00 in. elsewhere. More than half stations west one-third reported only traces to none. Average temperatures ranged 68° northwest to 74° southeast, 4 to 7° above normal.

Wheat seeding good progress, some fields emerging. Seeding 50%, 50% last year, average 40%. Corn dent stage: 95%, last year 97%, average 95%. Corn mature: 70%, last year 80%, average 75%. Corn harvested: 15%, last year 35%, average 20%. Soybeans shedding leaves: 55%, last year 55%. Soybeans harvested: 3%, last year 10%, average 3%. Sorghum mature: 30%, last year 40%, average 50%. Sorghum harvested: 4%, last year 15%, average 15%.

KENTUCKY: Cool, dry weather continued with temperatures averaging 1 to 3° below seasonal normal. The only rainfall for the week was 0.33 in. or less from scattered showers 26th and 27th. Soil moisture 25% short, 74% adequate, 1% surplus. Ten percent of burley tobacco still in field. Houseburn generally light. Stripping started on some early tobacco. Corn 26% harvested. Corn 80% mature, last year 95%, average 80%. Only 1% of soybeans harvested, last year 26%, average 22%. Soybeans 28% dropping leaves, year ago 47%, average 38%. Wheat seeding 7% complete, mostly cover crop. Pastures remain in good to excellent condition.

LOUISIANA: No rainfall reported. Temperatures 2° above normal. Soil moisture short. Days suitable: 6.2. Corn harvested 95%, 93% 1980, 87% average; condition good. Rice harvested 95%, 90% 1980, 91% average; condition good. Cotton open bolls 95%, 81% 1980, 64% average; harvested 23%, 20% 1980, 11% average; condition fair. Soybeans leaves turning 67%, 66% 1980, 61% average; leaves shedding 39% and average, 38% 1980; harvested 7%, 8% 1980, 10% average; condition fair. Sorghums ripe 96%, 83% 1980, 88% average; harvested 82%, 72% 1980, 67% average; condition fair to good. Sugarcane planted 73%, 40% 1980, 48% average; condition good. Sweetpotatoes harvested 70%, 60% 1980, 57% average; condition fair to good. Vegetables rated fair. Pecans rated good. Pastures and livestock fair to good.

MARYLAND AND DELAWARE: Maryland: Corn 100% dent; 70% mature, last year 85% mature; harvest for grain 20%, 40% last year; corn silage 90%, last year slightly over 90%. Tobacco harvest completed,

last year 95%. Soybeans 100% podded, 50% turned and 35% shed leaves; last year, 30% turned and 30% shed leaves. Lima beans 90% harvested, sweet-potatoes 10% harvested. Small grain seedings: Wheat 10%, oats 5%, rye 15% and barley 20%.

Delaware: Corn 70% mature, 85% last year; corn for grain 55%; corn silage 80%. Soybeans 40% turned, 15% shed leaves; last year 65% turned and 20% shed leaves. Lima beans 70% harvested. Barley 20% seeded.

MICHIGAN: It was a cool week with average temperatures 2 to 5° below normal. Moderate precipitation fell everywhere except the Upper Peninsula and northeast portion of the Lower Peninsula.

Heavy rains on night of 26th did major damage to the bean crop in the thumb area of the Lower Peninsula. Rainfall amounts of up to 4.00 in. fell over portions of this area. Crops continued to be plagued by continuing rains. Farmers would welcome several weeks of dry weather to allow fields to dry out. Statewide only 3 days suitable for fieldwork, more in the north but fewer than 2 days southeast Lower Peninsula. Dry beans suffering most damage from continuing rains. Harvested acreage for dry beans increased 10% during the week to 50% complete. Widespread sprouting, molding and overall quality deterioration of unharvested beans. Corn for grain producers begun harvesting, about 3% complete. Corn silage advanced to 35% complete. Soybean harvest started; about 25% mature. Planting winter wheat going slowly due wet fields, only 10% seeded. Potato digging half complete. Harvest moving well northern areas but slow southeast. Sugarbeets need more sunshine. Third cutting hay progressed to 65%, same as last year, but below normal. Jonathan and McIntosh apples advanced 20 and 60% picked. Vegetable harvest starting to slow.

MINNESOTA: Temperatures averaged near normal. Extremes: 80° at Pipestone, 25° at Fosston. Precipitation averaged 0.25 to 0.50 in. below normal central, west central and southwest and near normal elsewhere. Precipitation totals less than 0.50 in. central thru west central and southwest and 0.50 to 1.00 in. elsewhere. Heaviest precipitation 2.25 in. International Falls. Frost in many sections northern half of State and patchy frost in southern sections.

Light rainfall slowed harvest only slightly. Dry weather helped push late season crops to maturity. Killing frost would reduce moisture content and kill weeds for harvest. Topsoil moisture rated 7% very short, 27% short, 59% adequate, 7% surplus. Field corn: Denting 99%, 1980 99%, normal 98%; mature 60%, 1980 86%, normal 79%. Soybeans: Shedding leaves 96%, 1980 91%, normal 94%; mature 55%, 1980 81%, normal 72%. Harvested: Soybeans 12%, 1980 7%, normal 17%; sunflowers 10%, 1980 12%, normal 21%; flax 74%, 1980 55%, normal 73%; sugarbeets 3%, 1980 3%, normal 5%; potatoes 68%, 1980 47%, normal 52%.

MISSISSIPPI: Dry, cool week. Temperatures below normal. Extremes: 94 and 40°. Only reported rain 0.01 in.

Soil moisture short to adequate. Days suitable for fieldwork: 6.2. Cotton 99% open bolls, 97% last year, 87% average; 20% harvested, 10% last year and average; condition fair to good. Soybeans 68% shedding, 65% last year, 59% average; 24% mature this year and average, 27% last year; 6% harvested, 7% last year and average; condition fair to good. Rice 93% mature, 88% last year, 91% average; 60% harvested, 62% last year, 51% average; good condition. Corn 78% harvested; sorghum 72%, sorghum silage 92%; hay 93%; sweetpotatoes 50%; peanuts 60%. Winter wheat 15% planted. Pasture condition fair. Pecan condition good to fair.

MISSOURI: Temperatures averaged 2° above normal. Precipitation fell towards the end of the week in

the northern half of the State, but most of the southern half remained dry.

Fieldwork: 6.0 days suitable. Corn 71% mature, last year 89%, normal 74%. Corn 22% harvested, last year 44%, normal 26%. Grain sorghum 63% mature, last year 67%, normal 69%. Grain sorghum 22% harvested, last year 34%, normal 25%. Soybeans 63% turning color, last year 78%, normal 66%. Soybeans 23% mature, last year 36%, normal 33%. Soybeans 4% harvested, last year 11%, normal 8%. Winter wheat 10% seeded, last year 19%, normal 13%. Fall plowing 7% completed, last year 6%, normal 6%. Cotton 73% with open bolls, last year 87%, normal 72%. Cotton 3% harvested, last year 38%, normal 10%. Condition of pasture fair to good. Topsoil moisture supply short to adequate.

MONTANA: Moderate amounts of precipitation fell over nearly all the State late in week, ending weeks of very dry warm weather. Some areas received over 1.00 in. of precipitation. With precipitation came falling temperatures also. Over high country of southwest temperatures averaged 6° below normal. Temperatures were 2 to 5° below normal over west, north central, central and south central, and about 1° above normal in northeast and southeast. Highest 82° at Broadus, lowest 9° at Wisdom.

Topsoil and subsoil moisture supplies short. Days suitable for fieldwork: 6. Percent harvested compared with last year and normal: Corn silage 80, 85, 80; dry beans 75, 50, 70; potatoes 25, 15, 25. Winter wheat planted 45, 70, 75. Germination fair. Cattle and sheep moved from summer ranges 30%, condition of both good. Feed supplies for winter short to adequate eastern third of State adequate to surplus elsewhere.

NEBRASKA: Temperatures: 5° above normal Panhandle, 3° above normal remainder State. Precipitation: Panhandle 0.10 in., numerous showers south central and east, 1.50 in. southeast.

Corn mostly good to excellent; denting 95%, 100% last year, 99% normal; mature 45%, 90% last year, 80% normal; harvested 3%, last year 15%, normal 6%. Soybeans mostly good to excellent, leaves turned or turning 95%, last year and normal 97%; shedding leaves 65%, last year and normal 75%; harvested 5%, last year 15% and normal 10%. Sorghum mostly good to excellent; turned or turning color 95%, last year and normal 100%; ripe, 40%, last year 90% and normal 60%; harvested 1%, last year 25% and normal 5%. Wheat: Seeded 85%, last year 90% and normal 75%; emerged 35%, last year 55%. Pasture and range feed supplies mostly adequate. Topsoil and subsoil moisture supplies mostly adequate to short. Days suitable for fieldwork: 5.8.

NEVADA: Warm early, cooling trend end of period. Temperatures averaged 7° below normal northwest, 2 to 4° above northeast and south. Pacific storm end of week lowered temperatures and brought some rain to north. Temperature extremes: 103 and 15°.

Digging potato crop gaining momentum. Alfalfa seed harvest in windup stage. Good progress winter grain seeding. Onion harvest starting. Livestock continue move off high elevations earlier than usual.

NEW ENGLAND: Temperatures: Daytime, subnormal; nighttime, well above freezing. Precipitation: Many areas received heavy amounts of precipitation. Up to 5.00 in. of rain fell on some parts of Maine during midweek and 2.00 to 4.00 in. were reported over much of the remainder of New England.

Fieldwork: 3.8 days favorable. Soil moisture: North, mostly surplus; south, adequate. Hay harvested: Second crop 90%; third crop: 60%. Maine potatoes: 40% harvested, slowed by rains, good quality, variable yields. Apples: Rain delayed harvest, additional drop. Vegetables: Harvesting, good quality. Cranberries: About 40% harvested,

excellent quality, fair to good prospects. Sweet corn: Harvest virtually complete. Good conditions: Corn, potatoes, vegetables, cranberries. Grazing: Continued adequate.

**NEW JERSEY:** Temperatures averaged 1 to 3° below normal. Extremes: 38° at Newton on 21st, 84° at Freehold on 27th. Rainfall averaged 0.20 in. north, 0.04 in. central and 0.06 in. south. Estimated soil moisture, in percent of field capacity, averaged: 74 north, 76 central and 70 south. Four inch soil temperature averaged: 64 north, 67 central and 67 south.

Fieldwork: 5.7 days suitable. Topsoil moisture adequate. Fall vegetable harvest increasing. Irish potato harvest over 90% complete. Sweet-potato harvest increasing. Apple harvest active. Peach harvest complete, supply continue to move from storage. Cranberry harvest general. Field corn harvest for grain increasing. Harvest of corn for silage well advanced. Soybean combining begun. Pasture growth improved. Grain and cover crop seeding continues.

**NEW MEXICO:** Rainfall continued in most areas and temperatures averaged slightly above normal.

Soil moisture continues in an adequate supply. Rainfall continues to limit outdoor activity. Crops and ranges in good condition. Major farm activities included fall grain seeding and harvest of alfalfa hay, apples, chile, and corn silage. Cotton in good condition, however, wilt and rust in cotton continue to be a problem. Some hand picking occurring, but still very limited. Alfalfa hay harvest continues to be limited due to rainfall and heavy morning dews. Winter wheat seeding winding down on the eastside. Corn ensilage harvest continuing with grain harvest just getting underway. Grain sorghum in good condition with some limited harvest to begin in the next week. Green chile harvest continuing with red chile harvest expected to begin next week. Ranges in good condition but weeds causing some problems. Cattle and sheep in good condition.

**NEW YORK:** Temperatures below normal, rainfall mostly well above normal.

Fieldwork slowed considerably. No frost so far. Corn maturing slowly. Corn silage 18% harvested, 37% 1980, 40% average. Third cutting alfalfa 62% done, 74% 1980, 67% average. Long Island potato harvest slowed by rain, cauliflower harvest underway. Most central New York vegetable harvests winding down. Western sweet corn 85% harvested. Apple harvesting in high gear in all areas. Lake Ontario McIntosh harvest 50% complete. Finger Lakes and western area grape harvest in full swing.

**NORTH CAROLINA:** Temperatures: A few degrees lower on the average; a low of 27° at Laurel Springs on 24th. Precipitation: None across the entire State.

Fieldwork: 6.4 days suitable. Soil moisture: 10% very short, 52% short, 38% adequate. Conditions: Pasture fair to mostly good; cotton, peanuts, soybeans, apples and sorghum mostly good; sweetpotatoes fair to mostly good. Harvest: Cotton 17%, 1980 22%, 7% average; sweetpotatoes 32%, 1980 26%, 29% average; sorghum 37%; burley tobacco 91%, 1980 90%, 84% average; corn for grain 67%, 1980 73%, 63% average; corn for silage 92%, 1980 90%; peanuts dug 10%, 1980 16%, 14% average; peanuts threshed 6%, 1980 7%, 9% average; apples 59%, 1980 59%, 54% average. Phenological stages: Cotton open bolls 93%, 1980 92%; corn matured 99%, 1980 96%; soybeans setting pods 98%, 1980 94%; soybeans dropping leaves 8%, 1980 13%. Major farm activities: Combining corn for grain, harvesting sweetpotatoes, and preparing land for fall seeding.

**NORTH DAKOTA:** Temperatures were near normal with precipitation in the northern half of the State

above normal and near normal moisture in the remainder of the State. Four reporting stations reported more than 1.00 in. of rain with the greatest amount falling at Grand Forks (northeast portion) 1.33 in. followed by Bottineau which received 1.30 in. (north central portion). Temperatures were within 2° of normal. Extremes: High 78°, low 27°.

The State came thru almost the entire month of September free of a hard frost. Sunflower harvest off to a slow start and in need of a killing frost to help the crop dry down. Topsoil moisture moderately improved. On September 27, 12% of the State was very short and 30% short of topsoil moisture. Last week 10% was very short and 39% short. Subsoil moisture: 54% short or very short. Rain slowed down row crop and flax harvest operations with most ahead of last year and normal but sunflowers were slightly behind. Six percent of the sunflower was combined and 62% had bracts turned brown, 29% had bracts yellow and 3% had ray flowers dropped or earlier. Other harvest percents complete: Dry beans 80, soybeans 26, potatoes 69, flax 75, corn 13, corn silage 64, and sugarbeets 4.

**OHIO:** Average highs in the upper 60's to mid 70's. Nighttime had low readings averaging in mid 40's to low 50's. Departures were from near normal south to 1 to 4° subnormal elsewhere. Readings slipped to low and mid-30's in north central and northeast. Scattered light frost in low terrain in these areas. Precipitation was less than 0.25 in. except in northwest where totals were 0.50 to 0.75 in. There were some days with good drying. Humidities averaged in 40's to low 50's for afternoons and evaporation totals were between 1.00 and 1.25 in. Growing degree days were generally less than normal by around 4 to 25. Totals were between 60 and 109.

About 90% of corn acreage has reached dented stage versus 100% in 1980 and 100% average. Moisture content of corn harvested so far has been very high. Soybean harvesting progress at 5% of completion. This compares with 15% last year and a 10% average. In many localities fields being combined while nearby fields are not yet turning. Corn mature 45%, 90% 1980, 80% average. Corn harvested 4%, 10% 1980, 16% average. Soybeans shedding 50%, 90% 1980, 80% average. Soybeans mature 20%, 65% 1980, 55% average. Corn silage harvested 35%, 75% 1980, 65% average. Tobacco harvested 85%, 99% 1980, 98% average. Wheat planted 15%, 15% 1980, 20% average. Days favorable: 6.0. Pasture condition fair to good. Soil moisture 8% short, 85% adequate, 7% surplus.

**OKLAHOMA:** Rainfall amounts ranged from around 0.10 in. in the northwest and west to near 0.50 in. in the east and south central division. Temperatures were 5 to 8° above normal.

Open dry weather across State. Wheat seeding active. Stands of early seeded wheat good and uniform. Some damage from cutworms, wire worms, false wire worms and aphids. Wheat planted: 40%, 25% 1980, 30% average. Wheat up to stand: 15%, 10% 1980, 10% average. Sorghum milk to dough: 100%, 95% 1980, 100% average. Sorghum mature: 70%, 65% 1980, 65% average. Sorghum harvested: 20%, 25% 1980, 15% average. Cotton open bolls: 40%, 65% 1980, 35% average. Cotton harvested: 5%, 5% 1980, 5% average.

**OREGON:** Cooler than normal temperatures. Rainfall through 25th along coast and Willamette Valley 1.00 in., 0.10 to 0.30 in. east of mountains; 1.60 in. northern Cascades. Additional rainfall occurred throughout the State into the weekend.

Soil moisture supplies mostly short to adequate; rains very helpful. Winter wheat 20% seeded; 35% last year. Most growers waiting for more moisture. Red clover seed harvest winding

down. Seeding of seed crops underway. Dry pea and bean harvest finishing up. Some haying. Pear and apple harvest continues. Prunes being picked as weather permits. Cranberries sizing good; harvest two weeks away. Filberts dropping. Potato and onion harvest continues; defoliation in higher elevations underway. Sweet corn harvest well along. Livestock good. Range and pastures dry; rain has helped.

**PENNSYLVANIA:** A cool and mostly dry week. Temperatures near to 6° below normal for the coolest since mid-May. Gradual warming last half. Extremes: 30 and 82°. Light rain mid-period and showers and thunderstorms on 27th produced rainfall amounts totaling 0.50 to 1.00 in. north, around 2.50 in. central and practically none extreme south.

Five days suitable. Soil moisture mostly adequate. Activities: Plowing; planting wheat and barley; spreading lime and manure; and harvesting potatoes, cabbage, ensilage corn, tobacco, tomatoes, apples, hay crops and corn for grain. Tobacco harvest virtually complete, same as last year. Potato harvest 60% complete, last year 73%. Ensilage corn 52% harvested, last year 59%. Corn 93% in dent or past, 44% mature, and less than 5% harvested; last year 91% in dent or past, 45% mature, and 7% harvested; average 86% in dent or past, 32% mature, and less than 5% harvested. Fall plowing 71% complete, last year 69%. Wheat planting 41% complete, last year 54%. Barley planting 56% complete, last year 53%. Third cutting alfalfa 84% complete, last year 87%. Fourth cutting alfalfa 32% complete, last year 44%. Second cutting Clo-Tim virtually complete, about two weeks later than last year. Hay quality mostly fair. Feed from pasture average to below average.

**PUERTO RICO:** Island average rainfall 1.08 in. or 0.75 in. below normal. Temperatures averaged about 83 to 81° on Coast and 78° Interior Divisions. Extremes: 95 and 57°.

**SOUTH CAROLINA:** Weather was drier and cooler than usual. North central areas reported morning temperatures in the 30's along with some scattered frost. The week was rainless.

Soil moisture short. Fieldwork: 6 days suitable. Corn 88% harvested, 88 last year, 82 average. Cotton condition good, 80% open bolls, phase was complete this time last year, 84% average. Harvesting underway. Soybean condition fair to good, need rainfall, 29% turning leaves, 44 a year ago, 34 average; 10% shedding leaves, 24 a year ago, 16 average; 8% maturing, 3 last year, 4 average. Apples 83% harvested, 73 last year, 80 average, smaller apples this year. Fall snap beans 12% harvested, 16 last year. Fall cucumbers 22% harvested, 9 a year ago. Winter grazing 29% planted, 27 last year, 33 average; 12% emerged year ago.

**SOUTH DAKOTA:** Precipitation light over most of State for third straight week. Most amounts under 0.50 in. Temperature average 2° above normal.

Topsoil moisture adequate northwest along border. Critically short parts of west central, southwest, central, north central, east central, and northeast. Short elsewhere. Subsoil moisture adequate parts of north central and northwest along border. Critically short in a band from northwest to southwest and major portions of central, north central and northeast. Short elsewhere. Six days suitable. Soybean and sorghum harvest underway. Corn harvest just getting started. Corn silage 73% cut. Range and pasture condition 70%. Soybeans shedding leaves 87%, 1980 90%, average 89%. Soybeans harvested 19%, 1980 17%, average 11%. Corn dent 91%, 1980 100%, average 100%. Corn mature

66%, 1980 83%, average 94%. Sorghum mature 60%, 1980 63%, average 63%. Sorghum harvested 10%, 1980 8%, average 8%. Sunflowers mature 78%, 1980 72%, average 72%.

**TENNESSEE:** Mostly fair and dry conditions prevailed. A cold front moved across on 27th bringing showers to the western and middle section. Temperatures averaged 3° below normal.

Fieldwork: 5.7 days suitable. Soil moisture adequate to short. Corn 88% mature, 1980 89%, average 77%. Corn harvested 30%, 1980 40%, average 18%. Cotton open bolls 54%, 1980 91%, average 44%. Cotton picked 4%, 1980 35%, average 12%. Soybeans mature 7%, 1980 11%, average 7%. Soybeans harvested 0, 1980 and average 2%. Burley tobacco harvested 94%, 1980 89%, average 91%. Dark-fired tobacco 97% harvested, 1980 89%, average 86%. Air-cured tobacco 97% harvested, 1980 90%, average 87%. Tobacco stripping started in scattered areas. Pastures in fair condition. Livestock in good condition but some supplemental feeding was reported. Lespedeza hay 82% harvested, 1980 89%, average 82%. Wheat 15% seeded, 1980 11%, average 14%. Oats 35% seeded, 1980 41%, average 43%. Barley 36% seeded, 1980 41%, average 42%.

**TEXAS:** Weather: High pressure ridge dominated most week; except widely scattered thunderstorms along lower Gulf Coast, skies mostly fair. Temperatures near normal South Texas, above normal elsewhere. Rainfall 0.25 to 0.50 in. below normal West Texas; 0.50 to 1.00 in. below normal eastern half.

Crops: Cotton harvest gaining momentum Blacklands, Central Texas, although grade, quality lower than expected. Root rot, insect damage reduced yield Blacklands losing valuable maturing time with cool, cloudy weather. Southern High Plains, some fields destroyed by recent hail storms. Statewide reported condition 4% excellent; 72% good; 20% fair; and 4% poor. Sorghum harvest little progress during week. Many instances mild, damp weather keeping grain moisture level too high for harvest. Reported condition across the State 24% excellent; 65% good; 9% fair; and 2% poor. Corn harvest good progress High Plains, yields very good. Scattered fields remain southern half of State. Reported Statewide condition 31% excellent; 52% good; 15% fair; and 2% poor. Small grain planting active around State; some wheat fields dusted in across Plains. Oat seeding rapid progress during week; some early fields up good stand. Early peanuts harvested Cross-Timbers, yields, grades good. Edwards Plateau some fields showing damage excessive moisture. Soybean harvest underway High Plains. Some fields Blacklands being stressed lack of moisture; along Coast stands late pod-fill stage. Haying operations continue across State; many areas producers making final cutting. Hay supplies plentiful. Cotton open bolls 47%, 54% 1980. Cotton harvested 13%, 23% 1980, 17% average. Sorghum turning color 93%, 91% 1980. Sorghum mature 77%, 82% 1980. Sorghum harvested for grain 73%, 75% 1980, 70% average. Wheat planted for all purposes 38%, 37% 1980, 40% average. Wheat emerged 6%, 13% 1980. Corn for grain harvested 62%, 63% 1980, 38% average. Peanuts harvested 15%, 21% 1980, 28% average. Soybeans harvested 5%, 7% 1980, 3% average. Sunflowers harvested 34%, 16% 1980, 20% average. Oats planted 25%, 27% 1980, 32% average.

Commercial vegetables: Lower Rio Grande Valley, fall tomatoes, bell peppers, broccoli, cauliflower making excellent progress. Few early onions being planted. Citrus fruits continue to develop. In the San Antonio-Winter Garden area, conditions good, fall vegetables making excellent growth. Cabbage, bell peppers, tomatoes progressing well. East Texas, sweetpotato harvest resumed as fields dried. Quantity, quality have

been affected by excessive early season rains. Harvest of tomatoes, peppers continued. Trans-Pecos region, harvest of chile peppers, tomatoes, squash, beans continued. Bell peppers making excellent growth. High Plains, cool temperatures slowing growth of vegetables. Harvest of carrots, green peppers, cucumbers remained active. Pecans beginning to split shucks. Aphid infestation becoming problem.

**Range and livestock:** Range, pasture conditions remained good, growth of forage Central, South Texas slowed, additional moisture needed. Grazing for livestock adequate, livestock condition good. Most producers have adequate hay for feeding, activity at local markets light.

**UTAH:** A few widely scattered showers and thunderstorms mid-period. Accumulated amounts moisture generally light to moderate. Cooling trend temperatures forepart of period but warming over weekend. Average temperatures ranged from 1 to 9° above normal. Soil moisture deficit continues serious most northern ranges and dryland wheat areas.

Six days suitable for fieldwork. Corn for grain 75% safe from frost with 78% dented or past. Corn for silage fields open, choppers active, nearly 45% already chopped. Third cutting alfalfa 80% harvested. Dry onions and tomatoes 75% picked. Potato harvest beginning. Peach crop virtually picked. Apple harvest well along.

**VIRGINIA:** Dry, little or no rainfall. Highs generally in the 70's and 80's with lows in 50's except highs in the 60's and 70's and lows in the 30's and 40's mid-period. A few readings in the 20's with scattered light frost 24th, 25th.

Farmers who have harvested are hoping for rain, those who have not harvested are hoping it won't rain. Topsoil moisture rated 39% short, 59% adequate, 2% surplus. Days suitable for fieldwork: 6.0. Corn maturity: 98% dent, 94% 1980; 96% mature, 90% 1980; 79% of silage has been cut, 71% 1980; 36% of grain harvested, 41% 1980, 38% average. Soybean harvest beginning, 1% combined, the same as last year and average. Some early peanuts ready, 12% dug, 1% combined, compared with 2% dug 1980, 3% average, and 1% combined in 1980 and average. Harvest expected to be active this week. Flue-cured tobacco 92% harvested, 82% 1980, 85% average. Fire-cured tobacco 98% harvested, 86% 1980, 90% average. Burley harvest 92% complete, 85% 1980, 83% average. Sun-cured tobacco 93% cut, 80% 1980, 83% average. Reports indicate that harvesting of Maryland tobacco being grown in Virginia well past the half-way point. Apple harvest very active with 41% picked, 26% 1980, 37% average. Sweetpotato harvest made good progress and 40% have been dug, 10% 1980, 23% average. More small grains were planted during the week; wheat 8% seeded, 1% 1980, 5% average. Barley plantings 15% complete, 3% 1980, 13% average. Winter oats now 27% seeded, 8% 1980, 15% average. Pastures in good to excellent condition. Livestock producers making final cuttings of hay and sending feeder calves to sales.

**WASHINGTON:** **West:** Temperatures were 2 to 4° below normal. Rainfall amounts were well above normals in the north, near normal in the south. Harvest of various vegetables continued while ripening of warm weather crops delayed. Seed potato digging continued as did planting of seed cabbage. Silage corn harvest to begin in early October. Hay supplies adequate.

**East:** Average temperatures were 4 to 6° below normal. Rainfall was near normal except in the southeast where amounts were 0.20 in. below normals. Golden Delicious, D'Anjou pears and late pears were harvested, Red Delicious harvest about to begin. Other crops harvested include potatoes, dry beans, grapes, hops, sweet corn, lima beans,

and snap beans. Also some 4th cutting of alfalfa. Seeding of 1982 winter wheat crop continued, though some areas have been delayed due to lack of soil moisture. Range and feed supplies remain adequate. Winter wheat 54% planted, 45% 1980, 43% average.

**WEST VIRGINIA:** Temperatures below normal. High 87°, low 29°. Precipitation below normal, range 0 to 0.14 in.

Soil moisture adequate to short. Days suitable for fieldwork: 4.9. Main activities silage and hay harvesting. Corn good to fair, 77% mature, 23% harvested, 81%, 25% in 1980. Wheat planted 55%, 27% in 1980. Barley planted 57%, 31% in 1980. Tobacco 90% harvested, 85% in 1980. Pasture fair to good. Hay fair to good, 3rd hay 72% complete, 64% 1980. Fruit poor to fair. Gardens fair. Some stress due to declining soil moisture. Several areas reported frost on the mornings of 23rd and 24th.

**WISCONSIN:** The week began on a mild note but then turned cool. Temperatures averaged 3° below normal. Highs were in the 60's and 70's and lows were mostly in the 30's. High temperatures of 74° were reported in Madison and Milwaukee on 24th. Lake Thompson was the cool spot, reporting 26° on 23rd. Early on 23rd temperatures fell below the freezing point in scattered points across north. Rainfall was variable with most districts reporting amounts ranging from 0.50 to 1.00 in.

Fieldwork: 6 days suitable. Silo filling was a major fieldwork activity. Silo filling 26% complete, 16% 1980, 41% average. Corn made progress during the week and 92% at dent stage, 100% 1980, 97% average. About 82% of the corn crop dented hard enough to be safe from frost, 100% 1980, 91% average. Isolated fields of corn have reportedly been harvested, but September grain harvesting activity will be minimal. Fall plowing 7% complete, 4% 1980, 8% average. Soybeans maturing and percent of acres with leaves shedding was 50%, 60% 1980, 52% average. Some third and fourth crop hay being made, but activity winding down. Pastures continue to look good, reported at 91% of normal, 99% 1980, 83% average. Tobacco harvest winding down. Apple harvest in full swing in certain areas. Topsoil moisture supplies were rated 11% short, 77% adequate and 12% surplus.

**WYOMING:** Warm, dry week. Temperatures averaged 6° above normal; 95° hottest day, 21° coldest. Not much precipitation and many stations reported none. Wettest 0.28 in.

Topsoil moisture short 90% State. Average 7 days suitable for fieldwork. Winter wheat seeded 85%; year ago 95%. Winter wheat emerged: 70%; year ago 80%; normal 74%. Winter wheat prospects mostly good. Corn silage harvested: 75%; year ago 75%; normal 86%. Potatoes harvested: 30%; year ago 75%; normal 59%. Dry beans windrowed: 90%; year ago 90%. Dry beans combined: 70%; year ago 70%; normal 74%. Corn for grain dented: 50%; year ago 60%; normal 47%. Corn for grain mature: 35%; year ago 30%; normal 50%. Prospects for winter grazing fair to good. Livestock producers expect to winter about same number of livestock as they did in 1980. Calf and lamb weights about the same as last year.

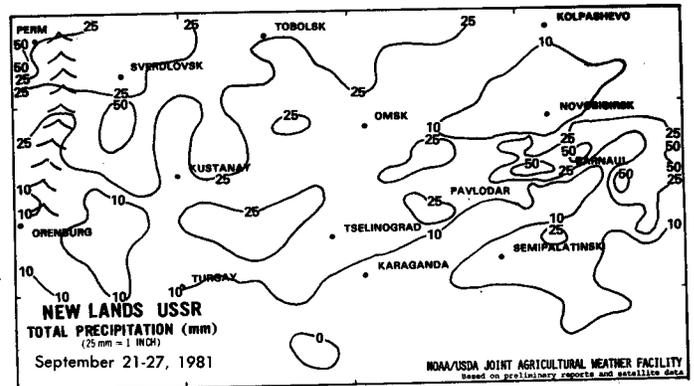
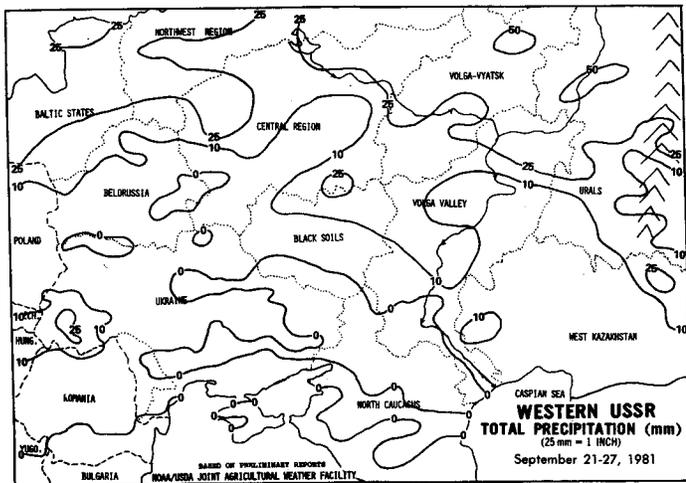
#### National Weather Summary (Continued from page 1.)

**SUNDAY...** Showers and some thunderstorms fell ahead of a cold front extending from the eastern Great Lakes through Arkansas and into Oklahoma. Showers were heaviest in the Northeast and from central Oklahoma to western Kentucky. Temperatures fell to the thirties in the central and northern Rockies and into the northern Plains.

## International Weather and Crop Summary

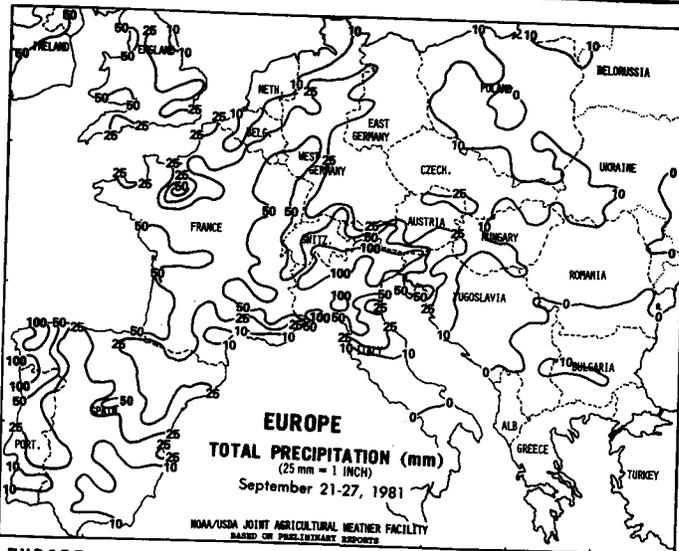
HIGHLIGHTS  
September 21-27, 1981

- USSR: Favorable harvest weather over most of European USSR; too wet in the north and New Lands.
- EUROPE: Wetter in the west--too wet in some places--and drier in the east.
- CANADA: Wet weather over eastern Canadian prairies; scattered showers over other crop areas; harvest nearing completion.
- MEXICO: Tropical storm increased irrigation supplies in the northwest while drought stressed northeastern citrus.
- SOUTH AMERICA: Beneficial rains fell on coffee and wheat areas of Brazil; dry weather continued to stress wheat in Argentina.
- EASTERN ASIA: Typhoon Clara brushed eastern China, South Korea, and Japan.
- AUSTRALIA: Favorable rains over southern grain areas; persistent dry weather continued to stress crops further north.
- SOUTHEAST ASIA: Beneficial rains in west and east-central Thailand; dry weather continued in the northeast.
- SOUTH ASIA: Unfavorably dry along the Himalayas; generous rains across central India.

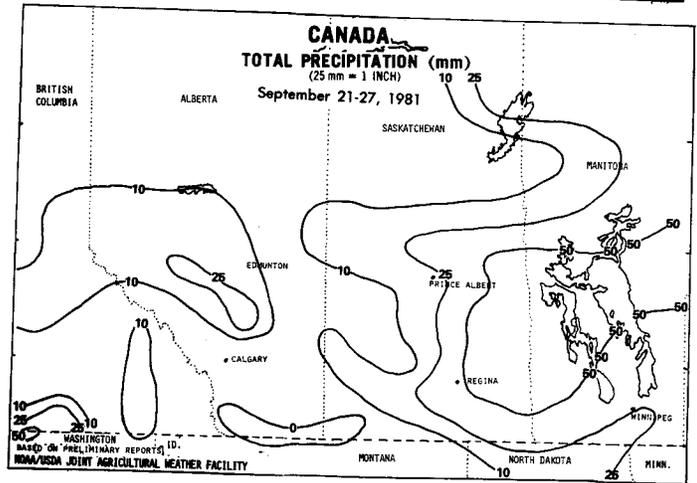


**USSR:** High pressure over Eastern Europe kept major agricultural areas of European USSR relatively dry as storms passed to the north. Temperatures rose substantially above normal in many areas and harvesting should have made rapid progress. Light frost occurred in the southern

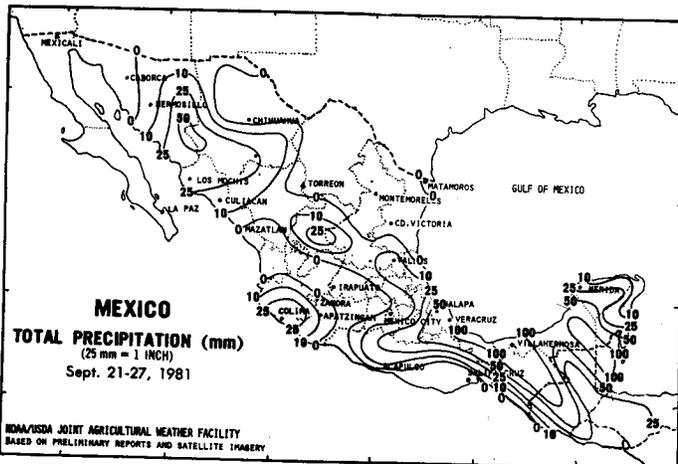
Urals and upper Volga Valley. Continued wet weather in northern grain areas of European USSR further disrupted late harvesting. In the New Lands, above-normal precipitation occurred over most crop areas. The moisture replenished soil moisture somewhat, but hindered late spring grain harvesting in the north, especially northwest of Kustanay where conditions have been the wet for several weeks.



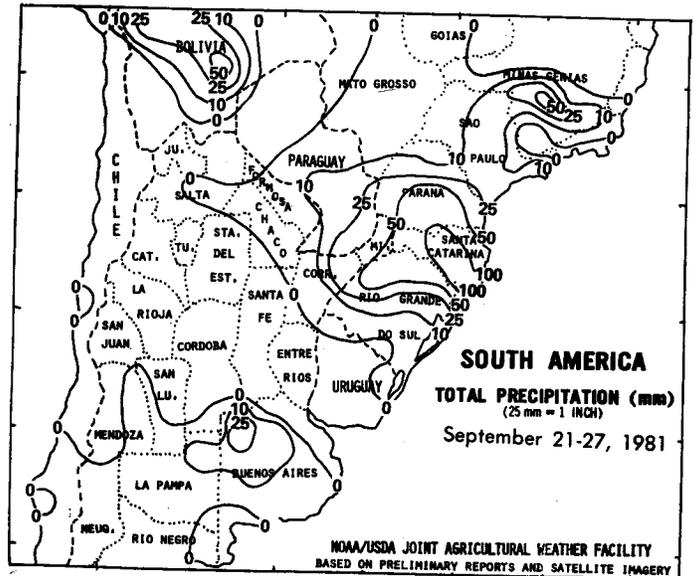
**EUROPE:** The area of above-normal precipitation expanded to cover a large portion of Western Europe. Winter grains probably did not need this much additional moisture, and harvesting of spring-sown crops was disrupted by the wetness. Most of the Iberian Peninsula received amounts which should allow winter grain sowing to begin. Heaviest precipitation fell on the south side of the Alps in northern Italy, and some flooding may have resulted. Drier weather returned to most eastern areas as high pressure kept storms from moving through. Conditions are becoming drier in this part of the region, improving harvest weather for spring crops. Winter grains in these eastern areas should have adequate moisture. Temperatures held near to slightly below normal in the wet areas of the west, but surged above normal in the east.



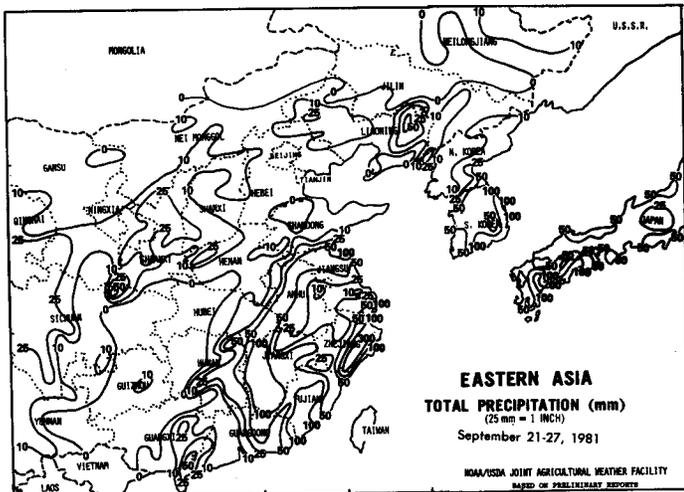
**CANADA:** Wet weather over spring grain areas of western Saskatchewan and Manitoba over the weekend delayed completion of harvest efforts. Scattered showers over the remainder of the Canadian Prairies only briefly interrupted work. Reports indicate that the spring grain harvest was around 95% complete in Alberta, virtually complete in Saskatchewan, and 80-100% complete in Manitoba.



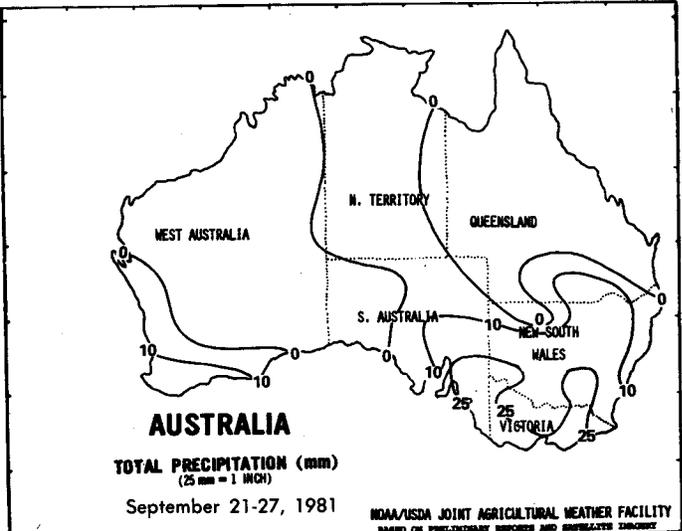
**MEXICO:** A tropical storm moving across the northwest generated moderate to locally heavy rains over some watersheds. This will help ensure irrigation supplies for fall vegetables, winter wheat, and some of next year's summer crops. Prolonged dryness continued over upper portions of the northeastern citrus belt, causing fruit to be small in many unirrigated orchards. Further south, moisture has been adequate for most orchards as well as coffee and sugarcane fields. Harvest weather was generally good for corn over most of the central Plateau and cotton in the north as only a few light showers fell.



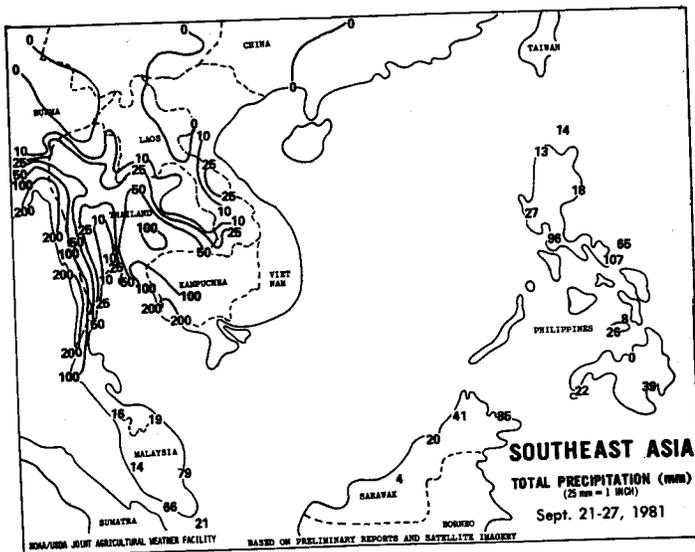
**SOUTH AMERICA:** Welcome rains fell on previously dry areas of Minas Gerais, Sao Paulo, and Parana, benefiting both coffee and wheat. Heavy rains fell over Santa Catarina; local totals were in excess of 100 mm. Favorable rains continued in northern grain areas of Rio Grande Do Sul while dry weather returned further south. Corn planting in Brazil may have been delayed somewhat in areas with heavier rainfall, but soil moisture was raised to a more favorable level for seed germination and early growth. In Argentina, dry weather continued to stress wheat, normally entering the critical heading stage in Santa Fe, and coming out of semi-dormancy in southern Buenos Aires. Wet weather in northwest Buenos Aires improved soil moisture conditions for corn to be planted in October. Temperatures were generally near normal in Argentina and above normal in Brazil.



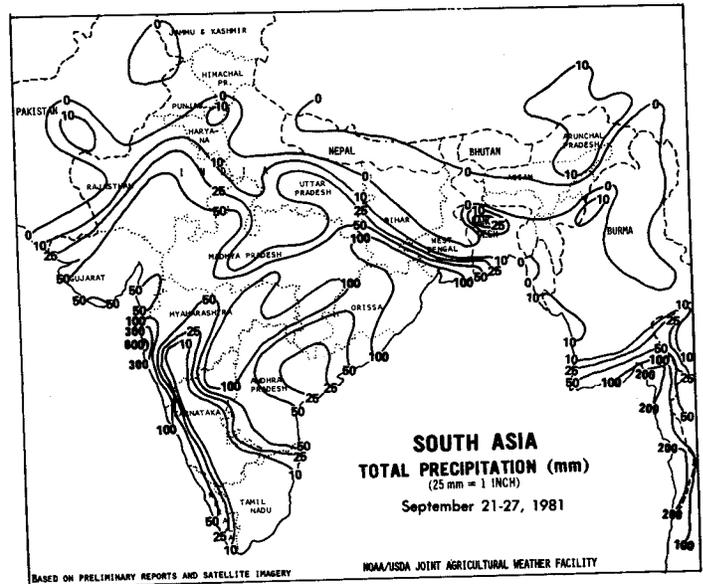
**EASTERN ASIA:** Typhoon Clara hit the southern China coast near the Guandong/Fujian border early in the week, producing heavy rain and causing some damage to sugarcane and late rice in Fujian and possibly in Jiangsi. Remnants of the storm caused abundant rains across parts of Anhui and Jiangsu, improving moisture conditions for sowing winter wheat. Areas just to the west and north received only light rainfall, but a weather system which produced rains in the hills further west was moving into these winter wheat areas at the week's end. Wet weather in parts of the Manchurian Valley maintained unfavorable harvest conditions, with freezing temperatures reported in northern areas. In South Korea, the tail end of Clara dumped above-normal rainfall on most of the country. Winter grains will benefit from the moisture, and the rice crop may not have been hurt if dry weather returns again soon.



**AUSTRALIA:** Beneficial rain fell over southern grain areas, where grain is normally in the vegetative stage of growth. Amounts ranged from 10-25 mm in Victoria with lighter amounts occurring over New South Wales and extreme southern crop areas of West Australia. Further north, in West Australia and southern Queensland, the crop is advancing into the 'critical grain filling stage with diminishing moisture supplies placing continued stress on the crop. Temperatures were below normal over southern grain areas due to increased storminess, while further north, temperatures were above normal.



**SOUTHEAST ASIA:** Beneficial rains for crops and reservoir levels fell over extreme western and east central Thailand during the week. Well below normal rainfall persisted over northeast Thailand, extending northward into Laos and northern Burma. These dry conditions continued to stress the rice crop and limited moisture inputs to reservoirs for later use in irrigation. Below normal precipitation also occurred over Thailand's Central Plains. The increased precipitation was associated with weak tropical systems and not an intensification of the monsoon.



**SOUTH ASIA:** Rainfall remained light northwestern India, and tapered off in Bangladesh and northeastern India. Prospects for sowing winter grains in the northwest are not very good. Abundant rain continued in central portions of India as tropical weather systems moved across the sub-continent. Summer crop prospects in the central highland areas should be substantially better than normal. Furthermore, winter grains are normally planted over a large area of Madhya Pradesh, where soil moisture should be very good. Moderate rains in Gujarat benefited cotton, but peanuts there will need drier weather as harvesting begins in October. Drier weather returned to some interior areas of southern India, but soil moisture should be quite adequate for crop needs.

