

# WEEKLY WEATHER AND CROP BULLETIN

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

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

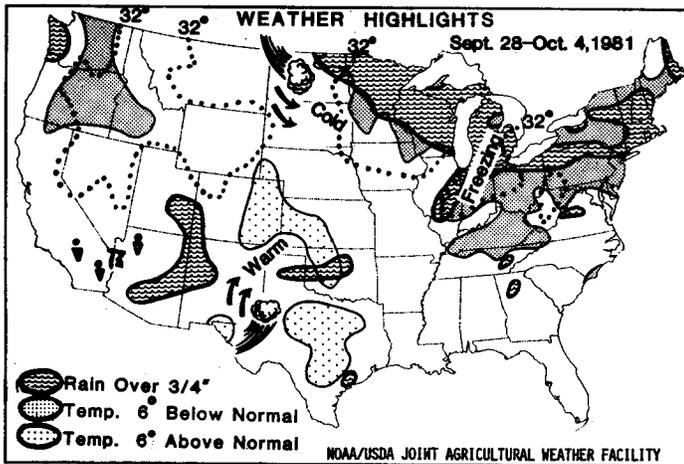
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Oct. 6, 1981

## National Weather Summary

Sept. 27-Oct. 3, 1981



**HIGHLIGHTS:** Freezing temperatures invaded a large portion of the Nation. The cold air pushed into the northern Plains as freezing temperatures moved southeastward to cover the eastern Dakotas, Minnesota, Wisconsin, northern Iowa, Michigan, parts of Illinois, most of Indiana, Ohio, West Virginia, and western Virginia. Average temperature for the week through the Cornbelt was about 55°. Late in the week, warm southerly winds pushed into the southern Plains. Significant showers and thunderstorms covered much of the northeastern quarter of the Nation. Deluges caused local flooding in Michigan. After a long dry period, showers and thunderstorms returned to southern California.

**MONDAY...** Showers reached from the Pacific Northwest to the northern Rockies and from the western Great Lakes through New York and New England. There were some heavy thundershowers in northern Illinois. Early morning temperatures were chilly from the northern Rockies through the Great Lakes and scattered frost in the upper Mississippi Valley reached into northern Iowa.

**TUESDAY...** Light showers spread across Washington State through the northern Rockies and Plains. Showers and thunderstorms were heavier and more frequent from Wisconsin and Michigan south to the Ohio Valley. Some heavy thunderstorms hit the southern tip of Florida. Cool weather continued across the northern tier of States but summer-like temperatures spread across the South and northward through the central Plains. Much of Iowa reported temperatures in the nineties.

**WEDNESDAY...** A low pressure system over Minnesota pushed thunderstorms into the Great Lakes region. Heavy rain drenched Wisconsin and Michigan. Lighter rain extended southwestward to New Mexico and

Arizona. A long dry spell was broken when showers and thundershowers fell over southern California. Cold weather settled over the northeastern corner of the Nation. Freezing temperatures touched much of New York and western New England. Cooler weather moved into the Plains. Western Kansas barely reached 70° while the eastern part of that State was over 90°.

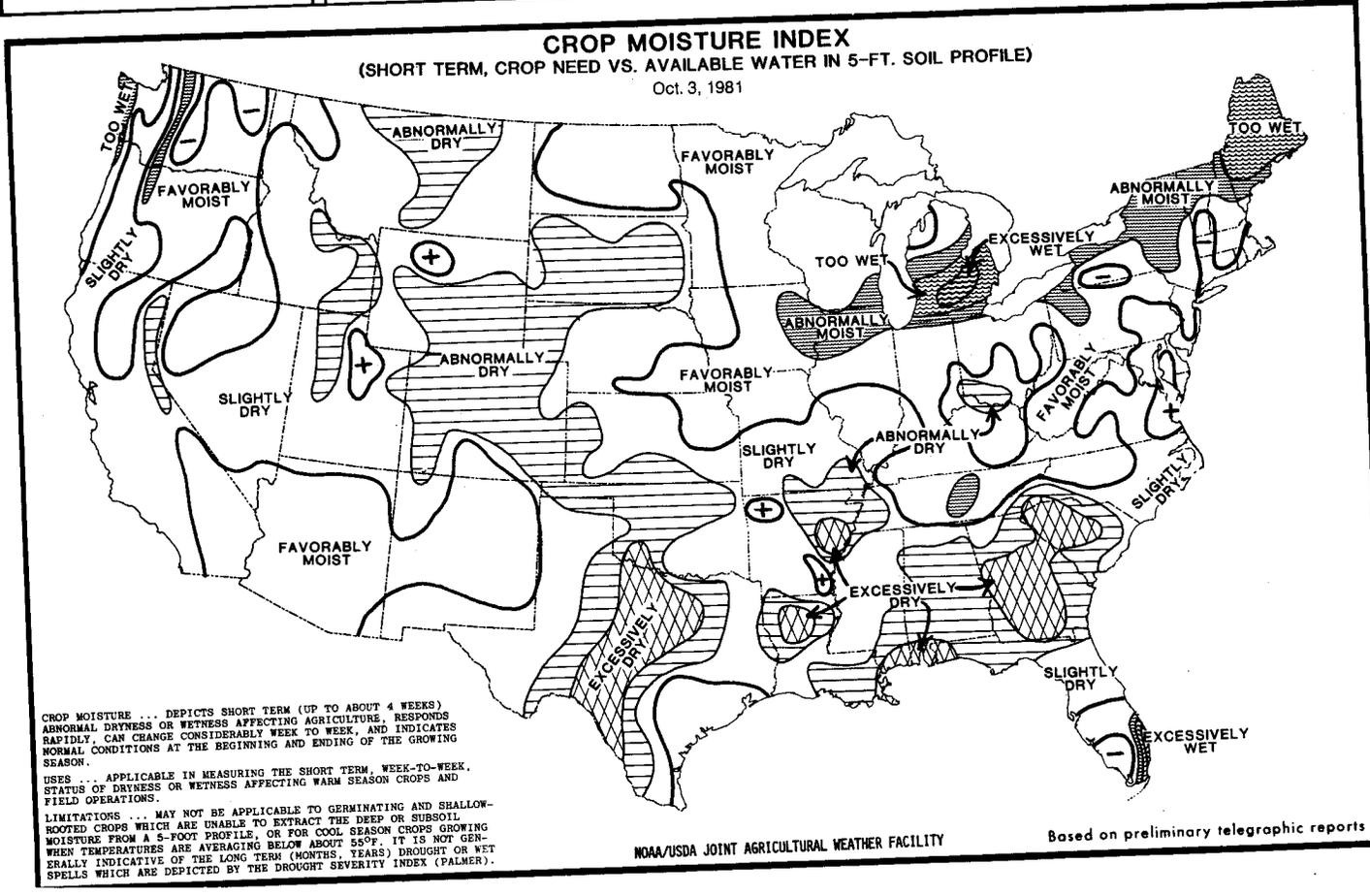
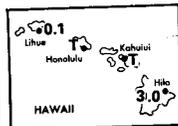
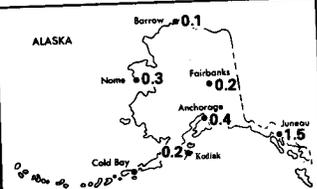
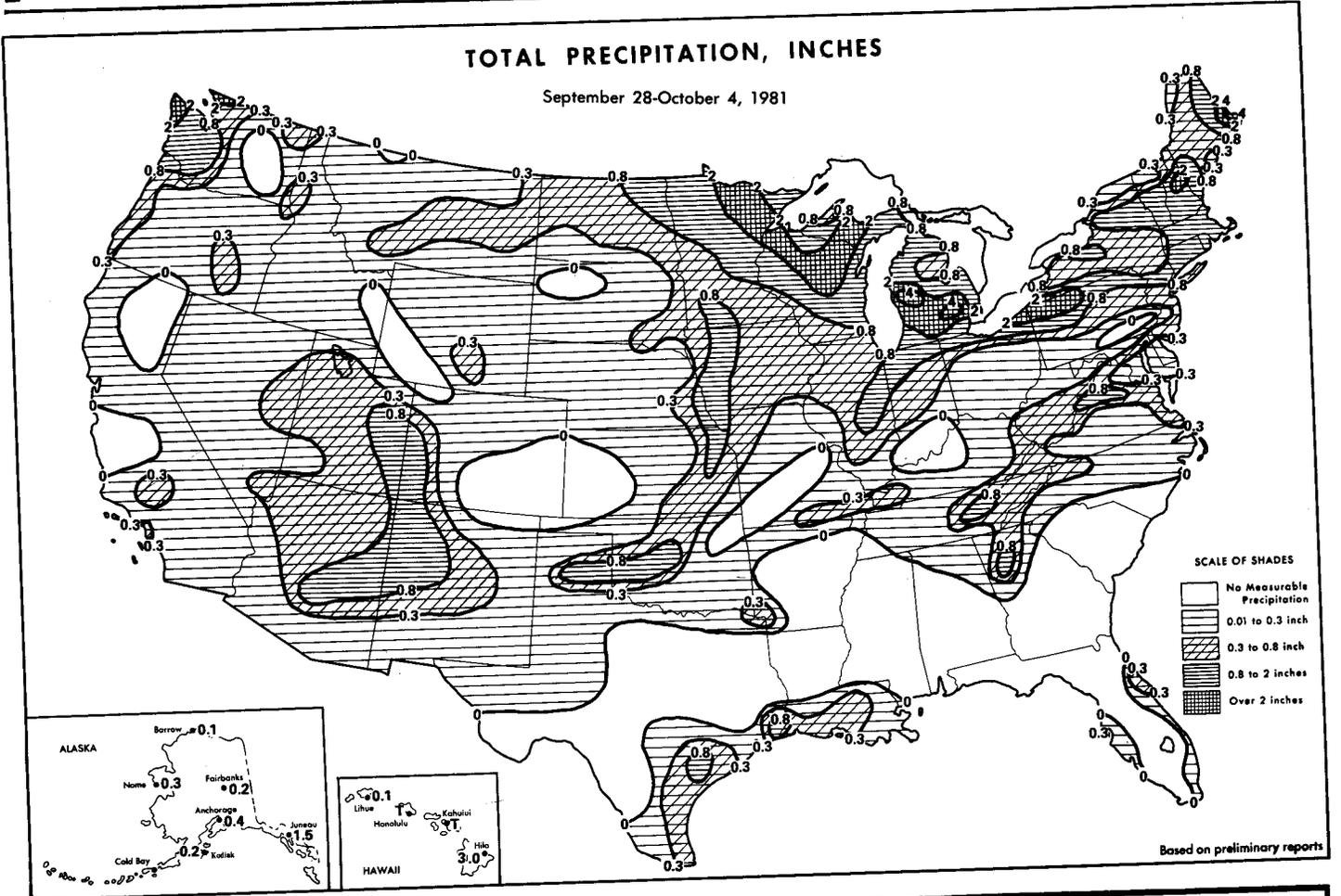
**THURSDAY...** A cold front moved rapidly eastward and spread a band of thunderstorms from New England to Tennessee and eastward to the Atlantic coast and down to Louisiana. Much of the northeastern quarter of the Nation had some rain. Snow covered the ground in northern Minnesota. Showers and thunderstorms continued in the Southwest and along the Northwest coast.

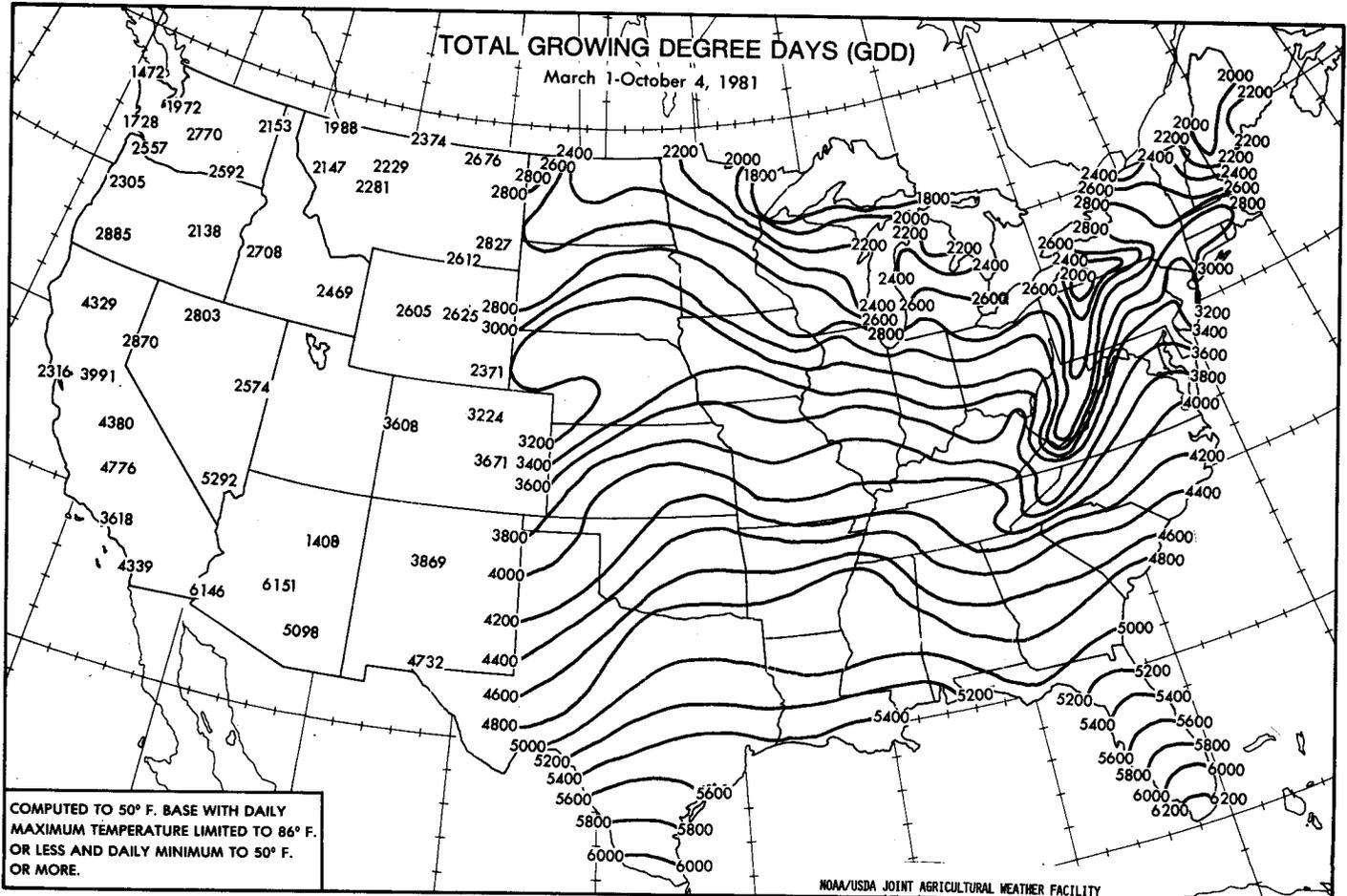
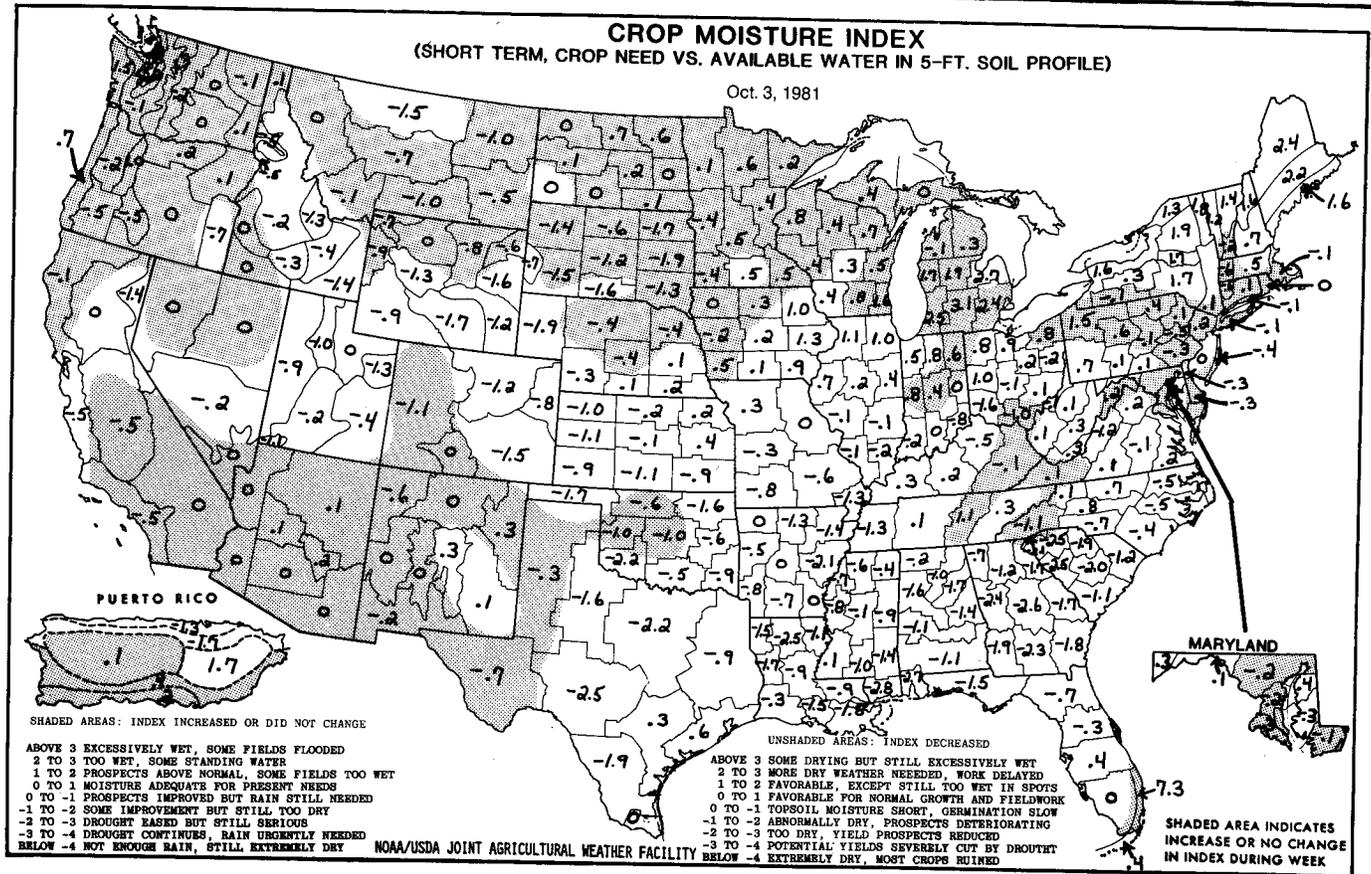
**FRIDAY...** Brisk northerly winds brought very chilly air into the region from the northern and central Plains into the central and northern Appalachians. Below-freezing temperatures covered Minnesota, Wisconsin, and northern Iowa. Showers and a few thunderstorms reached from the eastern Great Lakes to the northern Atlantic States. Thunderstorms reformed in the Southwest and a band of showers stretched from northern California to the northern Rockies.

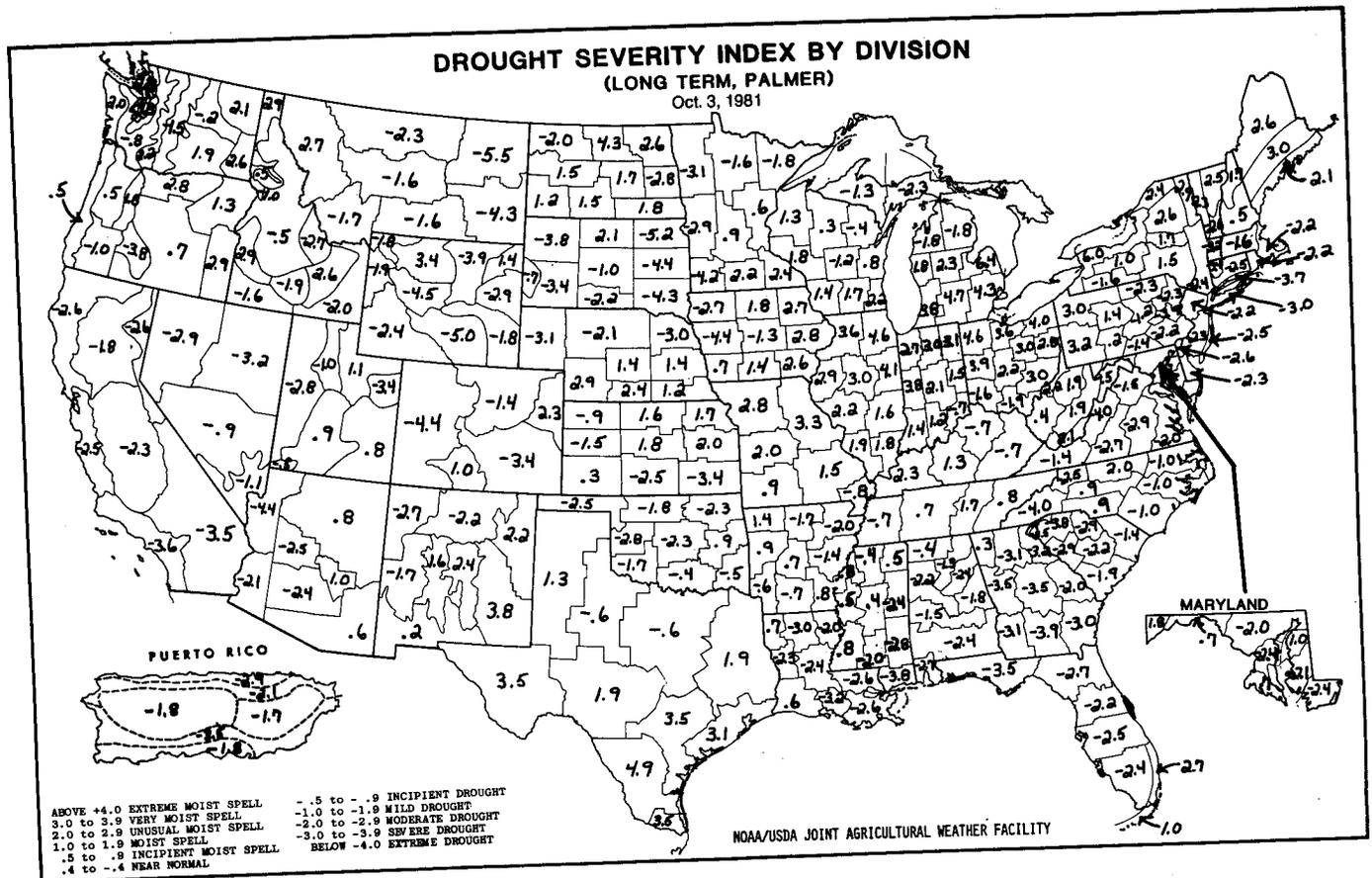
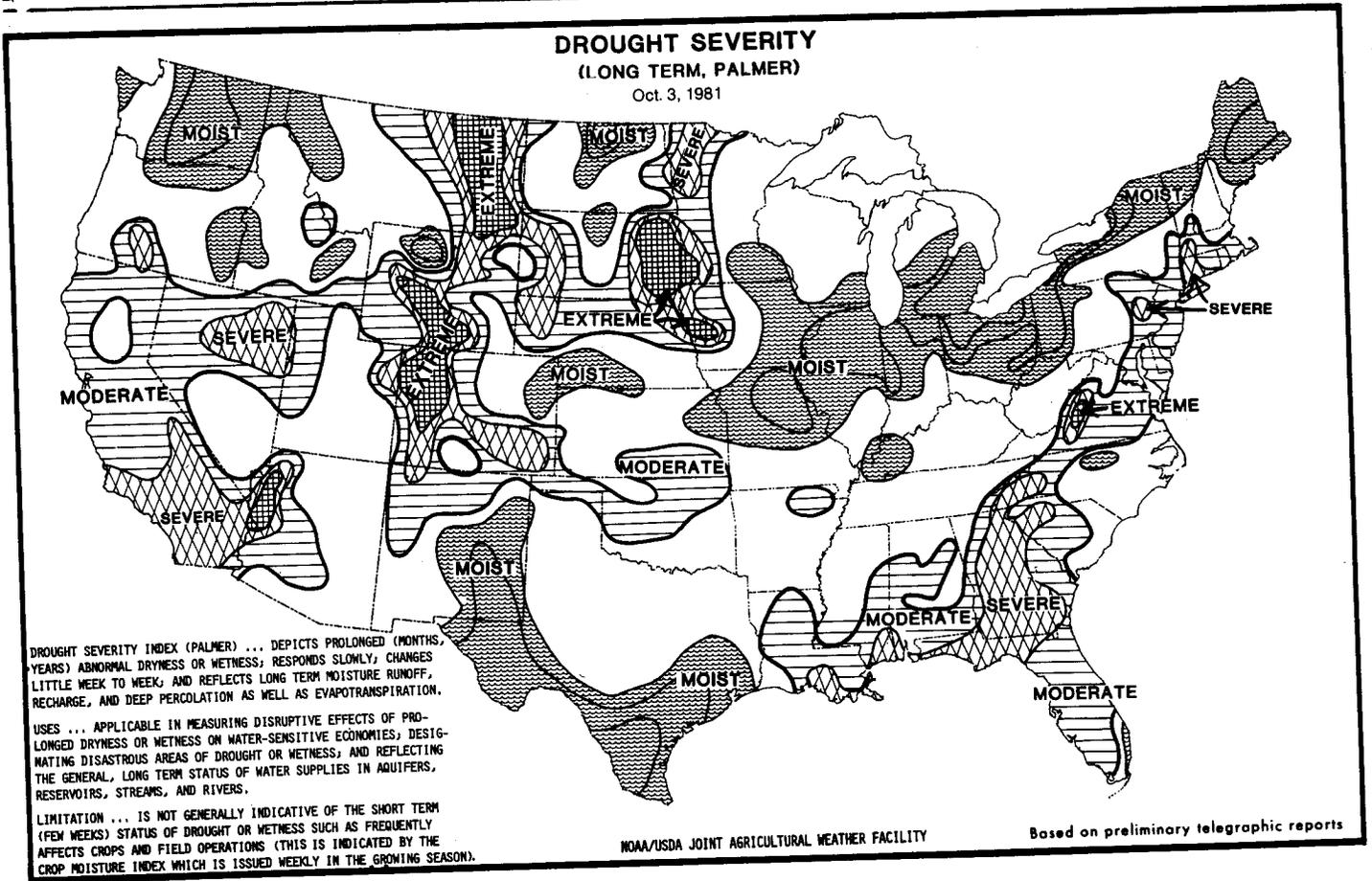
**SATURDAY...** The cold air mass settled over the East, tumbling temperatures into the low forties as far south as northern Florida. Freezing temperatures covered Wisconsin, Michigan, and deep into Indiana and Ohio. Some late-planted soybeans may have been damaged. Another cold front moved through the northern and central Plains and trailed back through the central Rockies. Showers covered the  
(Continued on page 11.)

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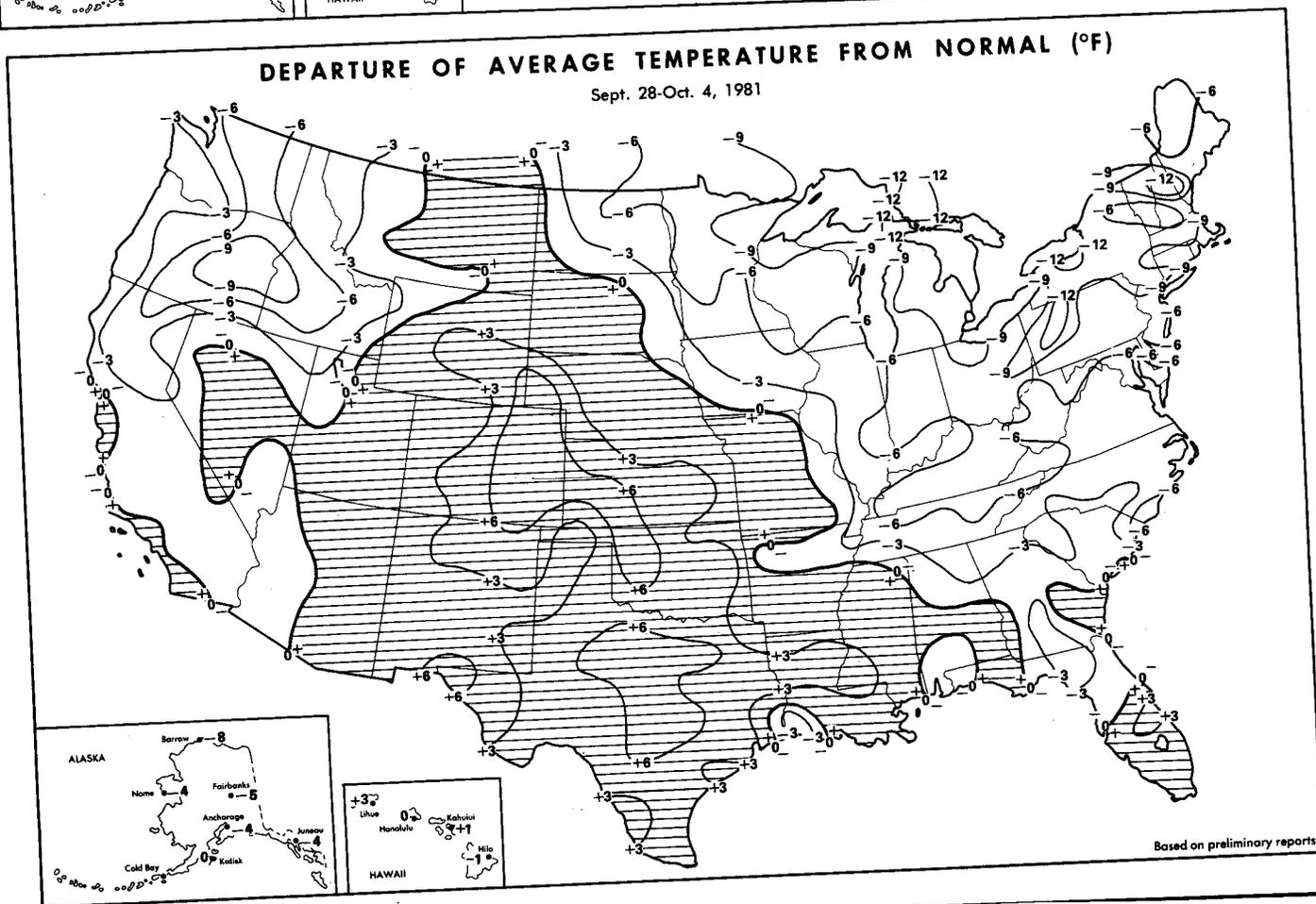
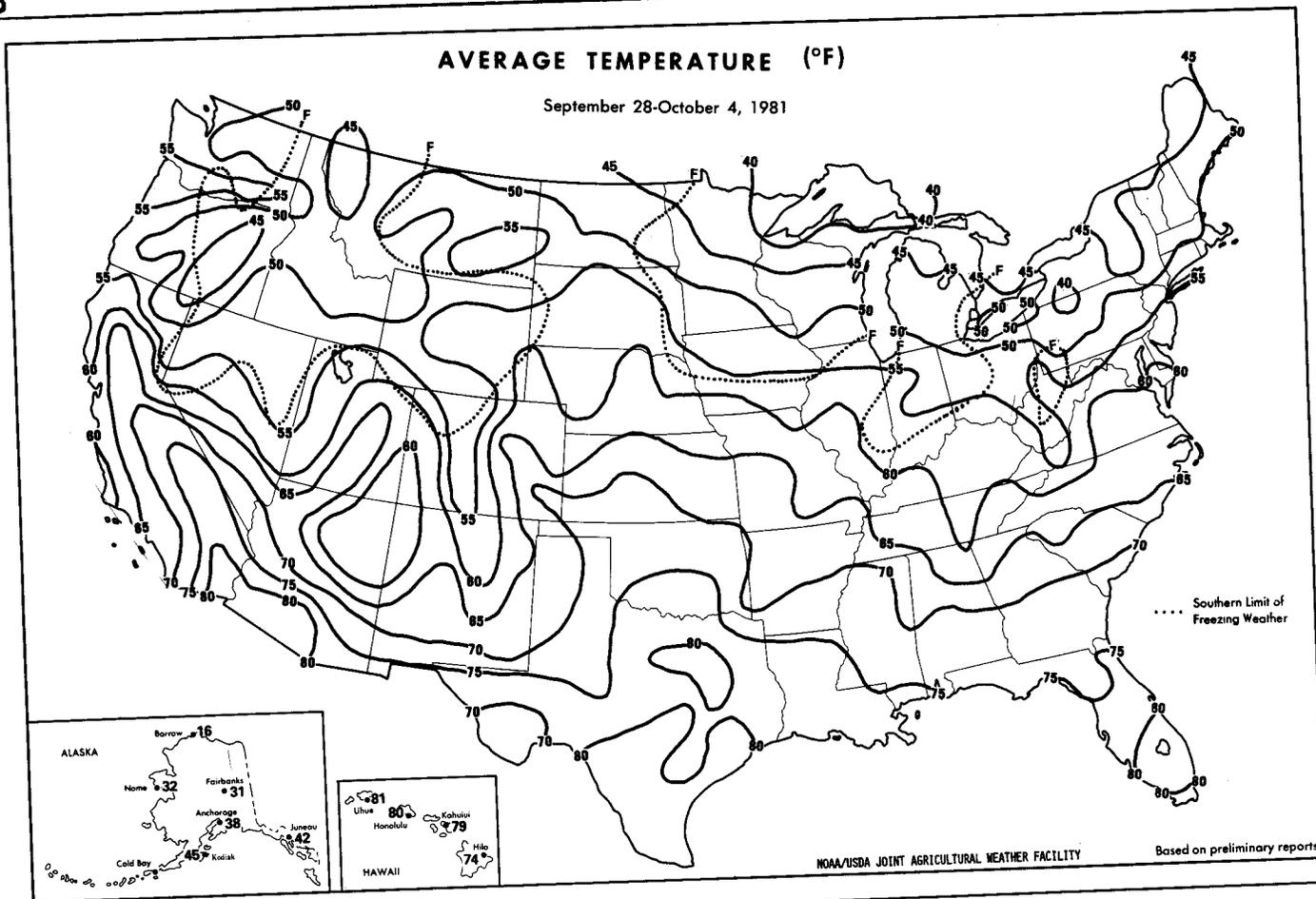
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Weather Data for the Week Ending Oct. 4, 1981

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	TEMPERA- TURE		PRECIPI- TATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	84	49	92	38	67	-2	0	-.7	0	2.5	60	31.1	74	85	26	2	0	0	0
AL MOBILE	87	59	91	48	73	-1	0	-1.1	0	4.1	55	48.6	87	98	38	3	0	0	0
AL MONTGOMERY	87	56	92	48	71	0	0	-.8	0	2.1	42	36.2	91	83	30	4	0	0	0
AK ANCHORAGE	46	29	50	25	38	-4	-.4	-.1	-.4	2.5	89	15.4	135	71	38	0	0	1	0
AK BARROW	20	11	33	2	16	-8	-.1	0	T	-.6	100	---	---	100	86	0	7	4	0
AK FAIRBANKS	37	26	42	17	31	-5	-.2	0	T	1.1	85	8.2	90	78	57	0	6	2	0
AK JUNEAU	49	34	53	26	42	-4	1.5	-.4	1.0	11.0	136	38.4	102	91	61	0	4	3	0
AK KODIAK	51	39	58	35	45	0	-.2	-1.3	-.2	7.2	100	52.2	127	75	41	0	4	1	0
AK NOME	38	27	40	19	32	-4	-.3	-.1	-.1	1.3	48	13.3	104	81	55	0	0	3	0
AZ FLAGSTAFF	66	43	76	36	55	2	1.4	1.1	1.0	2.7	129	19.1	127	89	45	0	6	4	0
AZ PHOENIX	92	70	103	62	81	3	1.3	1.2	-.7	1.5	214	5.9	113	61	22	3	0	2	0
AZ TUCSON	89	62	99	53	76	0	-.2	0	-.1	1.1	69	13.3	148	73	25	3	0	3	0
AZ WINSLOW	78	52	90	45	65	1	1.1	1.0	1.0	2.0	182	8.2	121	74	67	1	0	2	1
AZ YUMA	92	66	103	62	79	-3	T	0	T	0	0	1.4	61	52	1	4	0	1	0
AR FORT SMITH	83	57	89	45	70	1	T	-.8	T	1.9	49	31.3	93	91	42	0	0	0	0
AR LITTLE ROCK	83	57	93	44	70	1	-.2	-.6	-.2	2.5	61	34.4	92	72	41	1	0	1	0
CA BAKERSFIELD	77	61	80	55	69	-3	-.7	-.7	-.7	7.0	5.1	124	74	40	0	0	1	1	0
CA EUREKA	62	49	65	45	55	-1	-.3	-.1	-.3	1.3	144	20.3	82	90	65	0	0	1	0
CA FRESNO	80	58	84	50	69	-1	T	-.1	T	0	0	7.5	107	77	38	0	0	0	0
CA LOS ANGELES	71	63	74	60	67	0	-.4	-.4	-.4	4.0	7.0	88	83	62	0	0	2	0	0
CA RED BLUFF	79	57	89	52	68	-3	T	-.1	T	-.4	80	16.7	116	74	29	0	0	0	0
CA SAN DIEGO	73	67	76	65	70	1	T	0	T	0	0	8.5	135	80	64	0	0	1	0
CA SAN FRANCISCO	71	53	82	51	62	-1	-.2	-.1	-.1	-.5	167	12.7	101	85	43	0	0	2	0
CA STOCKTON	80	53	88	46	67	-2	-.2	-.1	-.2	2	67	9.4	102	83	32	0	0	1	0
CO DENVER	78	51	88	44	65	7	-.1	-.2	-.1	-.5	36	11.2	84	65	22	0	0	2	0
CO GRAND JUNCTION	71	52	85	46	62	0	-.9	-.7	-.6	1.3	130	6.4	108	68	34	0	0	3	1
CO PUEBLO	84	53	93	45	68	7	0	-.2	0	-.5	56	6.9	63	61	21	2	0	0	0
CT BRIDGEPORT	61	43	68	38	52	-10	1.4	-.9	1.2	5.9	174	23.7	82	87	42	0	0	2	1
CT HARTFORD	59	41	68	38	50	-8	1.3	-.6	1.1	5.9	144	24.9	77	82	36	0	0	2	1
DC WASHINGTON	72	52	87	44	62	-4	-.2	-.4	-.2	2.5	59	25.1	82	83	43	0	0	2	0
FL APALACHICOLA	84	65	89	54	74	-1	0	1.4	0	2.5	25	32.3	65	87	55	0	0	0	0
FL DAYTONA BEACH	86	69	91	61	77	0	-.4	1.1	-.3	7.6	92	32.9	79	88	56	1	0	3	0
FL FORT MYERS	91	73	92	71	82	3	-.4	-1.2	-.4	7.2	73	50.8	106	98	53	7	0	1	0
FL JACKSONVILLE	87	58	92	51	73	-2	0	1.5	0	1.5	17	26.4	57	98	49	2	0	0	0
FL KEY WEST	86	77	88	74	81	0	2.1	-.5	1.9	6.7	80	22.0	71	98	74	0	0	4	1
FL MIAMI	87	74	91	72	81	1	-.2	2.0	-.1	15.0	146	47.3	97	90	54	2	0	3	0
FL ORLANDO	89	69	91	66	79	1	T	1.4	T	8.2	101	39.0	87	93	49	3	0	0	0
FL TALLAHASSEE	88	58	92	42	73	-2	0	1.1	0	4.9	66	41.5	80	95	36	4	0	0	0
FL TAMPA	87	69	89	67	78	0	-.3	-.7	-.3	6.2	87	34.3	78	96	50	0	0	0	0
FL WEST PALM BEACH	88	75	91	69	81	1	0	2.4	0	9.3	81	41.1	83	87	57	1	0	0	0
GA ATLANTA	81	53	88	40	67	-1	0	-.6	0	5.3	143	31.0	80	84	33	0	0	0	0
GA AUGUSTA	83	50	91	37	66	-3	0	-.6	0	7	19	31.8	90	96	30	1	0	0	0
GA MACON	87	54	94	41	71	0	0	-.6	0	1.7	47	34.5	96	93	28	4	0	0	0
GA SAVANNAH	84	59	89	48	72	0	0	1.0	0	2.8	44	33.9	78	89	39	0	0	0	0
HI HILO	80	68	82	64	74	-1	3.0	1.1	1.5	15.6	175	---	---	94	68	0	0	7	3
HI HONOLULU	88	73	88	66	80	0	T	-.2	T	-.3	43	5.9	39	83	53	0	0	1	0
HI KAHULUI	88	71	89	66	79	1	T	-.1	T	-.7	175	---	---	75	84	0	0	1	0
HI LIHUE	88	75	88	72	81	3	-.1	-.5	-.1	2.2	96	---	---	84	58	0	0	1	0
ID BOISE	64	38	73	26	51	-7	T	-.1	T	-.3	60	9.3	108	82	30	0	2	1	0
ID LEWISTON	63	44	72	39	54	-4	-.4	-.2	-.2	1.1	110	10.0	100	91	43	0	0	3	0
ID POCATELLO	64	39	76	27	51	-3	-.1	-.1	T	-.2	33	9.1	115	77	32	0	2	2	0
IL CAIRO	75	52	88	41	64	-4	-.4	-.2	-.4	2.1	53	34.6	93	---	---	0	0	1	0
IL CHICAGO	67	41	83	29	54	-5	-.6	0	-.5	3.5	103	33.9	130	95	52	0	2	4	0
IL MOLINE	68	43	86	32	55	-5	-.5	-.3	-.3	6.1	139	29.3	97	88	47	0	1	3	0
IL PEORIA	70	47	89	37	59	-2	-.3	-.4	-.2	2.1	53	35.4	122	87	46	0	0	2	0
IL ROCKFORD	67	42	87	32	55	-4	-.7	-.1	-.5	6.0	130	30.3	100	82	42	0	1	3	1
IL SPRINGFIELD	74	48	90	35	61	5	-.3	-.2	-.3	1.8	46	41.8	147	76	33	1	0	1	0
IN EVANSVILLE	74	45	89	34	59	-5	0	-.6	0	2.1	66	35.5	107	75	32	0	0	0	0
IN FORT WAYNE	63	42	75	30	53	-7	-.6	-.1	-.4	3.5	117	30.1	106	86	52	0	1	3	0
IN INDIANAPOLIS	67	41	84	29	54	-8	-.5	-.1	-.5	2.0	61	30.8	100	84	45	0	1	1	1
IN SOUTH BEND	62	43	75	32	53	-7	1.3	-.6	-.8	4.2	117	33.2	116	95	62	0	1	4	1
IA BURLINGTON	70	47	87	35	59	-2	-.5	-.3	-.4	4.7	109	37.7	130	83	41	0	0	3	0
IA DES MOINES	71	47	90	35	59	-1	-.4	-.2	-.4	2.8	78	26.2	97	80	45	1	0	1	0
IA DUBUQUE	67	42	84	32	54	-3	1.5	-.7	1.1	6.1	117	---	---	89	49	0	1	2	1
IA SIOUX CITY	69	46	92	28	57	-2	-.2	-.4	-.2	1.2	38	15.5	68	95	48	1	1	1	0
KS CONCORDIA	78	53	91	41	65	3	-.1	-.5	-.1	2.8	76	29.6	120	84	39	1	0	1	0
KS DODGE CITY	86	56	93	49	71	7	T	-.4	T	3.1	148	20.7	113	78	28	3	0	0	0
KS GOODLAND	79	47	91	41	63	4	T	-.3	T	-.4	24	20.1	133	77	28	2	0	0	0
KS TOPEKA	78	53	91	43	66	2	-.8	-.1	-.6	3.8	97	33.5	113	86	44	1	0	2	1
KS WICHITA	83	57	92	48	70	4	-.6	-.1	-.6	3.3	77	20.6	78	84	37	3	0	2	1
KY LEXINGTON	72	44	84	33	58	-6	-.1	-.4	-.1	2.0	67	28.9	81	88	37	0	0	1	0
KY LOUISVILLE	72	46	86	38	59	-5	T	-.6	T	3.2	94	27.8	81	90	39	0	0	0	0
LA BATON ROUGE	88	64	91	54	76	2	-.4	-.3	-.4	4.4	102	35.8	83	95	48	4	0	1	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending Oct. 4, 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	90 AND ABOVE	32 AND BELOW	PRECIPITATION	
																		.01 INCH OR MORE	.50 INCH OR MORE
LAKE CHARLES	89	66	92	58	77	2	.3	.6	.3	2.9	60	42.6	99	96	47	3	0	1	0
NEW ORLEANS	88	65	92	60	77	2	T	.9	T	4.9	78	46.2	100	99	49	3	0	1	0
SHREVEPORT	88	62	92	53	75	2	0	.7	0	3.5	97	33.5	97	92	42	5	0	0	0
ME CARIBOU	49	38	64	35	44	-5	.9	.2	.7	3.2	80	35.4	132	94	64	0	0	6	1
PORTLAND	57	41	64	35	49	-5	.4	.3	.2	6.5	181	34.8	118	83	47	0	0	3	0
MD BALTIMORE	68	47	83	39	57	-8	.3	.4	.3	3.6	100	25.4	81	84	38	0	0	1	0
MA BOSTON	59	46	68	44	52	-8	.9	.2	.5	3.5	97	22.1	72	82	45	0	0	3	0
CHATHAM	60	46	69	43	53	-	1.4	.4	1.0	5.4	-	31.6	-	83	59	0	0	3	1
MI ALPENA	49	32	53	27	41	-11	.9	.3	.7	3.3	89	17.0	77	98	60	0	3	4	2
DETROIT	57	40	64	33	49	-10	1.6	1.1	.9	6.2	238	26.7	106	90	53	0	0	3	2
FLINT	55	38	60	34	47	-10	3.3	2.8	2.5	8.7	290	29.7	124	89	56	0	1	2	1
GRAND RAPIDS	60	39	64	31	50	-8	3.3	2.6	3.2	9.8	258	39.0	154	88	55	0	2	2	0
HOUGHTON LAKE	51	36	57	29	44	-9	.7	0	.4	1.9	50	24.6	109	94	63	0	2	5	1
LANSING	56	38	62	29	47	-10	3.5	2.9	3.5	8.1	270	27.9	116	99	65	0	2	1	2
MARQUETTE	47	33	54	21	40	-10	2.6	1.8	1.7	4.0	85	25.5	90	95	62	0	3	4	2
MUSKEGON	56	38	62	27	47	-10	3.1	2.4	3.0	5.7	150	25.4	105	96	60	0	2	3	1
SAULT STE. MARIE	48	28	53	24	38	-13	.5	.3	.5	2.7	61	20.3	84	95	55	0	7	2	0
MN DULUTH	47	34	53	24	40	-10	2.2	1.6	.9	3.4	94	23.7	94	98	69	0	3	5	1
INT'L FALLS	49	33	58	24	41	-8	2.4	1.8	1.1	6.3	170	19.3	87	99	62	0	3	5	2
MINNEAPOLIS	58	40	67	31	49	-7	.8	.3	.5	2.1	68	22.9	102	86	54	0	1	3	1
ROCHESTER	57	37	65	26	47	-8	.7	.1	.5	3.5	97	29.9	124	89	55	0	3	5	1
SAINT CLOUD	55	35	63	23	45	-8	1.6	1.1	1.3	2.8	90	21.0	89	95	59	0	3	5	1
MS JACKSON	88	56	93	41	72	1	0	.5	0	3.5	103	34.9	90	93	34	4	0	0	0
MERIDIAN	90	52	95	42	71	1	0	.6	0	1.7	46	32.0	79	87	26	4	0	0	0
MO COLUMBIA	79	50	92	35	65	1	T	-1.0	T	1.0	20	39.9	127	81	34	2	0	1	0
KANSAS CITY	77	53	91	37	65	2	.5	.4	.4	3.1	63	35.1	112	80	39	2	0	2	0
SAINT LOUIS	76	52	91	37	64	-1	T	-.6	T	2.3	70	37.0	128	83	37	1	0	1	0
SPRINGFIELD	81	54	90	40	67	3	T	-.9	T	.8	17	31.6	98	75	36	2	0	4	0
MT BILLINGS	65	44	85	38	55	0	T	-.1	T	.3	18	14.0	116	80	36	0	0	1	0
GLASGOW	66	41	83	35	53	1	T	-.1	T	.4	29	12.5	96	71	25	0	1	2	0
GREAT FALLS	63	39	74	26	51	-2	T	-.2	T	.4	29	8.2	80	82	28	0	1	1	0
HAVRE	66	39	78	31	52	0	.1	-.1	.1	.7	54	8.2	80	82	28	0	1	1	0
HELENA	63	38	74	29	51	0	T	-.2	T	.9	82	12.1	127	80	29	0	4	3	0
KALISPELL	59	31	70	26	45	-3	.1	-.1	T	.4	31	15.3	119	84	39	0	4	3	0
MILES CITY	68	42	84	36	55	0	.7	.5	.4	1.1	79	8.7	70	87	34	0	4	3	0
MISSOULA	57	34	69	28	45	-4	.1	-.1	T	1.1	92	13.7	130	98	44	0	0	1	0
NE GRAND ISLAND	74	48	91	38	61	2	.3	-.1	.3	1.3	48	18.8	87	90	42	1	0	1	0
LINCOLN	74	51	90	37	63	2	.4	-.1	.4	2.9	88	19.3	81	86	47	1	0	1	0
NORFOLK	70	48	89	35	59	1	.1	-.3	.1	.6	22	17.4	80	91	43	0	0	1	0
NORTH PLATTE	77	41	88	33	59	2	.1	-.3	.1	.3	13	21.1	116	93	37	0	0	1	0
OMAHA	70	49	89	36	60	0	1.1	.5	1.1	1.8	49	24.0	91	85	50	0	0	1	1
VALENTINE	70	44	79	34	57	1	.3	0	.2	1.2	71	15.6	95	83	42	0	0	2	0
NV ELY	67	38	77	26	53	1	.7	.6	.3	1.0	167	6.9	113	74	31	0	1	2	0
LAS VEGAS	83	63	95	54	73	-1	.1	.1	T	.4	100	2.8	88	59	24	2	0	3	1
RENO	70	38	75	27	54	-1	.1	0	.1	.3	60	4.4	73	83	28	0	2	2	0
NH WINNEMUCCA	69	36	75	23	52	-2	.1	0	.6	5.5	157	32.7	123	89	48	0	0	4	1
NH CONCORD	55	39	60	37	47	-7	.9	.3	.3	2.4	69	26.9	78	91	45	0	0	2	0
NJ ATLANTIC CITY	68	44	78	40	56	-6	.5	-.2	.6	4.2	117	28.3	90	84	40	0	0	2	0
TRENTON	65	48	69	42	56	-6	.5	-.3	.3	4.2	200	7.3	112	76	32	0	0	3	1
NM ALBUQUERQUE	77	52	88	44	65	0	1.4	1.2	.9	1.8	200	7.3	112	76	32	0	0	1	0
ROSWELL	82	56	89	50	69	3	.3	-.1	.3	3.0	158	23.5	253	88	32	0	0	3	0
NY ALBANY	54	38	59	32	46	-11	.5	-.1	.3	4.0	108	22.3	87	85	49	0	2	2	0
BINGHAMTON	51	38	55	36	45	-11	.7	0	.7	4.3	123	22.3	78	89	56	0	0	4	0
BUFFALO	54	41	64	37	48	-9	.6	-.1	.4	4.9	129	28.6	107	82	54	0	0	2	0
NEW YORK	61	48	70	45	55	-9	.5	-.1	.4	3.6	97	25.5	80	76	42	0	1	4	0
ROCHESTER	54	38	62	32	46	-12	.8	-.2	.3	6.2	214	27.8	116	96	64	0	0	4	0
SYRACUSE	54	41	58	34	48	-10	.7	-.1	.3	6.3	203	23.3	85	93	58	0	0	4	0
NC ASHEVILLE	77	43	85	34	60	-2	.2	-.6	.2	1.6	38	26.6	78	81	30	0	0	0	0
CHARLOTTE	77	50	88	37	64	-5	.3	-.4	.2	6.6	165	31.8	96	85	33	0	0	2	0
GREENSBORO	75	45	86	34	60	-5	.1	-.1	.1	1.4	21	39.1	91	87	51	0	0	1	0
HATTERAS	74	54	82	43	64	-6	.1	-.5	.2	2.8	65	26.0	76	92	37	0	0	0	0
RALEIGH	77	46	88	36	61	-4	.2	-.5	T	1.0	16	36.4	82	88	36	0	0	0	0
WILMINGTON	79	50	88	40	65	-6	T	-1.0	T	1.0	16	36.4	82	88	36	0	0	0	0
ND BISMARCK	60	44	70	39	52	-1	.4	.2	.2	2.2	138	12.9	88	87	55	0	0	2	0
FARGO	55	37	62	30	46	-7	.8	.5	.5	1.9	90	14.5	88	87	55	0	0	2	0
WILLISTON	63	41	81	32	52	0	.4	.2	.2	.6	40	9.8	76	83	49	0	1	3	0
OH AKRON-CANTON	59	41	73	30	50	-9	.1	.5	.1	3.3	110	34.3	121	88	51	0	0	1	0
CINCINNATI	71	43	87	33	57	-6	T	-.5	T	1.4	48	27.3	88	76	34	0	0	3	1
CLEVELAND	57	42	70	33	50	-10	1.0	-.4	.8	7.0	219	31.7	112	84	54	0	1	1	0
COLUMBUS	64	40	76	31	52	-8	.1	-.4	.1	2.3	82	32.0	106	73	41	0	1	3	1
DAYTON	66	41	80	32	53	-8	.1	-.4	.1	5.2	193	34.7	124	77	41	0	1	3	1
TOLEDO	59	39	68	29	49	-10	1.0	.5	.9	7.1	254	30.9	123	96	59	0	0	4	1
YOUNGSTOWN	56	41	70	37	49	-9	1.0	.4	.6	4.7	157	29.0	98	88	62	0	0	4	1
OK OKLAHOMA CITY	84	62	92	52	73	5	1.6	.9	.6	3.1	76	30.4	113	86	36	2	0	2	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

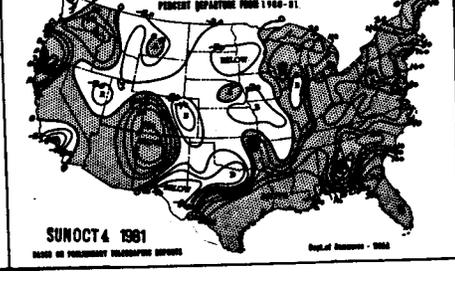
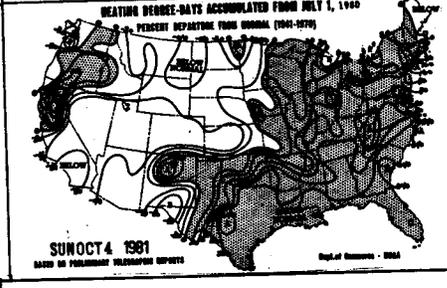
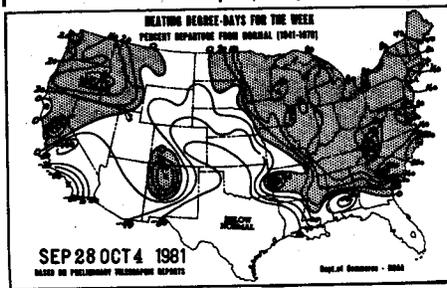
Weather Data for the Week Ending Oct. 4, 1981

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	90 AND ABOVE	32 AND BELOW	TEMPERATURE °F		PRECIPI-TATION	
																		.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
OR TULSA	85	61	92	46	73	4	T	-.9	T	3.1	65	27.9	90	83	42	4	0	0	0	0	
OR ASTORIA	62	47	65	44	55	-1	1.8	-.7	.8	4.1	114	38.3	95	90	63	0	0	7	1	0	
OR BURNS	57	28	70	23	43	-10	.3	-.1	.3	.7	140	8.0	103	92	42	0	7	0	7	0	
OR MEDFORD	69	42	82	35	56	-4	.2	-.1	.2	.7	88	7.0	57	90	37	0	0	0	2	0	
OR PENDLETON	64	43	78	37	54	-5	T	-.2	T	.2	1.3	186	10.3	120	80	36	0	0	1	0	
OR PORTLAND	67	49	72	46	58	-1	.6	0	.2	2.5	119	18.0	79	97	52	0	0	0	5	0	
OR SALEM	67	42	74	39	55	-3	.2	-.4	.1	3.0	158	19.7	80	99	48	0	0	0	3	0	
PA ALLENTOWN	61	43	64	38	52	-8	.5	-.2	.5	3.3	80	27.7	84	89	43	0	0	0	1	0	
PA ERIE	56	43	66	39	50	-7	2.6	1.8	1.7	6.1	153	33.9	118	85	58	0	0	3	2	0	
PA HARRISBURG	62	43	65	38	53	-9	.1	-.5	.1	2.8	90	27.8	100	85	44	0	0	1	0	0	
PA PHILADELPHIA	66	46	75	42	56	-7	.4	-.2	.3	3.3	94	29.6	96	87	40	0	0	0	1	0	
PA PITTSBURGH	59	40	71	32	49	-9	.2	-.4	.1	4.3	143	31.0	108	89	50	0	1	2	0	0	
PA SCRANTON	56	43	60	40	50	-8	.8	-.2	.7	3.6	113	28.9	107	85	58	0	0	3	1	0	
RI PROVIDENCE	60	40	70	36	50	-9	1.6	-.9	.8	3.9	103	24.7	79	83	43	0	0	3	1	0	
SC CHARLESTON	84	58	91	46	71	0	0	-1.0	0	1.3	22	41.8	94	88	40	2	0	0	0	0	
SC COLUMBIA	84	53	92	37	68	-1	0	-.8	0	.4	8	28.1	73	86	28	2	0	0	0	0	
SC GREENVILLE	79	48	88	34	64	-3	0	-.8	0	2.0	47	22.3	60	73	27	0	0	0	0	0	
SD ABERDEEN	62	44	78	31	53	-1	.9	-.5	.8	.9	45	14.1	83	90	54	0	1	2	1	0	
SD HURON	67	44	82	34	56	0	.2	-.2	.2	1.6	80	13.0	76	94	52	0	0	1	0	0	
SD RAPID CITY	74	43	89	38	59	3	-.2	-.1	.1	.4	27	12.1	75	77	30	0	0	2	0	0	
SD SIOUX FALLS	65	42	83	27	53	-3	.3	-.2	.3	.8	25	14.4	65	91	45	0	2	2	0	0	
TN CHATTANOOGA	79	47	89	40	63	-4	T	-.8	T	2.8	65	33.3	84	83	29	0	0	1	0	0	
TN KNOXVILLE	76	49	86	41	63	-4	.5	-.2	.5	6.6	213	33.1	92	91	35	0	0	1	0	0	
TN MEMPHIS	84	57	92	44	70	1	0	-.6	0	2.9	83	30.0	78	75	34	2	0	0	0	0	
TN NASHVILLE	78	47	88	40	62	-5	.1	-.4	.1	1.5	42	32.9	90	81	29	0	0	1	0	0	
TX ABILENE	89	68	92	61	79	8	T	-.6	T	1.7	63	16.2	84	74	37	5	0	0	0	0	
TX AMARILLO	80	55	85	50	68	3	1.1	-.7	.9	3.7	168	18.2	108	95	39	0	0	3	1	0	
TX AUSTIN	93	72	94	68	82	7	1.1	-.8	.1	2.9	67	38.0	147	85	41	7	0	1	0	0	
TX BEAUMONT	88	69	91	64	78	-3	1.3	-.4	1.3	4.8	79	40.2	93	100	47	2	0	2	1	0	
TX BROWNSVILLE	92	74	97	72	83	4	.7	-.4	.6	5.2	88	26.8	135	92	54	6	0	3	1	0	
TX CORPUS CHRISTI	91	72	93	69	82	4	-.1	-.9	-.1	.6	11	31.9	137	95	54	5	0	1	0	0	
TX DEL RIO	92	70	94	65	81	5	T	-.7	T	.3	8	20.6	145	84	42	6	0	0	0	0	
TX EL PASO	90	62	95	55	76	6	T	-.2	T	.5	36	11.8	182	77	28	3	0	1	0	0	
TX FORT WORTH	91	66	93	61	78	5	0	-.7	0	2.4	65	28.9	110	81	39	5	0	0	0	0	
TX GALVESTON	87	76	89	73	81	4	-.1	-.9	T	2.6	41	29.1	88	93	66	0	0	2	0	0	
TX HOUSTON	92	69	94	66	81	5	T	-1.0	T	8.9	165	41.7	113	96	48	6	0	0	0	0	
TX LUBBOCK	82	58	87	54	70	4	.1	-.5	.1	1.9	70	16.9	109	88	42	0	0	1	0	0	
TX MIDLAND	89	64	97	59	77	5	T	-.3	T	1.7	85	11.9	106	83	36	5	0	1	0	0	
TX SAN ANGELO	86	63	89	58	75	2	T	-.6	T	2.6	81	21.3	148	88	42	0	0	1	0	0	
TX SAN ANTONIO	93	70	94	64	81	6	-.2	-.7	.2	1.6	37	27.6	123	91	42	7	0	1	0	0	
TX VICTORIA	91	69	92	66	80	4	1.0	-.1	1.0	2.2	42	34.5	128	97	47	7	0	1	1	0	
TX WACO	92	67	94	63	79	5	0	-.7	0	3.7	97	23.9	96	88	43	6	0	0	0	0	
TX WICHITA FALLS	89	64	93	52	77	5	-.1	-.6	-.1	1.6	46	22.7	99	82	36	5	0	1	0	0	
UT BLANDING	69	47	81	45	58	0	.9	-.6	.6	2.4	200	10.8	126	71	44	0	0	4	1	0	
UT SALT LAKE CITY	70	50	83	40	60	1	.7	-.5	.4	1.2	150	10.5	91	70	32	0	0	2	0	0	
VT BURLINGTON	54	41	58	32	47	-7	.9	-.2	.4	6.5	181	32.6	132	80	50	0	1	4	0	0	
VA LYNCHBURG	71	45	84	36	58	-5	-.2	-.5	.2	3.8	100	28.4	94	80	35	0	0	1	0	0	
VA NORFOLK	74	53	88	45	64	-3	.7	-.1	.7	3.9	78	31.0	86	88	37	0	0	1	1	0	
VA RICHMOND	74	45	87	37	60	-5	.3	-.4	.3	3.0	71	28.4	84	92	38	0	0	2	0	0	
VA ROANOKE	72	45	85	35	59	-5	.3	-.5	.3	4.8	117	23.3	76	86	37	0	0	1	0	0	
WA COLVILLE	59	39	65	30	49	-4	1.0	-.8	.5	2.1	210	18.6	165	89	59	0	2	6	0	0	
WA OMAK	67	39	70	30	53	-.1	T	-.1	T	.9	-.1	7.4	-.1	-.1	0	2	1	0	0	0	
WA QUILLAYUTE	59	43	63	38	51	-3	3.5	1.6	2.5	8.8	138	63.9	98	100	69	0	0	7	1	0	
WA SEATTLE-TACOMA	59	47	62	42	53	-3	1.5	-.9	.6	4.6	192	20.7	89	89	60	0	0	7	1	0	
WA SPOKANE	60	38	71	31	49	-5	.1	-.1	.1	.7	78	10.2	84	98	42	0	2	2	0	0	
WA WALLA-WALLA	68	47	82	41	58	-2	.4	-.1	.4	1.2	120	15.2	132	82	38	0	0	1	0	0	
WA YAKIMA	66	36	74	30	51	-5	-.1	0	-.1	.7	140	4.0	78	79	35	0	2	1	0	0	
WV BECKLEY	65	41	76	35	53	-5	.6	-.1	.5	5.8	153	30.1	88	89	38	0	0	2	0	0	
WV CHARLESTON	71	44	84	35	57	-6	.5	-.1	.4	2.8	82	30.0	91	94	41	0	0	2	0	0	
WV HUNTINGTON	73	45	85	36	59	-4	.4	-.1	.4	2.0	63	31.7	101	83	33	0	0	1	0	0	
WV PARKERSBURG	67	45	79	36	56	-5	T	-.5	T	3.7	116	27.3	87	90	46	0	0	1	0	0	
WI GREEN BAY	55	40	60	29	47	-7	1.6	-.9	1.0	3.7	103	18.4	81	97	61	0	1	4	1	0	
WI LA CROSSE	59	41	65	31	50	-8	.7	0	.3	2.6	67	31.2	125	99	60	0	1	5	0	0	
WI MADISON	60	40	75	29	50	-5	.8	-.1	.4	4.9	126	27.2	107	91	54	0	2	5	0	0	
WI MILWAUKEE	56	42	61	32	49	-8	1.5	-.9	1.1	5.8	171	27.8	118	96	54	0	1	4	1	0	
WY CASPER	71	41	84	30	56	2	.2	0	.2	.2	20	9.1	101	69	22	0	1	2	0	0	
WY CHEYENNE	72	43	81	34	58	4	T	-.2	T	.3	25	15.2	116	75	28	0	0	1	0	0	
WY LANDER	68	44	81	34	56	3	-.1	-.2	-.1	.6	46	9.5	84	69	29	0	0	1	0	0	
WY SHERIDAN	70	37	87	30	53	0	.1	-.2	T	.6	40	12.3	90	78	28	0	1	3	0	0	
PR SAN JUAN	92	78	95	75	85	4	.4	-1.0	.4	3.4	48	43.0	98	91	61	7	0	2	0	0	

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING OCT. 4, 1981.
BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JAN 1, 1981.

Table with columns for STATES AND STATIONS, WEEKLY DEPARTURE\*, SEASONAL ACCUMULATION +, and DEPARTURE FROM 1980-81. Rows list various cities across the United States.



## September Weather and Crop Summary

**HIGHLIGHTS:** An early beginning of seasonal rains in the Northwest resulted in above-normal precipitation from northern California through Washington State. A series of cold fronts from the Pacific brought the rain and cooler air to break the long heat wave. Several invasions of cold polar air into the eastern United States proved September to be the first fall month. Freezing temperatures pushed southward through the Plains from the Dakotas to Nebraska and cool weather covered most of the East. Rain was above normal along the Appalachians and from the Lakes through the Northeast but much of the East, the Plains, and the South were drier than normal.

**FIRST WEEK...**A cool air mass pushed into the Plains and moved slowly southward and eastward, triggering showers and thunderstorms along and ahead of it. A ridge of high pressure along the east coast kept the heaviest rain along and to the west of the Appalachians. Torrential rains flooded parts of southeastern Michigan and northern Ohio. Some areas along the western slopes of the Appalachians accumulated over 4 inches of rain during the week. Showers and thunderstorms were scattered throughout the Southwest and the Rockies. Most of the Plains and Mississippi Valley averaged cooler than normal and parts of the northern Plateau were as much as 6° cooler than normal but the middle and southern Plateau remained warm.

**SECOND WEEK...**A cold front moved rapidly through the Plains and eastern United States early in the week and triggered showers and thunderstorms along its way. The heaviest rain occurred from western Texas to Wisconsin as the front displaced moist air from the Gulf of Mexico and from the Appalachians eastward as the cooler air encountered Atlantic moisture. Some parts of the East had only light showers, but spotty thunderstorms produced downpours in other areas--especially southern Florida. Showers were an everyday occurrence over the central and southern Plateau and Rockies. Temperatures were warm all week in the West and warmed rapidly through the Plains as the cool air moved eastward.

**THIRD WEEK...**Another mass of cold air moved south and southeastward out of central Canada and brought some of the coldest weather so far this fall to areas east of the Rockies. Freezing temperatures pushed as far south as Nebraska and average temperatures for the week were 9 to 12° colder than normal in eastern Texas and Oklahoma. The cooler weather stayed east of the Rockies and the West continued warmer than normal. The most rain, in the form of showers and thunderstorms, fell from eastern Texas to the Great Lakes and eastward. A low-pressure system off the coast of Virginia poured heavy rain into that area and heavy thunderstorms again drenched southern Florida.

**FOURTH WEEK...**Seasonal rains began in the Northwest as a series of cold fronts moved in from the Pacific. Showers fell from northern California through the northern Rockies and then moved into the Plains. Snow fell in the higher elevations of the Rockies as cooler air moved in to break the long heat wave there. While the northwest was chilly from the new invasion of cool air and the East remained cold, southerly breezes carried warm air into the Plains and Southwest. A low-pressure system deepened off the coast of New England and dumped 2 to 4 inches of rain over that area. Strong thunderstorms again spread very heavy rain over southern Florida.

### Winter Wheat Seeding

Winter wheat seeding for 1982 harvest reached 44 percent complete by the end of September, equal to last year but but slightly behind average. Seeding was underway in all States except California, where the crop is normally seeded 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 Montana fell 30 percentage points behind average with seeding only 45 percent finished.

Planting was underway in all areas of Kansas at the end of September and progress was running ahead of schedule. Moisture has generally been adequate to germinate seed and establish stands. However, rain is needed in southeastern areas before growers finish seeding. Producers had seeded 50 percent of the acreage by the end of the month, equal to last year's progress but 10 points ahead of average.

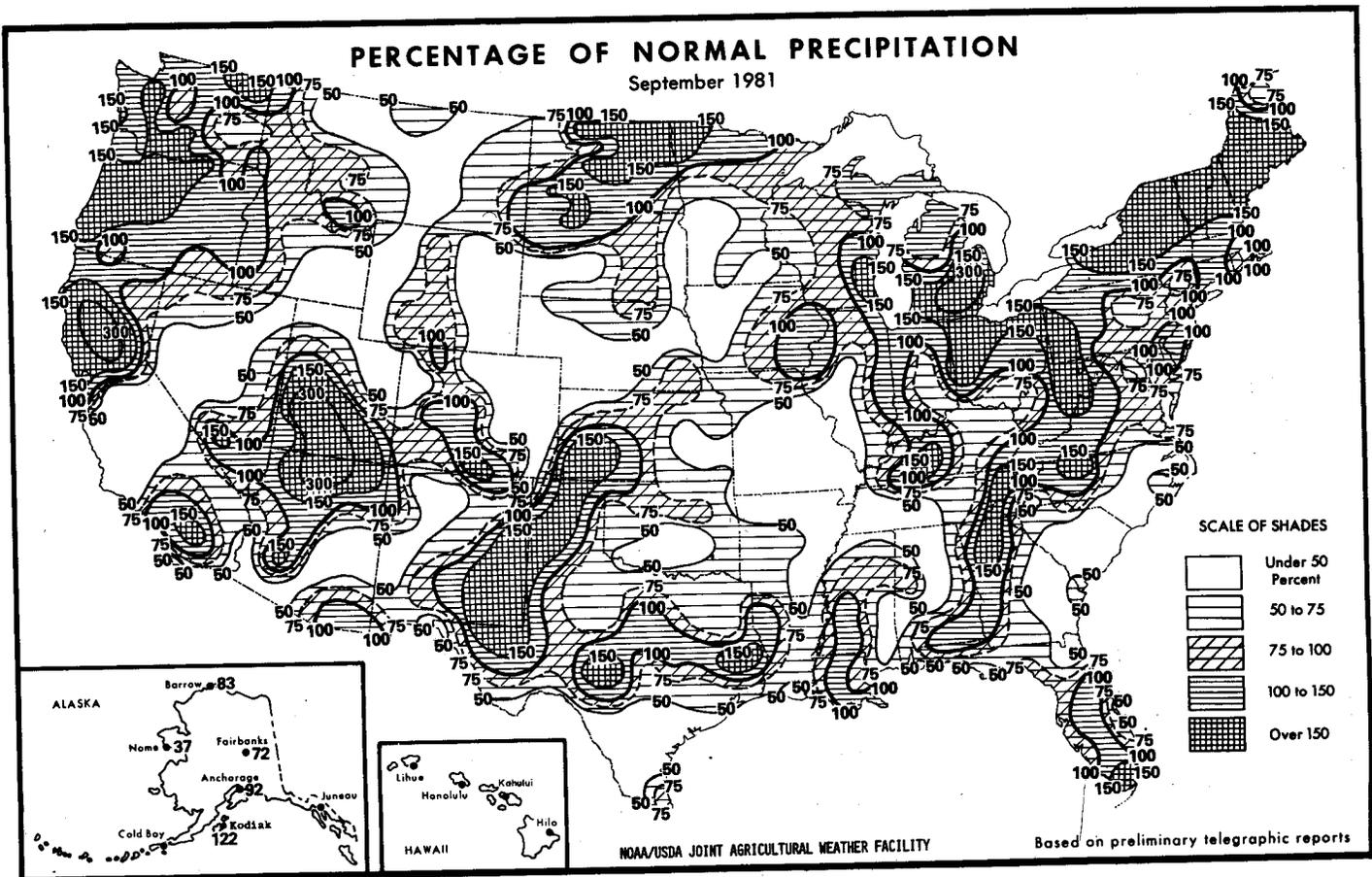
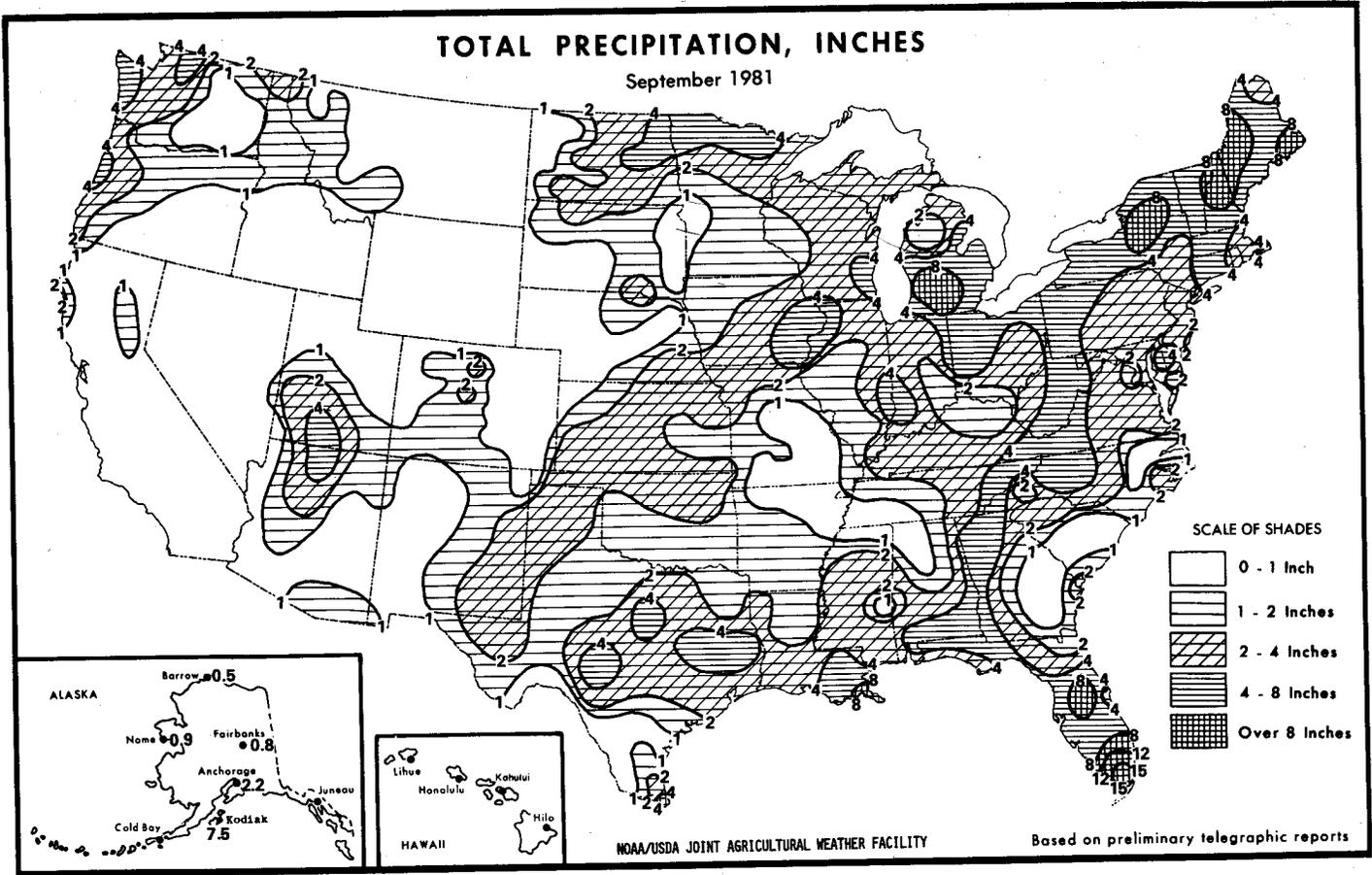
Light to heavy rains fell over most of Texas during September. Seeding activities were slowed due to the wet weather, but most areas needed more soil moisture. Seeding was 38 percent complete at the end of September, compared to 37 percent last year and the 40 percent average. Planting in Oklahoma reached 40 percent, ahead of last year's 25 percent and the 30 percent average. Stands in early seeded fields were uniform and in good condition. In Nebraska, seeding began early in the month and was 85 percent finished by month's end, 10 points ahead of normal. Colorado producers were 86 percent finished with seeding the 1982 crop, lagging the average by 5 points. Most areas of the State received scattered rainfall and the crop was in good to very good condition. Planting in South Dakota reached 90 percent complete, equal to the average progress for this date. Seeding in Indiana and Ohio was slowed due to the late corn and soybean harvests.

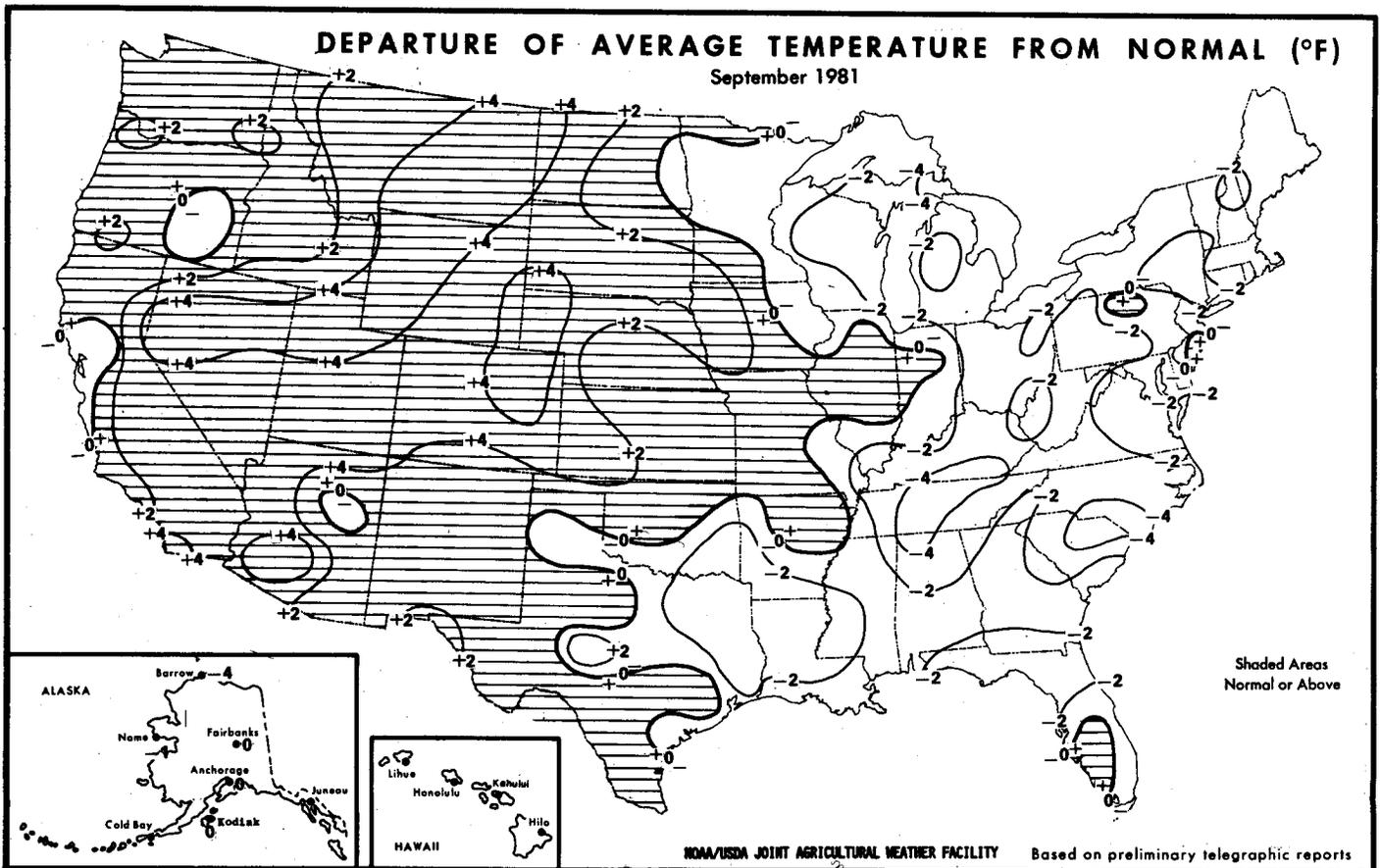
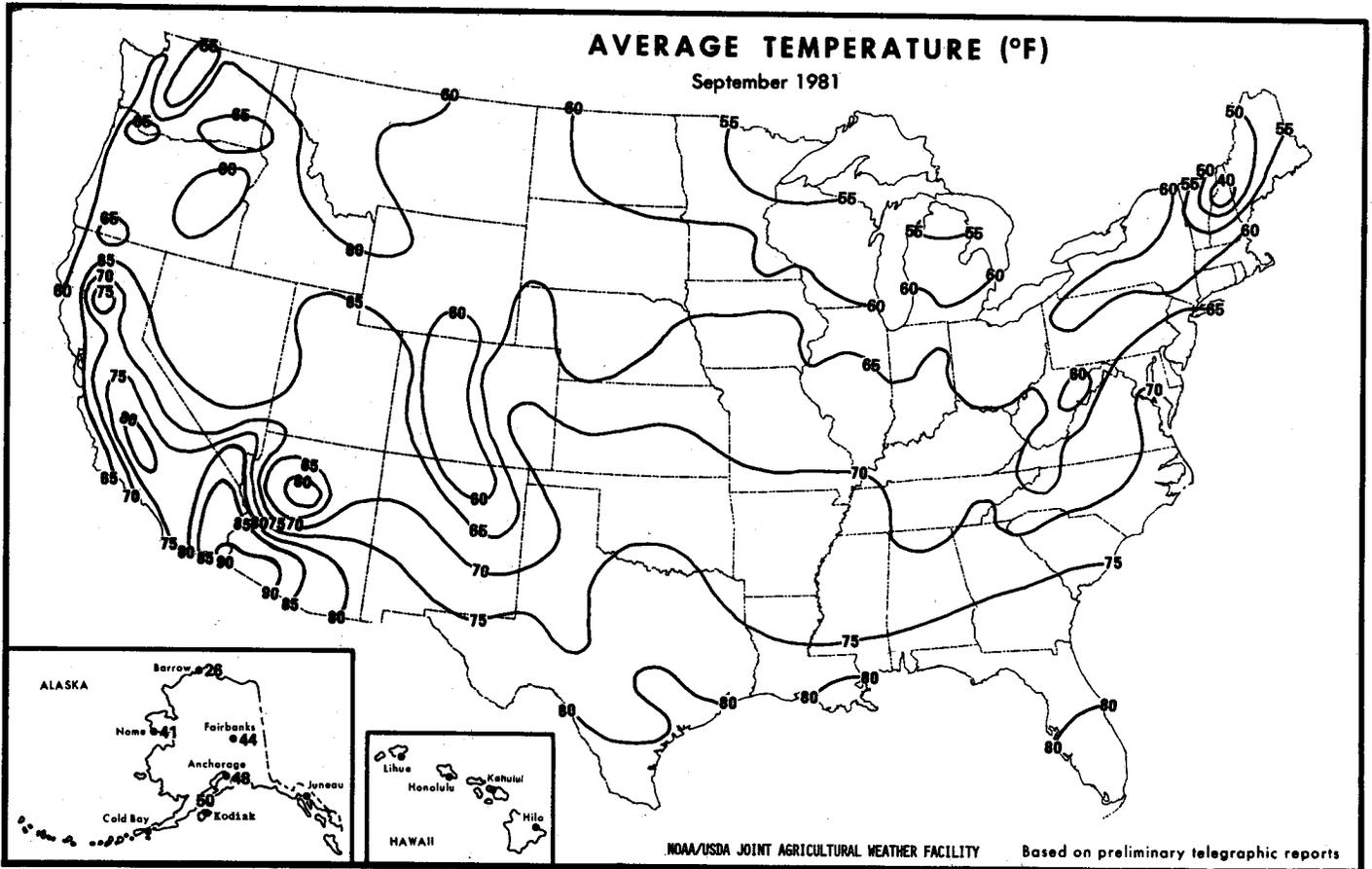
### National Weather Summary

(Continued from page 1.)

area from central California to the Rockies and northward. Heavier showers and thunderstorms accompanied the eastern portion of the front, which moved to a line from Wisconsin to Oklahoma.

**SUNDAY...**Southerly winds ahead of a slow-moving cold front triggered thunderstorms from Missouri to the Great Lakes. The cold air spread over the eastern third of the Nation except Florida. Warm southerly winds brought warm weather to the southern Plains. Temperatures in the nineties reached into Oklahoma.





Temperature and Precipitation Data for September 1981

Temperature and Precipitation Data for				September 1981															
States and Stations		Temperature OF		Precipitation Inches		States and Stations		Temperature OF		Precipitation Inches		States and Stations		Temperature OF		Precipitation Inches			
Average	Departure	Total	Departure	Average	Departure	Total	Departure	Average	Departure	Total	Departure	Average	Departure	Total	Departure	Total	Departure		
AL BIRMINGHAM	72	-2	.9	-2.7	LA BATON ROUGE	76	-2	4.0	.2	OK TOLEDO	61	-3	6.1	3.7	OK YOUNGSTOWN	60	-3	4.1	1.5
MOBILE	77	-1	4.0	-2.6	LA LAKE CHARLES	77	-1	2.6	-1.5	OK OKLAHOMA CITY	74	1	1.5	-2.1	TULSA	74	1	3.1	-1.0
AK ANCHORAGE	48	0	2.2	-.2	ME SHREVEPORT	74	-3	3.3	.2	OR ASTORIA	59	1	2.8	.0	BURNS	56	-2	.5	.0
BARROW	26	-4	.5	-.1	ME CARIBOU	53	-1	2.4	-1.1	MEDFORD	67	3	.5	-.1	PENDLETON	64	0	1.3	.7
FAIRBANKS	44	0	.8	-.3	MD PORTLAND	59	0	6.1	3.0	PORTLAND	65	3	1.9	.3	SALEM	62	0	2.8	1.3
JUNEAU	--	--	--	--	MD BALTIMORE	68	-1	2.9	-.2	PA ALLENTOWN	64	-1	2.7	-.9	ERIE	61	0	4.3	.7
KODIAK	50	0	7.5	1.4	MA BOSTON	64	-1	2.5	-.7	HARRISBURG	64	-3	2.2	-.5	PHILADELPHIA	67	-1	2.8	-.2
NOME	41	-1	.9	-1.5	MA CHATHAM	62	-2	4.1	1.1	PITTSBURGH	62	-2	4.1	1.6	SCRANTON	62	-1	2.7	-.2
AZ FLAGSTAFF	59	1	2.5	.8	MI DETROIT	61	-3	5.5	3.3	RI PROVIDENCE	62	-1	2.6	-.7	SC CHARLESTON	75	0	1.3	-3.9
PHOENIX	89	5	.2	-.5	MI FLINT	58	-3	7.7	5.2	SC COLUMBIA	71	-4	.4	-3.9	SD GREENVILLE	69	-3	2.1	-1.7
TUCSON	81	1	1.1	-.3	MI GRAND RAPIDS	61	-1	9.5	6.2	SD ABERDEEN	--	--	--	--	HURON	64	3	1.4	-.4
WINSLOW	69	-1	.5	-.4	MI HOUGHTON LAKE	56	-1	1.9	-1.3	TX ABILENE	78	2	1.7	-.6	RAPID CITY	64	3	.2	-1.0
YUMA	90	3	T	-.2	MO LANSING	58	-4	8.0	5.4	SIoux FALLS	63	2	.5	-1.4	CHATTANOOGA	70	-2	2.7	-1.0
AR FORT SMITH	72	-2	1.9	-1.4	MO MARIETTE	52	-2	2.1	-1.9	KNOXVILLE	70	-2	6.1	3.3	MEMPHIS	74	0	.6	-2.4
LITTLE ROCK	73	0	1.9	-1.6	MS MUSKOGON	59	-3	5.4	2.0	NASHVILLE	68	-4	1.4	-1.7	AMARILLO	69	-1	3.5	1.6
CA BAKERSFIELD	80	3	0	-.1	MS SAULT STE. MARIE	50	-5	2.2	-1.7	AUSTIN	80	1	2.6	-1.1	BEAUMONT	77	-2	2.7	-2.6
EUREKA	58	1	1.0	-.3	MN DULUTH	53	-1	2.4	-.7	BROWNSVILLE	82	0	5.1	-.1	CORPUS CHRISTI	81	0	.5	-4.4
FRESNO	76	2	0	-.1	MN INT'L FALLS	54	1	4.1	-.8	DEL RIO	80	0	.4	-2.7	EL PASO	76	2	.5	-.7
LOS ANGELES	70	1	.1	.0	MI MINNEAPOLIS	60	0	1.5	-1.2	FORT WORTH	76	-2	2.4	-.8	GALVESTON	80	0	2.5	-3.1
RED BLUFF	76	1	.9	.6	NY ROCHESTER	57	-2	1.0	-2.1	HOUSTON	79	0	2.9	-1.8	LUBBOCK	71	0	1.8	-.4
SAN DIEGO	74	4	T	-.1	NY SAINT CLOUD	57	-1	1.3	-1.4	MIDLAND	76	1	1.7	.2	SAN ANGELO	74	-3	2.7	-.0
SAN FRANCISCO	63	-1	.3	-.1	MS JACKSON	73	-3	3.5	.5	SAN ANTONIO	79	0	1.4	-2.3	VICTORIA	79	-1	1.2	-3.4
STOCKTON	74	2	T	-.2	MO MERIDIAN	74	-1	1.0	-2.3	WACO	78	-1	3.6	.4	WICHITA FALLS	77	0	1.5	-1.5
DENVER	68	5	.4	-.7	MO COLUMBIA	68	0	2.7	-3.7	UT BLANDING	65	2	1.5	.5	SALT LAKE CITY	69	4	.5	-.2
GRAND JUNCTION	69	2	.3	-.5	MO KANSAS CITY	68	0	2.7	-1.5	VT BURLINGTON	59	0	6.2	3.1	LYNCHBURG	66	-2	3.6	.3
PUEBLO	69	3	.3	-.5	MO SAINT LOUIS	69	-1	1.2	-1.7	NORFOLK	71	-1	3.2	-1.0	RICHMOND	69	-1	2.7	-.9
CT BRIDGEPORT	63	-4	4.5	1.6	MO SPRINGFIELD	70	1	.8	-3.3	ROANOKE	66	-2	4.5	1.1	COLVILLE	59	0	1.7	.9
HARTFORD	63	0	4.5	.9	MT BILLINGS	63	4	.1	-1.3	OMAK	64	--	.8	--	QUILLAYUTE	57	0	5.2	.0
DC WASHINGTON	71	0	1.9	-1.2	GLASGOW	61	4	.1	-.8	SEATTLE-TACOMA	61	1	3.4	1.4	SPOKANE	60	0	.5	-.3
FL APALACHICOLA	77	-2	2.5	-6.5	GREAT FALLS	60	3	.4	-.8	WALLA-WALLA	67	1	.8	-.1	YAKIMA	62	1	.6	.3
DAYTONA BEACH	78	-2	7.6	.5	HAVE	59	2	.7	-.4	WV BECKLEY	61	-2	5.0	1.6	CHARLESTON	67	-1	2.4	-.5
FORT MYERS	83	1	6.7	-2.0	HELENA	59	3	.9	-.1	HUNTINGTON	67	-1	1.6	-1.3	PARKERSBURG	65	-2	2.0	-.8
JACKSONVILLE	76	-2	1.2	-6.6	KALISPELL	55	2	.5	-.6	WI GREEN BAY	57	-2	3.3	.1	LA CROSSE	61	-1	1.8	-1.6
KEY WEST	83	0	6.7	-.6	MILES CITY	64	4	.7	-.5	MADISON	59	-1	3.1	-.3	MILWAUKEE	59	-2	5.5	2.5
MIAMI	81	-1	14.8	6.1	MISSOULA	57	2	1.0	-.1	CASPER	62	3	.2	-.7	CHEYENNE	61	3	.3	-.7
ORLANDO	80	0	8.3	1.1	NE GRAND ISLAND	65	1	.9	-1.6	LANDER	62	4	.6	-.5	SHERIDAN	63	5	--	--
TALLAHASSEE	76	-2	4.9	-1.7	LINCOLN	66	0	2.5	-.4	DAYTON	63	-3	5.1	2.8	PR SAN JUAN	--	--	--	--
TAMPA	79	-2	5.9	-.5	NORFOLK	64	1	.6	-1.8										
WEST PALM BEACH	81	-1	9.3	-.6	NORTH PLATTE	62	0	.3	-1.7										
GA ATLANTA	72	0	5.3	2.1	OMAHA	66	2	1.5	-1.7										
AUGUSTA	71	-3	.7	-2.6	VALENTINE	63	2	.9	-.6										
MACON	75	-1	1.7	-1.4	NV ELY	60	3	.4	-.2										
SAVANNAH	75	-1	2.9	-2.7	LAS VEGAS	83	3	.3	.0										
HI HILO	--	--	--	--	RENO	65	5	-1	-.1										
HONOLULU	--	--	--	--	WINNEMUCCA	63	4	.2	-.1										
KAHULUI	--	--	--	--	NH CONCORD	59	-1	4.6	1.5										
LIHUE	--	--	--	--	NJ ATLANTIC CITY	68	1	2.0	-1.0										
ID BOISE	64	1	.4	.0	TRENTON	67	0	3.7	.5										
LEWISTON	66	3	1.0	.1	NM ALBUQUERQUE	70	0	.4	-.4										
POCATELLO	61	2	.1	-.5	ROSWELL	70	0	2.7	1.2										
IL CAIRO	70	-2	1.6	-1.9	NY ALBANY	59	-3	3.5	.4										
CHICAGO	62	-2	3.3	.3	BINGHAMTON	58	-2	3.4	.4										
MOLINE	64	-1	4.2	.4	BUFFALO	61	-1	4.2	.9										
PEORIA	66	0	1.3	-2.3	NEW YORK	66	-2	3.0	-.2										
ROCKFORD	63	0	3.5	-.5	ROCHESTER	60	-2	5.4	3.0										
SPRINGFIELD	67	0	1.1	-2.2	SYRACUSE	62	-1	5.6	2.9										
IN EVANSVILLE	67	-2	2.0	-.8	NC ASHEVILLE	66	-1	1.4	-2.2										
FORT WAYNE	65	0	3.3	.7	GREENSBORO	68	-2	6.3	2.7										
INDIANAPOLIS	65	-1	2.0	-.9	HATTERAS	72	-2	1.3	-4.5										
SOUTH BEND	63	-1	3.8	.7	RALEIGH	68	-3	2.7	-1.1										
IA BURLINGTON	65	0	4.2	.5	WILMINGTON	71	-4	1.1	-4.5										
DES MOINES	66	2	2.3	-.8	ND BISMARCK	59	1	1.9	.6										
DUBUQUE	--	--	--	--	FARGO	57	-1	1.1	-.6										
SIoux CITY	65	2	1.0	-1.5	WILLISTON	62	5	.6	-.6										
KS CONCORDIA	68	0	2.8	-.3	OH AKRON-CANTON	63	-1	3.2	-.6										
DODGE CITY	72	3	3.1	1.4	CINCINNATI	65	-3	1.5	-1.1										
GOODLAND	66	2	.3	-1.1	CLEVELAND	62	-2	6.8	4.0										
TOPEKA	68	0	2.0	-1.3	COLUMBUS	62	-3	2.3	-.1										
WICHITA	72	1	2.3	-1.4	DAYTON	63	-3	5.1	2.8										
KY LEXINGTON	66	-3	2.0	-.7															
LOUISVILLE	68	-1	3.2	.3															

Based on 1941-70 normals

Heating Degree Days (Base 65° F.)

September 1981

ALA. Birmingham . . .	19	MAINE, Caribou . . .	355	OKLA. Okla. City . . .	22
Mobile . . . . .	5	Portland . . . . .	189	Tulsa . . . . .	23
Montgomery . . . . .	3	MD. Baltimore . . . . .	51	OREG. Astoria . . . . .	173
ALASKA, Anchorage . . .	507	MASS. Boston . . . . .	91	Burns . . . . .	285
Barrow . . . . .	--	Chatham . . . . .	102	Medford . . . . .	89
Fairbanks . . . . .	622	MICH. Alpena . . . . .	325	Pendleton . . . . .	131
Juneau . . . . .	--	Detroit . . . . .	167	Portland . . . . .	76
Nome . . . . .	709	Flint . . . . .	231	Salem . . . . .	124
ARK. Flagstaff . . . . .	182	Grand Rapids . . . . .	173	PA. Allentown . . . . .	100
Phoenix . . . . .	0	Houghton Lake . . . . .	280	Erie . . . . .	153
Tucson . . . . .	0	Lansing . . . . .	227	Harrisburg . . . . .	94
Winslow . . . . .	7	Marquette . . . . .	384	Philadelphia . . . . .	58
Yuma . . . . .	0	S. Ste. Marie . . . . .	435	Pittsburgh . . . . .	159
ARK. Fort Smith . . . . .	26	MINN. Duluth . . . . .	363	Scranton . . . . .	137
Little Rock . . . . .	14	Internatl Falls . . . . .	324	R. I. Providence . . . . .	119
CALIF. Bakersfield . . .	0	Minneapolis . . . . .	172	S. C. Charleston . . . . .	3
Eureka . . . . .	203	Rochester . . . . .	235	Columbia . . . . .	13
Fresno . . . . .	0	St. Cloud . . . . .	247	Greenville . . . . .	26
Los Angeles . . . . .	0	MISS. Jackson . . . . .	16	S. DAK. Aberdeen . . . . .	--
Red Bluff . . . . .	9	Meridian . . . . .	9	Huron . . . . .	105
Stockton . . . . .	0	MO. Columbia . . . . .	32	Rapid City . . . . .	108
San Diego . . . . .	0	Kansas City . . . . .	40	Sioux Falls . . . . .	114
San Francisco . . . . .	71	St. Louis . . . . .	35	TENN. Chattanooga . . . . .	31
COLO. Denver . . . . .	19	Springfield . . . . .	37	Knoxville . . . . .	22
Grand Junction . . . . .	12	MONT. Billings . . . . .	124	Memphis . . . . .	9
Pueblo . . . . .	22	Glasgow . . . . .	169	Nashville . . . . .	42
CONN. Bridgeport . . . .	102	Great Falls . . . . .	201	TEX. Abilene . . . . .	7
Hartford . . . . .	115	Havre . . . . .	191	Amarillo . . . . .	26
D. C. Washington . . . .	19	Helena . . . . .	195	Austin . . . . .	0
FLA. Apalachicola . . . .	1	Kalispell . . . . .	287	Beaumont . . . . .	3
Ft. Myers . . . . .	0	Miles City . . . . .	116	Brownsville . . . . .	0
Jacksonville . . . . .	1	Missoula . . . . .	256	Corpus Christi . . . . .	0
Key West . . . . .	0	NEBR. Grand Island . . . .	80	Del Rio . . . . .	0
Lakeland . . . . .	--	Lincoln . . . . .	71	El Paso . . . . .	0
Miami . . . . .	0	Norfolk . . . . .	98	Fort Worth . . . . .	10
Orlando . . . . .	0	North Platte . . . . .	96	Galveston . . . . .	0
W. Palm Beach . . . . .	0	Omaha . . . . .	73	Houston . . . . .	0
Tallahassee . . . . .	7	Valentine . . . . .	114	Lubbock . . . . .	16
Tampa . . . . .	0	NEV. Ely . . . . .	159	Midland . . . . .	0
GA. Atlanta . . . . .	18	Las Vegas . . . . .	0	San Angelo . . . . .	8
Augusta . . . . .	13	Reno . . . . .	83	San Antonio . . . . .	2
Macon . . . . .	6	Winnemucca . . . . .	116	Victoria . . . . .	0
Savannah . . . . .	3	N. H. Concord . . . . .	192	Waco . . . . .	6
IDAHO, Boise . . . . .	137	N. J. Atlantic City . . . . .	47	Wichita Falls . . . . .	11
Lewiston . . . . .	118	Trenton . . . . .	52	UTAH. Milford . . . . .	49
Pocatello . . . . .	130	N. MEX. Albuquerque . . . .	3	Salt Lake City . . . . .	34
ILL. Cairo . . . . .	31	Roswell . . . . .	11	VT. Burlington . . . . .	204
Chicago . . . . .	135	N. Y. Albany . . . . .	204	VA. Lynchburg . . . . .	55
Moline . . . . .	91	Binghamton . . . . .	215	Norfolk . . . . .	12
Peoria . . . . .	60	Buffalo . . . . .	170	Richmond . . . . .	29
Rockford . . . . .	109	New York . . . . .	111	Roanoke . . . . .	58
Springfield . . . . .	51	Rochester . . . . .	201	WASH. Colville . . . . .	207
IND. Evansville . . . . .	53	Syracuse . . . . .	145	Omak . . . . .	--
Fort Wayne . . . . .	88	N. C. Asheville . . . . .	57	Quillayute . . . . .	246
Indianapolis . . . . .	94	Charlotte . . . . .	18	Seattle-Tacoma . . . . .	138
South Bend . . . . .	132	Greensboro . . . . .	39	Spokane . . . . .	209
IOWA, Burlington . . . . .	75	Hatteras . . . . .	15	Walla Walla . . . . .	85
Des Moines . . . . .	57	Raleigh . . . . .	31	Yakima . . . . .	163
Dubuque . . . . .	--	Wilmington . . . . .	13	W. VA. Beckley . . . . .	164
Sioux City . . . . .	81	N. DAK. Bismarck . . . . .	191	Charleston . . . . .	76
KANS. Concordia . . . . .	33	Fargo . . . . .	253	Huntington . . . . .	67
Dodge City . . . . .	24	Williston . . . . .	149	Parkersburg . . . . .	102
Goodland . . . . .	59	OHIO. Akron-Canton . . . . .	138	WIS. Green Bay . . . . .	248
Topeka . . . . .	46	Cincinnati . . . . .	87	Madison . . . . .	193
Wichita . . . . .	24	Cleveland . . . . .	145	Milwaukee . . . . .	187
KY. Lexington . . . . .	77	Columbus . . . . .	141	WYO. Casper . . . . .	129
Louisville . . . . .	61	Dayton . . . . .	119	Cheyenne . . . . .	120
LA. Baton Rouge . . . . .	4	Toledo . . . . .	169	Lander . . . . .	104
Lake Charles . . . . .	5	Youngstown . . . . .	189	Sheridan . . . . .	115
New Orleans . . . . .	0				
Shreveport . . . . .	8				



Mediterranean Fruit Fly. Adults. This insect attacks and survives on a hundred or more fruit, vegetable, and nursery plants that abound in our southern States the year round. Like other flies, it is a prolific breeder and can develop a dozen or more generations a year.

**MEDFLY SITUATION REPORT**  
October 2, 1981

Since our last report three fertile Medfly finds have occurred. One wild male Medfly was trapped in a fig tree in Dublin, Alameda County. A wild Medfly was found in San Mateo County. The unmated female with eggs was trapped in an apple tree in Loma Mar. Another wild male Medfly was found in a plum tree in San Mateo. In each of the cases the Medflies were trapped within the quarantine area but outside the sprayed areas. In each case the spray area

was increased by 9 square miles and treated immediately.

Roadside inspection stations have been phased out as of October 1.

The Japanese quarantine continues. The export table below clearly shows how Arizona lemons have taken over the Japanese market. Oranges and honeydews have also been stopped from going to Japan. Strawberry shippers indicate they would be shipping about 30,000 12 pint basket flats to Japan but were stopped due to the Medfly.

**National Agricultural Summary**

September 28 - October 4, 1981

**HIGHLIGHTS:** Subnormal temperatures gripped the major row crop regions of the Nation bringing frost to many areas of the Corn Belt. However, most crops, except for late-planted fields, were far enough along to escape damage. Dry weather in the southeastern third of the Nation further depleted soil moisture and stressed crops. Farmers had 4 to 7 days suitable for fieldwork in nearly all areas of the Nation. Soil moisture supplies were rated adequate to surplus in parts of New England, Wisconsin, and Michigan, adequate in the other East North Central States, short to adequate in most West North Central States and the West, and very short to short in the South Atlantic and South Central States and in North and South Dakota. Corn was in good to excellent condition in most of the Corn Belt. In the 17 major States, 85% of the crop was mature and 17% had been harvested. Soybeans rated mostly good to excellent. In the 18 major States, leaves were shedding on 66% of the acreage. Combining was 17% finished. Winter wheat was 60% seeded. Cotton was in fair to good condition. In the 14 major States, bolls were opening on 71% of the acreage, and 18% had been harvested. Sorghum was 33% harvested. Rice harvest was 76% complete. Tobacco harvest neared completion and peanut combining picked up momentum. Fall apple harvest was in full swing. Northern vegetable harvest slowed as cool weather persisted.

**CORN:** Corn was in good to excellent condition in most areas of the Corn Belt, poor to fair in parts of the Southeast, and fair to mostly good in other producing areas. Frost occurred in parts of the Corn Belt, but most of the crop was far enough along to escape damage. However, development still lagged normal in many of the major producing States. In the 17 major States, 85% of the crop was mature and 17% had been harvested, 10 points behind last year and 2 points behind average. Harvesting was underway in all major States, with progress ranging from 2% complete in Wisconsin to 86% 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 except in parts of the Southeast where conditions were poor to fair. Rain is needed in the Southeast to improve conditions. Some late-planted fields may have been damaged by frost in parts of the Corn Belt. In the 18 major States, leaves were dropping on 66% of the acreage, compared to 74% a year ago. Harvesting was underway in all States except South Carolina. Combining in the 18 major States reached 17% finished, 10 points behind last year. Progress was 10 points less than average in Indiana and Ohio, 17 points less in Minnesota, and 22 points less than average in Illinois.

**SMALL GRAINS:** Winter wheat seeding was 60% complete in the 15 major States, 3 points ahead of a year earlier. Seeding was underway in all States except California, where the crop is normally seeded later. Excellent progress was made in Kansas; some early-planted wheat was starting to emerge. Early wheat on the northern High Plains of Texas showed good stands, but a moisture shortage slowed growth in south central Texas.

**COTTON:** Cotton was in fair to good condition except in Georgia, where conditions were poor to

fair due to dry weather. In the 14 major producing States, bolls were opening on 71% of the acreage, compared to 74% last year. Harvesting was active in all producing States; 18% of the acreage had been harvested, 5 points behind a year ago. Harvest was in full swing in the Blacklands of Texas and nearing completion in the southern half of the State. Stalk destruction was progressing rapidly in the Coastal Bend area.

**SORGHUM:** Sorghum harvest was 33% finished, 8 points behind average. Progress ranged from 1% harvested in Colorado to 75% in Texas. Combining made little progress in the northern half of Texas due to high moisture levels of the grain.

**OTHER CROPS:** Rice harvest was 76% complete, ahead of last year's 65%. Harvesting was nearly finished in Louisiana and reached 25% complete in California. Progress was generally ahead of average.

The tobacco harvest moved toward completion in most areas. Growers were busy stripping the crop and putting it into barns. Markets closed in Georgia.

Peanut-threshing picked up momentum. Progress ranged from 13% complete in Virginia to 84% in Mississippi. Harvesting made good progress in Texas, although weeds and grasses slowed operations on Edwards Plateau.

The Idaho potato harvest was 34% finished, 2 points ahead of normal. Digging reached 60% complete in Maine; quality was reported good.

Michigan dry bean growers received another set back as heavy rains flooded many fields. Harvest was 50% complete. However, additional acreage was ready for harvest, but fields were too wet to enter.

**FRUITS AND NUTS:** Fall apple harvest continued in full swing. Grape harvest was underway in the Great Lakes growing region of New York. California growers harvested grapes, apples, Freestone peaches, almonds, pistachios, and walnuts. Harvest of new crop grapefruit started. Florida's citrus groves were in very good condition, although irrigation was needed in some areas. Fresh fruit harvest continued to gain momentum. Lemon picking increased in Arizona. Groves were in good condition and fruit sized well. Texas pecans continued to mature; most were splitting shucks. Light harvest is expected soon in South Texas.

**VEGETABLES:** Northern vegetable harvests neared completion as cool weather moved in. Plantings were about on schedule in most areas of Florida. Irrigation was underway in drier fields. Light harvest started on pole beans, sweet corn, eggplant, peppers, and squash. Harvest of a wide variety of vegetables continued in California and Texas.

**PASTURES AND LIVESTOCK:** Pastures and ranges were in fair to good condition in all areas except parts of the Southeast where poor to fair conditions were reported. In the West, dry conditions persisted. Livestock were moved from summer grazing and were in fair to good condition. Dry, hot weather slowed the growth of grasses in Texas.

**CROP PROGRESS FOR WEEK ENDING OCT. 4, 1981**

CORN % HARVESTED				CORN % MATURE				SOYBEAN % HARVESTED				SOYBEAN % DROPPING LEAVES			
	1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.
COLO	5	14	17	COLO	69	76	84	ALA	8	14	NA	ALA	28	39	38
GA	86	90	80	GA	100	100	NA	ARK	6	5	4	ARK	29	43	NA
ILL	15	38	19	ILL	93	100	99	GA	3	3	2	GA	34	35	NA
IND	8	20	12	IND	65	95	90	ILL	26	57	48	ILL	85	96	96
IOWA	22	21	17	IOWA	99	97	98	IND	10	40	20	IND	70	96	95
KANS	30	50	35	KANS	85	95	90	IOWA	44	41	40	IOWA	98	96	98
KY	36	51	31	KY	90	98	90	KANS	10	15	10	KANS	65	70	NA
MICH	3	6	7	MICH	75	80	69	KY	4	14	14	KY	38	54	53
MINN	6	7	16	MINN	87	95	90	LA	17	14	18	LA	50	53	53
MO	35	62	36	MO	87	95	82	MICH	2	9	8	MICH	95	83	86
NEBR	8	30	12	NEBR	80	98	90	MINN	20	27	37	MINN	99	98	99
N C	81	80	72	N C	100	99	NA	MISS	11	13	13	MISS	82	76	75
OHIO	7	20	10	OHIO	55	95	90	MO	15	24	16	MO	48	57	52
PA	6	12	6	PA	62	67	52	NEBR	30	40	25	NEBR	92	97	90
S DAK	13	14	13	S DAK	79	94	99	N C	1	4	NA	N C	18	19	NA
VA	49	50	47	VA	98	94	NA	OHIO	10	35	20	OHIO	70	98	90
WIS	2	5	3	WIS	92	100	95	S C	0	0	0	S C	25	31	26
								TENN	3	5	4	TENN	37	56	40
17 STATES	17	27	19	17 STATES	85	95	NA	18 STATES	17	27	NA	18 STATES	66	74	NA

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

EXCL. STATES WITH NA 84 95 92

EXCL. STATES WITH NA 18 28 24

EXCL. STATES WITH NA 72 80 78

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

COTTON % HARVESTED				COTTON % BOLLS OPENING				SORGHUM % HARVESTED				SORGHUM % MATURE			
	1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.		1981	1980	AVG.
ALA	24	25	12	ALA	90	87	55	COLO	1	4	8	COLO	67	81	75
ARIZ	14	5	9	ARIZ	95	95	95	KANS	10	20	25	KANS	55	55	70
ARK	22	38	17	ARK	91	98	72	MO	30	44	35	MO	75	81	78
CALIF	1	1	NA	CALIF	90	65	NA	NEBR	5	50	25	NEBR	70	96	85
GA	38	56	21	GA	86	95	NA	OKLA	25	35	20	OKLA	85	80	75
LA	39	25	17	LA	98	100	76	S DAK	19	21	21	S DAK	89	81	81
MISS	48	23	20	MISS	100	100	93	TEX	75	77	73	TEX	81	87	NA
MO	8	45	19	MO	88	98	81	7 STATES	33	47	41	7 STATES	70	77	NA
N MEX	3	2	4	N MEX	92	55	NA	THESE 7 STATES PRODUCED 92% OF THE 1980 SORGHUM CROP.				EXCL. STATES WITH NA	65	72	75
N C	22	29	14	N C	98	94	NA								
OKLA	5	5	5	OKLA	65	80	50								
S C	26	39	21	S C	88	100	89								
TENN	6	48	17	TENN	71	93	54								
TEX	17	27	20	TEX	55	62	NA								
14 STATES	18	23	NA	14 STATES	71	74	NA								

EXCL. STATES WITH NA 21 26 18

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

RICE % HARVESTED			
	1981	1980	AVG.
ARK	77	57	55
CALIF	25	10	NA
LA	99	94	95
MISS	78	74	66
TEX	100	100	100
5 STATES	76	65	NA
EXCL. STATES WITH NA	87	76	74

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

WINTER WHEAT % PLANTED			
	1981	1980	AVG.
CALIF	0	0	NA
COLO	91	93	95
IDAHO	52	51	55
ILL	20	27	22
IND	20	40	25
KANS	75	70	65
MO	20	32	21
MONT	70	85	85
NEBR	98	96	90
OHIO	25	50	40
OKLA	60	30	45
OREG	31	46	NA
S DAK	94	100	98
TEX	51	48	52
WASH	66	59	59
15 STATES	60	57	NA
EXCL. STATES WITH NA	62	59	59

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

NA - NOT AVAILABLE

## 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: 6.1 days. Activities: Harvest of row crop, hay, fruits, vegetables, scouting and treating agricultural pests, planting forage crops. Corn: Harvested 88%, 88% 1980, 58% average. Cotton: Bolls open 90%, 87% 1980, 55% average; harvested 24%, 25% 1980, 12% average. Peanuts: Dug 73%, 47% 1980, 61% average; combined 62%, 34% 1980, 51% average. Sorghum: Harvested 52%, 41% 1980. Soybeans: Turning yellow 80%, 82% 1980, 72% average; leaves dropping 50%, 63% 1980; mature 28%, 39% 1980, 38% average; harvested 8%, 14% 1980. Wheat: Seeded 11%, 18% 1980. Conditions: Peanuts good; soybeans, cotton, sorghum, pastures fair.

**ALASKA:** Favorable weather for fieldwork ranged from few hours Delta Junction up to 6 days in Matanuska Valley. Snow and rain limited farm activities Delta area and very low combining achieved second week in row. Moisture content barley remained high 20 to 24%. Statewide barley combining less than 35% finished compared over 50% year ago. Wind, rain and snow caused light to moderate damage grain fields. Grass hay harvest windup stages. Inclement weather continued halt activity grain hay producers. Potato harvest virtually complete. Livestock in mostly good to excellent condition. Ground soil moisture supplies mostly adequate or better.

Tanana Valley: A cold week with light precipitation.

Matanuska Valley: Clear skies and light winds produced temperatures well below freezing at night.

Kenai Peninsula: Fair and generally dry weather prevailed making for cool days and chilly nights.

Kodiak Island: Temperatures averaged near normal with light rain.

**ARIZONA:** Mostly sunny skies beginning week, by midweek storm spread moisture over State, increased shower, thundershower activity, tapered off by 2nd. Rain mostly 1.00 to 1.50 in. Average temperatures ranged 4° below to 3° above normal.

Cotton progress slowed slightly, 95% open bolls, 14% harvested. Harvest activity increasing, water, pesticide applications decreasing, defoliation increasing. Sorghum harvest good progress, good yields reported. Harvest, corn for grain, excellent progress, month earlier than usual, yields well above average. Alfalfa haying good progress, hay suffered moderate rain damage. Lettuce harvest Cochise County began. Earlier planted lettuce central, western areas good stand, growing well. Weeding, thinning active later planted fields. Land preparation, planting lettuce, other mixed vegetables late fall early winter active. Cantaloup, honeydew harvest underway. Lemon picking increased, fruit sizes quite variable. Other early variety fruit sizing well, showing good color break. Groves generally good condition. Ranges fair to good. Soil moisture and water supplies adequate. Southwestern Deserts dry some locals. Cattle good, sheep excellent. Prospects winter feeding good.

**ARKANSAS:** Mostly warm week, little rain. Highest temperature 95°, lowest 32°. All departures from normal +2 to -4°. Most rainfall 0.51 in., least zero.

Continued dry weather hurting late soybeans. Rice ripe 96%, 93% 1980; harvested 77%, 57% 1980, 55% average. Soybeans yellowing 52%, 50% 1980; shedding 29%, 43% 1980; mature 16%, 21% 1980; harvested 6%, 5% 1980, 4% average. Cotton open bolls 91%, 98% 1980, 72% average; harvested 22%, 38% 1980, 17% average. Corn harvested 92%, 99% 1980, 65% average. Sorghum harvested 87%, 90% 1980, 77% average. Seven days fieldwork. Soil moisture short. Livestock good. Pastures deteriorating.

**CALIFORNIA:** Some rain over all of the State at some time during week. Largest total southeast interior. Other fairly substantial totals along extreme north coast and north end of the Sacramento Valley. The same weather system that brought large totals to the south also brought nearly 0.50 in. to extreme south part of the San Joaquin Valley. Temperatures trended cooler except along the central coast and Cascade-Sierra.

Rice harvest underway. Harvest 25% compared to 10% last year. Cotton harvest San Joaquin Valley, 90% open bolls, harvest 19% complete, 1% last year. Some white fly problems. Bean harvest slowed due to rain, no damage. Active harvest corn for grain and silage. Milo heading. Land preparations winter grains. Harvest of apples, grapes, olives, Freestone peaches, almonds, pistachios, and walnuts continued. Harvest of 1982 Desert grapefruit started. Artichoke supplies light. Broccoli, cauliflower, celery, Desert cantaloup harvests progressing well. Carrot pulling remains steady in Kern District, Salinas Valley. Desert fall lettuce planting continues. Harvest San Joaquin Valley area will begin 20th. Brussels sprouts, green bean harvests active along San Mateo Coast. Cabbage, parsley harvests continue in Oxnard. Potato quality remains good, Perris-Hemet area. Fall potato harvest continues Klamath Basin. Sweetpotato harvest increasing Merced-Atwater, Westside area. Seed cucumber harvest progressing rapidly Sacramento Valley. Market tomato and bell pepper harvests continue. Processing tomato harvest past peak, some plants closing. Movement cattle to winter grazing areas completed virtually all areas. Supplemental feeding necessary some areas. Rain needed start new grass.

**COLORADO:** Temperatures well above normal despite a few cold fronts. Precipitation above normal mountains and west from widespread showers. Low clouds and fog east but precipitation below normal.

Winter wheat seeded 91%, 93% 1980, 95% average; emerged 76%, 78% 1980, 77% average. Barley harvested 98%, 100% 1980 and average. Spring wheat harvested 92%, 92% 1980. Corn dented 98%, 97% 1980 and average; mature 69%, 76% 1980, 84% average; grain harvested 5%, 14% 1980, 17% average; silage harvested 94%, 94% 1980, 93% average. Sorghum ripe 67%, 81% 1980, 75% average; grain harvested 1%, 4% 1980, 8% average; forage harvested 79%, 74% 1980. Dry beans cut 92%, 92% 1980 and average; threshed 74%, 77% 1980, 81% average. Fall potatoes harvested 52%, 57% 1980, 65% average. Alfalfa 3rd cutting 78%, 85% 1980, 90% average; 4th cutting 20%, 56% 1980. Six days suitable for fieldwork. Ranges and pastures good condition. Livestock good condition.

**FLORIDA:** Partly cloudy skies predominated with few scattered showers. Rainfalls spotty, less

than 0.50 in. most places. Low temperatures mostly 60's north, 70's south. However, a cold front moved into northern part of State evening of the 2nd, lowering weekend readings into 40's and 50's Panhandle. High temperatures mostly in 80's.

Soil moisture mostly short in west, north central; adequate south, mostly excessive south-eastern tip. Peanut harvest full swing, soybean harvest increasing slowly, hay cutting continues under mostly good curing weather. Tobacco markets closed. Sugarcane prospects improving. Small grain seedings slow due to dry soils. Pasture condition declined. Panhandle and most northern pastures poor to fair. Other areas mostly good to excellent. Cattle generally good condition. Citrus tree condition very good. Surface moisture short some areas. Irrigation active, natural color break starting to show. Fresh fruit harvest continues to gain momentum. Temperatures about normal most of week, vegetable areas. A late week cold front brought lower readings. Skies were mostly partly cloudy with only light, scattered showers. Irrigation under-way drier sections. Fieldwork very active. Plantings about on schedule most areas. Light harvest underway pole beans, sweet corn, eggplant, peppers, squash.

GEORGIA: Generally mild, continued dry. Isolated showers extreme north 1st, with less than 0.10 in. Average temperatures within 2° of normal, State-wide through 1st. Weekend temperatures around 10° below normal.

Soil moisture very short to short. Six days suitable for fieldwork. Peanut harvest, land preparation and small grain planting main activities. Corn poor to fair, 93% harvested, last year 90%, average 80%. Soybeans declined to poor to fair, need rain, 34% dropping leaves, last year 35%, 3% harvested, same as last year, average 2%. Peanuts fair to good; 70% dug, 55% threshed, last year 71% and 58%, average 70% and 59%. Cotton poor to fair, 86% open, last year 95%, 38% picked, last year 56%, average 21%. Tobacco markets closed 2nd. Wheat 7% planted, last year 8%, average 10%. Rye 14% planted, 15% last year, 13% average. Apples fair to good, 88% picked, last year 92%. Pecans fair to good. Hay crops and pastures declined to poor to fair. Hogs and cattle fair to good.

IDAHO: Temperatures ranged from 3° above to 6° below normal. High of 85° in Parma, low of 6° in Fairfield. Precipitation ranged from 0.02 to 1.45 in. across the State. Most rain reported in north.

Rain finally arrived, easing some concern over low soil moisture, especially in the north. Eastern areas remain very dry. Winter wheat planted: 52%, 51% in 1980, 55% average. Winter wheat emerged: 19%, 29%, 32%. Dry beans: 92%, 64%, 66%. Corn silage: 80%, 52%, 68%. Onions: 90%, 67%, 86%. Potatoes: 34%, 30%, 32%. Sugarbeet and corn for grain harvest just underway.

ILLINOIS: Temperatures 1 to 6° below normal. Precipitation 0.25 to 0.70 in. in north, trace remainder State.

Corn 93% mature, 100% 1980 and 99% average; 15% harvested, 38% 1980, 19% average. Soybeans 96% turning yellow, 100% 1980, 100% average; 85% shedding leaves, 96% 1980, 96% average; 26% combined, 57% 1980, 48% average. Winter wheat 20% seeded, 27% 1980, and 22% average. Corn and soybean acreage 6% tilled, 0% 1980, and 1% average. Pastures 20% excellent, 55% good, 22% fair, 3% poor. Soil moisture 11% short, 80% adequate, 9% surplus. Fieldwork: 5.0 days suitable.

INDIANA: Cool week. Temperatures averaged 4°

below normal and thermometers dipped to 29° in parts of north and central resulting in scattered frost. Rainfall averaged 0.10 in. south, 0.80 in central and north. Highest temperature 89°.

Fieldwork averaged 5 days. Topsoil and subsoil moisture adequate. Corn 8% harvested, 1980 20%, average 12%. Corn 65% mature, 1980 95%, average 90%. Soybeans 10% combined, 1980 40%, average 20%. Soybeans 70% dropping leaves, 1980 90%, average 95%. Moisture content: corn 28%, soybeans 14%. Wheat 20% seeded, 1980 40%, average 20%. Tobacco 90% harvested, 1980 95%.

IOWA: Overall, State experienced near-normal weather, although temperatures fluctuated greatly during the course of the week. Precipitation ranged from well above normal in the west to slightly below normal in the east.

Topsoil moisture: 21% short, 73% adequate, 6% surplus. Subsoil moisture: 27% short, 70% adequate, 3% surplus. Corn acreage mature: 99%, 1980 97%, normal 98%. Corn acreage harvested: 22%, 1980 21%, normal 17%. Soybeans with leaves shedding: 98%, 1980 96%, normal 98%. Soybean acreage mature: 95%, 1980 89%, normal 93%. Soybean acreage harvested: 44%, 1980 41%, normal 40%. Fall plowing completed: 5%, 1980 6%, normal 5%. Fieldwork: 5.6 days suitable. Crop conditions: Soybeans, corn mostly good to excellent. Livestock reported to be in mostly good condition.

KANSAS: Precipitation limited to east, 0.10 to 0.30 in. east central, southeast and south central. Temperatures 70 to 72° southern districts, 67 to 69° elsewhere. Temperatures 7 to 8° above normal west, 3 to 5° above normal central and east.

Wheat planting excellent progress, stands starting to emerge. Planted 75%, last year 70%, average 65%. Corn harvest all areas of State. Warm weather aiding maturity. Corn mature: 85%, last year 95%, average 90%. Corn harvested: 30%, last year 50%, average 35%. Sorghum, nearly half of crop still susceptible to freeze. Mature: 55%, last year 55%, average 70%. Sorghum harvested: 10%, last year 20%, average 25%. Soybean maturity aided by warm weather but behind schedule, many fields susceptible freeze damage. Mature: 65%, last year 70%. Soybeans harvested: 10%, last year 15%, average 10%.

KENTUCKY: Cool and relatively dry weather continued. Temperatures averaged between 2 and 7° below normal while precipitation mainly over the south ranged from 0.25 to 0.50 in.

Frost number of areas 3rd caused some damage, primarily to late planted soybeans. Most days suitable for fieldwork. Soil moisture 51% short and 49% adequate. Favorable weather for housing of late tobacco and curing of tobacco in barn. Houseburn mostly light to date. Corn harvest 36% complete, 51% late year and 31% average. Yields mostly good. About 90% of corn mature. Soybeans 4% harvested, last year and average 14%. About one-third soybean acreage still have leaves entirely green. Fall seeding of wheat 18% complete. Fall seeded grains and grasses need rain.

LOUISIANA: Rainfall non-existent northern third, ranged from 0.20 to 0.40 in. elsewhere. Temperatures 1 to 4° above normal.

Soil moisture short. Days suitable: 6.2. Corn harvest 98%, 98% 1980, 92% average. Rice harvested 99%, 94% 1980, 95% average. Cotton open bolls 98%, 100% 1980, 76% average; harvested 39%, 25% 1980, 17% average; condition fair. Soybeans leaves turning 78%, 80% 1980, 74% average; leaves shedding 50%, 53% 1980 and average; harvested 17%, 14% 1980, 18% average;

condition fair. Sorghums harvested 92%, 88% 1980, 79% average; condition fair to good. Sugarcane planted 86%, 80% 1980, 69% average; condition good. Harvest will start 7th. Sweetpotatoes harvested 84%, 65% 1980 and average; condition good. Vegetables rated fair. Pecans rated fair to good. Wheat seeded 5%, 12% 1980. Pastures rated fair, livestock rated fair to good. Hay final cutting 88%, 80% 1980.

**MARYLAND AND DELAWARE:** Maryland: Corn 80% mature, last year 95% mature. Harvest for grain 40%, 50% last year. Corn silage 95% cut, last year 95. Soybeans 75% turned, 50% shed leaves; last year 75% turned and 50% shed leaves. Lima beans harvest nearly completed. Sweetpotatoes 32% harvested. Small grain seedings: wheat 20%, oats 25%, rye 87%, and barley 37%.

Delaware: Corn 80% mature, 95% last year. Corn for grain 66% harvested, corn silage 95%. Soybeans 70% turned, 50% shed leaves; last year 75% turned and 50% shed leaves. Lima beans nearly all harvested. Barley 40% planted.

**MICHIGAN:** Temperature departures from normal ranged from 8° southwest Lower to 14° below northeast Upper. Mean temperatures ranged from lower 40's Upper to near 50 southern Lower. Maximum temperatures were generally in mid to upper 60's over southern Lower occurring around middle of week. Minimum temperatures were mainly in lower 20's west Upper occurring around end of week. Flooding occurred over part of southern Lower. Maximum precipitation occurred near Marquette reaching 2.59 in. Over Lower the maximum rain was centered along a line from Muskegon to Mount Clemens. Over a large portion of southern Lower total rain exceeded 2.00 in. Some snow fell over western Upper during period but melted by end of week.

Field activity halted over most of State 30th as heavy rains flooded many fields. Most severely affected were dry beans, corn silage, potato harvesting and planting winter wheat. Dry weather needed for fieldwork to resume. Dry beans 50% harvested. Additional acreage ready for harvest, but it's too wet to enter fields. Corn for grain 3% complete. Corn silage harvested 50% complete. No progress in soybean harvest. Soybeans 50% mature. Planting winter wheat continues slow and progressed to 25% seeded. Very little acreage planted east. Potato digging increased to 60%. Sugarbeet harvest delayed, crop needs sunshine. Third cutting hay remained at 65%. Apple harvest slowed. Little vegetable harvesting.

**MINNESOTA:** Temperatures averaged slightly below normal west to 9° below normal east. Extremes: 77° at Worthington, 20° at Hibbing. Precipitation averaged 0.50 to almost 2.00 in. above normal east central, central, north central, and northeast. Near normal elsewhere. Snowfall in extreme north central and northeast was 2 to 4 in. midweek. Snow depth at week's end was zero.

Rain replenished dry soils but increased moisture content of crops. Heavy frost matured crops and helped lower moisture content. Harvest of crops very slow. Topsoil moisture rated 5% very short, 18% short, 68% adequate, and 9% surplus. Harvested: field corn 6%, 1980 7%, normal 16%; soybeans 20%, 1980 27%, normal 37%; sunflowers 14%, 1980 39%, normal 40%; sugarbeets 8%, 1980 7%, normal 12%; potatoes 75%, 1980 69%, normal 71%. Mature: field corn 89%, 1980 95%, normal 90%; soybeans 79%, 1980 94%, normal 89%. Moisture content: field corn 30%, 1980 27%, normal 27%; soybeans 13%, 1980 14%, normal 13%.

**MISSISSIPPI:** Dry weather with below normal temperatures prevailed. Temperature extremes: 30 and 95°. Greatest 24-hour rainfall 1.05 in.

Soil moisture short to very short. Days suitable for fieldwork: 6.4. Cotton 100% of acreage with open bolls, 100% last year, 93% average; 48% harvested, 23% last year, 20% average; condition fair to good. Soybeans 82% shedding, 76% last year, 75% average; 11% harvested, 13% last year and average; condition fair. Rice 97% mature, 95% last year, 96% average; 78% harvested, 74% last year, 66% average; condition good. Sorghum 78% harvested, corn 84%, hay 95%, sweetpotatoes 60%, peanuts 84%, sorghum silage 95%. Winter wheat 20% planted. Pastures fair to poor condition; pecans good to fair condition.

**MISSOURI:** Temperatures varied from near normal in the central part of the State to 3° above normal in extreme northwest and the Bootheel. Precipitation was nonexistent to light.

Fieldwork: 6.1 days suitable. Corn 87% mature, last year 95%, normal 82%. Corn 35% harvested, last year 62%, normal 36%. Grain sorghum 75% mature, last year 81%, normal 78%. Grain sorghum 30% harvested, last year 44%, normal 35%. Soybeans 82% turning color, last year 85%. Soybeans 48% mature, last year 57%, normal 52%. Soybeans 15% harvested, last year 24%, normal 16%. Winter wheat 20% seeded, last year 32%, normal 21%. Fall plowing for spring planted crops 13% completed, last year 12%, normal 10%. Cotton 88% with open bolls, last year 98%, normal 81%. Cotton 8% harvested, last year 45%, normal 19%. Pastures in fair to good condition. Topsoil moisture supply short to adequate.

**MONTANA:** Temperatures were mild and ranged 2° below normal west to 2° above normal south central. Significant cooling occurred over much of State end of week. Strong winds occurred latter part of week. Precipitation fell over nearly all State with heaviest in west, southwest and northeast. An inch or more fell over scattered areas, mostly as rain. Highest 86° at Broadus, lowest 17° at Wisdom.

Topsoil and subsoil moisture short to adequate western half of State, short elsewhere. Days suitable for fieldwork: 6. Percent harvested compared with last year and normal: Corn silage 90, 90, 85; dry beans 85, 75, 75; potatoes 30, 25, 40; sugarbeets 5, 5, 20. Winter wheat planted 70, 85, 85. Winter wheat emerged 40%; condition fair. Stock water supplies short eastern half of State, mostly adequate elsewhere. Cattle and sheep moved from summer ranges 45%.

**NEBRASKA:** Precipitation: Dry first part of week, widespread rainfall over weekend ranging from trace in northwest to over 1.00 in. in southeast. Temperature: Slightly above normal.

Corn condition good; mature 80%, 98% previous year, 90% normal; harvested 8%, 30% last year and 12% normal. Soybeans good; shedding leaves 95%, 97% last year and 90% normal; harvested 30%, 40% previous year, 25% normal. Sorghum mostly good to excellent; ripe 70%, 96% previous year and 85% normal; harvested 5%, behind 50% last year and 25% normal. Wheat seeded 98%, 96% last year and 90% normal; emerged 80%, 75% last year. Dry edible bean harvest near completion. Sugarbeet harvest just underway. Topsoil moisture short to mostly adequate. Days suitable: 6.4.

**NEVADA:** Cooling trend continued with scattered showers northern areas. Temperatures averaged near normal early in period, below normal end of

week. Heavy frosts common northern part of State.

Heavy frosts slowed potato harvest main producing area. Alfalfa seed harvest about completed. Winter grain seeding making good progress. Most cattle down from summer range.

**NEW ENGLAND:** Temperatures: subnormal. Precipitation: mostly on 1st and 2nd. Many reports of rain totaling more than 1.00 in. Snow flurries at times in northernmost regions.

Fieldwork: 4.6 days favorable. Soil moisture: north, mostly surplus; south, adequate. Hay harvested: second crop 92%; third crop: 76%. Main potatoes: 60% harvested, good quality, variable yields. Apples: harvest full swing, fair quality. Vegetables: harvesting, good quality. Cranberries: no serious frost yet, excellent quality, fair to good prospects. Good conditions: corn, potatoes, vegetables, cranberries. Grazing: continued adequate.

**NEW JERSEY:** Temperatures averaged 6 to 8° below normal. Extremes: 34° at Newton on 4th and 80° at Cape May Court House on 1st. Rainfall averaged 0.88 in. north, 0.37 in. central and 0.39 in. south. Heaviest 24-hour total 0.98 in. at Charlotteburg 1st to 2nd. Estimated soil moisture, in percent of field capacity, averaged: 81 north, 68 central and 65 south. Four inch soil temperature averaged: 55 north, 59 central and 60 south.

Fieldwork: 6.1 days suitable. Topsoil moisture adequate to short. Below normal temperatures slowing late crop growth. Fall vegetable harvest active. Irish potato harvest in clean-up stage. Sweetpotatoes going into storages. Apple harvest continues active. Cranberry harvest advancing on schedule, color and quality excellent but size smaller than normal. Harvest of soybeans and corn for grain increasing. Preparation and planting of cover crops and grain active. Pasture growth limited by cool temperatures.

**NEW MEXICO:** Temperatures average 4° above normal. Rainfall occurred most areas.

Soil moisture remains in adequate supply most areas. Widespread rainfall continued to limit outdoor activities. Cotton remains in good condition. Hand picking of cotton underway with some limited machine harvest occurring. Ginning of cotton just beginning in the southern areas. Alfalfa fields in good condition, however, heavy morning dews and consistent rainfall continuing to limit harvest of good quality hay. Winter wheat seeding continuing in some limited areas. Corn in good condition with approximately 90% of the silage harvested and 20% of the grain harvested. Irrigated and dryland grain sorghum in good condition with combining just getting underway. Chile harvest continuing. Peanuts and sweetpotato harvest getting underway. Ranges in good condition most areas. Cattle, sheep in good condition with contracting still limited.

**NEW YORK:** Cold week with wet field conditions slowing fieldwork. Killing frost in most areas north of Mohawk River. Corn silage 27% harvested, 58% 1980, 62% average. Grain corn harvest started, 9% 1980, 6% average. Third cutting alfalfa 70% done, 74% 1980, 67% average. Dry beans 10 to 15% harvested, behind schedule. Wheat planting behind schedule. Vegetable harvest slowed, ended in frosted areas. McIntosh apples 90% done in west, 80% in Clinton County, 70% Hudson Valley. Cortland and Delicious apples being harvested all areas. Hudson Valley grape harvest complete. Delaware grapes harvest complete. Concord, Niagara grape harvests underway in Great Lakes growing region.

**NORTH CAROLINA:** Temperatures: Near normal in the east to 2° below normal in the west. Precipitation:

None in the southeastern counties to 1.20 at Hot Springs in the west.

Fieldwork: 6.3 days suitable. Soil moisture: 29% very short, 66% short, 5% adequate. Conditions: Pasture mostly fair to good; cotton, peanuts mostly good; soybeans fair to mostly good; sweetpotatoes fair to mostly good; apples, sorghum mostly good. Plantings: Wheat 9%, 1980 5%. Harvest: Cotton 22%, 1980 29%, 14% average; sweetpotatoes 47%, 1980 33%, 44% average; sorghum 60%, 1980 48%, 45% average; soybeans 1%, 1980 4%; burley tobacco 98%, 1980 96%, 93% average; corn for grain 81%, 1980 80%, 72% average; corn for silage 94%, 1980 93%; peanuts dug 28%, 1980 40%, 29% average; peanuts threshed 19%, 1980 26%, 20% average; apples 76%, 1979 65%, 63% average. Phenological stages: Cotton open bolls 98%, 1980 94%; corn matured 100%, 1980 99%; soybeans dropping leaves 18%, 1980 19%.

**NORTH DAKOTA:** Cool, wet weather prevailed except southwest which was dry with near normal temperatures. Precipitation ranged from 1.50 in. northeast to about 0.10 in. southwest. Temperatures varied from near normal southwest and south central to 8° below normal north central. Extremes: 81° northwest to 25° northeast.

Wet conditions delayed the drying of standing sunflower and corn thus slowing harvest. Harvest of other crops also slowed but still ahead of average pace. Several weeks favorable weather needed to complete harvest. Most areas still awaiting a hard frost before beginning sunflower and corn harvest. An average of 4.6 days suitable for fieldwork. Soil moisture levels improved except in dry southwest where no significant moisture received. Thirty-four percent of State short or very short of topsoil moisture; last year 33, average 49. Sunflower combining 9% completed, last year 9, average 19. Progress through 4th with last year and average for other crops; flax combining 83, 53, 75; potato digging 81, 62, 69; sugarbeet lifting 13, 5, 12; dry bean combining 85, 57, 79; soybean combining 30, 25, 42; and corn combining 12, 4, 22.

**OHIO:** High temperatures averaged 5 to 13° below normal. Lows ranged to 8° below normal. First frost occurred; below freezing temperatures in west on 3rd and northeast on 4th. Light rain several days. Totals mostly under 0.10 in. south but over 0.75 in. north. Bare soil temperatures at 4 in. averaged in mid-50's to around 60°.

There has been only slight frost damage to crops so far. Another 2 weeks needed for much of the corn and soybean acreage to be safe from a freeze. Harvested corn has had moisture content in mid-20's. Much mature corn still too wet to store. Dry down has been slow. Harvested beans have been small and 12 to 15% moisture. Wheat planting has been slowed by the late corn and soybean harvest. Corn mature 55%, 95% 1980, 90% average. Corn harvested 7%, 20% 1980, 10% average. Soybeans shedding and beyond 70%, 98% 1980, 90% average. Soybeans mature 40%, 85% 1980, 75% average. Soybeans harvested 10%, 35% 1980, 20% average. Corn silage harvested 55%, 90% 1980, 80% average. Wheat planted 25%, 50% 1980, 40% average. Days favorable: 5.5. Pasture condition fair to good. Soil moisture 21% short, 66% adequate, 13% surplus.

**OKLAHOMA:** Rainfall ranged from 0.02 in. east central and southeast to 0.66 in. west central division. Temperatures averaged 3 to 6° above normal.

Cool nighttime temperatures and scattered rains prevailed. Wheat planted: 60%, 30% 1980, 45% average. Wheat up to stand: 30%, 10% 1980, 10% average. Sorghum mature: 85%, 80% 1980, 75% average. Sorghum harvested: 25%, 35% 1980, 20% average.

age. Cotton open bolls: 65%, 80% 1980, 50% average. Cotton harvested: 5%, 5% 1980, 5% average. Days suitable for fieldwork: 6.5.

OREGON: Rainfall 3.20 in. along coast; 0.40 in. south central; none in southeastern. Temperatures 1 to 3° above normal west; near normal east.

Wheat seeding 31% complete; 46% last year; crop emerging. Crusting in some areas; reseeding pending. Ryegrass being seeded. Hop harvest complete. Silage harvest and late haying continues. Pears, apples and prune harvest continues. Spraying and cultivation in strawberries. Cranberry harvest started; good color, variable size, some fruit rot. Filberts dropping, harvest starting. Canary sweet corn finishing up; pickling cucumbers complete, beets continue. Potato harvest now in all areas. Onion harvest hampered by rains in west. Livestock good condition. Range and pastures greatly improved with rains. Cattle moving off range to stubble and home ranches.

PENNSYLVANIA: Coolest week since mid-April as temperatures averaged 4 to 10° below normal. Coldest beginning and weekend with brief warmup mid-period. Daytime highs mostly 50's and 60's, and nighttime lows 30's and 40's with extremes 27 and 79°. Frost and freeze 29th and 4th mountainous areas. Rainfall primarily mid-period totaled from 2.00 to 2.50 in. north central and northwest, 0.50 to 1.50 in. central, and less than 0.50 in. south. Windy with snow flurries northern mountains 2nd.

Four days suitable. Soil moisture mostly adequate. Activities included harvesting of potatoes, corn for grain and for silage, hay crops, cabbage, tomatoes, and apples; fall plowing; planting winter wheat and barley. Potato harvest 78% complete, 81% last year. Corn for grain 68% mature, 6% harvested compared with 67% mature, 12% harvested 1980 and 52% mature, 6% harvested average. Ensilage corn harvest at 74%, 77% last year. Barley planting 81% complete, wheat planted 74%. Last year 78 and 68% respectively. Third cutting alfalfa complete, 93% in 1980; fourth cutting 43% compared with 55% last year. Fall plowing 83%, ahead of the 79% complete last year. Hay quality rated fair to good by most reporters. Feed from pasture average.

PUERTO RICO: Island average rainfall 1.32 in. or 0.55 in. below normal. Temperatures averaged 83 to 81° on Coasts and 78° Interior Divisions. Extremes: 95 and 59°.

SOUTH CAROLINA: Temperatures averaged near normal although much colder weekend included some scattered frost. Continued dry with only slight rainfall in mountains.

Soil moisture short to very short. Days suitable for fieldwork: 6.0. Corn 94% harvested, 90 last year, 87 average. Cotton condition good; 88% open bolls, 100 year ago, 89 average; 26% harvested, 39 year ago, 21 average. Soybean condition fair, needing rains; 59% leaves turning color, 55 year ago, 50 average; 25% shedding leaves, 31 last year, 26 average; 10% mature, 7 year ago, 6 average. Peanuts 47% harvested, 22 last year, 35 average. Apples 91% harvested, 84 year ago, 87 average. Winter grazing 32% planted, waiting for adequate moisture, 34 last year, 42 average; 17% emerged, 18 last year. Fall cucumbers 41% harvested, 12 last year; fall snap beans 16% harvested, 21 year ago.

SOUTH DAKOTA: Precipitation widespread. Mainly during the weekend. Most amounts under 1.00 in. Temperatures near normal. Extremes: 92 and 16°. Topsoil moisture supplies mostly short, adequate in parts of northwest, critically short in band

from southwest to northeast and in parts of central and north central. Six days suitable. Corn silage 88% cut. Range and pasture condition 63%. Soybeans shedding leaves 96%, 1980 97%, average 98%. Soybeans harvested 45%, 1980 42%, average 32%. Corn dented 94%, 1980 100%, average 100%. Corn mature 79%, 1980 94%, average 99%. Corn harvested 13%, 1980 14%, average 13%. Sorghum mature 89%, 1980 81%, average 81%. Sorghum harvested 19%, 1980 21%, average 21%. Sunflowers mature 84%, 1980 86%, average 86%. Sunflowers harvested 16%, 1980 18%, average 13%.

TENNESSEE: A cold front came through during the later part of the week, bringing some rain. Temperatures were near normal in the west and about 5° below normal in the middle and east.

Fieldwork: 5.8 days suitable. Soil moisture short. Cotton open bolls 71%, 1980 93%, average 54%. Cotton picked 6%, 1980 48%, average 17%. Soybeans sheddings leaves 37%, 1980 56%, average 40%. Soybeans mature 12%, 1980 22%, average 12%. Soybeans harvested 3%, 1980 5%, average 4%. Some stem canker was found. Corn mature 92%, 1980 94%, average 85%. Corn harvested 32%, 1980 47%, average 23%. Yields from earlier harvest acreage reported very good. Tobacco harvest virtually all complete. Burley stripping 24% complete, 1980 15%, average 19%. Dark-fired tobacco 10% stripped, 1980 9%. Dark air-cured tobacco 29% stripped, 1980 10%. Lespedeza hay 89% harvested, 1980 91%, average 87%. Fall plowing 60% complete, 1980 56%, average 62%. Wheat seeding 20% complete, 1980 31%, average 33%. Oats 44% sown, 1980 57%, average 55%. Barley seeding 42% complete, 1980 57%, average 55%. Pasture conditions continue to deteriorate due to lack of moisture and rated fair condition. Cattle in good condition and still on pastures.

TEXAS: Weather: First part of week afternoon thundershowers East, South Texas; weak tropical disturbance Western Gulf. Wednesday cold front, scattered thunderstorms West Texas; weakening South Texas. Temperatures near 3° above normal Valley; 5 to 6° above normal elsewhere. Rainfall near normal western half; 0.25 in. below normal South Texas; 0.50 to 0.75 below normal elsewhere.

Crops: Warm, dry weather ideal conditions most field operations. Weather also helped cotton, sorghum maturity High Plains. Cotton harvest full swing Blacklands, dry, open weather prevailed. Mild weather helped cotton maturity High Plains; some early fields defoliated. Harvest winding down southern half State; stalk destruction good progress Coastal Bend. Statewide, cotton condition 45% excellent; 41% good; 15% fair; and 1% poor. Sorghum harvest slow progress northern half State, since grain moisture level high many areas. Headworms problem Panhandle. Reported condition across State 26% excellent; 64% good; 9% fair; and 1% poor. Corn harvest good progress. Good yields across Panhandle; lodging reduced yields in areas. Statewide, reported condition 36% excellent; 49% good; 13% fair; and 2% poor. Small grain planting full swing across State. Early wheat good stand Northern High Plains. Short moisture conditions slowed growth South Central Texas stands. Some small grain fields dusted in, especially Low Plains, Cross-Timbers. Peanut harvest good progress; weeds, grasses slowing harvesting operations Edwards Plateau. Soybean harvest active High Plains. Beans turning color. Coast. Sunflower harvest well ahead schedule; defoliation, harvesting activities active High Plains. Cotton open bolls 55%, 62% 1980. Cotton harvested 17%, 27% 1980, 20% average. Sorghum turning color 96%, 94% 1980. Sorghum mature 81%,

87% 1980. Sorghum harvested for grain 75%, 77% 1980, 73% average. Wheat planted all purposes 51%, 48% 1980, 52% average. Wheat emerged 20%, 31% 1980. Corn for grain harvested 75%, 78% 1980, 69% average. Peanuts harvested 26%, 25% 1980, 36% average. Soybeans harvested 8%, 18% 1980, 9% average. Sunflowers harvested 41%, 33% 1980, 28% average. Oats planted 41%, 37% 1980, 44% average.

**Commercial vegetables:** Rio Grande Valley, tomatoes, green peppers, cauliflower, cabbage progressing well. Irrigation activity picked up. Citrus crop expected to be good. Coastal Bend, cucumbers, tomatoes, other fall vegetables developing well. Harvest of early cucumbers underway. San Antonio-Winter Garden area, conditions good, irrigation beginning. Cabbage, tomatoes, cucumbers making good growth. Uvalde pickle harvest active. East Texas, sweetpotato harvest resumed. Later planted sweetpotatoes showing improved size, quality. Trans-Pecos region, harvest of squash, chile peppers, tomatoes, beans active. Bell peppers making excellent growth. High Plains, harvest of carrots, peppers continued, light volume. Supplies of fall vegetables tapering off. Pecans continue to mature, most splitting shucks. South Texas light harvest expected soon.

**Range and livestock:** Dry, hot conditions have slowed growth of range, pastures. Despite reduction in growth, grazing adequate and livestock in good condition. Hay cutting good, supplies should be adequate for fall, winter feeding. With timely rainfall, small grains expected to provide excellent grazing. Livestock disease, insects problems minimal.

**UTAH:** Few isolated very light showers and thunderstorms forepart period. More general precipitation over weekend. Accumulated amounts moisture generally moderate to heavy over weekend. Cooling trend temperatures a latter part period. First killing frost of season several localities.

Storms at week's end halted fieldwork. Six days suitable during the week. Soil moisture approaching adequate. Winter wheat seeding 80% complete. Corn for grain virtually all safe from frost. Corn for silage 65% harvested. Third crop alfalfa hay 90% made. Dry onions 83% in storage. Apple 75% picked. Potato harvest progressing, 52% already dug. Cattle and sheep movement from high grazing areas continues. Gathers momentum. Over 50% on winter ranges.

**VIRGINIA:** Warm and dry weather for the end of September. A cold front moved through the State the night of the 1st with rainfall amounts generally 0.50 in. or less. Cold air behind the front cooled temperatures to the 30's and 40's at night and 50's and 60's during the day over the weekend. Scattered frost was reported at some western and northwestern sections on 4th.

Farmers took advantage of favorable weather to harvest crops and make small grain plantings. Topsoil moisture: 84% short, 16% adequate. Days suitable for fieldwork: 5.8. Corn now 98% mature, 94% 1980. Corn for grain 49% harvested, 50% 1980, 47% average. Corn silage harvest 86% complete, 81% 1980. Flue-cured tobacco 95% harvested, 89% 1980, 93% average. Fire-cured tobacco harvest virtually complete, 94% 1980, 98% average. Burley harvest 97% complete. Sun-cured tobacco 94% harvested. The 1981 peanut crop harvest has begun, 28% dug, 13% combined, compared with 6% dug, 3% combined in 1980 and 13% dug, 5% combined average. Soybeans approaching maturity, 7% harvested, 2% 1980 and average. Apple crop 58% picked, 39% 1980, 49% average. Winesap and Stayman harvest underway. Sweetpotatoes 48% dug, 19% 1980, 34% average.

Cotton harvest not yet begun. Small grain plantings made good progress. Wheat 9% seeded, 5% 1980, 8% average. Barley 24% seeded, 13% 1980, 19% average. Winter oats 37% planted, 25% 1980, 26% average. Pastures rated in good to excellent condition except around and west of Roanoke where they are poor.

**WASHINGTON:** **West:** Entire week was generally cloudy, cool, and wet. Average temperatures were near to a little below the normal. Precipitation totals were about 1.00 to 2.00 in. above normal. Due to the poor weather, harvesting activities have slowed. Warm weather crops ripening slow. Crops being harvested include sweet corn, carrots, seed potatoes, and silage corn. Sweet corn being processed. Local hay supplies adequate with some eastern hay being shipped in.

**East:** Variable sky conditions but average temperatures hanged from 3 to 7° below normals. Most of the rain fell early in the week with totals generally 0.20 to 0.40 in. above normals. Golden Delicious apple harvest near completion, Red Delicious just underway. D'Anjou pears continue to be harvested. Harvested in various stages were dry bean, dry pea, lentil, sweet corn, carrots, grapes, and field corn. Fall seeding increased to 66% complete. Emergence in the early seeded areas has been good. Range and pasture feed adequate. Fourth cutting of alfalfa was being done.

**WEST VIRGINIA:** Temperatures below normal. High 85°, low 28°. Precipitation below normal. Range: trace to 0.99 in. Scattered frost.

Soil moisture short to adequate. Days suitable for fieldwork: 4.8. Main activities, corn silage, hay harvesting, general maintenance. Corn good to fair; 28% harvested, 30% in 1980. Tobacco, 98% harvested, 97% in 1980. Hay fair to good, 3rd cutting 81% complete, 84% in 1980. Pasture fair to good. Fruit poor to fair. Fall sowing: wheat 60% complete, 40% in 1980; barley 61% complete, 50% in 1980.

**WISCONSIN:** The growing season came to a halt as widespread frost occurred on the 2nd and 3rd. Cool, rainy weather prevailed during the week. Temperatures averaged 6° below normal. Highs were mostly in the 60's and lows were in the 20's. High temperature of 75° was reported in Madison on 1st. Baldwin was the cool spot in the State, reporting 21° on 2nd. Rainfall was plentiful as precipitation fell widely across the State on three separate days. Most districts reported rainfall in the range of 0.75 to 1.50 in.

Fieldwork: 4 days suitable. Silo filling progressed as much as weather conditions allowed. Silo filling 40% complete, 39% 1980, 59% average. Most of the State corn crop was dented hard enough to be safe from frost. Corn 92% safe from frost, 100% 1980, 95% average. About 2% of the corn crop has been harvested for grain, 5% 1980, 3% average. Farmers harvesting high moisture corn, but it will be awhile before full scale harvesting begins on the corn grain harvest. About 1% of the State soybean crop harvested, 9% 1980, 5% average. Soybeans look especially good in the west central crop reporting district. The potato and apple harvests continuing, although the wet weather slowed progress. Pastures in good shape for this time of the year and reported at 91% of normal, 99% 1980, 83% average. Topsoil moisture supplies were rated 4% short, 57% adequate and 39% surplus.

**WYOMING:** Temperatures above normal except in

Snake and Big Horn Drainages. Many stations well into 80's with highest temperatures 89°. Coolest temperatures well below freezing many locations signaling end of growing season. Coldest 19°. Significant precipitation spotty coming mostly from widely scattered thunderstorms or orographic causes. Greatest amount 0.50 in.

Topsoil moisture short 72% State. Subsoil moisture short 78% State. Average 7 days suitable for fieldwork. Winter wheat seeded: 95%. Winter wheat emerged: 80%; year ago 85%;

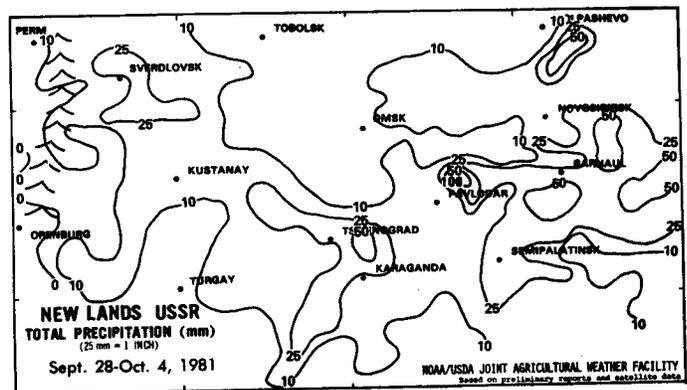
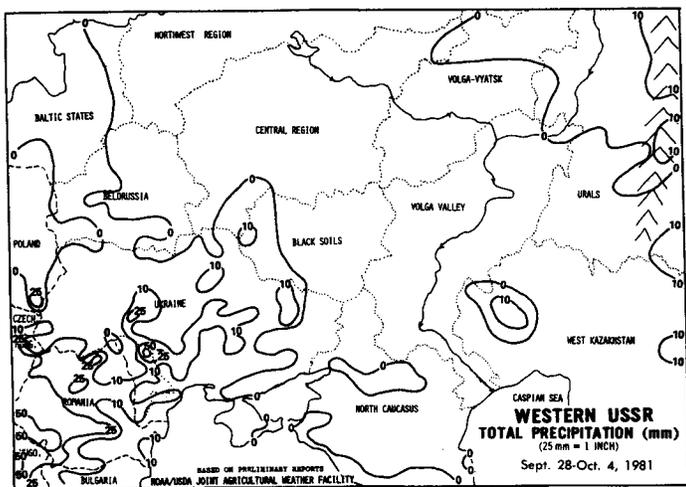
normal 83%. Stands fair to good. Potatoes harvested: 40%; year ago 80%; normal 70%. Sugarbeet harvest starting; year ago 5%, normal 21%. Dry beans windrowed: most; year ago 90%. Dry beans combined 90%; year ago 80%; normal 86%. Corn for grain dented: 50%; year ago 55%; normal 39%. Corn for grain mature; 40%; year ago 40%; normal 61%. Corn for grain harvested: 10%; year ago 15%; normal 17%. Contracting and marketing of livestock behind last year.

## International Weather and Crop Summary

### HIGHLIGHTS

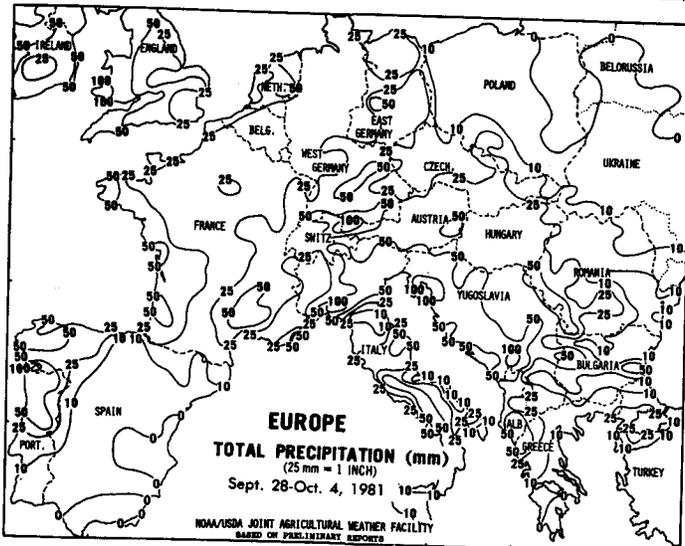
September 28-October 4, 1981

- USSR:** Favorable harvest weather in European USSR; rainier than normal in the New Lands.
- EUROPE:** Precipitation lessens; conditions favorable for winter grains.
- CANADA:** Wet weather in eastern Canadian Prairies; dry in west; harvest nears completion.
- MEXICO:** Rains replenish reservoirs but slow harvesting of summer crops.
- SOUTH AMERICA:** Beneficial rains in Minas Gerais and Parana; drier in Rio Grande do Sul; favorable rains in some wheat areas of Buenos Aires.
- EASTERN ASIA:** Beneficial rainfall in some winter grain areas.
- AUSTRALIA:** Wet weather in southeast; persistent dry conditions in southern Queensland; scattered showers over southwestern Australia.
- SOUTHEAST ASIA:** Below normal rainfall continues in Thailand's central Plains; welcome rains elsewhere.
- SOUTH ASIA:** Generous rains dramatically improve winter grain sowing conditions.

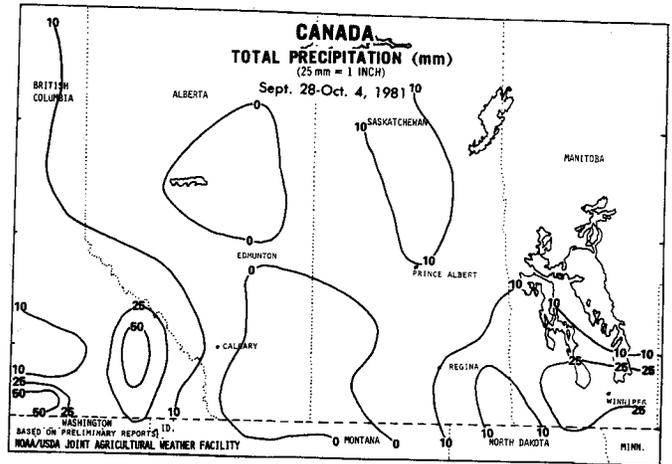


USSR: Most of European USSR remained warmer and drier than normal for the second consecutive week. Harvesting of row crops should have advanced rapidly, while newly sown winter grains have adequate moisture from rains in mid-September. Northern and eastern crop areas had some freezing temperatures, but warm daytime

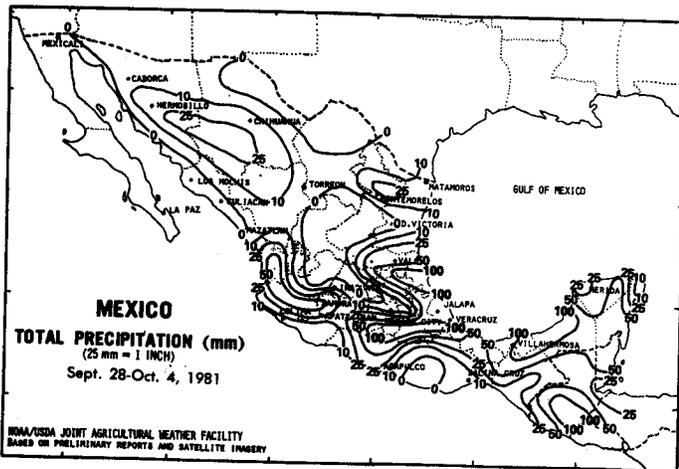
conditions allowed winter grains to continue growth. In the New Lands, wet weather persisted in many crop areas, especially in the east. Late harvesting of spring grains was disrupted, but the above-normal precipitation will help replenish soil moisture for next spring. Generally below-normal temperatures kept evaporation rates low. In cotton-growing areas to the south, light frost occurred, but nearly all of the crop should be safe from damage by now.



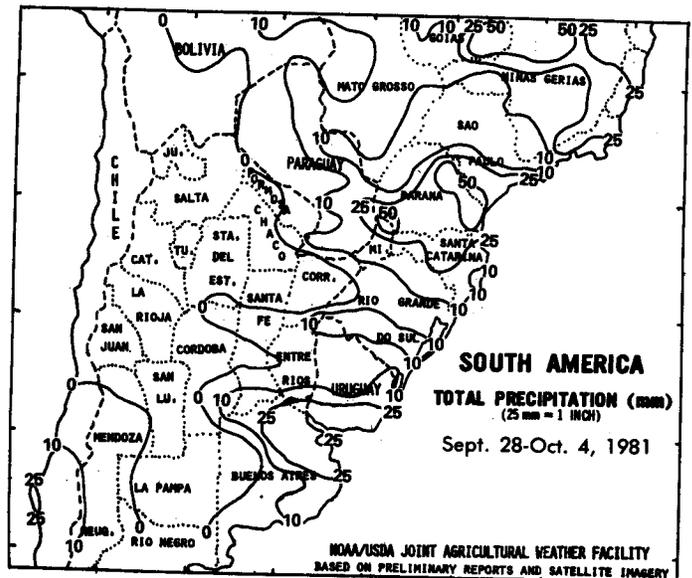
**EUROPE:** Precipitation slackened over much of Western Europe, but above-normal rains continued in England. Favorable conditions for winter grain growth existed in nearly all areas. Parts of some Mediterranean countries remained somewhat too dry for sowing, but much time remains before the crop must be sown. Moderate rain returned to southern portions of Eastern Europe, disrupting the harvest of spring-sown crops. Temperatures stayed slightly below normal in the west and somewhat above normal in the east.



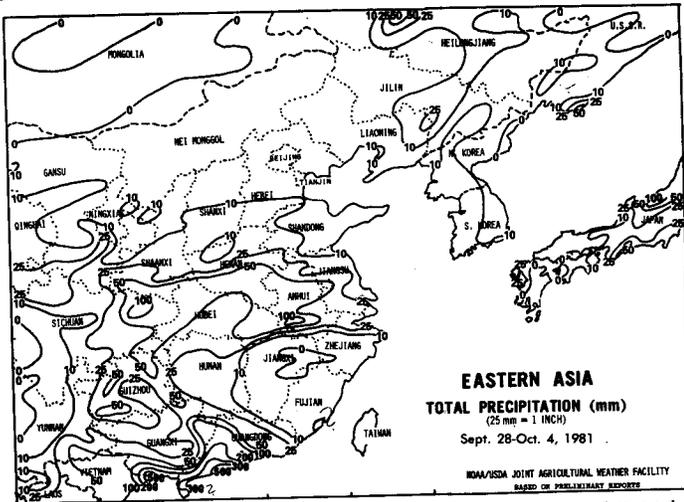
**CANADA:** Scattered showers continued over grain areas of Manitoba and southeastern Saskatchewan. Although amounts were generally lighter this week, some delays in final harvest work may have occurred. Western grain areas of Saskatchewan and southern Alberta received little precipitation, allowing the grain harvest to near completion with little delay.



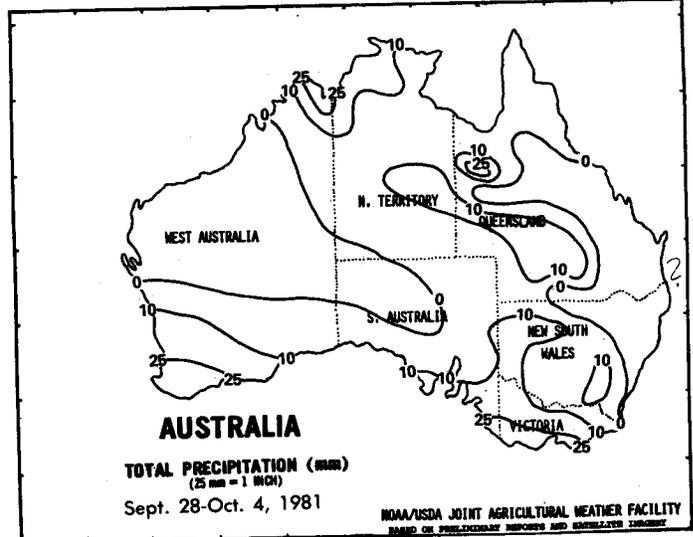
**MEXICO:** Rains helped replenish reservoirs in the northwest but slowed harvesting of field crops in several major agricultural areas. The harvesting of cotton, soybeans, and corn was slowed by scattered showers in parts of the northwestern, northcentral, and southern Plateau. Heavy rains drenched some eastern coffee and sugarcane districts, while in contrast, prolonged dry weather continued further north in citrus orchards around Cd. Victoria. Most west coast vegetable areas were sunny and warm, conducive for growth of the fall crop.



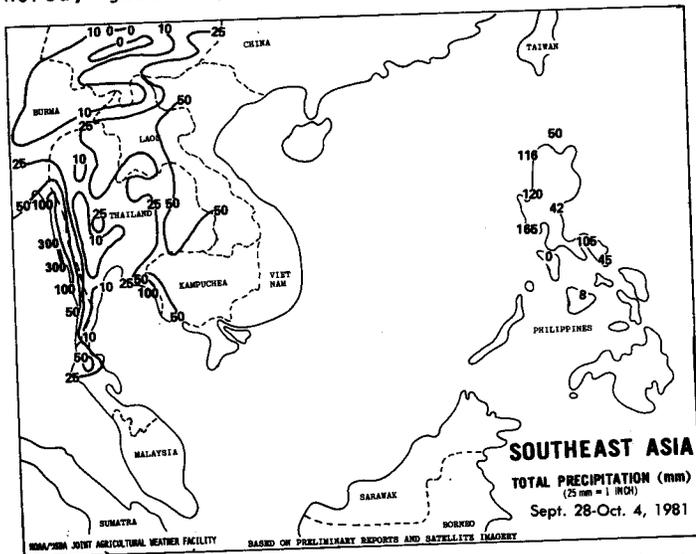
**SOUTH AMERICA:** Wet weather continued in most of the coffee areas of Minas Gerais and Parana, while modest rain fell on coffee grown in Sao Paulo. A drier weather pattern occurred further south in Santa Catarina and Rio Grande Do Sul. Soil moisture, although not replenished completely, has improved in most areas, allowing corn and soybean planting to take place. In Argentina, beneficial rains fell on wheat in southeastern and extreme northern Buenos Aires early in the week. However, wheat in southwestern Buenos Aires, eastern Cordoba, and southern Santa Fe continues to be stressed by dry weather, thereby reducing crop prospects. Temperatures were near normal in Brazil and below normal in Argentina.



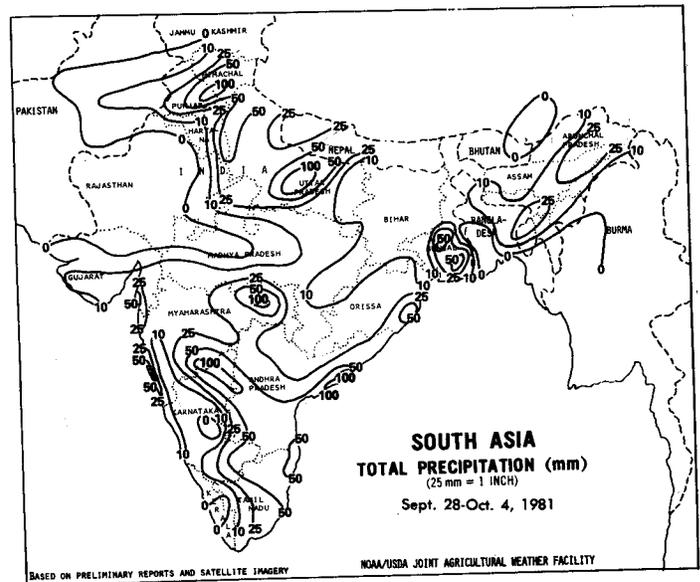
**EASTERN ASIA:** A slow-moving front dumped beneficial rainfall over a large portion of China's winter grain belt. Harvesting of spring-sown crops was disrupted, but the moisture improved conditions for sowing winter grains. Totals tapered off to the north, and only 10-15mm fell in northern Henan, southern Hebei, and western Shandong. However, even those amounts should allow sowing to begin. Most of Hebei and Shandong remained too dry. Much of the Manchurian Valley continued to receive above-normal rainfall, and sub-freezing temperatures early in the week curtailed late crop growth. Eastern double-crop rice areas dried out during the week, but western areas turned wetter. Persistent rains accumulated totals in excess of the normal for the whole month of September, and created conditions unfavorable for maturing late rice. In South Korea, generally below-normal rain fell.



**AUSTRALIA:** A moderate storm system moved into South Australia over the weekend, producing widespread rain over the southeastern portion of South Australia, the southern half of New South Wales, and all of Victoria. This increase in rainfall benefited both wheat and barley. In contrast, grain areas in northern New South Wales and southern Queensland remained dry and the wheat crop, normally in its reproductive stage of growth, has been stressed for several weeks, dimming crop prospects. Scattered showers fell on grain areas of West Australia, maintaining favorable growing conditions for wheat in the south.



**SOUTHEAST ASIA:** Wet weather occurred throughout most areas of Southeast Asia. Much needed rain fell on eastern Thailand, Laos, and Burma. These areas received little rain during the past several weeks and the recent rains improved growing conditions for crops, especially rice, and increased moisture inputs to reservoirs for later use in irrigation during the dry season. The dry season begins in late October and ends in early June. Thailand's Central Plains received below-normal rainfall again this week, unfavorable to rice and limiting moisture inputs to reservoirs. Heavy rains continued along the western Thailand border.



**SOUTH ASIA:** Beneficial rains fell over much of India's winter grain belt as westerly winds turned a tropical weather system northward into the mountains. Rainfall amounts ranging from 20 to over 100mm occurred in Uttar Pradesh, eastern Haryana, and much of Punjab. The moisture dramatically improved winter grain sowing prospects, and only southwestern parts of the belt remained too dry. Monsoon activity appears to be limited to the southern half of India, having withdrawn about 2 weeks early from Bangladesh and northeastern India. The early withdrawal from this area will probably not cause significant problems for summer crops. Generous rains in southern India maintained favorable crop conditions.

