

# WEEKLY WEATHER AND CROP BULLETIN

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

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

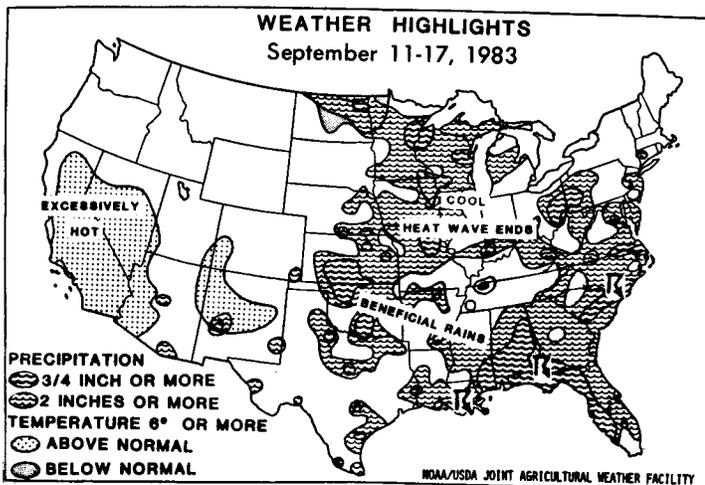
Volume 70, No. 38

WASHINGTON, D.C.

Sept. 20, 1983

## National Weather Summary

September 11 to 17



High temperatures climbed to well over 100° throughout central California. Scattered showers continued in parts of the central Plains and spread into Texas. Showers and thunderstorms covered the Southeast from the mid-Atlantic to Florida. The rain was very beneficial over most of this area but some small areas received only got light showers.

WEDNESDAY...Light, occasionally moderate showers continued along the east coast from Delaware to Florida but clearing began during the day. Another cold front pushed into the northern and central Plains and triggered widespread beneficial showers from Kansas and Colorado to North Dakota and eastward into Wisconsin and Illinois. Cool weather continued over most of the Nation but the interior of California again topped the 100° mark.

THURSDAY...A cold front moved into the eastern Great Plains and triggered showers and thunderstorms along and ahead of a line from west-central Texas to eastern Oklahoma, to Minnesota and eastern North Dakota. Showers extended through the Great Lakes region and the Ohio Valley. Cool weather covered most of the Nation, retarding crop development across the Corn Belt.

FRIDAY...Cool rain covered the lower Great Lakes, the Ohio Valley, and the area from the central Appalachians to southern New England. Light showers spread over Florida, the gulf coast, and the southern Plateau. Early in the morning temperatures were in the thirties over parts of the northern Plains, but high temperatures reached the high eighties along the eastern slopes of the Rockies.

(continued on p. 19)

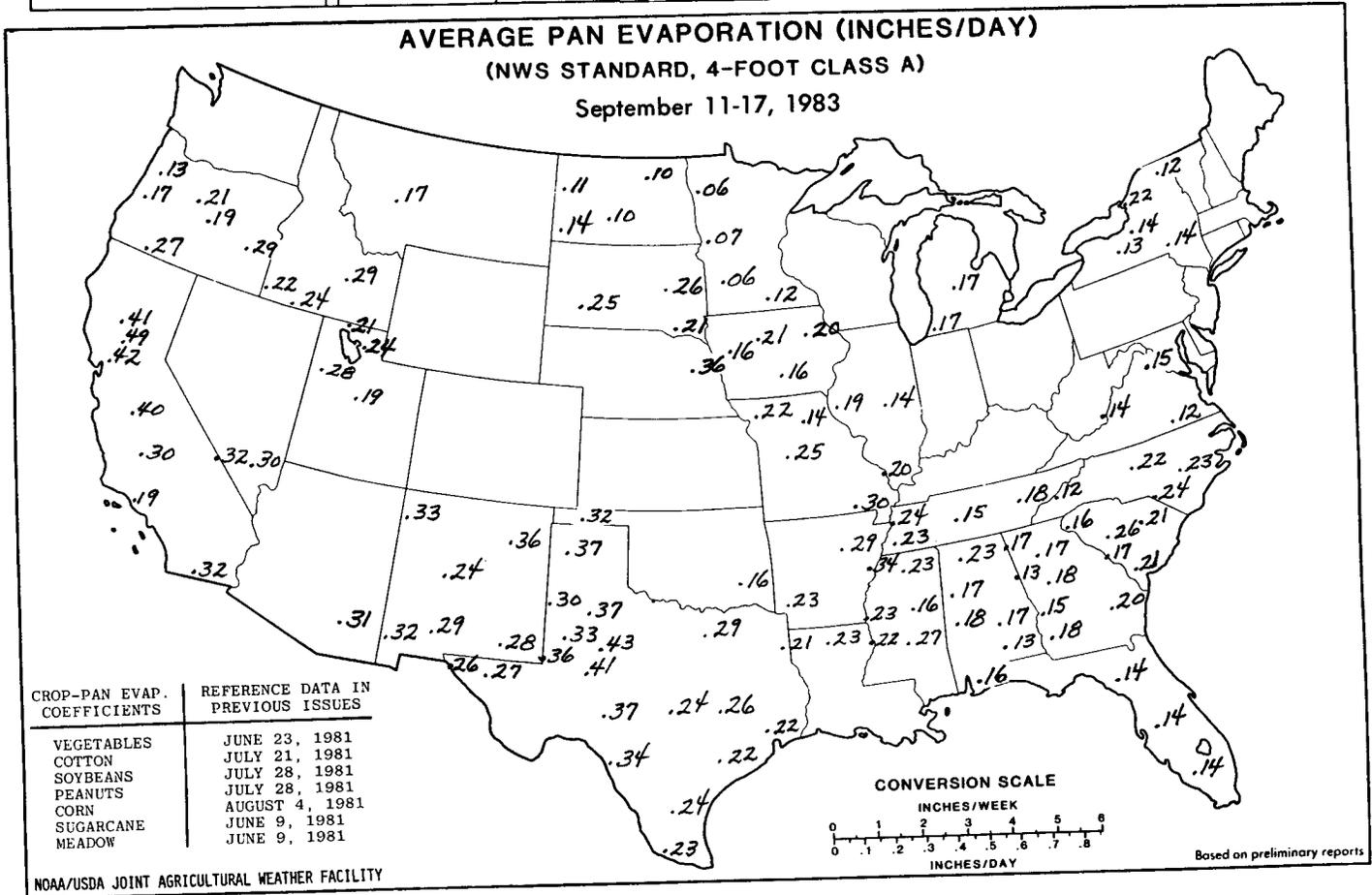
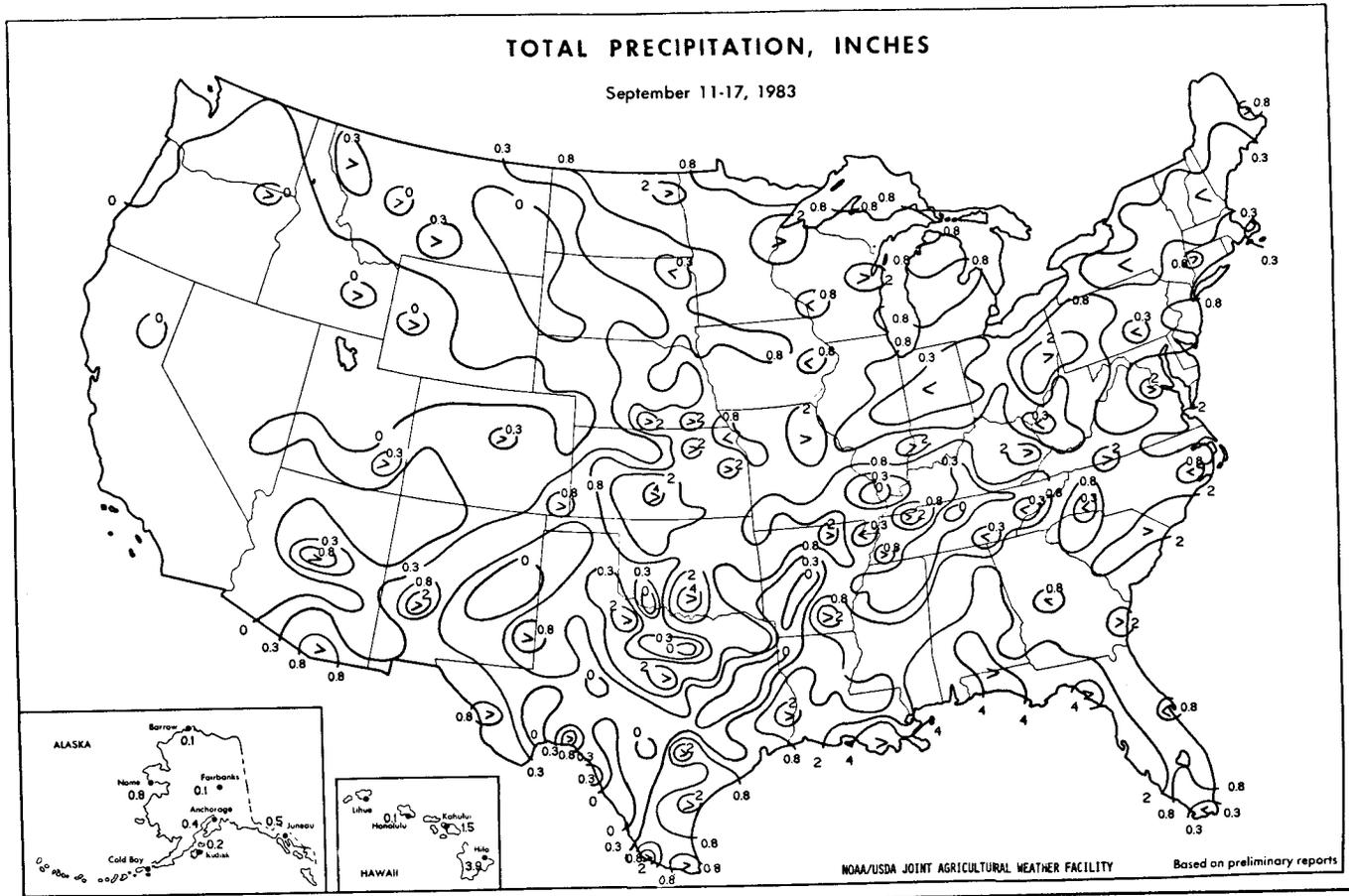
**HIGHLIGHT:** A drastic change in the weather patterns ended the heat wave in the eastern United States. Average temperatures for the week were 5-7° cooler than normal from the upper Mississippi Valley to the northern Plains and across the Great Lakes. Beneficial rains fell in many areas east of the Rockies, especially in the Southeast, and the central and southern Plains. However, cool weather slowed crop development across the Corn Belt.

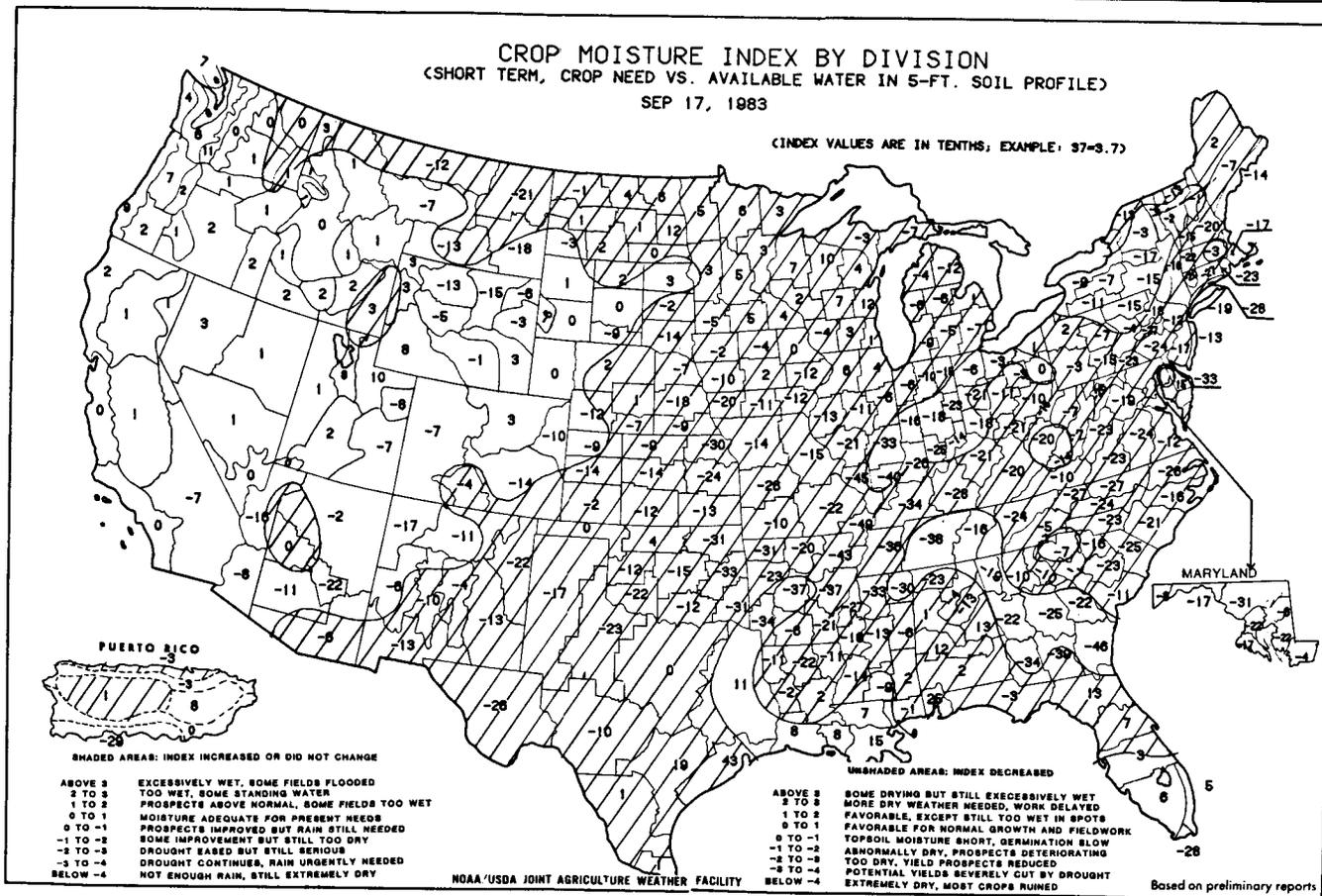
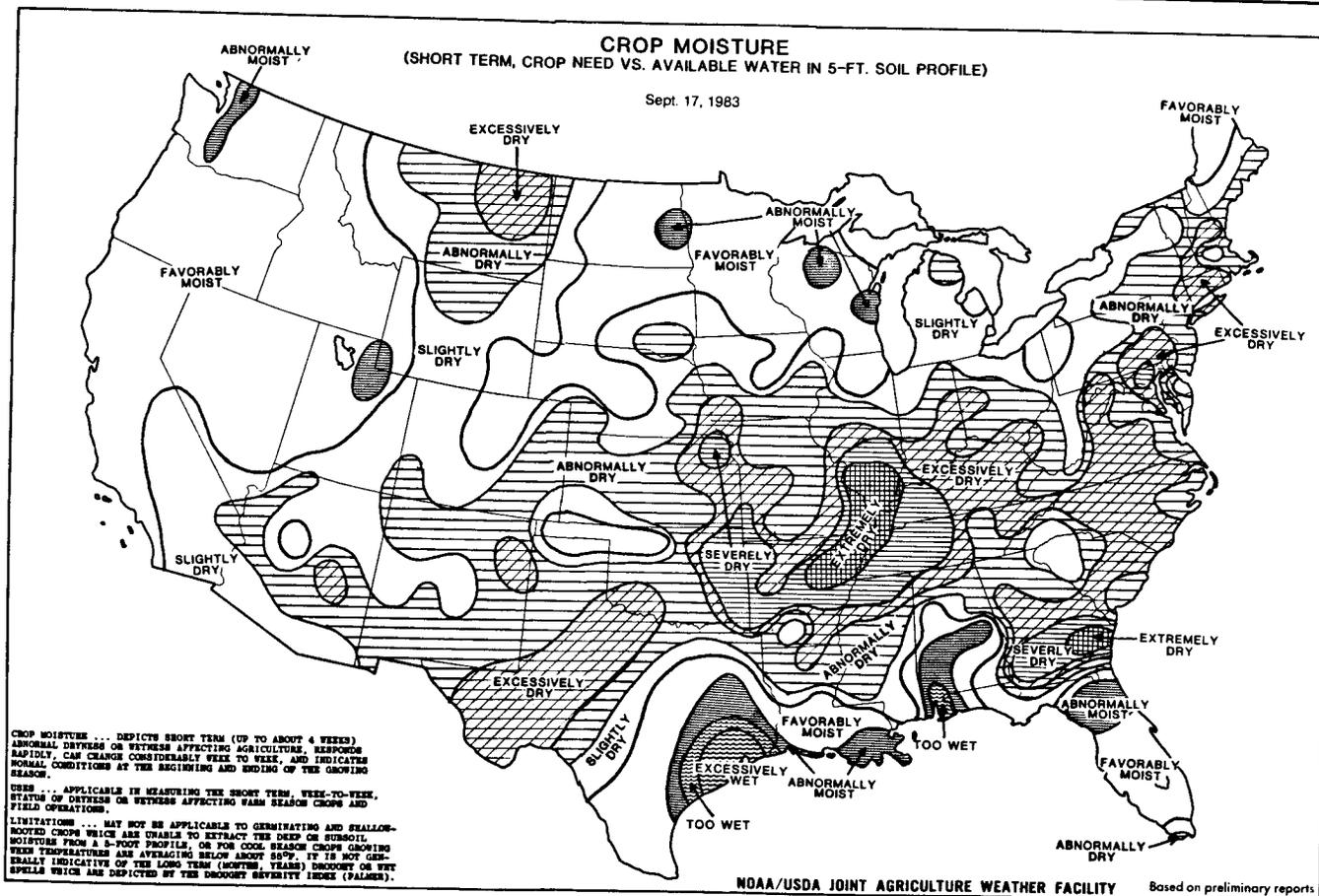
SUNDAY...A dramatic cooling was taking place in much of the Nation. However, very warm air hung over the east coast and record high temperatures were recorded from North Carolina to New England. Showers were scattered from the eastern Great Plains to the Appalachians. Some moderate showers were isolated along a line from central Pennsylvania to eastern Kentucky and to northeastern Kansas. Moderate to heavy showers and thunderstorms fell along the southern and central gulf coast.

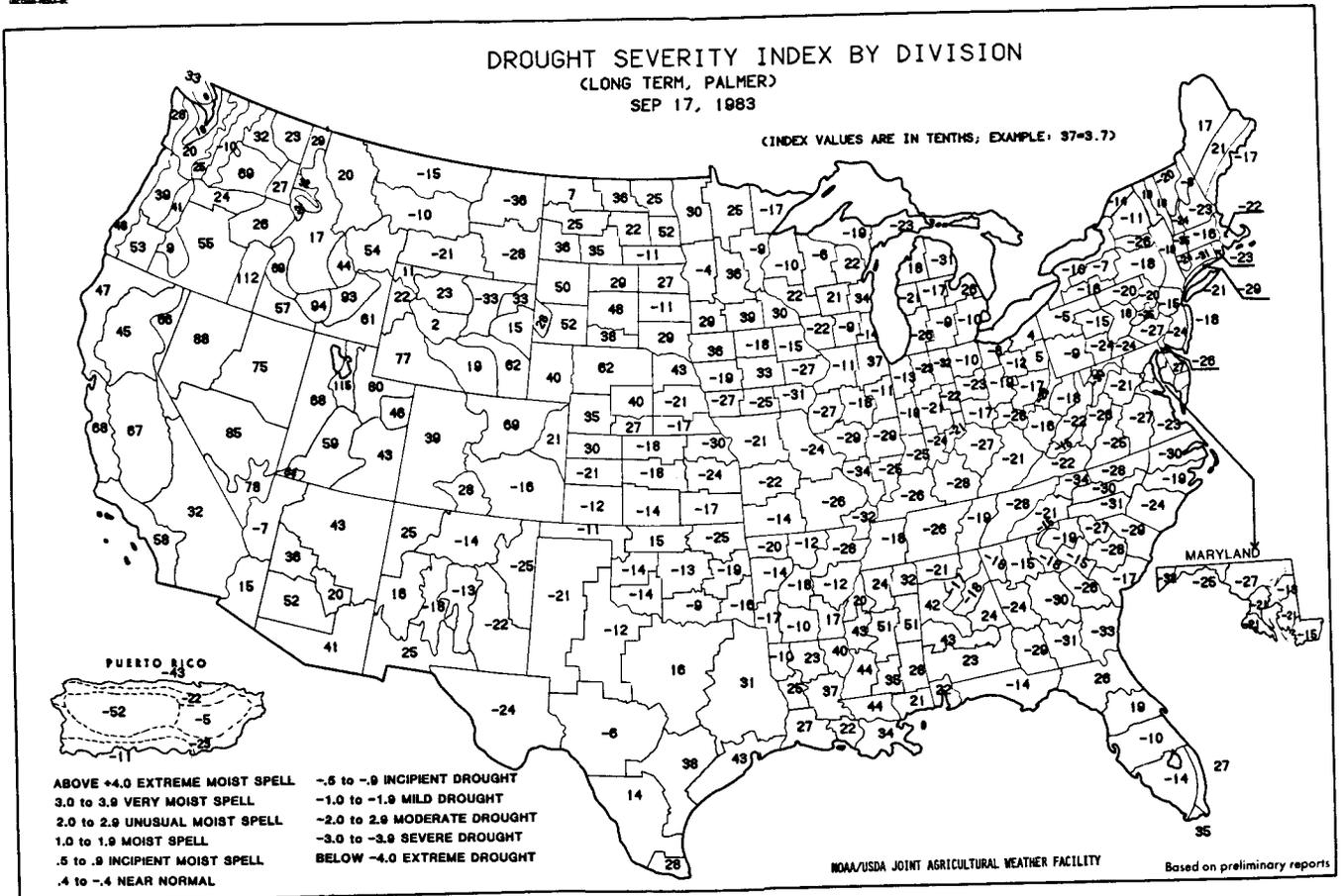
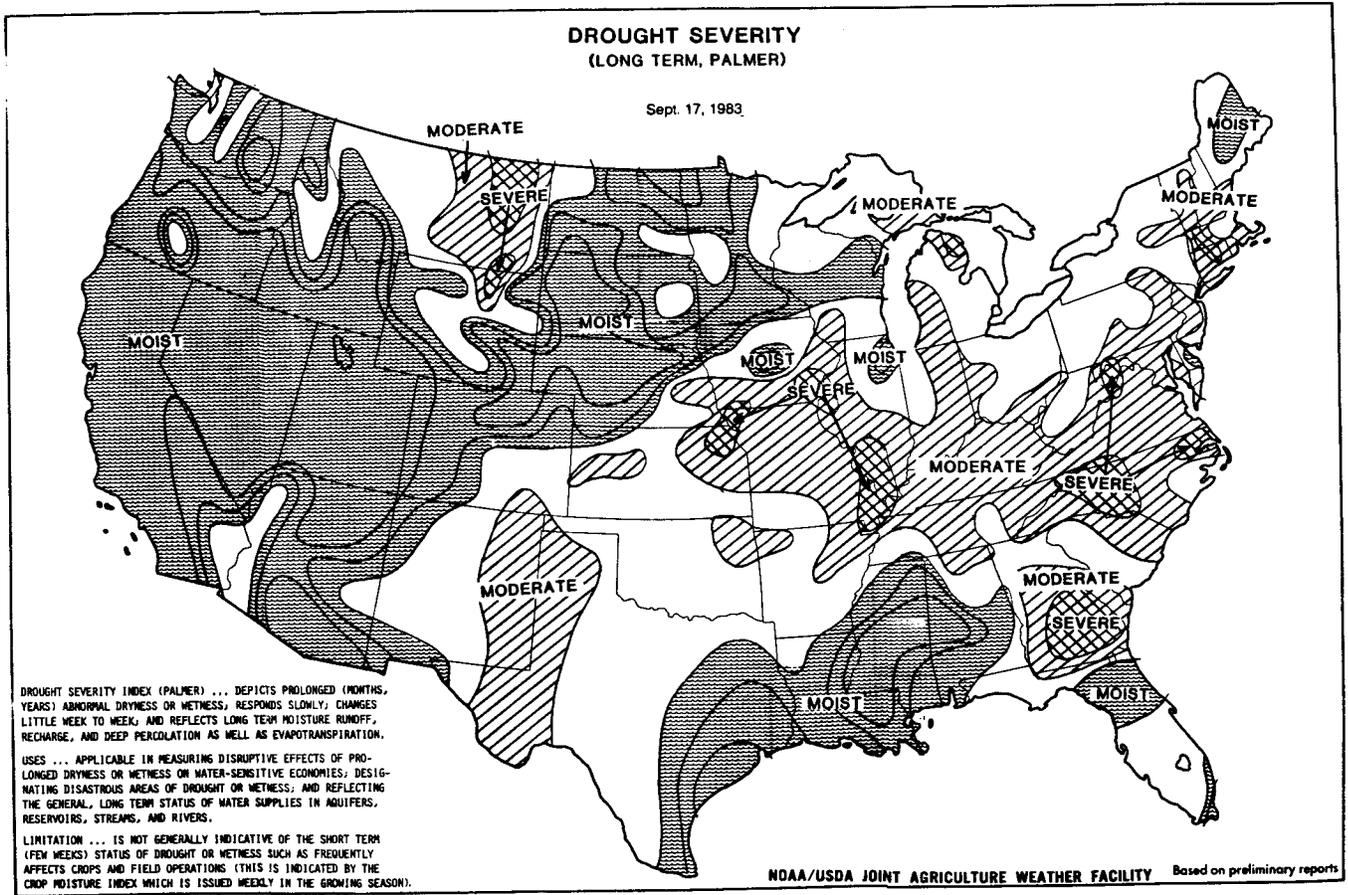
MONDAY...Unseasonably warm temperatures lingered in the middle-Atlantic coast region but fall-like weather covered the northern Rockies, the northern and central Plains, and the Northeast. Showers were scattered from the central and southern Plains to southern New England. Parts of the central Plains had moderate to heavy thunderstorms and the rain was beneficial for planting winter grains.

TUESDAY...The cool weather enveloped nearly all of the area east of the Rockies but very warm weather covered the Southwest and nearly all of California.

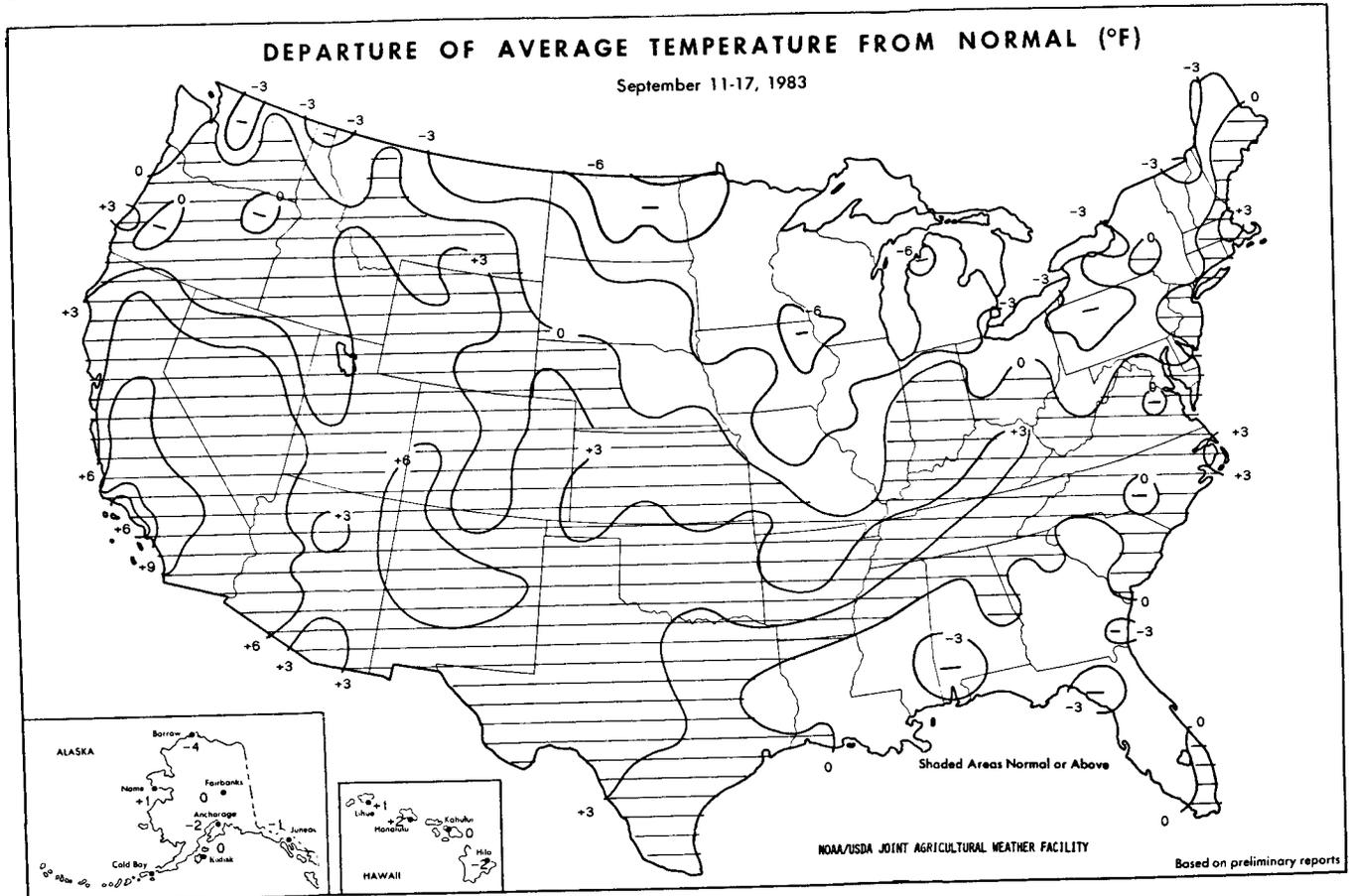
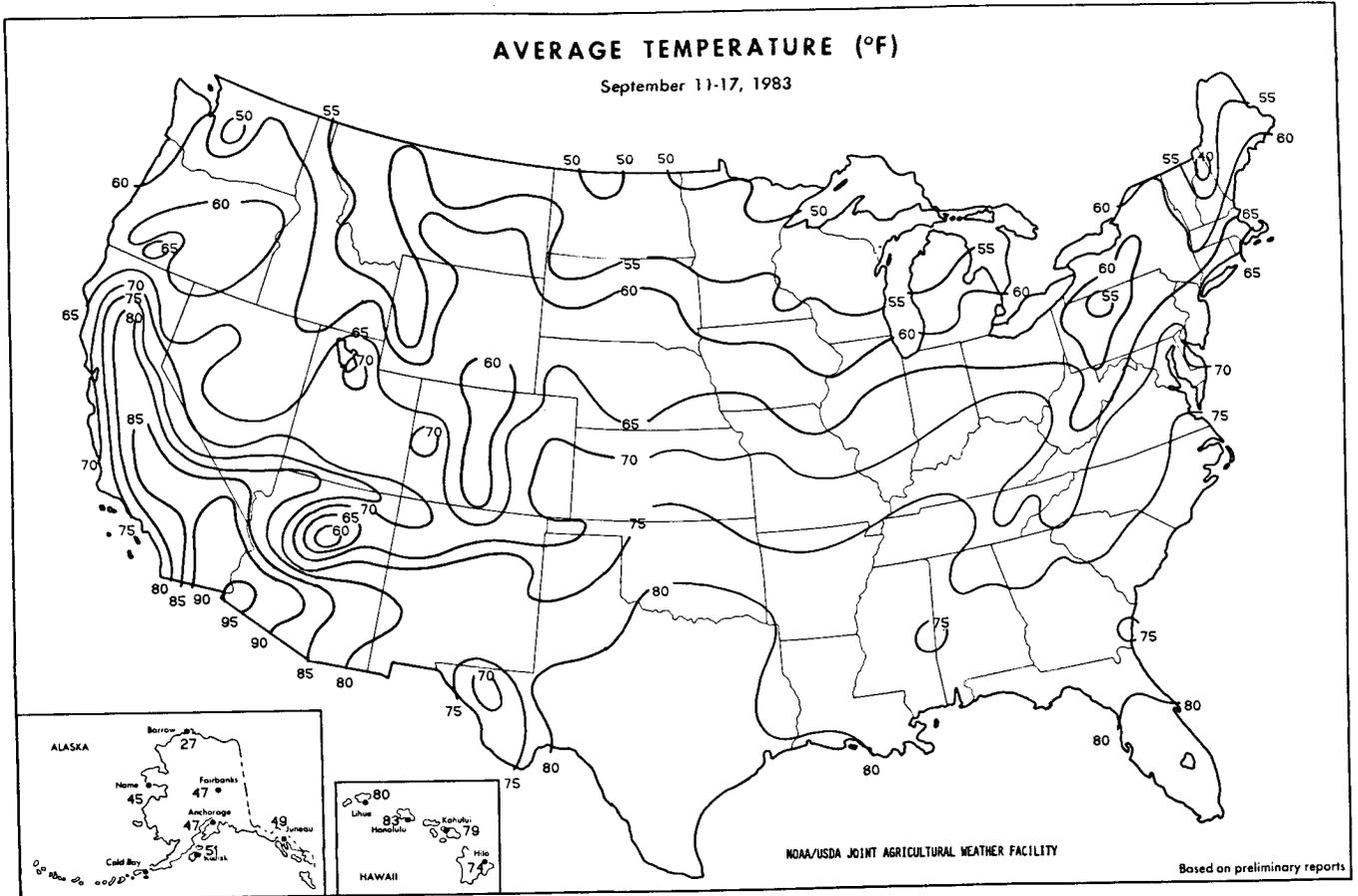
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Weather Data for the Week Ending Sept. 17, 1983

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 28	PCT. NORMAL SINCE AUG 28	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
AL BIRMINGHAM	84	64	94	56	74	-1	.4	-.7	.3	1.8	56	45.0	105	93	52	1	0	2	0	
MOBILE	84	67	88	61	75	-4	3.7	2.0	3.1	8.0	160	65.8	125	90	57	0	0	2	0	
MONTGOMERY	86	67	95	63	76	-1	3.9	2.7	2.5	5.9	179	56.3	149	87	52	2	0	2	0	
AK ANCHORAGE	55	39	58	30	47	-2	.4	-.2	.4	.8	50	7.5	74	84	54	0	0	2	0	
BARROW	30	24	33	17	27	-4	.1	0	.1	.8	200	2.3	56	100	85	0	0	0	0	
FAIRBANKS	54	39	63	33	47	0	.1	-.2	.1	1.6	200	7.1	88	90	54	0	0	7	0	
JUNEAU	54	43	58	33	49	-1	.5	-1.0	.3	2.7	64	31.3	91	99	70	0	0	0	0	
KODIAK	60	41	62	37	51	0	.2	-1.6	.2	.5	10	50.9	115	88	55	0	0	1	0	
NOME	50	40	53	30	45	1	.8	-.3	.5	1.1	58	8.1	64	87	66	0	1	5	0	
AZ PHOENIX	104	85	107	82	94	9	0	-.1	0	0	0	8.1	156	51	27	7	0	0	0	
PRESCOTT	88	59	92	55	73	8	.2	-.2	.1	1.0	71	9.1	64	77	29	2	0	0	3	
TUCSON	95	72	99	69	84	3	.7	-.4	.4	1.4	127	11.7	131	67	30	6	0	4	0	
YUMA	105	85	111	81	95	7	0	-.1	0	0	0	1.9	100	62	29	7	0	0	0	
AR FORT SMITH	90	63	95	54	76	2	1.1	.3	.8	1.5	68	22.7	74	91	35	3	0	3	1	
LITTLE ROCK	90	66	95	58	78	3	T	-1.0	T	1.1	41	27.7	77	79	39	3	0	0	0	
CA BAKERSFIELD	103	71	109	69	87	9	0	0	0	0	0	7.9	219	59	23	7	0	0	0	
EUREKA	66	54	69	51	60	3	T	-.2	T	3.2	800	40.1	171	96	74	0	0	0	0	
FRESNO	103	68	106	64	86	11	0	0	0	.1	100	16.4	241	61	18	7	0	0	0	
LOS ANGELES	82	68	93	66	75	5	0	-.1	0	0	0	21.8	260	85	57	1	0	0	0	
RED BLUFF	100	65	103	61	82	7	0	-.1	0	.3	100	29.9	228	62	18	7	0	0	0	
SACRAMENTO	99	61	104	56	80	8	0	-.1	0	0	0	23.8	227	70	21	7	0	0	0	
SAN DIEGO	84	73	92	71	79	7	0	-.1	0	0	0	14.6	232	86	58	1	0	0	0	
SAN FRANCISCO	82	57	99	55	70	5	0	0	0	0	0	100	25.4	213	84	45	2	0	0	0
CO DENVER	82	48	88	45	65	2	T	-.3	T	.1	11	16.6	131	76	23	0	0	1	0	
GRAND JUNCTION	90	58	93	54	74	6	.1	-.1	.1	.4	67	10.0	169	44	16	3	0	1	0	
PUEBLO	86	52	95	44	69	2	T	-.2	T	.3	43	11.2	113	76	24	4	0	1	0	
CT BRIDGEPORT	74	58	90	48	66	0	.5	.3	.5	.6	25	39.3	134	86	45	1	0	1	0	
HARTFORD	76	52	99	39	64	0	.8	-.2	.4	1.0	34	26.9	84	86	37	1	0	3	0	
DC WASHINGTON	83	64	98	55	74	2	1.3	.6	1.2	2.2	92	34.6	117	80	44	2	0	2	1	
FL ABALACHICOLA	84	71	89	67	77	-2	2.6	.4	1.9	5.4	84	47.8	109	97	69	0	0	3	2	
DAYTONA BEACH	87	70	90	66	78	-2	1.1	-.5	1.0	5.2	108	46.1	123	91	61	2	0	3	1	
JACKSONVILLE	85	70	94	67	78	-1	.8	-1.0	.6	3.1	58	46.1	106	94	66	2	0	3	1	
KEY WEST	88	80	89	78	84	1	0	-1.6	0	2.0	43	44.6	156	77	65	0	0	0	0	
MIAMI	90	74	91	72	82	0	.8	-1.1	.5	4.3	78	43.9	100	91	53	4	0	4	0	
ORLANDO	88	73	92	70	81	-1	1.5	.1	.8	4.0	98	42.7	104	94	59	2	0	5	2	
TALLAHASSEE	86	69	94	66	78	-1	2.6	1.0	1.6	4.4	90	52.8	101	97	65	1	0	5	2	
TAMPA	85	74	91	73	79	-2	2.7	1.2	1.2	6.3	129	51.1	128	99	77	1	0	5	3	
WEST PALM BEACH	90	75	92	73	82	0	.9	-1.3	.3	2.0	33	55.7	127	90	62	3	0	4	0	
GA ATLANTA	81	65	91	60	73	0	1.0	.2	.6	5.8	252	31.1	85	91	61	1	0	3	1	
AUGUSTA	84	64	95	58	74	-2	1.8	.9	1.7	4.2	156	39.3	115	90	55	2	0	2	1	
Macon	85	68	97	63	77	0	.6	-.2	.5	1.6	67	37.3	104	90	58	2	0	3	1	
SAVANNAH	86	68	98	61	77	0	1.8	.5	1.5	2.3	56	43.7	102	89	58	2	0	2	1	
HI HILO	80	68	82	65	74	-2	3.9	2.4	1.8	6.2	124	47.5	53	90	68	0	0	6	3	
HONOLULU	90	76	91	75	83	2	.1	-.1	T	.3	75	2.4	16	77	45	4	0	3	0	
KAHULUI	86	71	90	69	79	0	.3	.2	.1	.3	100	4.3	35	81	54	1	0	2	0	
LIIHUE	84	75	85	74	80	1	T	.5	T	.4	29	9.8	35	76	56	0	0	1	0	
ID BOISE	81	47	90	43	64	0	T	-.1	T	.1	33	11.8	146	63	27	1	0	0	0	
LEWISTON	78	50	82	48	64	0	T	-.1	T	.6	120	10.1	115	81	31	0	0	0	0	
POCATELLO	80	46	89	40	63	3	T	-.1	T	.1	33	11.6	149	67	20	0	0	1	0	
IL CHICAGO	70	49	78	44	59	-6	1.4	.6	1.0	3.6	150	33.8	127	95	49	0	0	3	1	
MOLINE	72	49	79	42	61	-5	1.5	.6	1.4	3.2	123	23.8	80	92	49	0	0	3	1	
PEORIA	75	54	85	45	65	-1	.8	-.1	.8	2.0	77	27.7	98	89	45	0	0	1	1	
QUINCY	73	55	88	46	64	-3	1.7	.7	1.3	3.3	110	20.5	68	87	50	0	0	2	1	
ROCKFORD	69	51	73	43	60	-4	1.5	.5	.7	2.7	96	24.0	80	97	56	0	0	3	2	
SPRINGFIELD	78	54	87	45	66	-2	.7	0	.5	.8	36	20.1	75	98	52	0	0	2	1	
IN EVANSVILLE	84	59	95	49	72	2	.6	-.1	.4	1.0	53	33.8	104	85	46	2	0	2	0	
FORT WAYNE	77	54	86	45	65	0	.1	.5	.1	.5	25	19.3	70	83	35	0	0	1	0	
INDIANAPOLIS	80	57	83	50	69	1	-.1	-.6	.1	1.6	76	24.4	80	80	43	0	0	1	0	
SOUTH BEND	72	51	78	45	62	-3	.5	.3	.2	.6	25	20.7	72	87	37	0	0	4	0	
IA DES MOINES	74	53	92	50	64	-2	1.3	.6	1.0	3.5	146	25.5	98	83	47	1	0	2	1	
SIoux CITY	75	49	91	42	62	-3	.8	-.2	.4	1.0	53	20.5	95	86	44	1	0	2	0	
WATERLOO	68	46	75	42	57	-5	.7	-.2	.6	1.8	69	25.7	93	97	63	0	0	2	1	
KS CONCORDIA	80	56	96	46	68	0	.7	0	.7	.7	32	18.3	80	91	47	1	0	2	1	
DODGE CITY	83	61	98	56	72	2	2.6	2.2	1.0	2.8	200	20.4	115	83	43	1	0	4	2	
GOODLAND	83	54	96	45	69	4	T	-.3	T	.8	73	15.4	108	76	26	3	0	0	0	
TOPEKA	82	56	97	49	69	0	.8	0	.5	1.6	62	25.7	95	91	43	1	0	3	1	
WICHITA	81	63	90	58	72	1	1.1	.7	.7	2.1	84	29.6	129	90	56	1	0	4	1	
KY BOWLING GREEN	85	61	96	47	73	2	.3	-.4	.3	.5	22	36.8	96	91	46	2	0	1	0	
LEXINGTON	82	61	95	51	72	2	.9	-.1	.4	1.0	42	26.9	74	85	41	1	0	3	0	
LOUISVILLE	83	62	94	52	72	2	.6	-.3	.4	1.0	40	31.5	92	80	43	1	0	3	0	
LA ALEXANDRIA	87	67	90	58	77	-1	.8	-.2	.4	1.0	59	38.2	96	92	62	1	0	3	0	
BATON ROUGE	86	68	88	62	77	-2	.6	-.5	.5	2.0	61	59.5	137	94	59	0	0	2	0	
LAKE CHARLES	88	71	90	65	80	1	.8	-.4	.5	4.6	121	44.3	109	92	60	1	0	4	0	
NEW ORLEANS	84	69	87	64	77	-2	1.3	-.2	.5	5.0	114	63.4	136	88	61	0	0	3	1	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

CORRECTION FOR AUGUST 1983 TEMPERATURE/PRECIPITATION AND HEATING DEGREE DAY TABLES.

ANCHORAGE	AK	HDD	266																	
MOLINE	IL	HDD	0																	
S. STE. MARIE	MI	HDD	25																	
SEATTLE TACOMA	WA	TEMP	66	T-DEP	+2	PRECIP	1.9	P-DEP	+ .6	%	146	HDD	19							
YAKIMA	WA	TEMP	71	T-DEP	+2	PRECIP	0.4	P-DEP	0	%	100	HDD	2							

Weather Data for the Week Ending Sept. 17, 1983

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 28	PCT. NORMAL SINCE AUG 28	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	90	68	93	57	79	1								91	45	4	0	0	0
ME CARIBOU	64	41	77	31	52	-2	.3	-.5	.2	1.6	64	29.7	113	90	40	0	2	2	0
PORTLAND	72	50	95	39	61	2	.1	-.7	.1	1.0	43	39.4	135	91	45	1	1	1	0
MD BALTIMORE	81	59	100	47	70	1	.5	-.3	.5	.6	22	34.5	110	85	43	2	0	1	0
SALISBURY	80	60	96	49	70	1	1.6	-.7	.8	4.3	143	36.7	105	100	59	2	0	3	2
MA BOSTON	76	60	99	53	68	3	.4	-.4	.3	1.4	56	35.0	115	83	43	1	0	2	0
CHATHAM	73	51	84	1	62	-1	T	-.9	T	1.1	41	40.8	124	79	62	0	1	1	1
MI ALPENA	64	44	74	33	54	-3	.6	-.1	.6	1.4	61	24.0	107	96	59	0	0	2	0
DETROIT	73	50	80	42	61	-3	.4	-.1	.4	1.9	112	25.7	107	84	42	0	0	3	0
FLINT	72	51	76	41	62	-1	.7	-.1	.5	1.8	95	22.0	94	92	52	0	0	2	0
GRAND RAPIDS	68	48	72	41	58	-3	.9	-.2	.6	2.6	118	26.4	103	93	51	0	0	3	1
HOUGHTON LAKE	64	45	71	34	54	-3	.8	-.1	.6	1.4	67	19.2	92	94	58	0	0	1	1
LANSING	69	48	73	39	59	-4	.5	-.1	.3	2.6	137	24.9	107	96	58	0	0	2	2
MARQUETTE	59	40	67	33	49	-5	1.2	-.2	.6	3.6	133	29.4	107	96	64	0	0	5	1
MUSKEGON	67	49	69	43	58	-4	1.2	-.5	.8	3.7	176	20.3	87	92	54	0	0	3	1
SAULT STE. MARIE	61	42	65	32	51	-4	.4	-.5	.3	1.9	68	22.8	95	91	54	0	1	4	0
MN ALEXANDRIA	59	47	62	45	53	-5	.8	-.3	.5	2.3	121	17.2	83	95	65	0	0	5	1
DULUTH	58	44	62	37	51	-3	2.2	1.4	1.7	4.1	164	20.7	86	94	63	0	0	3	1
INT'L FALLS	58	42	61	31	50	-3	1.0	-.2	.5	4.3	187	19.0	95	98	65	0	1	3	1
MINNEAPOLIS	64	49	70	46	57	-4	1.9	1.3	1.4	3.5	184	29.4	135	82	55	0	0	6	1
ROCHESTER	63	44	70	40	54	-6	1.1	-.4	.8	2.9	126	24.8	106	97	63	0	0	5	1
MS GREENWOOD	88	67	94	59	78	2	.3	-.6	.3	.7	30	45.0	114	84	44	3	0	1	0
JACKSON	88	65	92	56	76	-1	1.5	-.7	1.3	1.6	64	55.7	139	98	50	3	0	3	1
MERIDIAN	84	63	89	55	74	-3	1.6	-.7	1.2	2.9	116	52.9	131	99	57	0	0	3	1
MO CAPE GIRARDEAU	85	61	94	53	73	-3	0	-.9	0	.1	4	28.0	82	92	43	3	0	0	0
COLUMBIA	75	55	90	48	65	-4	2.2	1.4	1.6	3.5	146	27.9	102	91	53	1	0	3	1
KANSAS CITY	78	55	94	50	67	-3	.6	-.4	.3	1.1	38	22.6	79	91	48	1	0	4	0
SAINT LOUIS	80	58	93	51	69	-1	.6	-.4	.4	.6	33	27.2	104	95	46	1	0	3	0
SPRINGFIELD	81	59	92	48	70	0	.4	-.6	.4	2.9	104	29.7	100	90	51	2	0	1	0
MT BILLINGS	76	51	89	46	63	3	.3	0	.3	.4	44	7.9	67	63	26	0	0	2	0
GLASGOW	66	42	76	37	54	-4	.3	-.1	.2	.7	100	6.6	65	85	36	0	0	2	0
GREAT FALLS	70	43	78	38	56	-1	T	-.2	T	.8	100	12.1	96	74	30	0	0	1	0
HAVRE	69	39	78	35	54	-3	T	-.2	T	.5	83	11.1	111	90	29	0	0	1	0
HELENA	71	43	79	40	57	1	T	-.2	T	.4	57	11.5	124	74	28	0	0	0	0
KALISPELL	68	39	72	34	54	-1	.2	-.1	.1	1.3	130	14.0	114	95	39	0	0	3	0
MILES CITY	71	49	83	45	60	0	0	-.3	0	0	0	5.9	50	68	30	0	0	0	0
MISSOULA	69	41	75	35	55	-1	.4	-.1	.4	.9	129	12.8	133	92	38	0	0	1	0
NE GRAND ISLAND	78	50	98	41	64	-1	.4	-.2	.4	.4	22	21.0	104	81	33	1	0	2	0
LINCOLN	81	53	93	45	67	1	.3	-.4	.1	.3	14	21.0	93	89	43	1	0	3	0
NORFOLK	75	48	93	40	62	-2	.4	-.1	.3	.4	25	21.7	103	84	34	1	0	2	0
NORTH PLATTE	80	46	96	38	63	1	T	-.4	T	0	0	16.4	96	79	28	1	0	1	0
OMAHA	76	51	89	45	64	-1	.8	0	.7	1.0	38	22.6	88	86	46	0	0	2	1
SCOTTSELUFF	83	48	92	42	66	3	T	-.3	T	.4	50	17.6	100	69	21	2	0	0	0
VALENTINE	77	47	91	35	62	0	.4	0	.4	1.1	92	21.7	135	82	31	1	0	1	0
NV ELY	86	41	87	38	63	6	0	-.2	0	0	0	11.1	166	60	21	0	0	0	0
LAS VEGAS	102	73	103	72	88	7	0	-.1	0	0	0	3.8	112	35	14	7	0	0	0
LENO	94	45	95	42	70	9	0	-.1	0	.2	67	7.6	152	69	16	7	0	0	0
WINNEMUCCA	88	41	92	37	65	4	0	-.1	0	.1	33	7.6	129	59	15	2	0	0	0
WV CONCORD	74	44	95	30	59	-1	.1	-.6	.1	.8	35	30.9	119	93	39	1	1	1	0
NJ ATLANTIC CITY	78	58	99	46	68	0	.5	-.2	.3	1.8	75	30.7	96	92	54	1	0	3	0
NH ALBUQUERQUE	90	62	93	58	76	6	.3	-.1	.3	.6	86	5.4	84	73	25	5	0	2	0
CLOVIS	88	60	94	56	74	5	T	-.4	T	.4	29	7.2	50	82	36	3	0	0	0
ROSWELL	91	65	94	63	78	5	0	-.4	0	.3	23	4.5	56	60	32	4	0	0	0
NY ALBANY	72	47	92	37	60	-2	.2	-.5	.2	.4	18	32.2	127	95	50	1	0	3	0
BINGHAMTON	71	51	87	42	61	1	.1	-.7	.1	.9	39	29.2	109	76	39	0	0	2	0
BUFFALO	69	50	79	41	60	-3	.3	-.5	.3	1.3	52	21.4	78	85	46	0	0	2	0
NEW YORK	76	62	96	54	69	0	.3	-.5	.3	.8	31	38.9	123	79	45	1	0	2	0
ROCHESTER	70	51	80	43	61	-2	.3	-.4	.2	1.7	81	21.7	92	90	45	0	0	2	0
BYRACUSE	69	48	79	40	59	-4	.7	-.6	.1	1.6	67	22.7	79	95	51	0	0	2	0
NC ASHEVILLE	79	59	88	53	69	2	1.4	-.5	.8	4.5	161	34.1	93	96	52	0	0	3	1
CHARLOTTE	83	63	95	57	73	0	.3	-.6	.2	.5	19	27.3	83	92	44	2	0	2	1
GREENSBORO	83	59	96	52	71	0	1.6	-.8	1.5	1.7	63	31.5	96	88	43	2	0	2	1
HATTERAS	83	72	90	65	78	3	4.0	2.6	2.7	4.8	114	43.6	108	91	64	1	0	2	2
NEW BERN	86	68	98	61	77	2	.4	-1.0	.3	1.4	33	40.2	96	88	53	3	0	3	0
RALEIGH	85	60	97	51	72	1	1.0	-.2	.6	1.0	40	32.0	98	92	47	3	0	3	1
WILMINGTON	86	68	95	60	77	1	2.6	1.2	1.9	4.6	105	46.5	108	89	55	2	0	2	2
ND BISMARCK	81	43	72	35	52	-6	.3	0	.3	.7	78	10.9	81	94	56	0	0	4	1
FARGO	58	44	63	37	51	-7	.9	-.5	.6	3.1	221	15.9	95	99	66	0	0	4	1
GRAND FORKS	58	43	63	34	51	-6	1.9	1.4	.8	2.8	175	17.7	116	95	64	0	0	4	2
WILLISTON	63	44	74	34	53	-4	.2	-.2	.2	.3	27	7.5	64	91	48	0	0	3	0
OH AKRON-CANTON	71	54	81	44	63	-1	.7	0	.7	2.8	127	27.0	95	87	49	0	0	1	1
CINCINNATI	80	58	93	50	69	1	.5	-.2	.4	1.4	70	26.2	83	85	43	1	0	2	0
CLEVELAND	71	55	81	42	63	-2	.5	-.2	.5	3.0	143	26.4	96	90	53	0	0	2	0
COLUMBUS	78	55	91	43	67	0	.8	-.1	.5	2.1	100	26.6	82	83	44	1	0	3	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending Sept. 17, 1983

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 28	PCT. NORMAL SINCE AUG 28	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	77	55	87	45	66	-1	.2	.4	.1	.7	37	24.9	89	78	38	0	0	3	0
TOLEDO	73	50	82	39	61	-2	.3	.3	.2	1.2	60	21.8	89	92	42	0	0	2	0
YOUNGSTOWN	70	51	82	38	60	-3	1.5	.8	1.0	3.8	173	25.9	89	88	47	0	0	1	1
OK OKLAHOMA CITY	89	66	96	56	77	4	.4	.4	.4	.4	17	22.9	92	84	41	5	0	2	0
TULSA	88	68	96	57	78	3	1.1	.1	.8	1.3	45	21.7	74	88	42	3	0	2	1
OR ASTORIA	67	49	72	44	58	-1	.1	.6	.1	2.7	150	50.7	130	99	68	0	0	2	0
BURNS	80	38	86	33	59	0	0	.1	0	.1	25	11.5	151	11	11	0	0	0	0
MEDFORD	86	50	91	45	68	2	0	.2	0	1.1	220	15.3	131	92	33	1	0	0	0
FENDLETON	75	51	79	46	63	-1	0	.1	0	0	0	8.6	115	72	27	0	0	0	0
PORTLAND	74	54	80	46	64	1	T	.3	T	2.6	260	31.4	141	90	46	0	0	0	0
SALEM	77	49	82	40	63	1	.1	.2	1.1	2.3	256	37.4	159	90	46	0	0	0	0
PA ALLENTOWN	77	55	96	43	66	0	.5	.5	.5	.6	19	32.7	101	86	42	1	0	1	0
ERIE	71	54	79	48	63	0	.6	.3	.5	1.8	67	28.4	101	84	52	0	0	2	0
HARRISBURG	79	55	95	44	67	-1	.2	.6	.2	.4	16	30.4	106	87	42	1	0	2	0
PHILADELPHIA	80	59	98	48	69	0	.9	.1	.9	1.9	73	34.3	112	85	41	1	0	2	0
PITTSBURGH	73	54	91	41	64	-1	2.1	.6	.8	3.0	143	28.4	99	87	46	1	0	3	3
SCRANTON	72	52	93	41	62	-1	.3	.5	.1	.7	29	28.6	110	86	50	1	0	4	0
RI PROVIDENCE	78	57	100	44	67	3	.6	.2	.3	.7	28	42.1	133	76	35	1	0	2	0
SC CHARLESTON	86	69	95	60	77	1	1.7	.5	1.0	3.2	82	43.8	102	92	58	2	0	2	2
COLUMBIA	85	64	97	57	75	-1	1.7	.7	1.7	3.0	91	32.7	84	92	50	2	0	2	1
FLORENCE	86	65	97	55	75	0	1.7	.8	.9	2.0	69	39.0	113	95	49	3	0	2	2
SD GREENVILLE	80	63	90	58	72	-1	.4	.6	.3	3.2	107	37.0	96	92	58	1	0	3	0
ABERDEEN	66	49	76	42	57	-3	.2	.1	.2	.8	80	19.1	126	94	55	0	0	2	0
HURON	69	50	83	44	60	-1	.5	.2	.5	2.0	182	14.3	91	96	53	0	0	2	1
RAPID CITY	77	44	87	38	60	-1	T	.2	T	.1	13	11.0	83	78	29	0	0	1	0
SIoux FALLS	71	47	88	40	59	-2	.3	.4	.2	2.9	132	22.0	105	100	55	0	0	3	0
TN CHATTANOOGA	84	64	92	57	74	1	T	1.0	T	1.3	45	31.7	80	92	48	1	0	1	0
KNOXVILLE	84	62	92	55	73	1	T	.7	T	.8	38	28.6	80	93	50	1	0	1	0
MEMPHIS	87	68	96	56	78	3	.5	.4	.5	1.0	37	36.0	90	93	49	2	0	1	0
NASHVILLE	89	66	100	50	78	4	T	.9	T	.3	12	33.8	91	82	36	4	0	0	0
TX ABILENE	92	69	95	62	80	4	.9	.1	.8	.9	41	13.6	74	80	37	5	0	2	1
AMARILLO	88	62	96	58	75	5	.3	.1	.2	.4	27	10.9	65	87	35	3	0	2	0
AUSTIN	93	71	94	66	82	2	.1	.8	.1	.8	33	26.2	108	88	43	6	0	1	0
BEAUMONT	86	73	88	70	79	0	.4	1.1	.2	7.3	166	60.8	154	98	72	0	0	4	0
BROWNSVILLE	92	75	93	73	83	2	1.7	.4	1.1	4.8	137	20.5	113	94	61	7	0	4	1
CORPUS CHRISTI	89	74	91	71	82	0	1.4	.2	1.2	6.9	160	30.6	132	99	67	3	0	4	1
DEL RIO	95	73	97	72	84	3	.2	.5	.2	.4	22	6.7	50	87	37	7	0	1	0
EL PASO	91	66	95	64	79	4	.4	0	.1	.4	40	5.0	82	83	29	5	0	4	0
FORT WORTH	91	69	94	64	80	1	0	.8	0	.1	5	24.1	104	77	41	5	0	0	0
GALVESTON	86	76	88	74	81	1	.7	.7	.4	8.9	217	43.5	144	90	64	0	0	5	0
HOUSTON	88	72	91	68	80	1	.5	.7	.5	2.2	63	39.7	117	94	58	1	0	1	1
LUBBOCK	90	62	95	56	76	4	.3	.2	.2	.4	27	8.6	58	83	35	5	0	2	0
MIDLAND	92	67	95	63	80	5	.4	.1	.2	.4	29	3.4	31	80	35	6	0	3	0
SAN ANGELO	93	69	97	64	81	4	T	.8	T	0	0	10.0	70	82	34	6	0	0	0
SAN ANTONIO	93	71	95	67	82	2	T	.9	T	1.2	46	18.5	84	87	40	7	0	0	0
VICTORIA	89	72	91	71	81	0	.1	1.4	.1	1.0	23	28.1	100	99	64	5	0	2	0
WACO	93	71	97	66	82	2	.2	.5	.2	.4	20	19.0	79	91	44	5	0	1	0
WICHITA FALLS	94	67	99	57	80	4	0	.8	0	0	0	15.7	74	83	31	6	0	0	0
UT BLANDING	86	53	91	46	70	6	.5	.3	.5	.9	150	10.3	139	61	24	2	0	1	0
CEDAR CITY	87	53	90	47	70	6	T	.2	T	0	0	10.9	140	47	18	1	0	0	0
SALT LAKE CITY	85	56	89	53	71	5	0	.2	0	.6	100	15.7	141	66	21	0	0	0	0
VT BURLINGTON	70	48	84	36	59	-1	.2	.6	.1	.7	29	30.7	122	85	37	0	0	2	0
VA NORFOLK	84	66	99	59	75	2	2.7	1.7	1.9	4.4	138	33.2	95	86	47	2	0	2	2
RICHMOND	82	58	100	50	70	-1	.8	.1	.4	.9	33	27.2	83	98	50	2	0	3	0
ROANOKE	82	59	96	52	71	1	.8	.1	.5	.8	35	29.8	100	89	44	7	0	3	0
WA COLVILLE	69	43	75	36	56	-3	T	.2	T	.7	100	19.1	161	89	49	0	0	1	0
QUILLAYUTE	66	47	72	42	56	-1	.2	1.0	.2	6.6	228	76.8	126	98	63	0	0	3	0
SEATTLE-TACOMA	68	53	73	49	61	0	.1	.4	.1	3.0	250	26.2	117	88	55	0	0	1	0
SPOKANE	72	48	78	45	60	0	T	.1	T	.5	100	13.8	121	72	31	0	0	1	0
YAKIMA	76	47	81	40	62	0	0	.1	0	.4	133	7.8	166	75	30	0	0	0	0
WV BECKLEY	74	55	87	45	65	1	.3	.5	.2	.5	21	24.7	76	96	56	0	0	4	0
CHARLESTON	80	59	95	48	70	1	.4	.3	.2	.5	22	27.2	82	86	43	1	0	2	0
HUNTINGTON	82	62	95	51	72	3	.3	.5	.3	.4	17	25.0	78	82	39	1	0	1	0
PARKERSBURG	77	60	91	49	69	1	.6	.1	.3	4.1	195	29.9	90	92	54	1	0	3	0
WI GREEN BAY	62	46	69	41	54	-5	2.1	1.3	1.0	2.6	108	23.1	105	95	61	0	0	4	2
LA CROSSE	65	48	72	45	57	-5	.7	.2	.5	1.6	62	19.3	76	100	68	0	0	3	0
MADISON	65	45	70	39	55	-6	.8	.1	.6	2.5	114	22.9	92	99	59	0	0	3	1
MILWAUKEE	65	51	70	47	58	-4	.5	.2	.4	1.7	81	26.9	93	78	50	0	0	2	0
WAUSAU	62	46	67	42	54	-4	1.6	.7	.8	4.2	145	21.0	80	95	60	0	0	5	1
WY CASPER	81	44	87	38	62	4	T	.2	T	0	0	13.6	151	71	18	0	0	1	0
CHEYENNE	76	44	83	40	60	2	T	.3	T	.7	88	17.4	150	84	30	0	0	0	0
LANDER	79	47	83	43	63	4	0	.2	0	.4	80	11.0	108	56	23	0	0	0	0
SHERIDAN	77	45	91	38	61	3	.1	.2	.1	.1	11	5.1	41	71	26	1	0	2	0
PR SAN JUAN	91	78	92	77	84	2	.5	.9	.3	.8	19	27.4	72	91	67	7	0	3	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

COOLING DEGREE DAY DATA WEEKLY SUMMARY  
CLIMATE ANALYSIS CENTER-NWC-NWS-NOAA  
ASSESSMENT AND INFORMATION SERVICES CENTER-NESDIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 9-17-1983  
ACCUMULATIONS ARE FROM JANUARY 1  
\*\*\*\* = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

STATE CITY	CALL	WEEK TOTAL	WEEK DEV FROM NORM	WEEK DEV L YR	CUM TOTAL	CUM DEV FROM NORM	CUM DEV L YR	CUM DEV FROM NORM PRCT	CUM DEV L YR PRCT	STATE CITY	CALL	WEEK TOTAL	WEEK DEV FROM NORM	WEEK DEV L YR	CUM TOTAL	CUM DEV FROM NORM	CUM DEV L YR	CUM DEV FROM NORM PRCT	CUM DEV L YR PRCT
AL BIRMINGHAM	BHM	54	-5	-40	1696	-33	-113	-1	-6	MI MILES CITY	MLS	2	-13	2	1030	268	301	35	41
AL MOBILE	MOB	74	-22	-48	1862	-415	-429	-18	-18	MI MISSOULA	MSO	0	0	0	194	-26	-3	-11	-1
AL MONTGOMERY	MGM	81	-7	-42	1857	-186	-352	-9	-15	NE GRAND ISLAND	GRI	15	-3	9	1361	360	557	35	69
AK ANCHORAGE	ANC	0	0	0	0	0	0	**	**	NE LINCOLN	LNK	20	-3	2	1508	416	515	38	51
AK BARROW	BRW	0	0	0	0	0	0	**	**	NE LINCOLN	OFK	10	-6	5	1270	359	505	39	66
AK FAIRBANKS	FAI	0	0	0	114	58	46	**	**	NE NORTH PLATTE	LBF	12	-1	12	955	191	221	25	30
AK JUNEAU	JNU	0	0	0	0	0	0	**	**	NE OMAHA	ON4	10	-14	-5	1347	215	479	18	55
AK KODIAK	ADQ	0	0	0	4	4	4	**	**	NE VALENTINE	VTN	12	0	12	976	230	241	30	32
AK NOME	OME	0	0	0	1	1	-9	**	**	NV ELY	ELY	0	-3	0	171	-21	-34	-10	-16
AZ FLAGSTAFF	FLG	0	0	0	57	-69	49	-54	39	NV LAS VEGAS	LAS	161	50	106	2545	-181	-3	-6	0
AZ PHOENIX	PHX	207	64	99	3698	482	49	14	1	NV RENO	RNO	33	27	33	366	16	-59	4	-13
AZ TUCSON	TUS	132	20	76	2478	29	205	1	9	NV WINNEMUCCA	WMC	6	-1	6	360	-146	-112	-28	-23
AZ YUCLA	YUM	212	51	98	3832	277	303	7	8	NH CONCORD	CON	14	10	-9	497	149	185	42	59
AZ YUMA	YUM	212	51	98	3832	277	303	7	8	NJ ATLANTIC CITY	ACY	39	22	7	1170	393	292	50	33
AR FORT SMITH	FYM	82	15	-14	1735	-73	40	-4	2	NM ALBUQUERQUE	ABQ	77	44	65	1500	283	200	23	15
AR LITTLE ROCK	LM1	91	21	-7	1876	-3	29	0	1	NM ROSWELL	ROW	93	38	38	1754	8	50	0	2
CA BAKERSFIELD	BFL	157	68	76	1885	-184	-593	-8	-23	NY ALBANY	ALB	9	1	-7	603	115	268	23	79
CA EUREKA	EKA	0	0	0	2	2	-1	**	**	NY BINGHAMTON	BGM	10	5	-11	641	319	330	99	106
CA FRESNO	FAT	146	78	101	1825	235	225	14	14	NY BUFFALO	BUF	4	-7	-33	730	260	349	55	91
CA LOS ANGELES	LAX	73	38	40	653	118	151	22	30	NY NEW YORK	LGA	34	1	-13	1193	191	373	19	45
CA RED BLUFF	REL	122	47	71	1575	-150	74	-8	4	NY ROCHESTER	ROC	5	-6	-33	690	171	248	32	56
CA SAN DIEGO	SAN	98	56	54	1041	392	246	60	30	NY SYRACUSE	SYR	3	-8	-17	570	74	252	14	79
CA SAN FRANCISCO	SFO	35	21	24	216	152	158	**	**	NC ASHEVILLE	AVL	35	7	-3	985	182	85	22	9
CA STOCKTON	SKK	123	62	90	1339	41	252	3	23	NC CAPE HATTERAS	HAT	21	25	1485	94	64	6	4	
CO DENVER	DEN	11	-3	11	722	64	111	9	18	NC CHARLOTTE	CLT	64	1	-15	1554	95	68	6	4
CO GRAND JUNCTION	GJT	63	31	54	1315	156	91	13	7	NC GREENSBORO	GSO	47	8	-12	1278	21	72	1	5
CO PUEBLO	PUB	32	3	29	1047	44	81	4	8	NC RALEIGH DURHAM	RDU	54	7	-21	1434	109	-51	8	-3
CT BRIDGEPORT	BDP	24	5	3	805	88	278	12	52	NC WILMINGTON	ILM	84	11	10	1778	43	196	2	12
CT HARTFORD	BDL	24	12	-5	877	220	282	33	47	ND BISMARCK	BIS	0	-3	0	653	179	256	37	64
DE WILMINGTON	ILG	43	14	-11	1218	249	253	25	26	ND FARGO	FAR	0	-4	-1	702	227	262	47	59
DC WASHINGTON	DCA	62	14	-14	1635	281	269	20	19	ND WILLISTON	ISN	0	-7	0	840	398	303	90	56
FL APALACHICOLA	AQQ	88	-14	-31	1994	-204	-186	-9	-8	OH AKRON-CANTON	CAK	15	-2	-28	853	254	240	42	39
FL DAYTONA BEACH	DAB	96	-9	-6	1983	-335	-272	-14	-12	OH CLEVELAND	CLE	15	-3	-36	895	307	269	52	42
FL FORT MEYER	FMY	106	-13	-14	2455	-415	-844	-14	-25	OH COLUMBUS	CMH	26	1	-17	1033	214	343	26	49
FL JACKSONVILLE	JAX	90	-6	-23	1992	-142	-419	-6	-17	OH CINCINNATI	CVG	34	3	-33	1242	258	320	26	34
FL KEY WEST	EYW	137	11	8	3099	-102	-568	-12	-21	OH DAYTON	DAY	25	-2	-19	1008	111	234	12	30
FL MIAMI	MIA	119	0	-15	2995	-445	-861	-12	-21	OH TOLEDO	TOL	6	-9	-35	815	218	258	36	46
FL ORLANDO	MCO	110	-7	-12	2511	-201	-349	-7	-12	OH YOUNGSTOWN	YNG	12	0	-23	811	338	374	71	85
FL TALLAHASSEE	TLH	89	-9	-26	2071	-84	-180	-3	-7	OK OKLAHOMA CITY	OKC	87	23	-5	1746	-20	2	1	0
FL TAMPA	TPA	102	-12	-20	2469	-193	-225	-7	-8	OK TULSA	TUL	89	19	-12	2155	276	20	14	0
FL WEST PALM BEACH	PBI	123	-5	-6	2879	21	-369	0	-11	OR ASTORIA	AST	0	0	0	5	-16	-8	**	**
GA ATLANTA	ATL	59	-1	-13	1605	64	-2	4	0	OR BURNS	4BW	0	-7	0	130	-214	-109	-62	-45
GA AUGUSTA	AGS	63	-10	-28	1873	93	39	5	2	OR MEDFORD	MFR	24	2	23	574	-49	-83	-7	-12
GA MACON	MCN	82	-1	-21	2152	145	94	7	4	OR PENDELTON	PDT	1	-19	1	500	-204	-151	-28	-23
GA SAVANNAH	SAV	85	-1	-21	2136	110	-17	5	0	OR PORTLAND	PDJ	8	0	7	302	-14	-91	-4	-23
HI HILO-HAWAII	HNL	129	17	8	3051	-65	-171	-2	-5	OR SALEM	SLE	4	-1	4	191	-40	-94	-17	-32
HI HONOLULU-OAHU	HNL	129	17	8	3051	-65	-171	-2	-5	PA ALLENTOWN	ABE	26	5	-8	1020	289	446	39	77
HI KAHULUI-MAUI	OGG	96	-2	-17	2710	-2	-326	0	-10	PA ERIE	ERI	7	-1	-36	707	330	299	87	73
HI LIHUE-KAUAI	LII	105	7	1	2765	121	-179	4	-6	PA HARRISBURG	HAR	28	-1	-17	954	-12	253	-1	36
ID BOISE	BOI	9	-12	9	631	-92	19	-12	3	PA PHILADELPHIA	PHL	37	6	-22	1235	203	248	19	25
ID LEWISTON	LWS	2	-18	0	696	-26	-113	-3	-13	PA PITTSBURGH	PIT	21	2	-24	744	126	192	20	34
ID POCATELLO	PIH	1	-7	1	390	-51	-2	-11	0	PA SCRANTON	AVP	15	1	-8	691	141	263	25	61
IL CHICAGO	ORD	0	-14	-35	1066	353	434	49	68	PA PROVIDENCE	PVD	36	24	2	1009	446	446	79	79
IL MOLINE	MLI	2	-12	-42	1290	420	483	48	59	SC CHARLESTON	CHS	87	7	-7	1993	142	71	7	3
IL PEORIA	PIA	16	-4	-29	1381	470	507	51	58	SC COLUMBIA	CAE	68	-6	-17	1875	5	142	0	8
IL ROCKFORD	RFD	0	-8	-35	1096	404	422	58	62	SC GREENVILLE	GSP	48	-4	-20	1420	0	75	0	5
IL SPRINGFIELD	SPI	17	-14	-36	1406	306	371	27	35	SD ABERDEEN	ABR	0	-6	0	864	276	190	46	28
IN EVANSVILLE	EVV	50	7	-18	1591	277	323	21	25	SD HONOLULU	HON	4	-6	4	1035	307	322	42	45
IN FORT WAYNE	FWA	17	-4	-26	1236	489	579	65	88	SD RAPID CITY	RAP	1	-14	1	846	201	393	31	86
IN INDIANAPOLIS	IND	29	2	-24	1326	384	413	40	45	SD SIOUX FALLS	FSD	5	-5	0	1031	292	400	39	63
IN SOUTH BEND	SNB	0	-15	-41	1211	532	599	77	85	TN CHATTANOOGA	CHA	65	8	-12	1550	71	71	4	4
IA DES MOINES	DSM	9	-10	-21	1510	370	354	64	60	TN KNOXVILLE	TYS	61	10	-19	1387	24	58	1	8
IA DUBUQUE	DBQ	0	-5	-29	941	257	358	28	44	TX MEMPHIS	MEM	90	21	-7	2019	122	-178	6	-8
IA SIOUX CITY	SUX	9	-10	-5	1170	257	358	28	44	TX NASHVILLE	BNA	90	32	13	1735	194	259	12	11
KS CONCORDIA	CNK	32	-2	13	1529	250	246	19	19	TX ABILENE	ABI	108	28	1	2165	-49	-169	-2	-7
KS DODGE CITY	DDC	54	14	24	1793	388	362	27	25	TX AMARILLO	AMA	72	32	24	1439	-36	-123	7	9
KS GOULDLAND	GLD	30	7	29	1288	378	494	41	62	TX AUSTIN	AUS	119	12	-22	2225	-309	-665	-12	-23
KS TOPEKA	TOP	31	-6	-7	1594	284	495	21	45	TX BROWNSVILLE	BRO	129	12	-18	3031	-20	-584	0	-16
KS WICHITA	ICT	49	0	-11	1619	23	93	1	6	TX CORPUS CHRISTI	CRP	118	0	-22	2545	-392			

September 12 to 18

**HIGHLIGHTS:** Showers eastward from the Great Plains were beneficial to newly seeded winter wheat but more moisture is needed. Cooler weather in the western Corn Belt and the Southeast slowed soybean development. Farmers had 4 to 7 days suitable for fieldwork in most regions of the Nation. Additional precipitation improved soil moisture in the Southeast. Supplies were short in the northeast, short to very short from Arkansas to West Virginia, and short to adequate elsewhere. Winter wheat seeding advanced to 16%, 9 points behind average. Spring wheat harvesting was virtually complete, except in Idaho. Corn harvesting started in the Corn Belt and continued active in the South. In the 17 major States, 7% of the acreage had been harvested. Soybean harvesting was underway in the Corn Belt. Three percent of the crop was harvested. Sorghum harvesting advanced northward into Nebraska and reached 32% in the 7 major States. Cotton picking reached 6% completion, 2 points behind normal. Tobacco cutting was active in all producing States. Rice was 38% harvested. Rains were beneficial to peanuts in the Southeast. Cooler weather aided fall apple coloring in northern regions. Livestock received supplemental feed because of poor pasture conditions.

**SMALL GRAINS:** Open weather allowed spring wheat producers in Idaho to combine 11% of their acreage during the week. Harvesting was virtually complete in all States except Idaho where 90% was combined.

The 1984 winter wheat crop was 16% seeded in the 15 major producing States, equal to last year but 9 points behind the average. Seeding was underway in all States except California; progress ranged from 2% finished in Illinois, to 65% complete in South Dakota. Scattered showers across portions of the Great Plains brought some relief from the drought and allowed increased seeding of small grains. However, some farmers continued to delay seeding, hoping for additional moisture.

**CORN:** Corn was in mostly fair to good condition across the northern Plains, the Great Lakes region, and in the lower Delta States. However, mostly poor to fair conditions prevailed elsewhere. In the 17 major producing States, 94% of the crop had reached the dent stage, 62% was mature, and 7% had been harvested. This compares with 83% dented, 46% mature, and 4% picked a year earlier. Harvesting was underway in all States except Colorado, Minnesota, Pennsylvania, and Wisconsin. Harvesting had just begun across the Corn Belt, but was slowed by showers across much of the South. Progress in Georgia reached 74%, and in North Carolina 36% of the acreage was harvested.

**SOYBEANS:** Showers benefited soybeans across most of the eastern half of the Nation. However, cooler weather slowed crop development in northern areas. Stands improved but continued in poor to fair condition in most producing areas. In the 18 major States, 37% of the crop was dropping leaves, 5 percentage points ahead of both last year and the average. Three percent of the crop was harvested, compared with an average of 1%. Harvesting was concentrated in the Corn Belt. Illinois producers were 9% finished and 4% was harvested in Indiana.

**COTTON:** Cotton was rated in poor to fair condition in the Southeast and lower Delta, while

Alabama, Arkansas, and Texas continued in mostly fair condition. In the 14 major producing States, bolls were opening on 42% of the acreage, 5 points behind normal. Harvesting was 6% complete, compared with the 8% average for this date. Picking trailed normal in all States except Missouri. Progress ranged up to 13% complete in Texas. Dryland fields in Texas deteriorated further, but excellent yields are expected from irrigated stands. Defoliation increased in Arizona and California.

**SORGHUM:** Sorghum was in mostly fair to poor condition, except in Texas where fair to good conditions were reported. In the 7 major producing States, 78% had turned color, 43% was mature, and 32% was harvested. Normally, 81% has turned color, 48% is mature, and 33% has been harvested. Harvesting was underway in all States except Colorado and South Dakota. Progress ranged up to 64% finished in Texas. Kansas farmers continued cutting sorghum for silage and forage. Fields were maturing rapidly in Texas and stands began turning color on the High Plains.

**OTHER CROPS:** Rice harvesting was complete in Texas and underway in all other States. In the 5 major States, harvesting was 38% complete, 6 points behind both last year and the average. California producers had just started harvesting.

Tobacco harvesting progressed rapidly but was still behind in many areas. Kentucky growers had cut 58% of the burley crop and 60% of the dark tobacco. Maryland growers harvested 60% of their crop. Burley cutting was 48% complete in Virginia; flue-cured 78% complete, and fire-cured 75% finished. North Carolina producers cut 88% of the flue-cured crop and 28% of the burley.

Peanuts benefited from additional moisture in the Southeast, but continued to be rated mostly fair to poor, except in Alabama and Georgia where mostly fair conditions prevailed. Texas stands continued developing well but dryland fields were still stressed by dry conditions. Harvesting was 2% complete in Virginia, 5% finished in South Carolina, 14% complete in Alabama, and 27% finished in Georgia. Texas producers had dug 4% of the crop, compared with the 18% average.

**VEGETABLES:** Showers delayed completion of summer crop harvesting but provided much needed moisture for fall vegetables in northern producing areas. Maine potatoes were 10% harvested. Potato digging in Idaho was 9% finished. Land preparation and planting was delayed by showers in Florida. Showers relieved pre-plant irrigation in portions of Texas; fall vegetable planting was active in the Rio Grande Valley. A wide variety of crops continued to be harvested in California.

**FRUITS AND NUTS:** Cooler weather aided coloring of apples across northern producing areas. Grape harvesting was in full swing in New York and California. Hot temperatures hindered lemon growth in California's Desert area and reduced Valencia orange quality. The raisin harvest was two-thirds complete. Florida's citrus groves had heavy new growth and were in excellent condition. White seedless grapefruit were shipped.

(continued on p. 19)

**CROP PROGRESS**

FOR WEEK ENDING SEPT 18, 1983

	CORN % DENT		
	1983	1982	AVG.
COLO	75	65	69
GA	100	100	100
ILL	98	100	97
IND	98	99	90
IOWA	96	71	88
KANS	80	80	85
KY	92	100	98
MICH	90	85	88
MINN	98	88	87
MO	100	90	84
NEBR	96	60	85
N C	100	100	100
OHIO	98	100	90
PA	63	71	75
S DAK	89	72	91
VA	96	97	96
WIS	75	53	76
17 STATES	94	83	89

THESE 17 STATES PRODUCED 93% OF THE 1982 CORN CROP.

	CORN % MATURE		
	1983	1982	AVG.
COLO	12	13	18
GA	100	99	99
ILL	78	83	72
IND	60	75	45
IOWA	74	21	51
KANS	40	40	60
KY	56	78	64
MICH	40	55	37
MINN	47	20	31
MO	83	50	50
NEBR	40	5	30
N C	95	96	94
OHIO	60	80	50
PA	15	15	18
S DAK	65	43	61
VA	86	88	86
WIS	61	30	65
17 STATES	62	46	51

THESE 17 STATES PRODUCED 93% OF THE 1982 CORN CROP.

	CORN % HARVESTED		
	1983	1982	AVG.
COLO	0	0	0
GA	74	82	77
ILL	8	4	4
IND	3	2	1
IOWA	8	0	1
KANS	10	4	10
KY	10	9	11
MICH	2	1	0
MINN	0	0	0
MO	24	11	14
NEBR	2	0	0
N C	36	53	50
OHIO	5	5	1
PA	0	0	1
S DAK	1	0	1
VA	30	25	26
WIS	0	0	0
17 STATES	7	4	4

THESE 17 STATES PRODUCED 93% OF THE 1982 CORN CROP.

	WINTER WHEAT % PLANTED		
	1983	1982	AVG.
CALIF	0	0	0
COLO	51	44	61
IDAHO	19	20	18
ILL	2	1	3
IND	3	3	3
KANS	5	10	20
MO	3	4	5
MONT	25	20	25
NEBR	55	30	55
OHIO	3	5	5
OKLA	10	5	20
OREG	6	12	9
S DAK	65	53	68
TEX	8	19	25
WASH	44	41	39
15 STATES	16	16	25

THESE 15 STATES PRODUCED 80% OF THE 1982 WINTER WHEAT CROP.

	SORGHUM % COLORING		
	1983	1982	AVG.
COLO	68	63	68
KANS	60	45	70
MO	95	90	80
NEBR	93	50	80
OKLA	85	85	90
S DAK	88	68	83
TEX	82	86	88
7 STATES	78	69	81

THESE 7 STATES PRODUCED 90% OF THE 1982 SORGHUM CROP.

	SORGHUM % MATURE		
	1983	1982	AVG.
COLO	11	11	11
KANS	20	10	25
MO	67	59	50
NEBR	25	1	25
OKLA	15	35	50
S DAK	27	24	32
TEX	67	71	74
7 STATES	43	39	48

THESE 7 STATES PRODUCED 90% OF THE 1982 SORGHUM CROP.

	SORGHUM % HARVESTED		
	1983	1982	AVG.
COLO	0	0	0
KANS	5	2	5
MO	26	21	16
NEBR	4	0	0
OKLA	5	10	10
S DAK	0	0	1
TEX	64	67	69
7 STATES	32	32	33

THESE 7 STATES PRODUCED 90% OF THE 1982 SORGHUM CROP.

	RICE % HARVESTED		
	1983	1982	AVG.
ARK	18	27	22
CALIF	1	1	4
LA	74	83	86
MISS	16	30	35
TEX	100	100	100
5 STATES	38	44	44

THESE 5 STATES PRODUCED 98% OF THE 1982 RICE CROP.

	SOYBEANS % DROPPING LEAVES		
	1983	1982	AVG.
ALA	15	18	20
ARK	14	10	17
GA	18	23	20
ILL	60	57	46
IND	60	70	35
IOWA	50	17	42
KANS	40	15	30
KY	19	28	24
LA	16	24	24
MICH	55	60	39
MINN	48	34	51
MISS	7	28	36
MO	40	23	23
NEBR	40	7	30
N C	3	3	3
OHIO	50	70	45
S C	4	8	8
TENN	13	18	14
18 STATES	37	32	32

THESE 18 STATES PRODUCED 94% OF THE 1982 SOYBEAN CROP.

	SOYBEANS % HARVESTED		
	1983	1982	AVG.
ALA	0	0	0
ARK	0	1	1
GA	0	0	0
ILL	9	4	4
IND	4	5	1
IOWA	3	0	0
KANS	1	1	1
KY	0	1	2
LA	1	3	2
MICH	0	0	0
MINN	1	0	0
MISS	0	1	2
MO	3	0	2
NEBR	1	0	0
N C	0	0	0
OHIO	3	5	1
S C	0	0	0
TENN	0	0	0
18 STATES	3	2	1

THESE 18 STATES PRODUCED 94% OF THE 1982 SOYBEAN CROP.

	COTTON % BOLLS OPENING		
	1983	1982	AVG.
ALA	43	63	50
ARIZ	70	70	75
ARK	67	84	56
CALIF	50	55	53
GA	57	56	65
LA	47	88	64
MISS	70	96	82
MO	90	96	70
N MEX	21	50	33
N C	87	79	70
OKLA	10	5	25
S C	81	65	75
TENN	53	64	36
TEX	29	32	35
14 STATES	42	50	47

THESE 14 STATES PRODUCED 99% OF THE 1982 COTTON CROP.

	COTTON % HARVESTED		
	1983	1982	AVG.
ALA	2	2	4
ARIZ	1	1	3
ARK	3	14	5
CALIF	0	0	0
GA	3	4	11
LA	0	6	5
MISS	0	4	3
MO	11	6	11
N MEX	0	0	0
N C	0	0	6
OKLA	0	0	0
S C	2	2	4
TENN	3	4	4
TEX	13	16	15
14 STATES	6	9	8

THESE 14 STATES PRODUCED 99% OF THE 1982 COTTON CROP.

## State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by SRS State Statistical Offices in cooperation with the National Weather Service.

**ALABAMA:** Temperatures 2° below normal. Rain-fall less than 0.50 to 3.00 in.

Soil moisture very short to adequate. Fieldwork: 4.7 days. Corn harvested 70%, 1982 72%, average 59%. Soybeans: Turning yellow 38%, 1982 42%, average 44%; dropping leaves 15%, 1982 18%; mature 16%, 1982 12%, average 16%. Cotton: Bolls open 43%, 1982 63%, average 50%; harvested 2%, 1982 2%, average 4%. Peanuts: Dug 14%, 1982 38%, average 21%; combined 7%, 1982 23%, average 13%. Sorghum harvested 40%, 1982 45%. Activities: Harvesting corn, cotton, sorghum, peanuts, hay, and vegetables; pest control on field crops; routine care of livestock and poultry; and land preparation for fall crops. Stem canker was reported in soybean fields in the southern part of the State. Corn, soybeans, and cotton mostly fair condition; peanuts, sorghum, pastures, and livestock were fair.

**ALASKA:** Cool and dry weather with a brief period of rain midweek over southern areas. Temperatures cooler than normal. Precipitation dryer than normal.

Cool temperatures and sunshine allowed growers from 3 to 6 days for harvesting throughout Railbelt. Harvest of 1983 barley crop nearing the half way mark; moisture content ranged 11 to generally 27%. Last year, harvest was 30% complete. Second crop hay harvest 40% complete. Yield and quality of potatoes generally excellent and digging was 75% complete. Topsoil moisture supplies varied short to surplus; subsoil moisture mostly adequate to surplus.

**ARIZONA:** Scattered showers, thunderstorms most areas. Heaviest precipitation in southeast corner. Rainfall totals between 0.25 and 0.50 in., some amounts 1.00 in. along Mogollon Rim. Temperatures ranged 9° above normal at Phoenix to 1° above normal at south rim of Grand Canyon.

Cotton harvest beginning, very limited scale. Yuma County greatest amount harvest activity. Few bales picked other areas. Cotton 1% harvested, same as year ago, average 3%. Defoliation in progress, continuing increasing rate. Insects still problem, spraying done as needed. Cotton crop in average condition, normal progress. Open bolls present 70% of acreage, same as a year ago, 75% 3 year average. State's corn, grain sorghum average condition, progress normal. Early grain sorghum mature, harvest early maturing fields underway Yuma area. Alfalfa in average condition. Harvest near peak some areas, other areas delayed, some damage because of rains. Planting active fall vegetable crops. Most activity for lettuce, broccoli, cauliflower, some other mixed vegetables. Yuma lettuce planting normal progress, crop good condition. Lettuce harvest underway Willcox area. Some lettuce destroyed by rain Pima County area. Cantaloups, honeydews, water-melons for fall harvest good condition, normal crop progress. Watermelon harvest winding down, will be complete by September 24th. Summer cantaloup harvest normal progress. Lemon harvest increasing Yuma area, some picking Maricopa County. Grapefruit harvest limited scale Yuma area, no harvest other areas. Citrus crops good condition. Apple harvest Willcox area full swing, about half crop harvested.

**ARKANSAS:** Cool weather broke heat wave. Temperatures averaged 2° below normal northwest

to 5° above normal other portions. High 100°, low 47°. Rainfall sparse generally less than 0.50 in. Most 2.45 in.

Days suitable for fieldwork 6.9. Slow crop progress. Soil moisture supply short to very short. Cotton fair; bolls opening 67%, 84% 1982, 56% average. Rice good; headed 100%, 99% 1982, 99% average; rice 48%, 71% 1982, 67% average; harvested 18%, 27% 1982, 22% average. Soybeans poor; setting pods 83%, 95% 1982, 90% average; turning yellow 23%, 22% 1982, 27% average; shedding leaves 14%, 10% 1982, 17% average. Corn fair; harvested 73%, 84% 1982, 59% average. Sorghum fair; harvested 50%; 70% 1982, 57% average. Pastures poor. Cattle requiring supplemental feeding.

**CALIFORNIA:** High pressure both at the surface and aloft. Continued warm and dry over the entire State. All weekly means above normal.

Ideal weather assisting field crop development in the Central Valley. Rice looking very favorable as the first fields were being harvested, 1%, 1% last year, 4% average. Cotton making good progress. Fields being defoliated in south San Joaquin Valley and Riverside. Dry bean harvest picking up. Yields slightly lower due to hot temperatures. Alfalfa harvest continues. Corn and grain sorghum maturing well. Land preparation for small grains taking place. Apple harvest, full swing, some scab. Avocado harvest nearly complete. Fig harvest continues. Raisin harvest 2/3's complete. Table and wine grape harvest active, good quality. Hot temperatures helped control bunch rot. Freestone peach, plum, and nectarine harvest continues, San Joaquin Valley. Prune harvest well along. Summer grapefruit picking continues, good quality and demand. Hot weather hindered lemon growth in Desert, reduced Valencia orange quality. Nonpareil almond harvest nearly complete, smaller than expected crop. Pistachio harvest accelerating. Walnut harvest beginning. Artichokes light supply. Snap bean harvest continues. Broccoli, cauliflower moderate supply Central Coast. Cantaloup harvest decreasing San Joaquin Valley, early plantings forming Fruit Desert. Carrots moderate supply. Celery harvest active Central Coast. Lettuce yields, quality reduced by heat Salinas-Watsonville. Potato vines killed by frost Tulalake-Butte Valley except where sprinkled. Sweetpotato harvest increasing. Market tomato harvest continued South Coast, Central Coast, northern San Joaquin Valley. Processing tomato harvest past peak. Harvest continues with most tonnage from Sacramento Valley. Cattle continue to be moved to winter grazing areas. Calving underway in northern and central areas. Supplemental feeding continues in some areas.

**COLORADO:** Cooler with seasonal weather, warm days and cool nights, dominating the week. Light showers occurred at midweek on the eastern Plains cooling things off but offering no real help with moisture. Temperatures were near normal.

Winter wheat in good condition: 51% seeded, 44% last year, 61% average; 19% emerged, 22% last year, 26% average. Corn in good to very good condition: 93% dough, 92% last year, 93% average; 75% dented, 65% last year, 69% average; 12% mature, 13% last year, 18% average; 0%

harvested, 0% last year and average. Sorghum in fair condition: 94% headed, 99% last year and 97% average; 68% turning color, 63% last year, 68% average; 11% mature, last year and average; 0% harvested, last year and average. Barley in very good condition: 92% harvested, 78% last year, 88% average. Spring wheat in very good condition: 75% harvested, 60% last year, 68% average. Statewide 6.0 days suitable for fieldwork. Topsoil moisture very short southeast, adequate in northwest, short elsewhere. Range and pasture fair in southeast, good to very good rest of State. Subsoil moisture short in southeast, adequate elsewhere.

FLORIDA: Partly cloudy skies with scattered showers, thunderstorms under falling pressures on the 12th gave way to widespread rain showers, thunderstorms remainder of period. A trough of lower pressure anchored in over State on the 13th and continued to hold remainder of week.

Soil moisture variable, mostly adequate. A few scattered dry spots in lower south, north and eastern Panhandle. A few wet spots Gulf Coast areas, northeast. Soybeans maturing, harvest to begin within 2 to 3 weeks. Peanut harvest underway all areas, rain delayed digging some localities. Showers beneficial to dry land peanuts but yields will be reduced. Hay making continues, dry weather will cause lower production some areas. Cotton very good condition, above average yields expected. Sugarcane growing rapidly, some cane being cut for seed. Pastures fair to good condition, Panhandle, northern Peninsula; mostly good to excellent elsewhere. Recent rains over much of State have improved condition considerably. Cattle condition mostly good. Citrus trees excellent condition. Heavy new growth on most trees. First white seedless grapefruit shipped. New fruit progressing slowly in maturity. Slightly lower temperatures, partly cloudy to cloudy skies prevailed in vegetable areas. Rainfall variable, fieldwork delayed by rain in some areas while irrigation continued in drier locations of lower southeast coast. Land preparation continues active. Laying plastic for October planting of strawberries underway in Hillsborough-Manatee area. Plantings of most fall vegetables continue active or increasing. Potato plantings expected this week Pompano area. Conditions generally good most crops. Light harvest sweet corn underway Zellwood area.

GEORGIA: Quite warm first half but much cooler second half. Average temperatures 1 to 2° above normal. Most rainfall latter half. Average amounts near 0.50 in. north to around 1.50 in. south. Summer-like daytime temperatures over the weekend. Pleasant overnight lows mostly in the 60's. Average temperatures near normal. Very widely scattered showers in extreme south, averaging less than 0.05 in.

Soil moisture 2% very short, 23% short, 61% adequate, 14% surplus. Average days suitable for fieldwork 3.5. Main activities: Harvesting, land preparation for fall planting, insect and disease control. Corn condition 6% very poor, 21% poor, 50% fair, 21% good; 100% mature this year, 99% last year and average; 74% harvested, last year 82%, 77% average. Cotton condition 4% very poor, 31% poor, 49% fair, 14% good; 57% bolls open this year, last year 56%, 65% average; 3% harvested this year, 4% last year, 11% average. Peanut condition 21% poor, 58% fair, 17% good; 27% dug, 58% last year, 43% average; 16% threshed, 36% last year, 28% average. Soybean condition 3% very poor, 30% poor, 46% fair, 20% good; 99% blooming, last year and average 100%; 97% setting pods,

98% last year, 96% average; 18% dropping leaves, 23% last year, 20% average; harvest begun but less than half percent, last year and average also 0%. Tobacco 99% harvested, last year and average 100%. Apple condition 4% very poor, 39% poor, 39% fair, 18% good; 76% harvested, last year 90%, average 81%. Pecan condition 4% very poor, 17% poor, 52% fair, 27% good. Hay crops 3% very poor, 22% poor, 48% fair, 27% good. Pastures 13% poor, 51% fair, 35% good. Wheat 3% planted, last year 1%, average 4%. Rye 4% planted, 4% last year, 3% average. Other small grains 5% planted, 4% last year, 5% average.

HAWAII: Favorable weather continued to prevail over the State. Light to moderate showers fell between periods of sunshine almost on a daily basis.

Crops in drier areas progressed normally under regular irrigation programs. Supplies of head cabbage, head lettuce, and Chinese cabbage remain heavy. Some quality problems due to the recent weather were reported. Papaya production at a seasonal low. Watermelon production expected to increase in the coming weeks.

IDAHO: Pacific weather system brushed across the northern half of State early in the week bringing locally moderate rain to portions of the Panhandle and north central prairies. Also, at the beginning of the week, thunder-showers dumped locally heavy rain and hail in extreme southeast. By midweek warmer and drier weather was experienced. Temperatures were near normal across the State. Departures ranged from 4° below normal at Grangeville to 3° above average at Idaho Falls. Precipitation was mainly limited to north and southeast. Some of the greater weekly totals were 1.02 in. at Grace, 1.00 in. at Sandpoint and 0.29 in. at Lewiston.

Farmers reported 6.6 days suitable for fieldwork. Winter wheat was 19% seeded compared to 20% a year ago and 18% average. Spring wheat was 90% harvested versus 88% last year and average. Barley climbed to 90% harvested the same level as 1982 but 6 points behind the average of 96%. Potatoes were 9% dug versus 4% last year and 5% average. Dry beans topped 33% harvested versus 30% last year and 26% average. Silage corn advanced to 20% harvested compared to 30% a year ago. The third cutting of alfalfa was 20% complete versus 31% last year. Onions were 44% harvested compared to 42% for 1982.

ILLINOIS: Temperatures 5° above normal to 3° below normal. Precipitation none to 3.23 in. widely scattered.

Soil moisture 85% short, 15% adequate. Days suitable fieldwork: 5.8. Corn mature 78%, 1982 83%, average 72%; harvested 8%, 1982 4%, average 4%; condition 8% good, 46% fair, 43% poor, 3% failure. Soybeans 85% turning yellow, 1982 85%, average 76%; 60% shedding leaves, 1985 57%, average 46%; 9% harvested, 1982 4%, average 4%; condition 10% good, 62% fair, 28% poor. Wheat 2% planted, 1982 1%, average 3%. Pasture condition 5% good, 25% fair, 54% poor, 16% failure. Livestock condition fair.

INDIANA: Precipitation north 0.50 to 1.50 in., central 0.25 to 0.33 in., southern half 0.10 in. or less. Temperatures in 90's early and late in week. Weekly average 1 to 3° above normal. Evaporative loss less than 1.00 in. north, central and south 1.50 in.

Fieldwork averaged 6.1 days. Topsoil and subsoil moisture short. Corn 3% harvested,

1982 2%, average 1%. Corn moisture 26%, 1982 27%. Corn 98% dented, 1982 99%, average 90%. Corn 60% mature, 1982 75%, average 45%. Corn condition poor. Soybeans 4% combined, 1982 5%, average 1%. Soybeans 60% shedding leaves, 1982 70%, average 35%. Soybean condition poor to mostly fair. Wheat 3% seeded, 1982 3%, average 3%. Wheat land 32% plowed, 1982 40%, average 40%. Tobacco 30% harvested, 1982 65%, average 65%. Silos 60% filled, 1982 60%, average 45%. Pasture condition poor.

IOWA: A cool, moist week. Temperatures were 3 to 4° below normal over most of State for the first time in 13 weeks. Temperatures dropped to 32° at Elkader and 34° at Anamosa on the 14th. Heavy showers the night of Sept. 18 and 19 produced heavy rains primarily over the southeast and moderate rains in the central. Daily evaporation averaged from 0.16 to 0.21 in.

Days suitable 5.0. Corn in dent stage 96%, 71% last year, 88% normal; mature 74%, 21% last year, 51% normal; harvested 8%, 0% last year, 1% normal. Soybeans with leaves turning 85%, 54% last year, 80% normal; leaves shedding 50%, 17% last year, 42% normal; mature 25%, 5% last year, 20% normal; harvested 3%, 0% last year, 0% normal. Third crop alfalfa hay harvested 88%, 88% last year, 91% normal. Topsoil moisture 41% short, 58% adequate, 1% surplus. Subsoil moisture 62% short, 38% adequate.

KANSAS: Precipitation averaged little or none northwest, 0.50 in. to 0.90 in. west central, north central and northeast, 1.15 in. to 1.40 in. elsewhere. Temperatures averaged 74° south central, 69 to 72° elsewhere, 4° above normal northwest and west central, 1 to 3° above normal elsewhere.

Wheat 5% planted, 10% last year, 20% average. Corn 99% dough, 98% last year, 99% average; 80% dent, 80% last year, 85% average; 40% mature, 40% last year, 60% average; 10% harvested, 4% last year, 10% average. Sorghum 95% headed, 95% last year, 97% average; 60% colored, 45% last year, 70% average; 20% mature, 10% last year, 25% average; 5% harvested, 2% last year, 5% average. Farmers continue to cut corn, sorghum for silage, forage. Soybeans 100% podded, 90% last year, 99% average; 40% dropping leaves, 15% last year, 30% average; 1% harvested, 1% last year and average. Some cutting soybeans for hay. Alfalfa hay 3rd cut 98% complete, 97% last year, 98% average; 4th cut 35% complete, 45% last year and average. Much of 4th cut for seed. New alfalfa planting behind schedule, dry seedbeds. Surface moisture short to adequate south, subsoil moisture short to adequate west and south central; otherwise, short. Pastures and range severe drought to fair, improving some areas with recent rains. Supplemental feeding necessary most areas. Days suitable for fieldwork: 5.5.

KENTUCKY: First strong cold front of fall dominated weather through most of week. Temperatures few degrees below normal. Temperatures above normal during weekend. Precipitation amounts less than 0.50 in. over northwest 2/3's of State to around 0.60 in. southeast.

All days suitable for fieldwork. Soil moisture 79% critically short, 18% short, 3% adequate. Adequate conditions confined to few eastern locations, western 2/3's critically short. Tobacco harvest progressing rapidly, but still behind. Burley 58% cut, 80% last year, 77% average. Dark tobacco 60% cut. Tobacco curing well in most cases, but some drying up. Little houseburn. Corn harvest underway Statewide; 10% harvested, 9% last year, 11%

average. Yields poor. Corn 92% dented or beyond, 100% last year, 98% average; 56% mature, 78% year ago, 64% average. Soybean maturing with 19% shedding leaves, 28% last year, 24% average. Leaves turning yellow on additional 34% acreage. Cool temperatures will help hay fields and pasture, but need rain. Farmers continue to feed hay and haul water to livestock.

LOUISIANA: Rainfall less than 0.50 in. north central, 1.00 in. elsewhere. Temperatures 2 to 3° above normal north, 2 to 3° below south. High 93°, low 53°.

Soil moisture short north, short to adequate central, adequate to surplus south. Days suitable 5.4. Main activities fall plowing and harvesting corn, rice, sorghum, and soybeans. Corn harvest 84%, 90% 1982, 86% average. Cotton open bolls 47%, 88% 1982, 64% average. Condition poor to fair. Rice ripe 91%, 94% 1982. Rice harvested 74%, 83% 1982, 86% average. Soybeans setting pods 98%, 97% 1982. Soybeans turning color 39%, 49% 1982, 47% average. Soybeans shedding 16%, 24% 1982, 24% average. Soybeans harvested 1%, 3% 1982, 2% average. Condition fair. Sorghum turning color 98%, 99% 1982. Sorghum ripe 89%, 94% 1982, 84% average. Sorghum harvested 79%, 84% 1982, 62% average. Sugarcane planted 42%, 52% 1982, 40% average. Condition good. Sweetpotatoes harvested 63%, 47% 1982, 50% average. Condition good. Pecans rated good. Vegetables rated fair. Hay final cutting 66%, 65% 1982. Pasture and livestock in fair to good condition.

MARYLAND AND DELAWARE: Maryland: Rains fell over most of State but were of little benefit for crop development. Temperatures 1 to 3° above normal. Heaviest rains fell on the lower shore.

Corn, dough 100%, equal to last year, dent, 80%, last year 90%, mature 50%, 65% last year. Grain corn harvested 15%, 1983, 1982. Soybeans 100% podded, 45% turned, 10% shed leaves, percents for 1982 90, 35, 25 respectively. Tobacco, 95% bloomed, 80% topped, 60% harvested. Tobacco harvest 85% 1982. Fourth cutting of alfalfa hay 55% this year and last. Fourth cutting other hay 15% cut. Fall barley 5% seeded. Apples, sweetpotatoes and tomatoes still being harvested.

Delaware: Rains fell throughout the State improving soil moisture in the southern counties.

Days suitable for fieldwork: 5.0. Soybean in fair to good condition with better beans in the south. Soybeans; 100% podded, 20% turned, 5% shed. Last year 100%, 60%, 15% respectively. Corn; dented 90%, 85% last year, mature 65%, 1983 and 1982. Grain corn 10% harvested, 20% last year. Silage 65% cut, 80% last year. Fourth cutting of alfalfa hay 40%, 35% 1982. Fourth cutting of other hay 20% complete. Apples and tomatoes still being harvested.

MICHIGAN: Temperatures fell below normal and moderate amounts of rain fell over the entire State for first time this fall. Temperatures averaged 3° below normal. Precipitation ranged from 0.50 on the south central and southeast section to over 2.00 in. in the central portions of the lower Peninsula.

Statewide 5.5 days were suitable for fieldwork. Corn 90% dented, 85% last year, 88% average. Corn 40% mature, 55% last year, 37% average. Currently 2% harvested, 1% last year, 0% average. Corn silage 25% harvested, 20% last year, 23% average. Dry beans 15% harvested, 20% last year, 38% average. Soybeans 55% dropping leaves, 60% last year, 39% average. Soybeans 20% mature, 25% last year, 10% average.

Harvest virtually non existent at this time. Third cutting hay 70% baled, 65% last year, 58% average. Wheat 5% planted, 5% last year, 9% average. Fall apples sizing up well and of good quality. Cooler temperatures have helped coloring. Vegetables harvested progressing near normal.

MINNESOTA: Cool and cloudy most of the week. Rain widespread during midweek. First freezing temperature recorded. Temperatures averaged 3 to 5° below normal. High: 82°. Low: 31°. Precipitation averaged 0.11 in. below normal for southwest, normal for west central, and 0.31 to 0.91 in. above normal elsewhere. Greatest reported weekly total: 2.16 in.

Showers kept farmers out of fields for much of the week, especially in northern areas. Days suitable for fieldwork: 4.0. Topsoil moisture: 10% short, 58% adequate, 32% surplus. Many corn producers expected to begin full-scale harvest early to avoid further wind losses on heavily corn borer-infested fields. Corn harvest depends on when ground dries out and grain moistures gets down to around 30%. Field corn denting 98%, 1982 88%, normal 87%. Soybeans shedding leaves 48%, 1982 34%, normal 51%. Field corn mature 47%, 1982 20%, normal 31%. Soybeans mature 13%, 1982 8%, normal 11%.

MISSISSIPPI: Cold front midweek dropped lows into the 40's in the north. Rainfall ranged from none all week in some northern locations to nearly 5.00 in.

Soil moisture short to very short in the north and northwest, short to adequate remainder of State. Fieldwork 5.8 days suitable, 4.8 1982, 4.5 average. Soybeans 94% podding, 99% 1982, 100% average; 7% shedding, 28% 1982, 36% average; 0% harvested, 1% 1982, 2% average; condition poor to fair. Cotton 70% open bolls, 96% 1982, 82% average, 0% harvested, 4% 1982, 3% average; condition fair to poor. Rice 16% harvested, 30% 1982, 35% average; condition fair to good. Corn fair; 36% harvested. Sorghum 33% harvested; hay 90%; sorghum silage 85%; corn silage 89%; watermelons 100%; peanuts 50%; sweetpotatoes 23%. Pasture condition fair to poor. Pecan crop fair to good.

MISSOURI: Temperatures averaged 1 to 2° below normal. Precipitation was heavy across northern part of State and light in central and southern.

Days suitable for fieldwork: 5.1. Corn 83% mature, 50% last year, 50% normal. Corn 24% harvested, 11% last year, 14% normal. Grain sorghum 67% mature, 59% last year, 50% normal. Sorghum 26% harvested, 21% last year, 16% normal. Soybeans 64% turning color, 30% last year, 42% normal. Soybeans 22% mature, 6% last year, 10% normal. Soybeans 3% harvested, 0% last year, 2% normal. Winter wheat seeding 3% completed, 4% last year, 5% normal. Cotton 90% open bolls, 96% last year, 70% normal. Cotton 11% harvested, 6% last year, 11% normal. Cotton condition 10% fair, 90% poor. Soybean condition 1% good, 25% fair, 74% poor. Grain sorghum 1% good, 38% fair, 61% poor. Pasture 12% fair, 88% poor. Topsoil moisture supplies 10% adequate, 90% short.

MONTANA: Moderate precipitation over west first of week, light to none elsewhere. Temperatures averaged 2° above normal over southwest and 3° below normal in northeast. Near normal temperatures elsewhere.

Topsoil and subsoil moisture mostly short except northwest district. Winter wheat seeding 25% done, last year 20%, average 25%; some hold-up due to moisture shortage. Percent harvest completed compared with last year and average:

Dry beans 30, 40, 40; corn silage 40, 25, 45. Small grain harvest in wind-up. Fieldwork, 6.1 days suitable. Fall grazing prospects fair. About 35% of cattle and sheep moved from summer ranges, slightly ahead of normal.

NEBRASKA: Temperatures 2° above normal Panhandle, 2° below normal over north and near normal south. Precipitation less than 0.10 in. west, 0.50 in. north and 1.00 in. south central and southeast.

Corn good to fair. Dent 96%, 60% last year and 85% average; mature 40%, 5%, 30%; harvested 2%, 0%, 0%. Heavy amounts of field loss possible due to open borer and stalk rot damage. Soybeans fair. Turning color 85%, 35%, 70%; shedding leaves 40%, 7%, 30%; harvested 1%, 0%, 0%. Sorghum fair. Turning color 93%, 50%, 80%; ripe 25%, 1%, 25%; harvested 4%, 0%, 0%. Pasture short to adequate. Topsoil and subsoil moisture mostly short to adequate. Days suitable for fieldwork 6.0.

NEVADA: High pressure system dominated weather pattern throughout week. Temperatures warmed to 5 to 15° higher than usual. Extremes: 107 and 28°. Only one report of light rainfall north border.

Alfalfa seed and potato harvests full swing. Sixth cuttings alfalfa hay well along extreme south. Third cuttings windup stage elsewhere. Ranges excellent.

NEW ENGLAND: Warm temperatures in the 90's early in the week gave way to cooler temperatures and frost later in the week. Rainfall ranged from 0.25 to 1.14 in.

Days suitable for fieldwork averaged 6.5. Soil moisture supplies short. Maine potatoes 10% dug. Rhode Island potatoes 85% harvested. Silage corn 15% harvested, same as last year. Third crop hay 65% cut.

NEW JERSEY: Temperatures averaged 1° below normal. Weekly rainfall averaged 0.38 in. north, 0.84 in., central and 0.75 in. south. The heaviest 24-hour total was 1.20 in. on the 12th to 13th. Estimated soil moisture in percent of field capacity averaged 67% north, 66% central and 47% south. Four inch soil temperatures today averaged 66° north, 71° central and 72° south.

Fieldwork 6.3 days suitable. Some later potato yields improving. Cooler weather improved growing conditions for fall vegetables. Additional rainfall is needed. Corn silage harvest continues.

NEW MEXICO: Average temperatures above normal. Minimum temperature 35°, northern mountains. Maximum temperature 96°, various locations. Scattered thundershowers Statewide early in week. Activity later in week confined to southern mountain areas. Precipitation amounts generally less than 0.75 in.

Soil moisture very short to short. Cotton rated good, 1 to 2 weeks behind normal. About 21% of fields opening bolls, 50% last year and 33% average. Alfalfa mostly good, 3rd cutting in northern areas, 4th cutting 70% complete elsewhere. Irrigated grain sorghum good, 100% dough. Dryland crop poor, 90% dough. Corn rated good, 40% silage fields cut. Grain fields in dough, little harvest activity. Peanuts rated good. Chile harvest continues. Apple harvest begun. Mesilla valley lettuce being thinned. Cattle, sheep good. Some herd liquidation occurring. Ranges poor most areas. Favorable northwest.

NEW YORK: Temperatures near normal, rainfall subnormal across State. All areas 1.00 to 3.00 in. below normal over last 5 weeks.

Corn silage harvest 8% done, 15% 1982, 12% average. Oat harvest done. Third cutting alfalfa 60% done, 55% 1982, 53% average. Grape harvest in full swing. Apples sizing nicely, some growers waiting for cool weather to color apples. Bosc pear harvest beginning. Onion crop size and yields variable. Potatoes, cauliflower in good condition. Sweet corn harvest winding down. Snap bean harvest about done.

**NORTH CAROLINA:** Temperatures near normal, except slightly above southeast. Good rains midweek 0.18 to 4.00 in.

Soil moisture: 12% very short, 54% short, 34% adequate. Days suitable for fieldwork: 5.1. Condition: Cotton 42% poor, 55% fair, 3% good. Peanuts: 21% poor, 68% fair, 11% good. Soybeans: 49% poor, 42% fair, 9% good. Sorghum: 37% poor, 57% fair, 6% good. Apples: 22% poor, 48% fair, 30% good. Sweetpotatoes: 27% poor, 64% fair, 9% good. Phenological stages: Cotton opening bolls: 87%, 1982 79%, average 70%. Corn mature: 95%, 1982 96%, average 94%. Soybeans setting pods: 95%, 1982 93%, average 92%. Harvests: Flue-tobacco: 88%, 99% 1982, average 95%. Corn for grain: 36%, 1982 53%, average 50%. Corn for silage: 78%, 1982 84%, average 84%. Apples: 24%, 1982 65%, average 44%. Burley tobacco: 28%, 1982 62%, average 67%. Sorghum harvest just beginning. Sweetpotatoes: 6%, 1982 30%, average 23%. Major farm activities: Corn grain harvest, flue tobacco harvest and marketing, burley tobacco harvest, silage cutting, preparation of land for fall planting, vegetable harvest, hay making, scouting and spraying soybeans and peanuts.

**NORTH DAKOTA:** Temperatures averaged 3 to 7° below normal. Extremes from 26° southeast to 83° also southeast. Large amounts of rain fell in the north while the southwest remained dry. Average rainfall ranged from 1.50 in. above normal north central to 0.18 in. below normal southwest. Maximum precipitation 2.62 in. northeast. Southwest only a trace.

Rain welcomed to help restore soil moisture. Fieldwork delayed. Average of 4.2 days suitable. Rain beneficial for winter wheat and rye. Seeding slowed but at 80 and 86%, still ahead of normal. Flax and row crop harvest delayed. Sunflower and corn mostly fair to good condition. Soybeans mostly good. The percent harvested compared to last year and average: Sunflower 1, 0, 1; corn grain 2, 2, 1; flax 69, 49, 45; soybeans 4, 0, 5; dry beans 27, 25, 34; potatoes 16, 26, 27; and sugarbeets 6, 6, 2. Drier weather needed for harvest. Hard frost needed for drying sunflower.

**OHIO:** Temperatures north 1 to 2° below average, south 1 to 2° above average. Precipitation widespread coverage ranging 0.10 in. west and extreme south to 2.00 in. central.

Corn and soybeans fair. Still very dry. Filling silos, preparing wheat beds. Winter wheat planted 3%, 5% 1982, 5% average. Soybeans dropping leaves 50%, 70% 1982, 45% average; mature 15%, 40% 1982, 15% average; harvested 3%, 5% 1982, 1% average. Corn dent 98%, 100% 1982, 100% average; mature 60%, 80% 1982, 50% average; harvested 5%, 5% 1982, 1% average. Days favorable 6.0. Pasture condition poor to fair. Soil moisture 79% short, 21% adequate.

**OKLAHOMA:** Average temperatures ranged from 1° above normal Panhandle and north central to 4° above normal southwest and east central. Precipitation ranged from 0.42 in. southeast to 2.85 in. north central.

Late-planted row crops and wheat pasture prospects improved somewhat in areas which received rainfall. Showers were too late to relieve stressed conditions on most cotton and soybean crops. Wheat seeding should increase in State except in south where additional moisture is needed. Pastures and ranges were in fair condition with some greening from recent rains. Wheat planted: 10%, 5% 1982, 20% average. Sorghum coloring: 85%, 85% 1982, 90% average; mature: 15%, 35% 1982, 50% average; harvested: 5%, 10% 1982, 10% average. Cotton open bolls: 10%, 5% 1982, 25% average; harvested: 0%, 0% 1982, 0% average.

**OREGON:** Scattered showers west of Cascades beginning of week sunny, dry skies end of week. Temperatures 3° warmer than normal west of Cascades and in south central areas. Rest of State was 1 to 2° below normal.

The 1984 winter wheat crop was 6% seeded compared with 12% last year and 9% on average. In areas where seeding was not started, ground preparation was ongoing. Late grain harvest very near complete. Clovers and grasses being planted. Apples, prunes, winter pears and peaches being picked, while berry harvest virtually complete. Sweet corn, broccoli, cauliflower and tomatoes were the major vegetable crops still being picked. Both potato and onion harvests in full swing. Mint harvest complete, preparation for next season underway. Filbert harvest still 2 weeks off and cranberry harvest about 1 week away. Soil moisture adequate Statewide. Livestock, range and pasture condition good Statewide.

**PENNSYLVANIA:** Colder air overspread the area and remained during the week. Below freezing temperatures occurred on the morning of the 15th. First week that State temperature average was below normal since mid-August. Precipitation occurred over all of the State with amounts ranging from 0.25 in. to just over 2.00 in. State average continued to be below the normal.

Days suitable; 5.0. Moisture mostly short. Activities: Plowing; seeding barley, wheat, and rye; making hay; and harvesting tobacco, corn silage, potatoes, cabbage, tomatoes, apples, peaches and grapes. Tobacco 70% harvested, last year 77%. Potatoes 48% harvested, last year 55%. Corn silage 30% harvested, last year 39%. Corn for grain 63% dented or past and 15% mature; last year 71% dented or past and 15% mature; average 75% dented or past and 18% mature. Fall plowing 53% complete; last year 69%; average 55%. Barley 32% planted, last year 43%. Wheat 15% planted; last year 29%. Third crop alfalfa 84% harvested, last year 72%. Fourth crop alfalfa 20% harvested, last year 32%. Second cutting clo-time 93% harvested, last year virtually complete. Quality of hay made good to fair. Feed from pastures mostly below average.

**PUERTO RICO:** Report not available.

**SOUTH CAROLINA:** Weather changed from warmer than usual to decidedly cooler, finally about normal. Much needed rains fell with localized amounts in excess of 3.00 in.

Soil moisture short to adequate. Days for fieldwork: 5.1. Corn 65% harvested, 82% last year, 74% average; conditions poor to fair. Cotton bolls 81% open, 65% last year, 75% average; 2% harvested now and year ago, 4% average; condition poor. Soybeans 89% setting pods, 94% year ago, 95% average; 4% shedding leaves with some due to drought, 8% last year, none mature, 1% last year, 2% average; rains helping later varieties prospects; condition poor to fair. Peanuts 5% harvested, 9% year ago, average; poor conditions.

**SOUTH DAKOTA:** Average temperatures 7° below to 4° above normal. Extremes: 96 and 26°. Above normal precipitation north central and northeast regions. Amounts from none to 1.04 in.

Row crop conditions fair to good. Corn borers and grasshoppers causing damage throughout State. Main activities were cutting corn silage, seeding winter grains, moving hay and fall tillage. Days suitable for fieldwork: 5.4. Corn dent 89%, 1982 72%, average 91%. Corn mature 65%, 1982 43%, average 61%. Corn harvested 1%, 1982 0%, average 1%. Sorghum coloring 88%, 1982 68%, average 83%. Sorghum mature 27%, 1982 24%, average 32%. Sorghum harvested 0%, 1982 0%, average 1%. Winter wheat seeded 65%, 1982 53%, average 68%. Winter wheat emerged 27%, 1982 18%, average 28%.

**TENNESSEE:** Temperatures averaged above normal. Means ranged from 78° at Nashville to 69° at Bristol. Scattered showers were prevalent during the week but rainfall amounts were mostly light.

Corn mature 79%, 1982 76%, average 67%; harvested 12%, 1982 10%, average 13%. Cotton open bolls 53%, 1982 64%, average 36%; picked 3%, 1982 4%, average 4%. Soybeans shedding leaves 13%, 1982 18%, average 14%; mature 2%, 1982 2%, average 3%; harvested 0%, 1982 0%, average 0%. Tobacco harvested: Burley 77%, 1982 84% average 83%, dark-fired 57%, 1982 78%, average 78%; dark air-cured 56%, 1982 86%, average 83%. Wheat sown 3%, 1982 11%, average 14%. Pastures poor.

**TEXAS:** Mostly cloudy skies, showers and thunderstorms accompanied front early week. Warm days persisted throughout week. Numerous showers, thunderstorms over South Plains, western North Texas. End of week, showers, thunderstorms continued Upper Coast. Some flooding over South Texas. Average temperature near normal Statewide, 3° above normal North Central Texas, Edwards Plateau.

**Crops:** Despite showers, State remains under drought like conditions. For State's dryland cotton, sorghum, rain came too late, little benefit received. Showers helpful where small grain seeding delayed due to dryness. Cotton harvest continued to gain momentum. Dryland fields deteriorated further. Irrigated fields in good condition, excellent yields expected. Current condition 61% compared with 57% a year ago. About 2% excellent; 20% good; 64% fair; 14% poor. Sorghum harvest continued in full swing, moving well into Plains. Fields maturing rapidly, some fields High Plains beginning to turn color. Irrigated fields in excellent condition. Heads developed well, dryland sorghum continued to suffer. By week's end condition was 74% compared with 92% a year ago. Reported condition 9% excellent; 45% good; 37% fair; 7% poor; 2% failure. Corn harvest continued at a rapid pace. Progress continued ahead of previous year. Harvest activity moving into Plains where silage, high moisture cutting underway. Irrigated corn High Plains, in excellent condition. Peanuts continue to develop well. Dryland fields under stress but have withstood conditions. Small grain planting behind previous years. Showers helpful in areas where producers "dusting" in wheat. Wheat planting on irrigated fields underway.

Cotton open bolls 29%, 32% 1982, 35% average; harvested 13%, 16% 1982, 15% average. Rice harvested 100%, 100% 1982, 100% average. Sorghum headed 100%, 100% 1982, 100% average; turning color 82%, 86% 1982, 88% average; mature 67%, 71% 1982, 74% average. Wheat planted all purposes 8%, 19% 1982, 25% average; emerged 0%, 2% 1982, 4% average. Corn harvested for

grain 70%, 52% 1982, 50% average. Peanuts harvested 4%, 13% 1982, 18% average. Soybeans harvested 0%, 0% 1982, 1% average. Sunflowers harvested 5%, 18% 1982, 12% average. Oats planted for all purposes 10%, 11%, 1982, 16% average. Sorghum harvested for grain 64%, 67% 1982, 69% average.

**Commercial vegetables:** Rio Grande Valley, land preparation active. Some lettuce, peppers, fall vegetables being planted. Citrus fruit sizing well, some scaring. San Antonio-Winter Garden area, land preparation continued. Showers helpful in relieving pre-plant irrigation. East Texas, harvest of watermelons, cantaloups, tomatoes winding down. Sweetpotato harvest gaining momentum, potatoes exhibiting excellent quality, texture although sizes small. Trans-Pecos region, tomato harvest active. Carrots developing well. Cantaloup harvest nearly complete. Plains, harvest of peppers, cucumbers continued. Carrots continue to make good progress. Pecans maturing well, entering hardening stages. Some scab problems, increased droppage occurred.

**Range and livestock:** Range, pasture condition made little improvement despite scattered showers. The Coast, East, Northeast Texas only areas reporting available grazing. Plains, West Texas remain under drought light conditions, no significant grazing available. Supplemental feeding picking up. Livestock conditions remains good.

**UTAH:** Scattered thunderstorms few locations. Accumulations generally light. Temperatures averaged 3° above normal north, 6° above south.

Good weather allowed 6.7 days for fieldwork. Major activities included hay harvest, completion of small grain combining, and winter wheat seeding. Third crop hay 42% cut. Quality improved over second crop but tonnage down. Barley and spring wheat 90% combined. Yields about average. Some quality loss due to rains. Corn for silage being cut most areas. Grain corn in early dent stage. Some may not mature before frost. Peach and pear harvest past mid-point. Some quality loss due to storm damage and disease. Tonnage well above last year.

**VIRGINIA:** The week began warm but ended cool. The hot spell was broken with minimum temperatures in the 40's. The average departure was still plus 3°. Precipitation occurred during the first part of the week in variable amounts throughout the State.

Precipitation and cooler temperatures helpful but more moisture needed. Topsoil moisture still low at 83% short, 17% adequate. Days suitable for fieldwork 4.8. Corn for gain 30% harvested, 25% 1982, 26% average. Silage harvest 75% complete, 72% last year, 61% average. Yields for both reported very poor. Soybean condition very poor. Cutting for hay active. Peanuts in poor condition with digging 2% complete, 9% 1982, 3% average. Taproot nuts reported overmature some areas. Spraying for leaf spot and spider mites continue. Flue-cured tobacco pulling 78% complete, 91% last year, 80% average. Burley cutting 48% done, 82% 1982 and 75% average. Fire-cured 75% complete, 92% last year, 82% average. Sun-cured 77% harvested, 84% 1982, 77% average. Small grain seeding picking up. Supplemental feeding of livestock, early marketing of cattle active.

**WASHINGTON:** Week began with moderate and moist southwesterly flow over State with most of week's rainfall measured on 17th. Middle of week was generally dry as high pressure crossed State. But onshore flow returned late in week and sites west of Cascades reported some light rainfall - all less than 0.10 in. Average

temperatures near normals but Harrington, in east, reported minimum of 31° early on 17th.

Wheat, barley, pea, and lentil harvesting mostly complete. New crop seeding continues. Other areas preparing for seeding and should begin in few weeks. Potato and onion harvesting continues. Alfalfa seed harvest 60 to 70% complete. Hop and mint harvesting continues. Corn harvest should start end of month. Some silage corn being harvested western counties. Third cutting alfalfa and second cutting timothy hay continues. Christmas tree growers doing field preparation. Golden delicious apple harvest at peak with good size and quality. Red delicious apple harvesting started Grant County. McIntosh apples harvested Spokane County. D'Anjou pear harvest at midpoint Chelan County. Other areas start in a week. Preparations made for grape harvesting. West of Cascades, blueberry harvesting nearly over. Renovation work continues in raspberry and strawberry fields. Cucumber harvest about complete. Cauliflower and broccoli for fresh market winding down. Carrots and sweet corn continue to be processed. Vegetable seed crop harvesting nears completion. Beet seed harvest delayed by rain Skagit County. Eastside, carrots and sweet corn being harvested. Livestock in good condition. Some cattle being moved from mountain to fall ranges. Fall calving continues. Ranges and pastures look good to excellent. Winter wheat planted: 44%, 41% 1982, 39% average.

WEST VIRGINIA: Temperatures averaged slightly above normal across. Low 35°, high 98°. Rainfall below normal. Range none to 1.00 in. Light frost reported on the 15th.

Soil moisture remained very short to short. Days worked averaged 5.4. Main activities: Maintenance, silage harvesting, hay harvesting, pasture clipping. Oat harvest completed. Corn in fair to poor condition; 23% silked, 77% dough stage, 14% and 86% in 1982. Tobacco in fair condition; 97% topped, 87% harvested at 72% of normal; 95% topped and 86% harvested in 1982. Pasture in poor to fair condition. Hay in fair to poor condition. Second cutting, 94% harvested at 66% of normal; 93% and 82% in 1982. Fruit in fair condition. Peaches 95% harvested at 87% of normal; 96% and 59% in 1982. Gardens in fair condition. Some shifting of corn for grain into silage. Feeding due to pasture conditions continues.

WISCONSIN: Showers fell on 12th. Large high pressure system established itself midweek. Cool temperatures, clear skies brought frost in isolated areas of north central on morning of 13th. Rainfall on late 15th result of low pressure system. More rain on 17th. Temperatures 80's on 18th. Milwaukee the warmest at 82°. Coolest reading at 31° at Lake Thompson and Harrison on 13th and 14th.

Crops looking good. Corn silage harvest; 12%, last year 6%, average 18%. Corn denting; 75% this year, 53% last year, 76% average. Corn mature; 61% compared to 30% last year and 65% average. About 10 to 14 days before fully ripe. Soybeans turning leaves 55%, condition good. Third crop hay, 45% harvest compared to 47% last year. Pasture condition 86% of normal. Adequate soil moisture, 5 day suitable for fieldwork.

WYOMING: Temperatures about normal with exception of northern portion. Precipitation below normal over entire State.

Topsoil moisture adequate 56% of State. Days suitable for fieldwork: 7.0. 1984 winter wheat crop seeded: 75%; normally 77%. Winter wheat emerged: 30%; normally 50%. Barley: 10% mature; 85% harvested; normally 89% harvested.

Spring wheat: 15% mature; 85% harvested; normally 91% harvested. Oats: 20% mature; 80% harvested; normally 88% harvested. Corn: milked 5%; dough 30%; dented 55%; mature 10%. Harvest prospects fair to good most areas. Corn silage harvest 30% complete, normally 44% complete. Dry beans: 65% windrowed; 35% combined; normally 30% combined. Potatoes 15% dug, normally 30% dug. Alfalfa second cutting 90% complete; third cutting underway few areas. Other hay harvest 95% complete. Hay supplies for wintering livestock adequate most areas. Alfalfa, other hay, good quality for sale most areas. Contracting livestock slow most areas.

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#### National Weather Summary (continued from front cover)

SATURDAY...There was a sharp contrast in temperature from the central to the northern Plains. Strong southerly winds brought afternoon high temperatures to the high nineties as far north as Nebraska, while readings were in the fifties and sixties in the northern Plains. Showers and thunderstorms brought light to moderate rain to the area from the upper Mississippi Valley to the central Great Lakes region. Light showers covered the Northeast. Thunderstorms developed over southern Texas and Louisiana.

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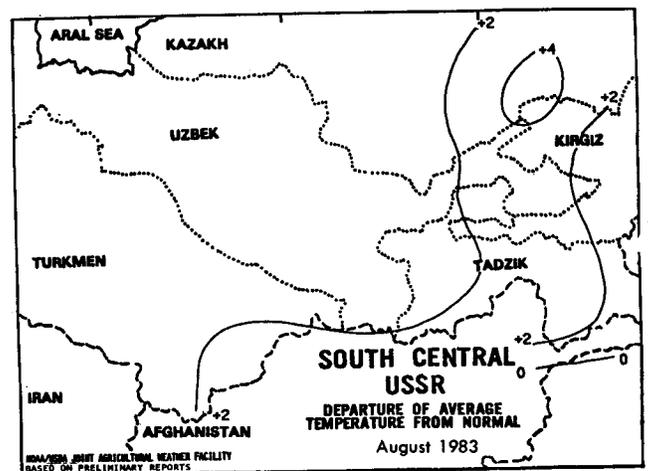
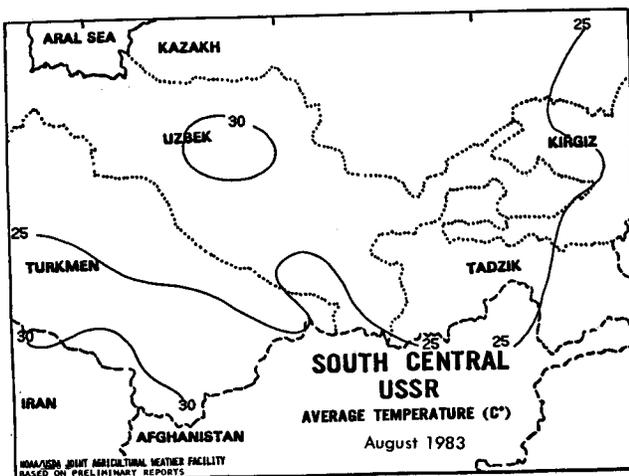
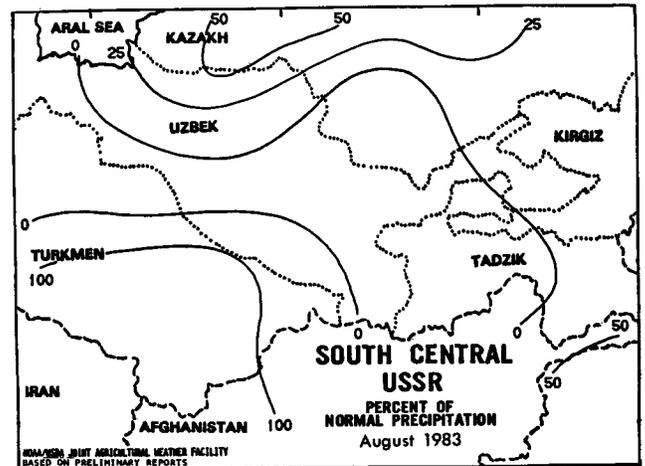
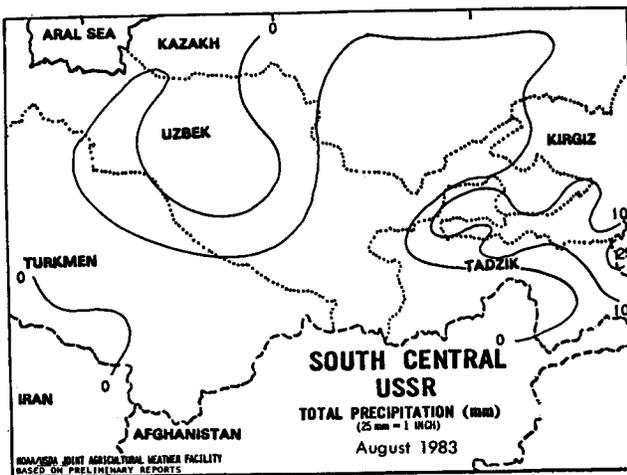
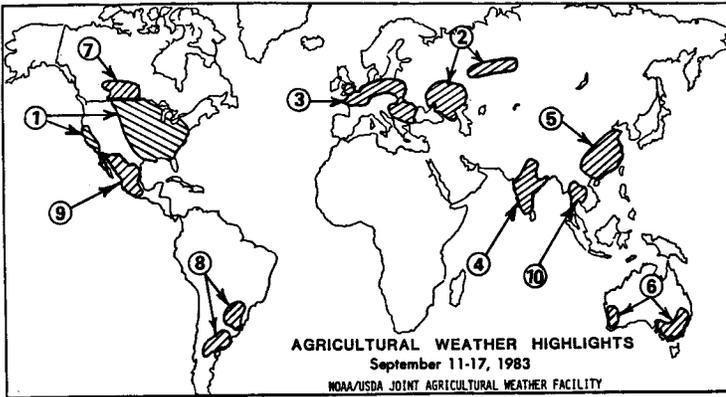
(continued from p. 11)

PASTURES AND LIVESTOCK: Pastures and ranges greened up slightly in portions of the East after receiving rain. However, conditions continued mostly poor to fair. Livestock received supplemental feed in most regions. Movement from summer grazing increased.

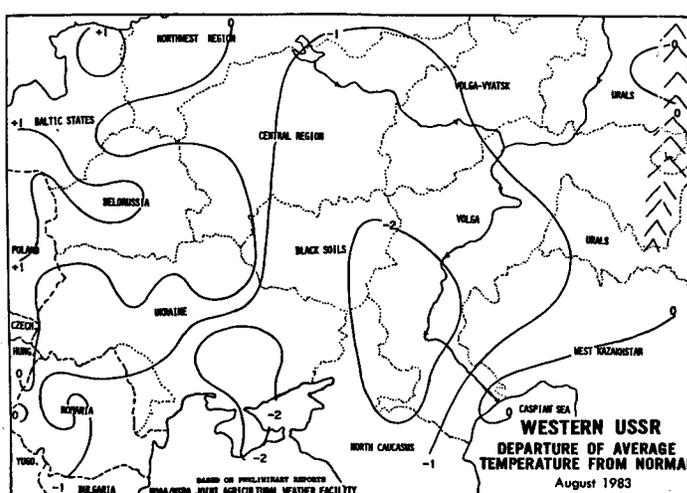
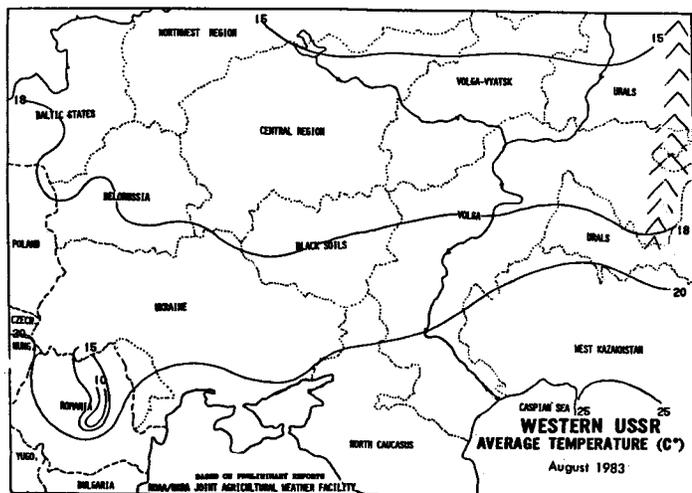
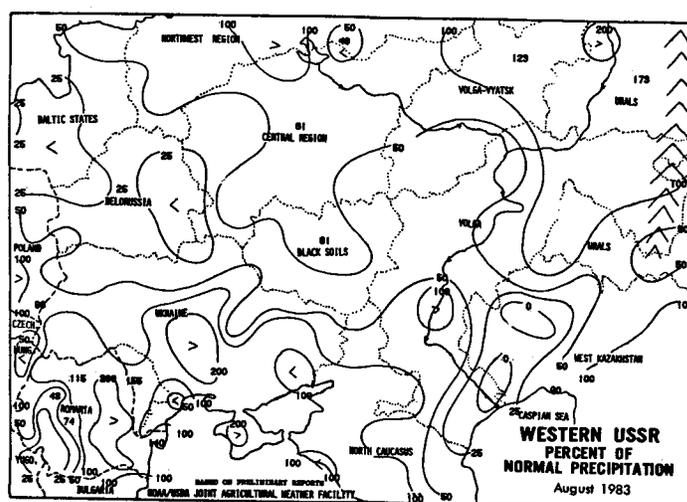
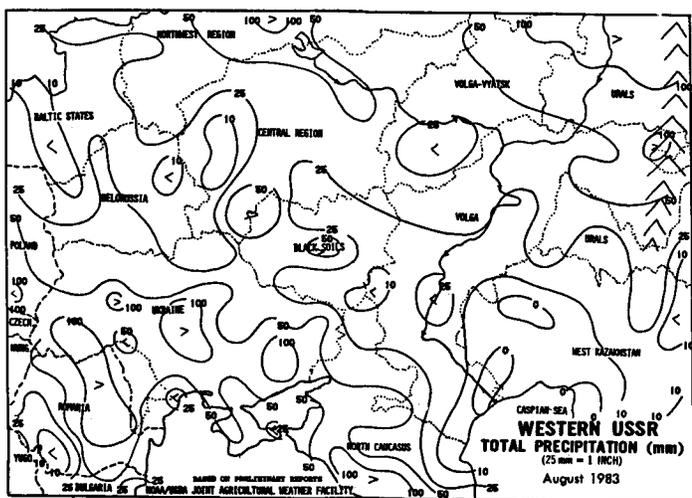
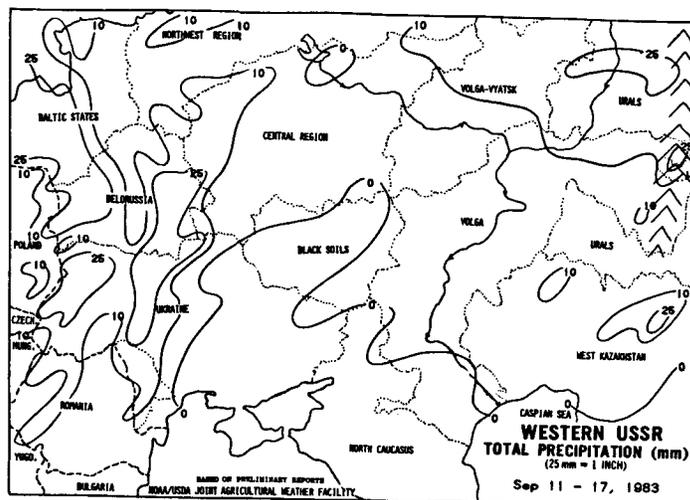
# International Weather and Crop Summary

September 11 to 17

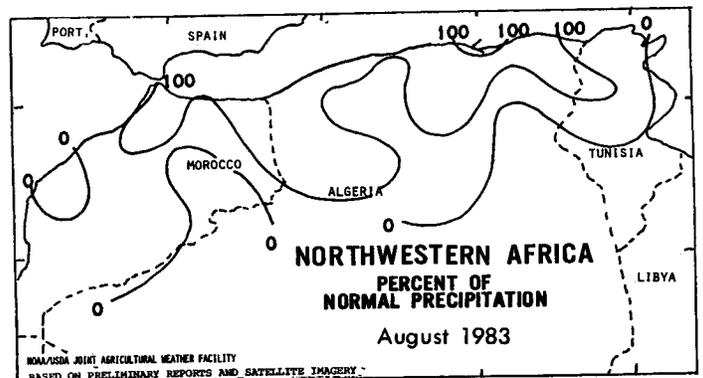
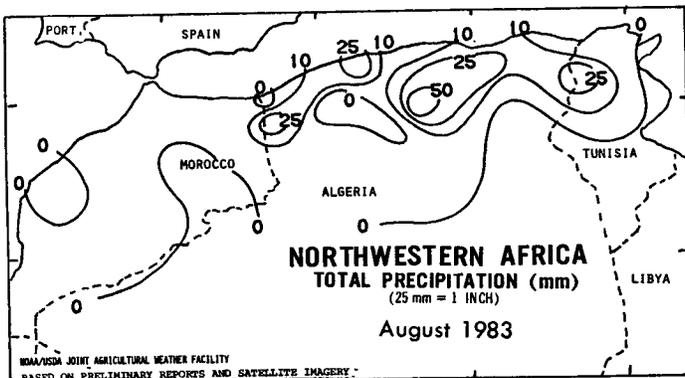
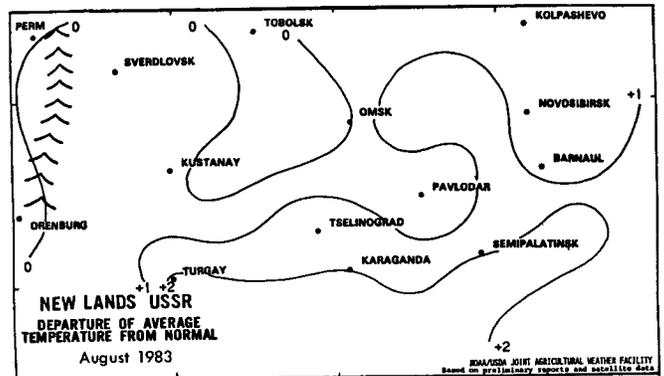
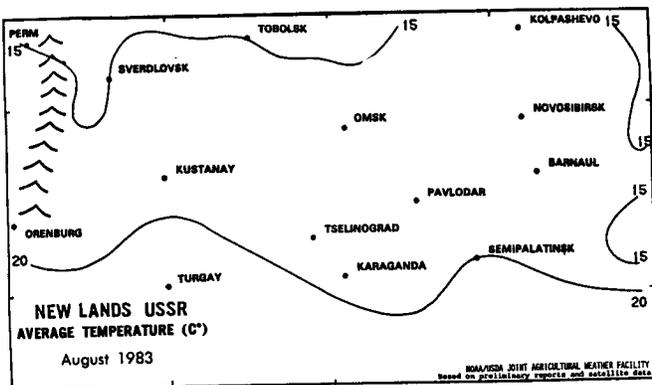
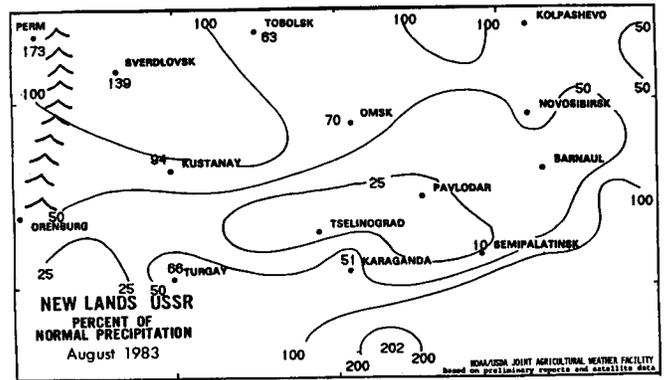
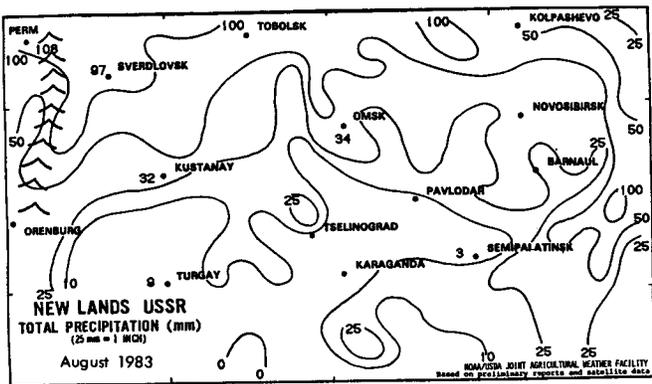
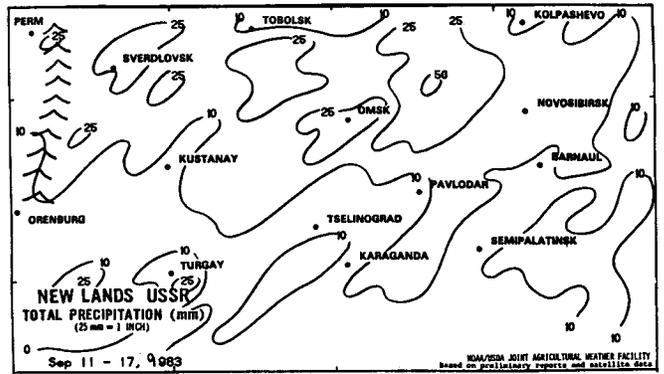
1. UNITED STATES ... The heat wave finally ends east of the Rockies, but cooler weather slows late crop development, especially soybeans in the Corn Belt. Widespread rains over the eastern half of the Nation favors immature crops and germination of small grains. Unseasonal heat in California aids raisin drying, but is unfavorable for some fruits and vegetables.
2. USSR ... Rain is needed in the major winter wheat producing areas for emergence and good early plant establishment. Cold, wet weather continues to delay the spring grain harvest in the northern New Lands.
3. EUROPE ... Showers continue to increase topsoil moisture for winter grain planting across the north. The southeast is becoming too dry for winter grain planting.
4. SOUTH ASIA ... Moderate to heavy monsoon rains cover peninsular India benefiting cotton, groundnuts, and rice in the reproductive stage. Storms in the north are bringing pre-planting moisture to winter wheat areas.
5. EASTERN ASIA ... Moderate rain benefits localized areas of late rice. Dry weather in the North China Plain aids preparation for winter wheat planting.
6. AUSTRALIA ... Showers aid vegetative growth of wheat in the west, while dry and relatively mild weather promotes crop growth in the east.
7. CANADA ... Cool, wet weather interferes with Canadian Prairie harvests; harvesting is nearly complete in the south but dry weather is needed to complete harvesting in the north.
8. SOUTH AMERICA ... Mostly dry weather aids Argentina's wheat but warmer weather is needed to promote growth. Substantial rains over southern Brazil again delay the citrus harvest and fieldwork.
9. MEXICO ... Rain helps crops in the southern Plateau corn belt and increases reservoir levels along the west coast. Dryness continues over most of the north, stressing crops and livestock.
10. SOUTHEAST ASIA ... Moderate to heavy precipitation covers Thailand, benefiting late planted rice but slowing the harvesting of corn and early planted rice.

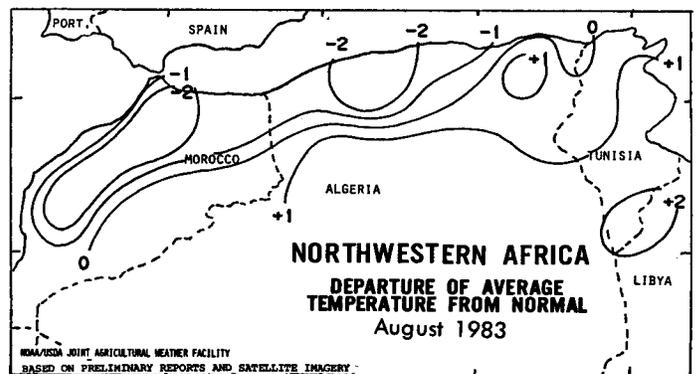
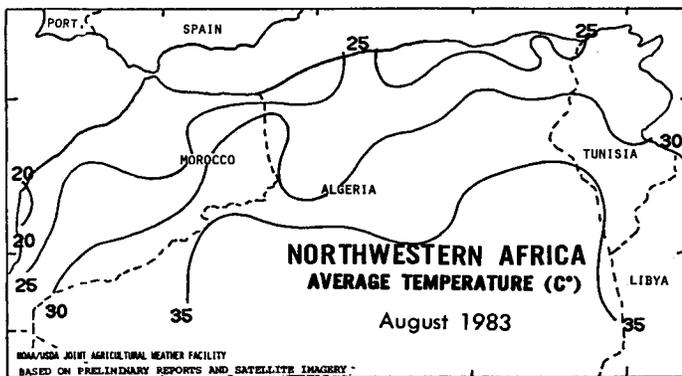
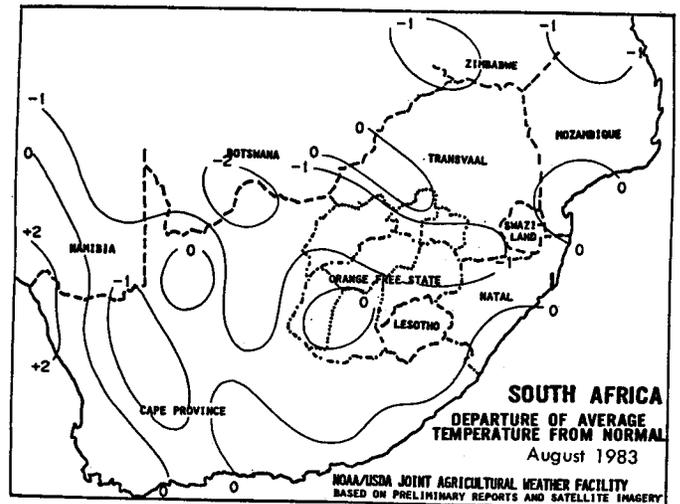
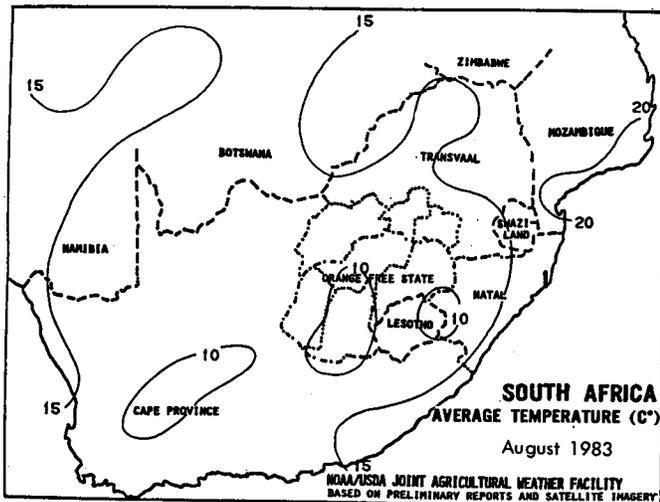
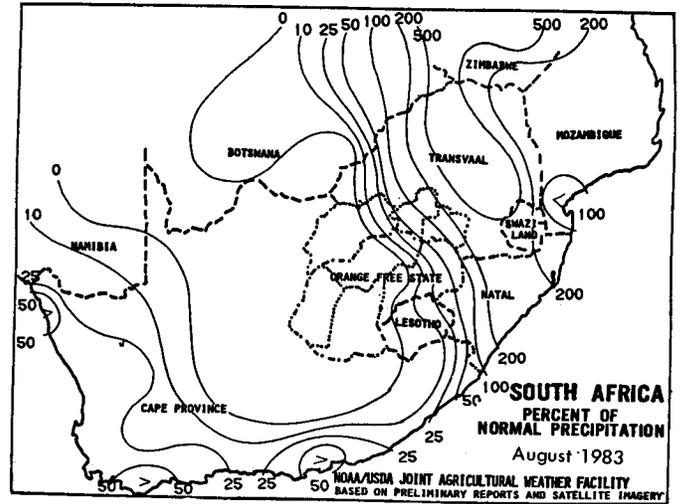
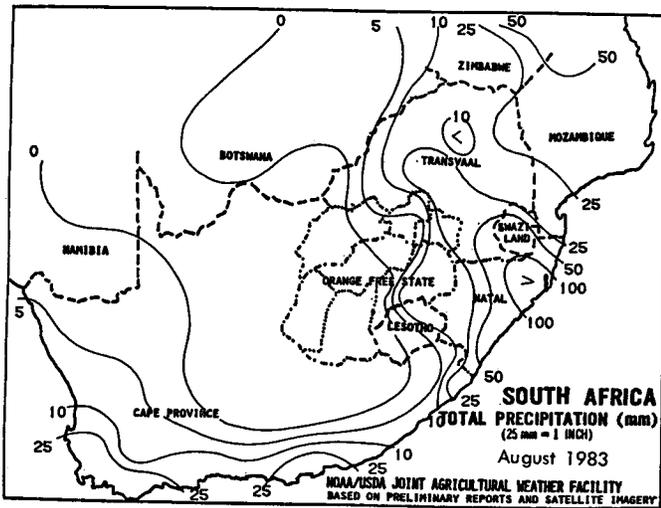


**WESTERN USSR...**Wet weather covered the southern Baltic States, Belorussia, and the western Ukraine, increasing soil moisture for winter grain planting. During August, below normal rains favored maturing grains and aided harvest activity in these areas. Showers in the northeast continued August's wet pattern, favoring early establishment of fall crops such as rye. After mid-August, crop areas in the southern Black Soils, eastern Ukraine, southern Volga Valley, and North Caucasus received little precipitation, which was favorable for harvesting corn, sunflowers, and sugar beets. Widespread rain is needed soon in these areas to increase soil moisture for winter grain planting. Weekly temperatures were above normal over the region reversing August's below-normal temperature pattern, especially in the southeast.

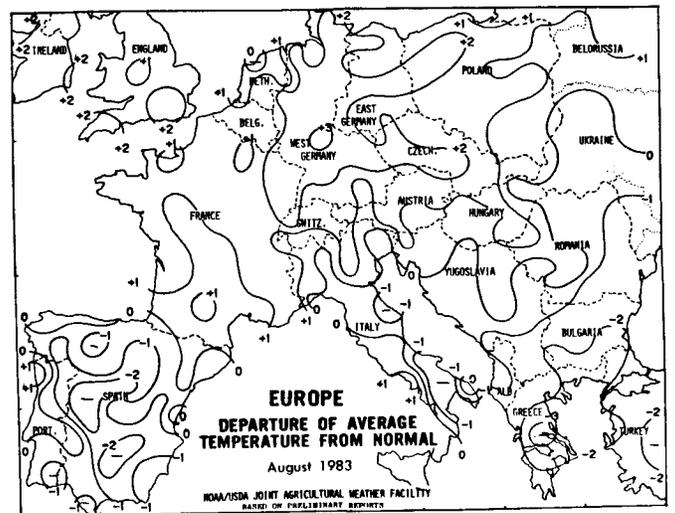
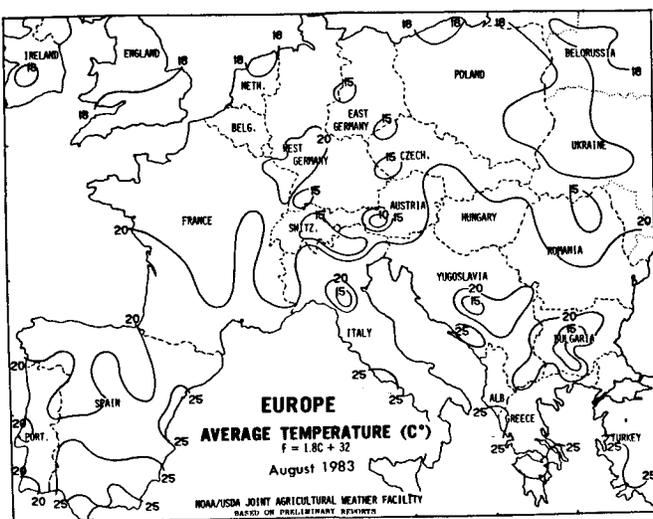
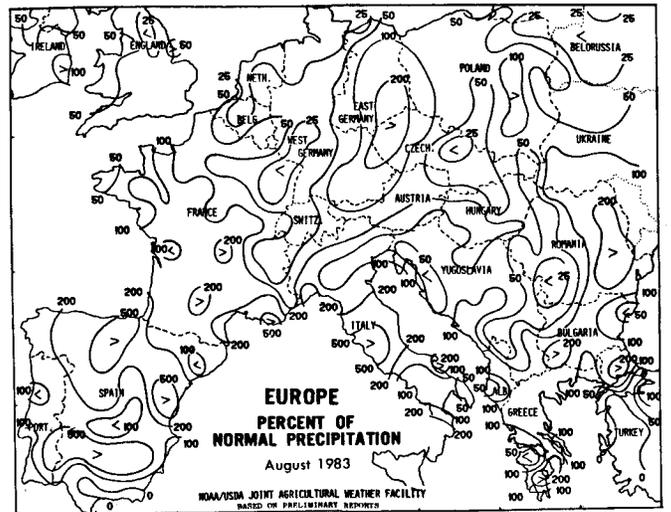
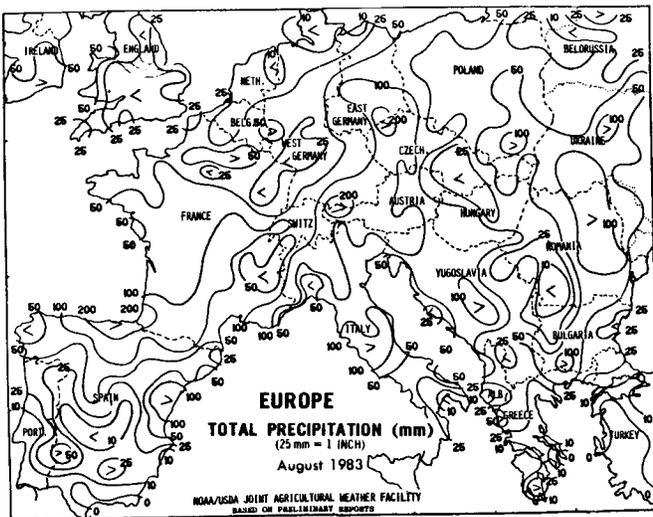
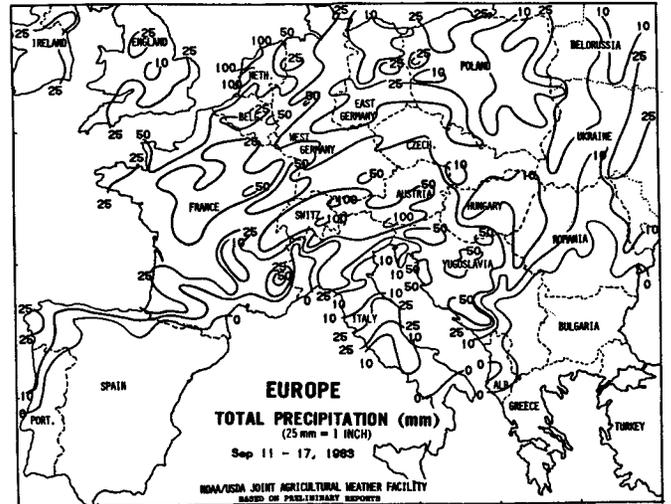


**NEW LANDS...** Showers covered most of the region with the heaviest amounts of rain, around 25 mm, falling on northern grain areas. The wet weather in northwestern crop areas caused further delays in the spring grain harvest, which had been slowed by persistent rainy conditions during August. In contrast, dry weather covered much of the south and east during August, allowing harvest activity to progress northward with few delays. Weekly temperatures were below normal over the region, reversing August's above-normal temperature pattern. In South Central USSR, seasonably warm, dry weather last week and during August benefited the maturing crop and allowed harvest activity to get an early start.

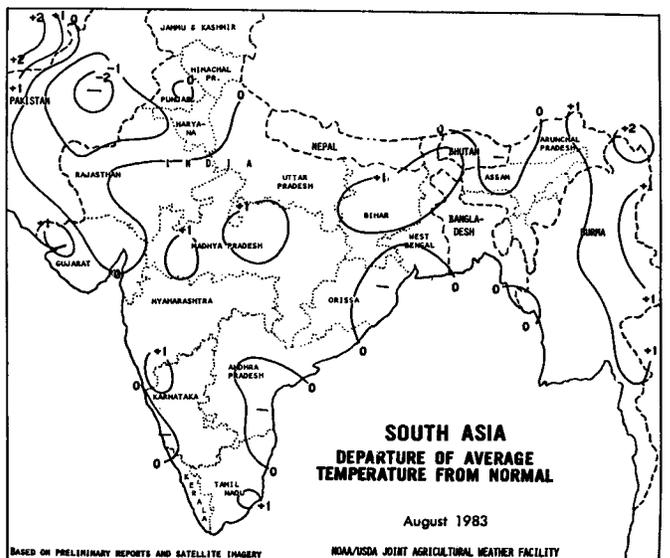
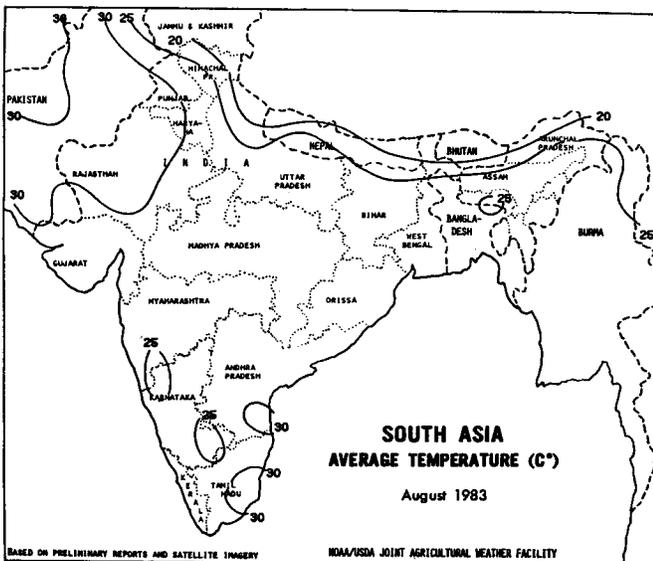
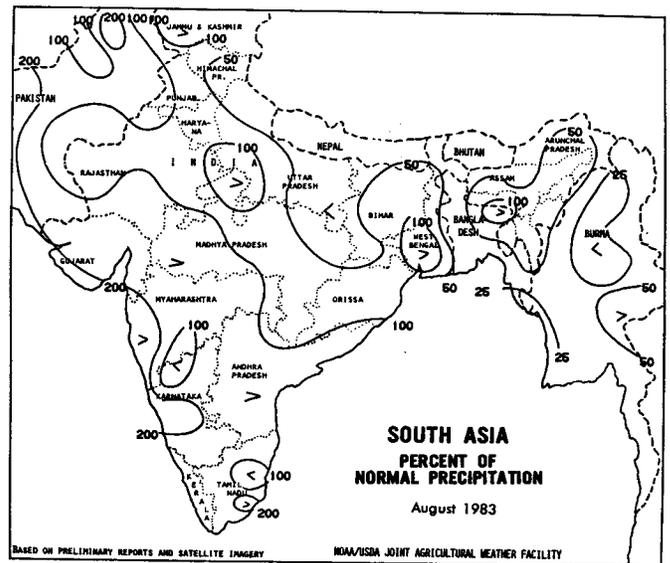
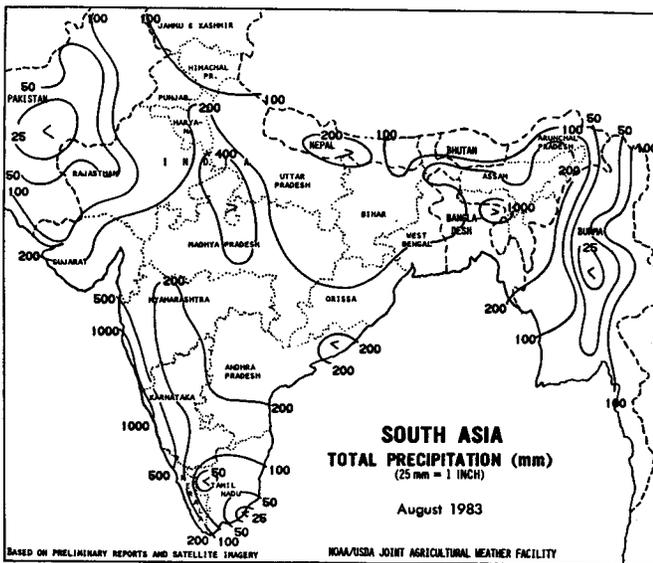
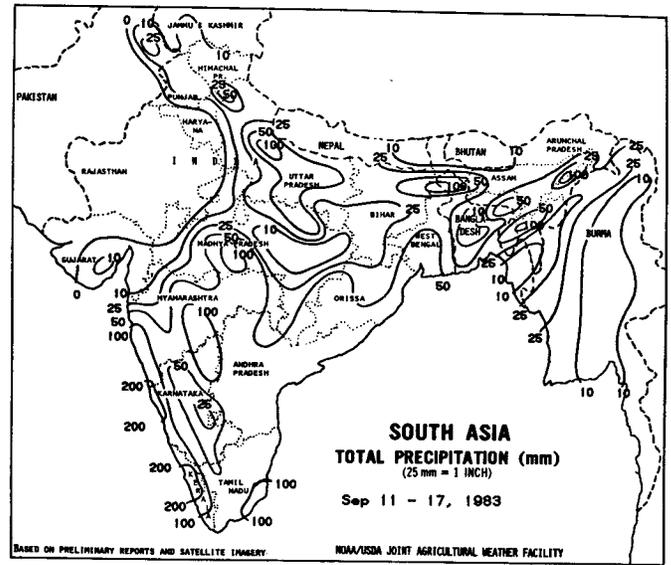




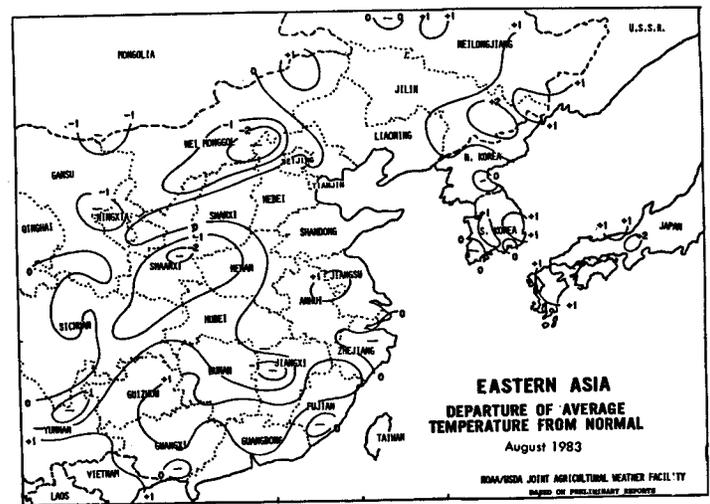
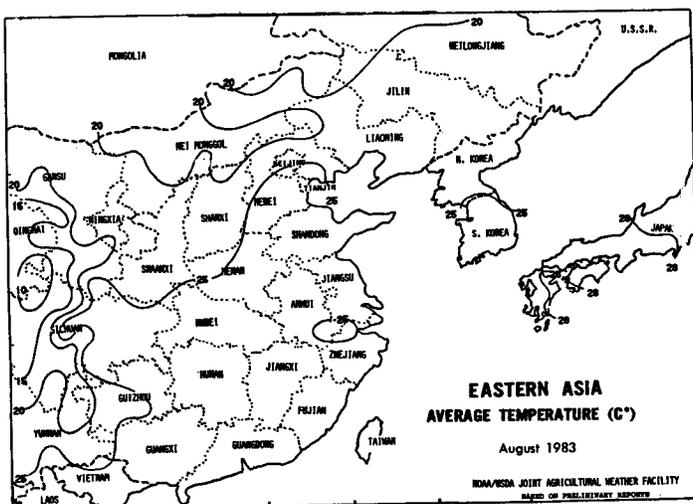
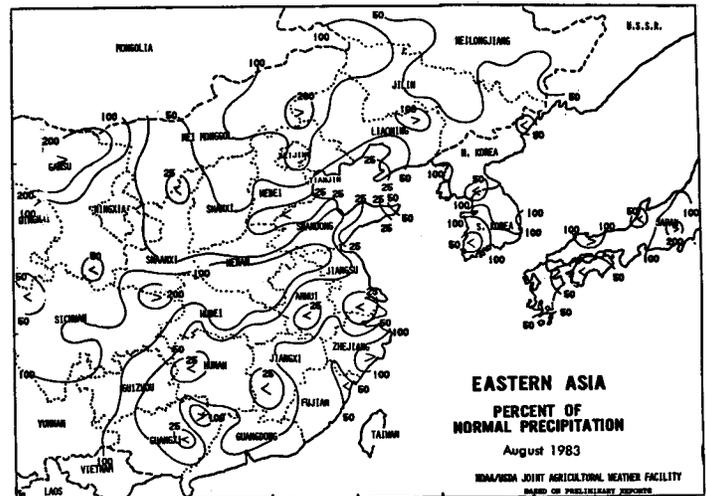
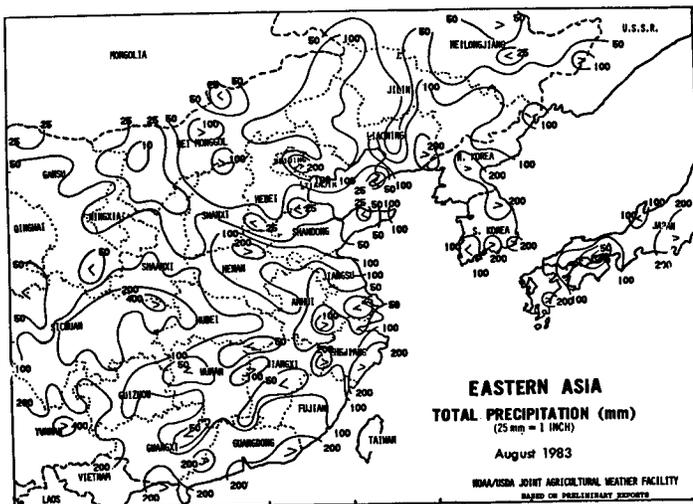
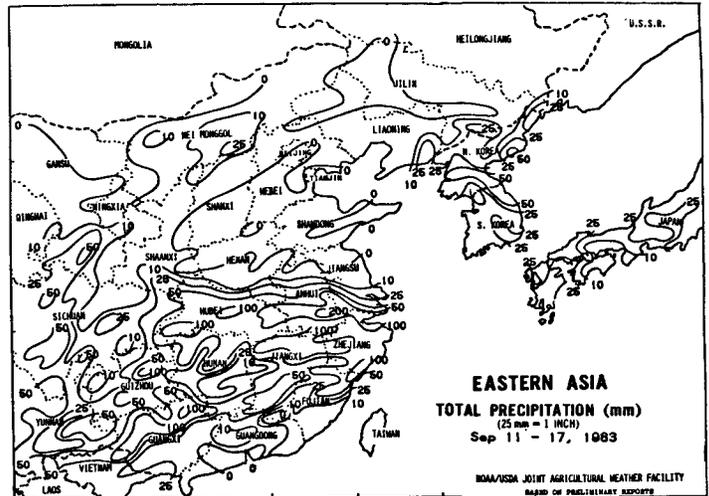
EUROPE...Showers continued across most of northern Europe, reversing August's below normal rainfall pattern. Harvest activity during August progressed with few delays across the north, but topsoil moisture was reduced to unfavorably low levels for winter grain planting. The past week's showers should have provided ideal topsoil moisture for emergence and good early plant establishment. In southern France and parts of northern Italy, wet weather continued August's above normal rainfall pattern which was unfavorable for maturing crops and may have delayed harvest activity. In the southeast, unseasonably low August rainfall further reduced yield prospects for crops in western Romania, northeastern Yugoslavia, eastern Hungary, and Czechoslovakia, but benefited grain maturation and aided harvest activity. Below normal rain continued over most of the southeast this past week, and more rain is needed for winter grain planting in October.



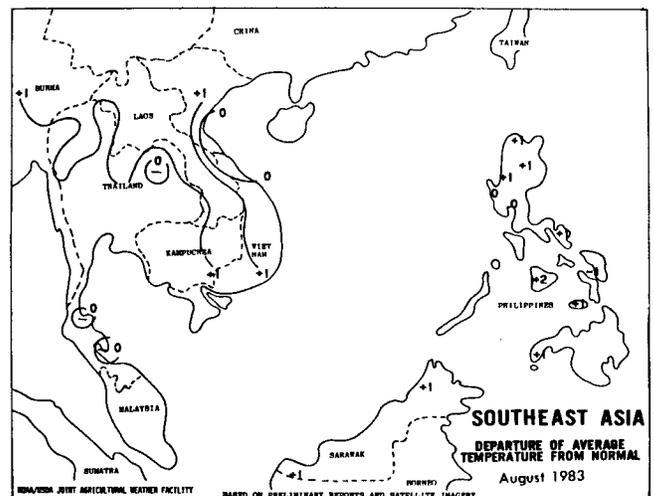
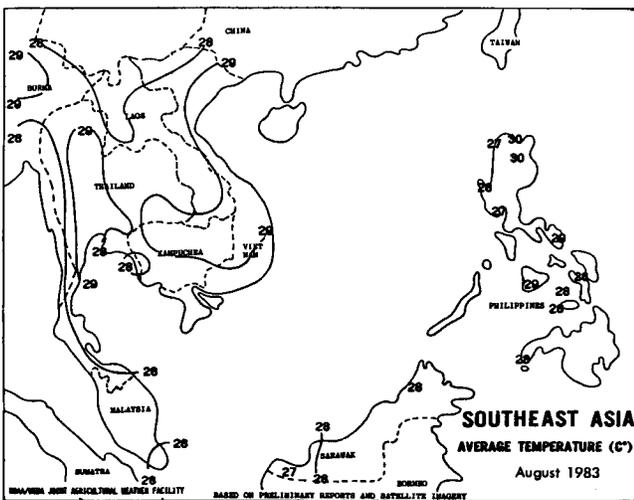
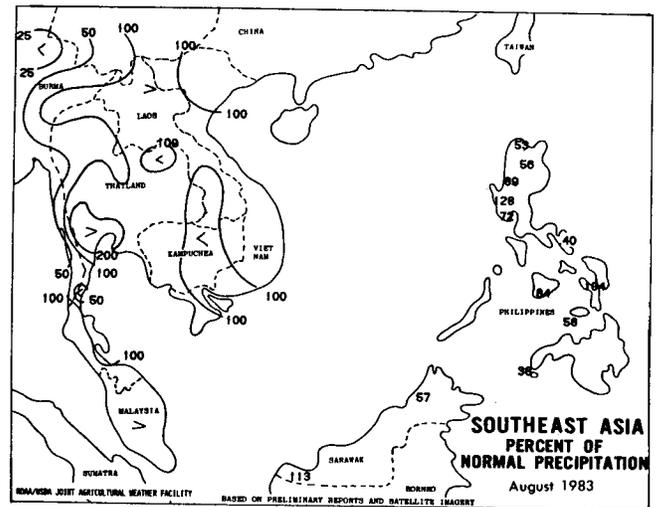
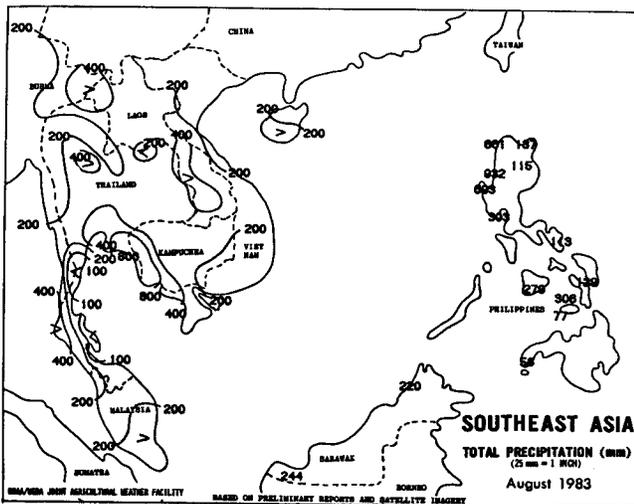
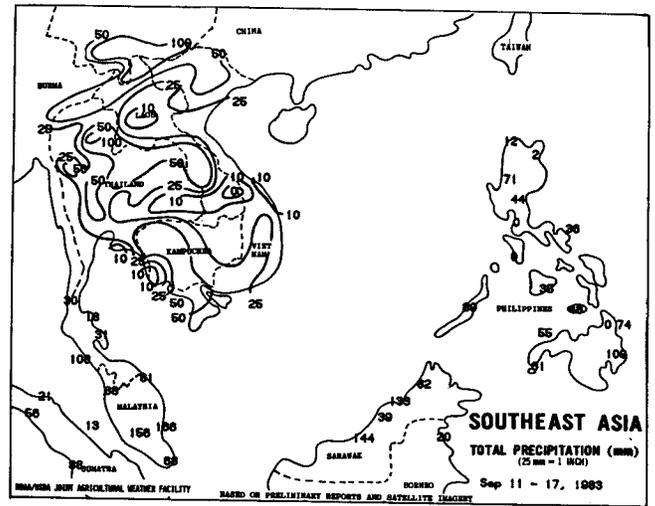
**SOUTH ASIA...** Monsoon generated rains are retreating from northern India. However, an isolated storm brought moderate to heavy rain to Uttar Pradesh, greatly improving the soil moisture conditions for winter wheat planting which normally begins in early October. Generous precipitation fell in nearly all of peninsular India, continuing August's above-normal pattern. Moderate to heavy rain in Maharashtra favored cotton and groundnuts in the reproductive stage following recent dryness. Gujarat remained mostly dry, which is normal in September, but earlier above-normal rains were very beneficial for crops in the area. Near-normal temperatures in August continued this week in most crop areas. Light to moderate rain fell in most rice areas this week. The moisture benefited autumn rice in the heading stage and winter rice nearing the heading stage.



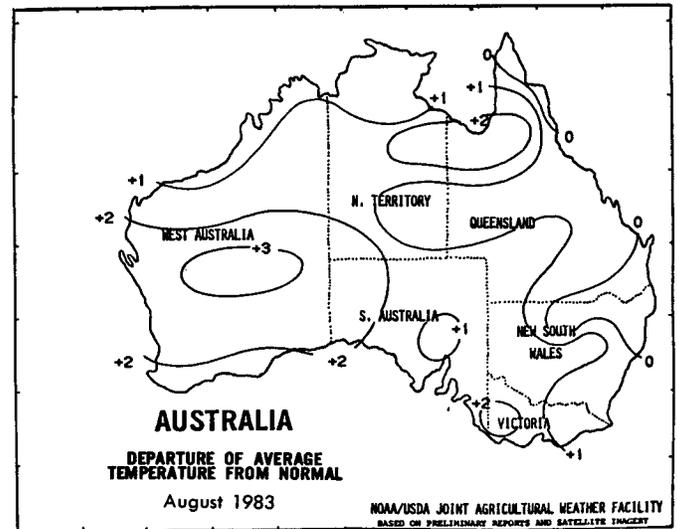
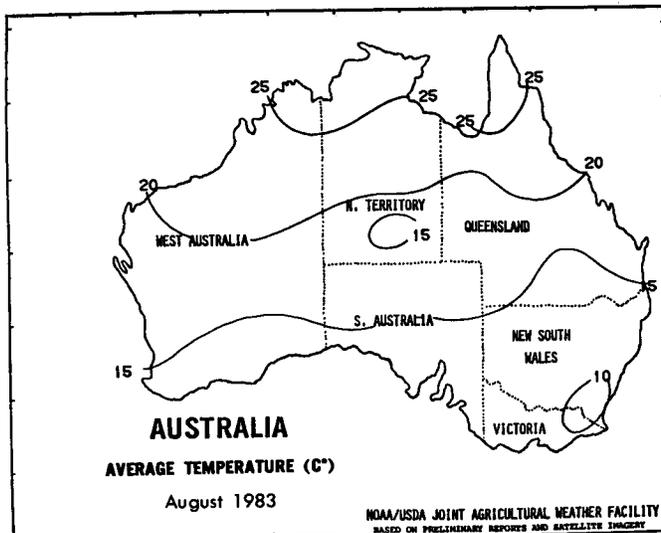
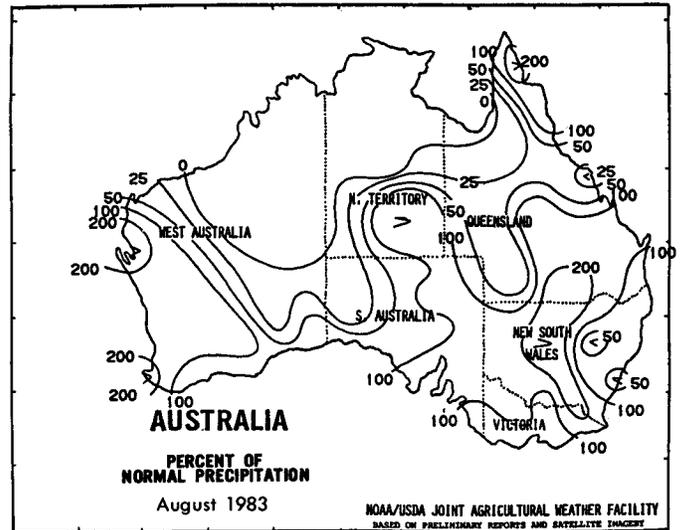
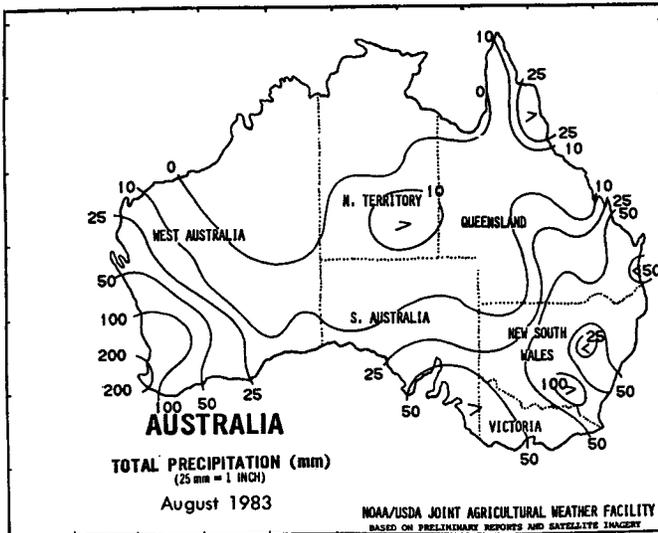
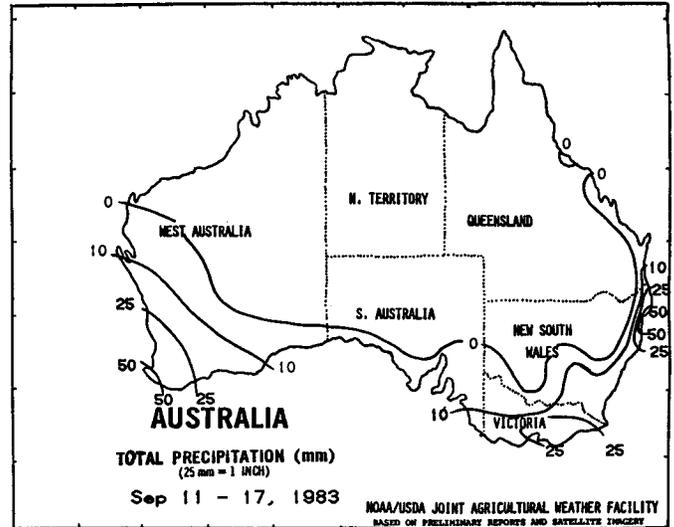
**EASTERN ASIA...** Scattered showers in southern China benefited localized areas of late double cropped rice in the reproductive stage. Below-normal rain in the area during August was unfavorable for the crop in the vegetative stage. A band of moderate to heavy rain along the Yangtze Valley was unfavorable for maturing cotton, corn, and soybeans. Drier weather just to the north of the Yangtze Valley was beneficial, following above-normal rains in the area during August. Dry weather covered the North China Plain allowing fieldwork and preparation for winter wheat planting, following soaking rains last week. Temperatures were slightly above normal in most rice and cotton areas continuing the pattern from August. Relatively dry and warmer weather was beneficial for maturing corn and soybeans in the northeast.



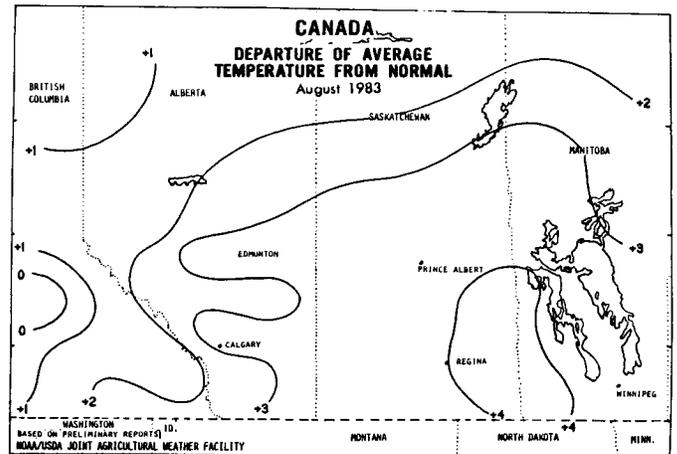
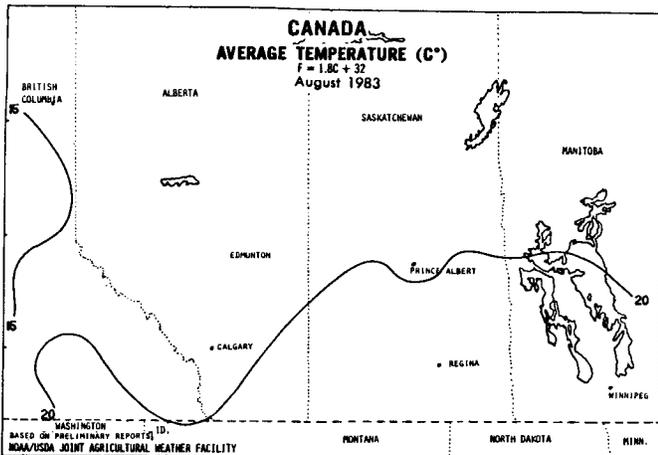
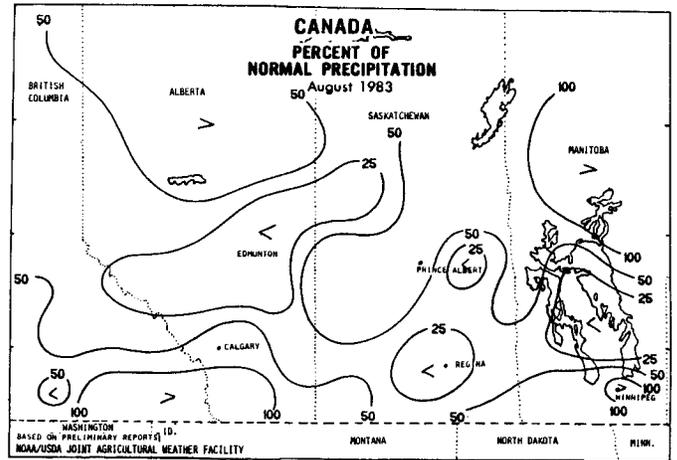
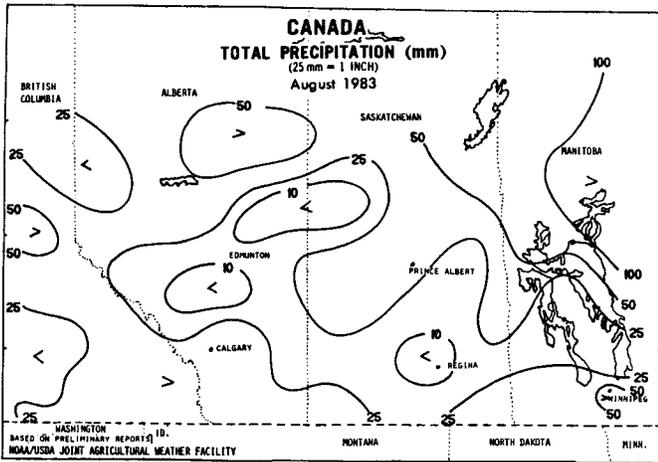
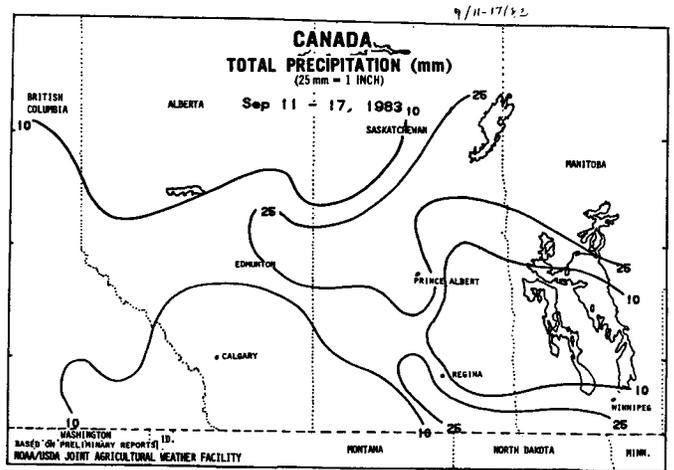
**SOUTHEAST ASIA...** Moderate monsoon rains continued in Thailand this week. During August, above-normal precipitation covered Thailand, excluding the northern rice area. Much above-normal rains fell in the south-central rice region favoring the crop in the reproductive stage. Slightly above-normal temperatures last month in Thailand helped to dry some excessively wet areas. The persistent wetness is likely slowing the corn harvest in the central region. Rice is planted over an extended period and the earlier planted crop is normally mature by this time. Continued precipitation will benefit later planted rice as it progresses through the reproductive stage. Scattered rain in the Philippines benefited southern islands where last month's amounts were below normal. Central Luzon was relatively dry this week, but near-normal precipitation in August aided rice in the vegetative stage.



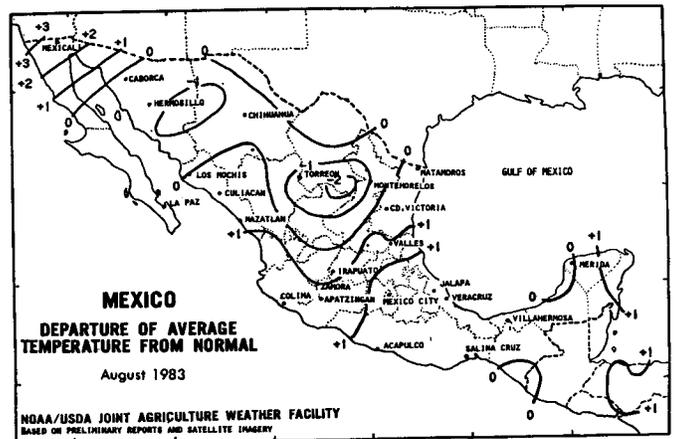
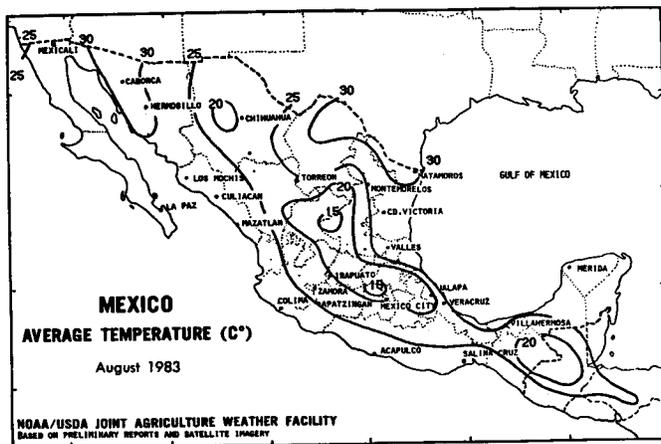
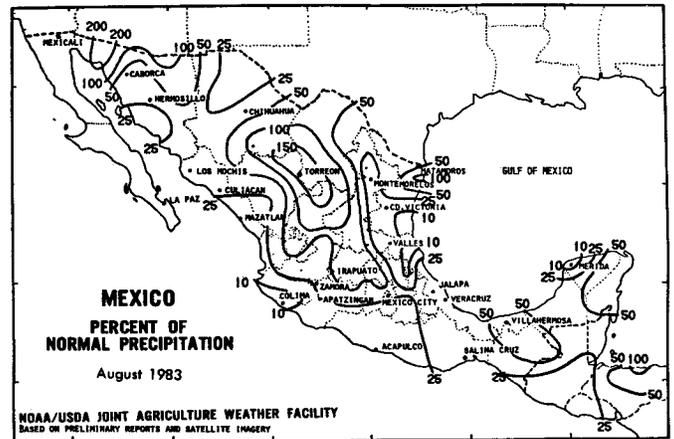
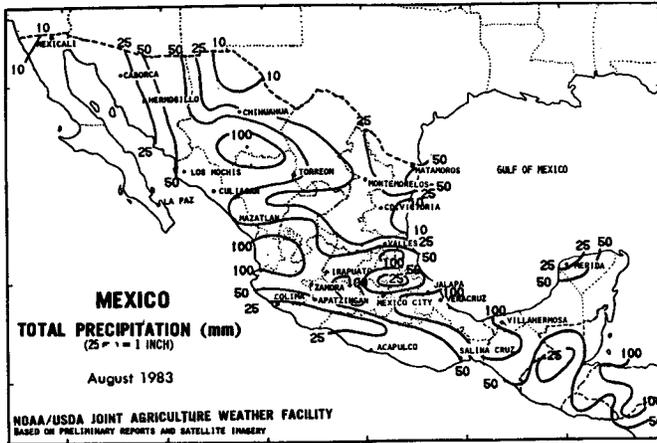
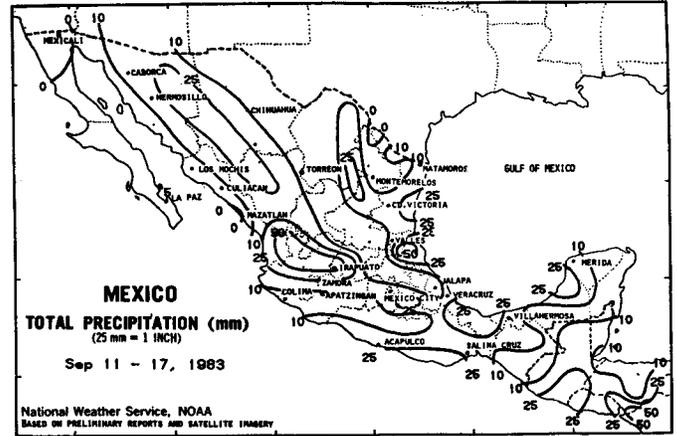
**AUSTRALIA...**Widespread showers covered the wheat area of Western Australia providing beneficial moisture for vegetative growth. Mostly light showers dotted the southern wheat belt and dry weather dominated the eastern wheat area. Crop conditions are generally favorable during this vegetative growth period for most of the wheat crop. However, harvesting has already begun in the northernmost crop areas of Queensland. During August, a seasonal to slightly-above average precipitation pattern prevailed over most of the wheat belt, but rainfall amounts tended to be quite variable. Temperatures were slightly above average for the month in the west and south, but slightly below average in northern New South Wales and southeastern Queensland. Some localized problems exist due to the generally cool, wet weather in the east which has been conducive for fungal diseases, and, because of the late start of the growing season in the west. Warmer weather is needed to promote crop development.



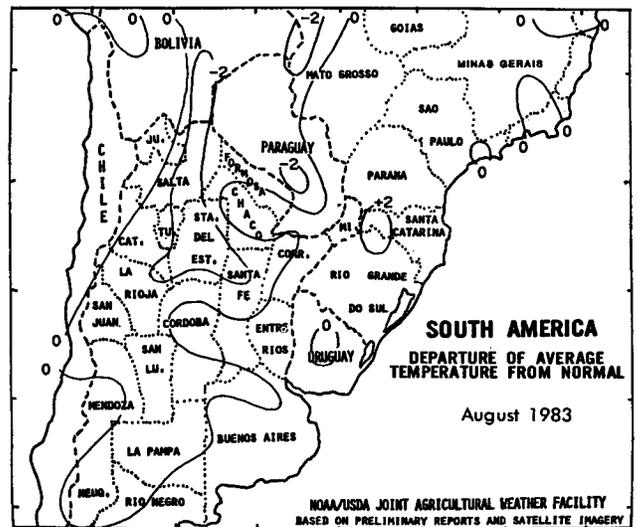
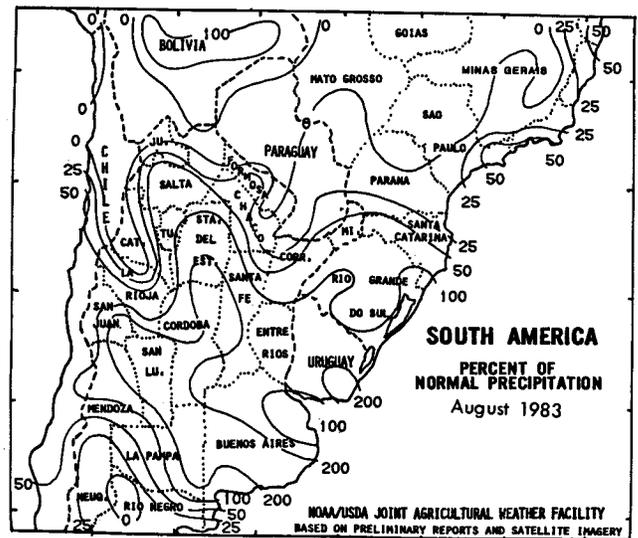
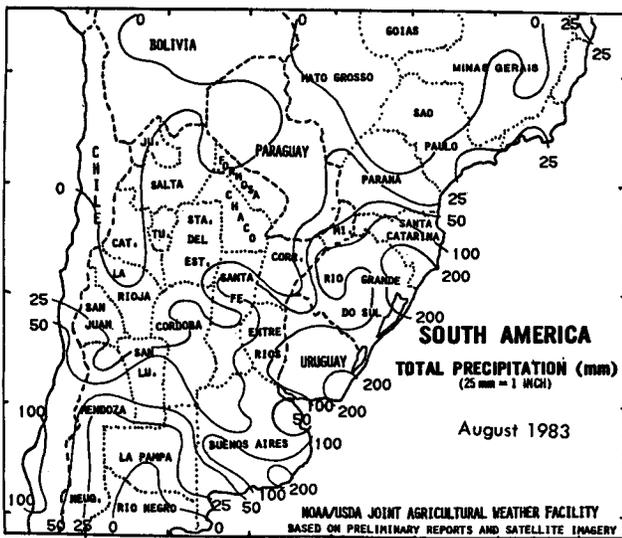
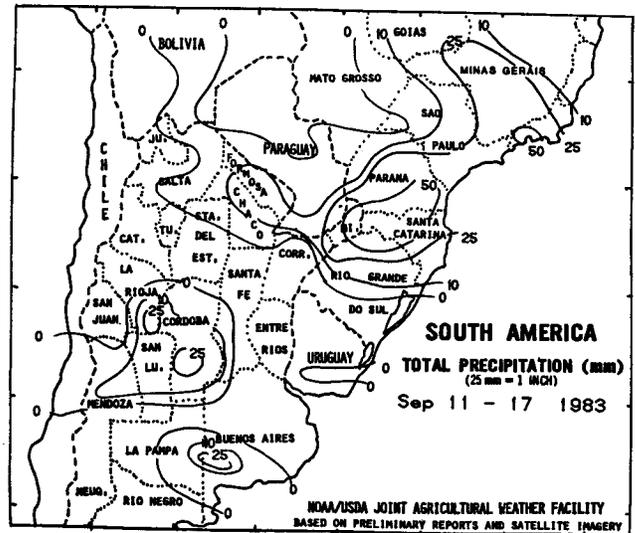
CANADA...Showery, cool weather during the week interrupted crop harvesting across much of the Prairie Provinces. The moisture was particularly disruptive to the harvest progress in northern portions of Saskatchewan and Alberta where a couple of weeks of dry weather is needed to finish harvesting. Harvesting is nearly complete in southern portions of the grain belt, as well as in Manitoba's crop area. Temperatures were below average for the week as autumn-like weather pushed into the region dropping minimum temperatures close to the freezing mark. The recent weather pattern, when below-average rainfall and above-average temperatures covered the region. While episodes of hot, dry weather during August adversely affected the crop yield potential somewhat, these weather conditions favored grain development, maturity, and quality during late growth stages.



MEXICO...Heavy rains returned to parts of the southern Plateau Corn Belt and western mountain watersheds, benefiting crops and replenishing reservoirs. The heaviest amount was at Guadalajara where 68 mm fell. Rains were generally light and widely scattered over most northern agricultural areas. Northeastern citrus in nonirrigated orchards continued to be stressed from lack of adequate moisture. Most of the southern and southeastern regions received moderate rains, which also extended into Central America.



**SOUTH AMERICA...**In Argentina, rainfall was limited to scattered wheat areas in southern Buenos Aires and Cordoba and vicinity. In general, mostly dry weather covered the region, following substantial rains during August which improved moisture conditions for wheat growth. Recent cool weather has slowed crop development and has delayed early planting of summer crops. Warmer weather is needed to promote more vigorous growth. In Brazil, dry weather was limited to extreme southern Rio Grande do Sul and Mato Grosso do Sul, while heavy showers covered Santa Catarina and substantial rain fell from Parana northeastward into Minas Geras. The wetness in Sao Paulo and vicinity slowed the citrus harvest, but likely benefited summer crops in that area. While August rainfall returned to a more seasonal pattern in southern Brazil, recent showers continued to maintain high soil moisture levels as wheat advances into reproduction and grain-filling.



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The Weekly Weather and Crop Bulletin (ISSN 0043-1974) is published weekly and jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the Weekly Weather Chronicle. It is issued under general authority of the Act of January 12, 1895 (44-USC 213), 53d Congress, 3d Session. NOAA is responsible for managing, printing, and distributing the Bulletin. The contents may be reprinted freely, with proper credit.

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