

WEEKLY WEATHER AND CROP BULLETIN

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

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

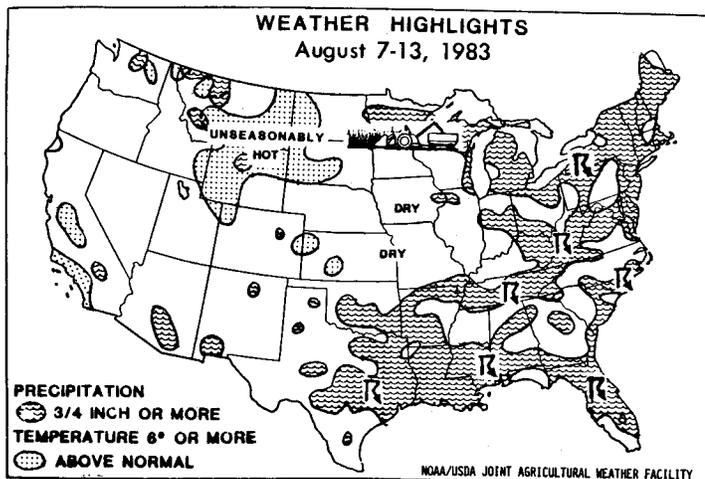
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Aug. 16, 1983

National Weather Summary

August 7 to 13



HIGHLIGHTS: Showers and thunderstorms were widespread over much of the eastern United States, although the amounts of precipitation were quite variable. Helpful amounts fell in the Corn Belt along a line from northwestern Illinois to eastern Kentucky, in southern Michigan, and along the northern edge of Ohio. Showers and thunderstorms across the South provided beneficial moisture but many dry areas had little or no rain. Light showers were widespread over the Plateau and Rockies and some light rain fell even in the southern part of California's San Joaquin Valley where raisens were laid out to dry. High temperatures were well over 90° in much of the Corn Belt early in the week but cooled to the low eighties late in the week.

SUNDAY...Light showers and thunderstorms reached across the South from southern California to the Carolinas. Some moderate showers fell in northeastern Texas, southwestern Oklahoma, along the gulf coast, and in parts of the Carolinas. Light showers spread through the Plateau to the northern Rockies. Temperatures in the nineties or higher covered most of the Nation and reached the middle nineties at some points in the western and central Corn Belt.

MONDAY...Somewhat cooler weather pushed into the northern border States but very warm weather continued in most other areas. High temperatures reached the mid-nineties from Iowa to Indiana, and exceeded 100° in the Southwest and through the interior of California. Light showers fell from

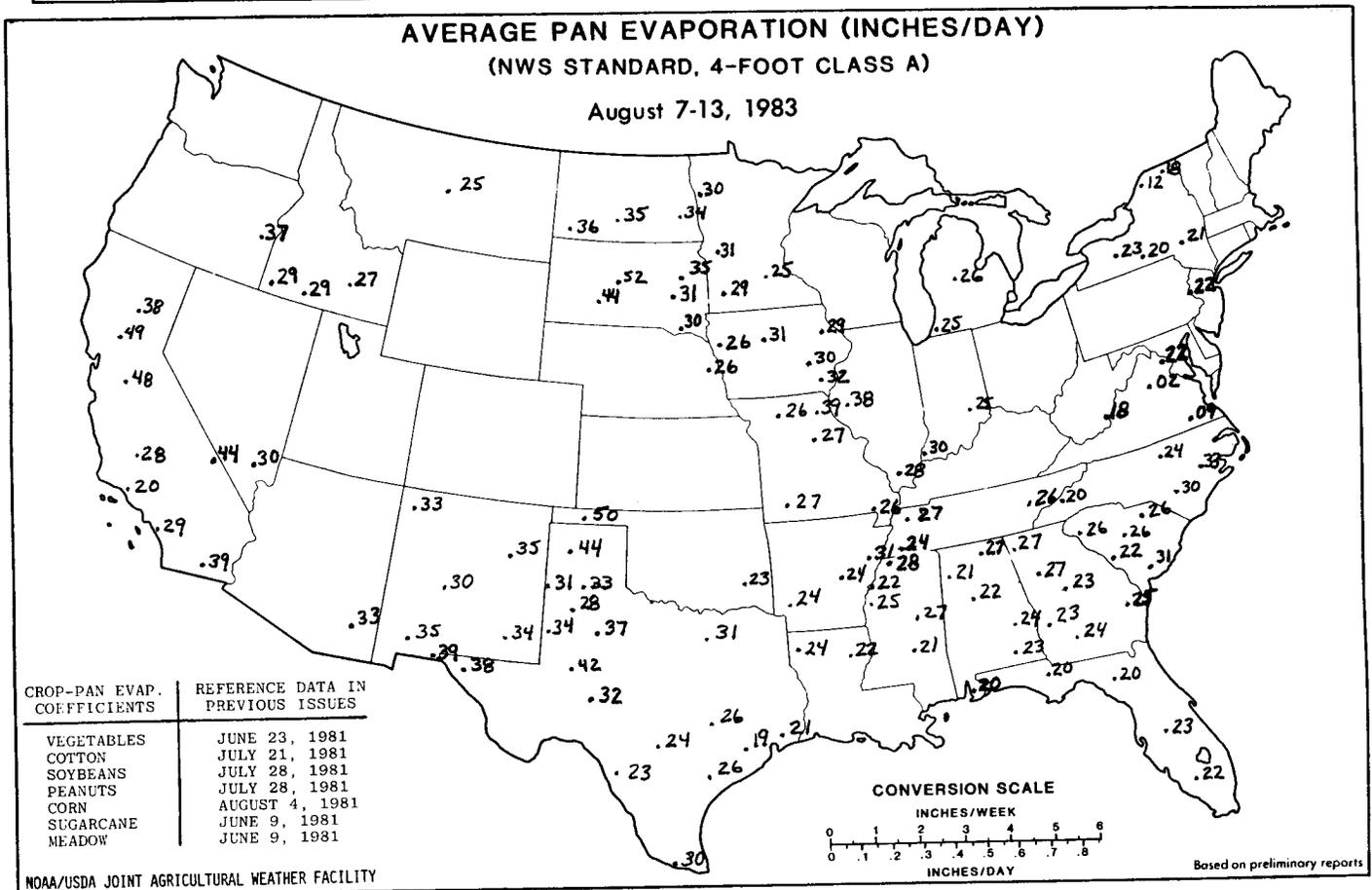
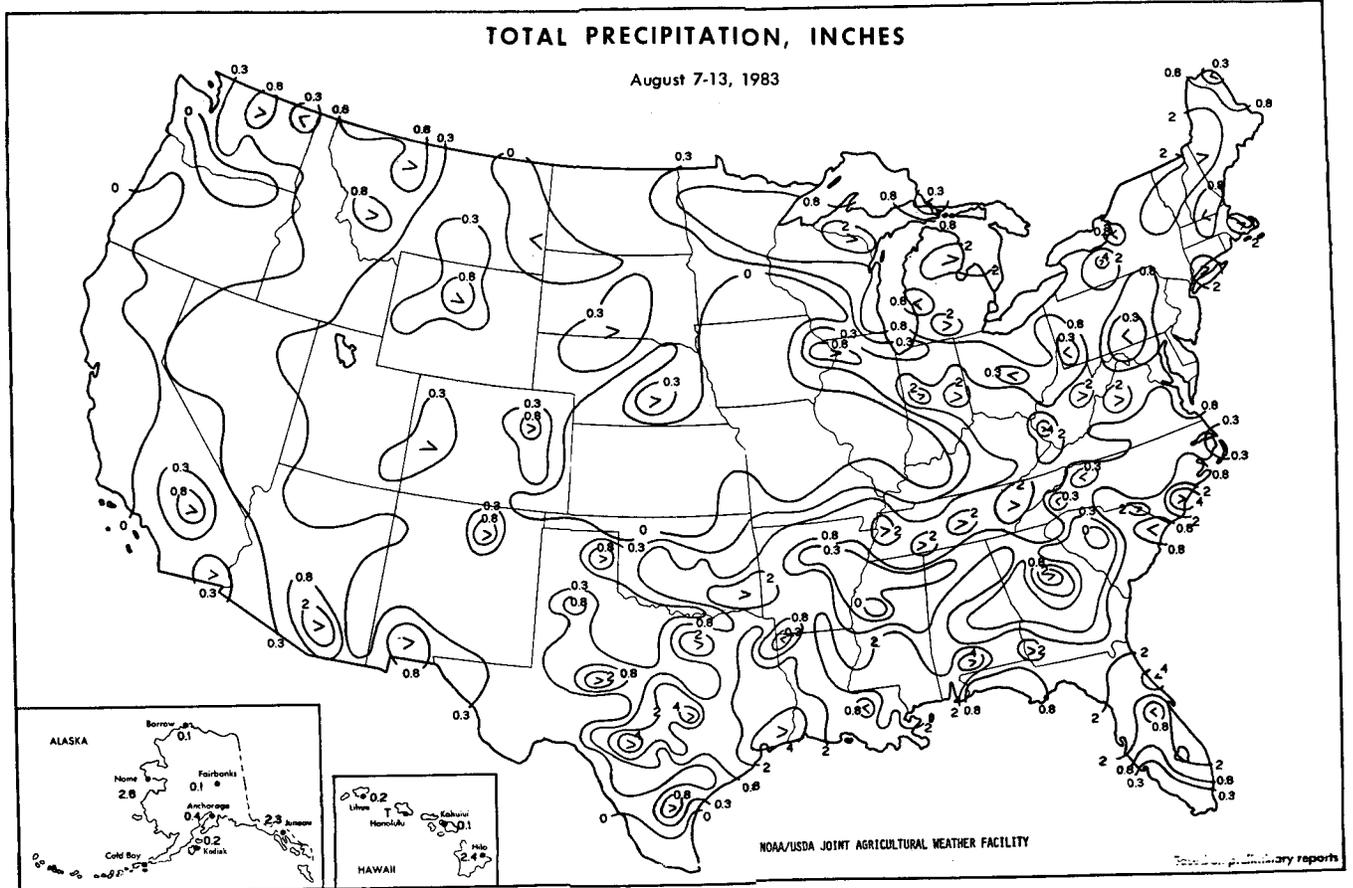
Arizona to the northern Rockies and spread eastward to North Dakota. Showers and thunderstorms developed through much of Texas, reaching into the very dry southwestern part of the State, and across the South to the Southeast. Light to moderate showers fell in the St. Lawrence Valley and moved into northern New England.

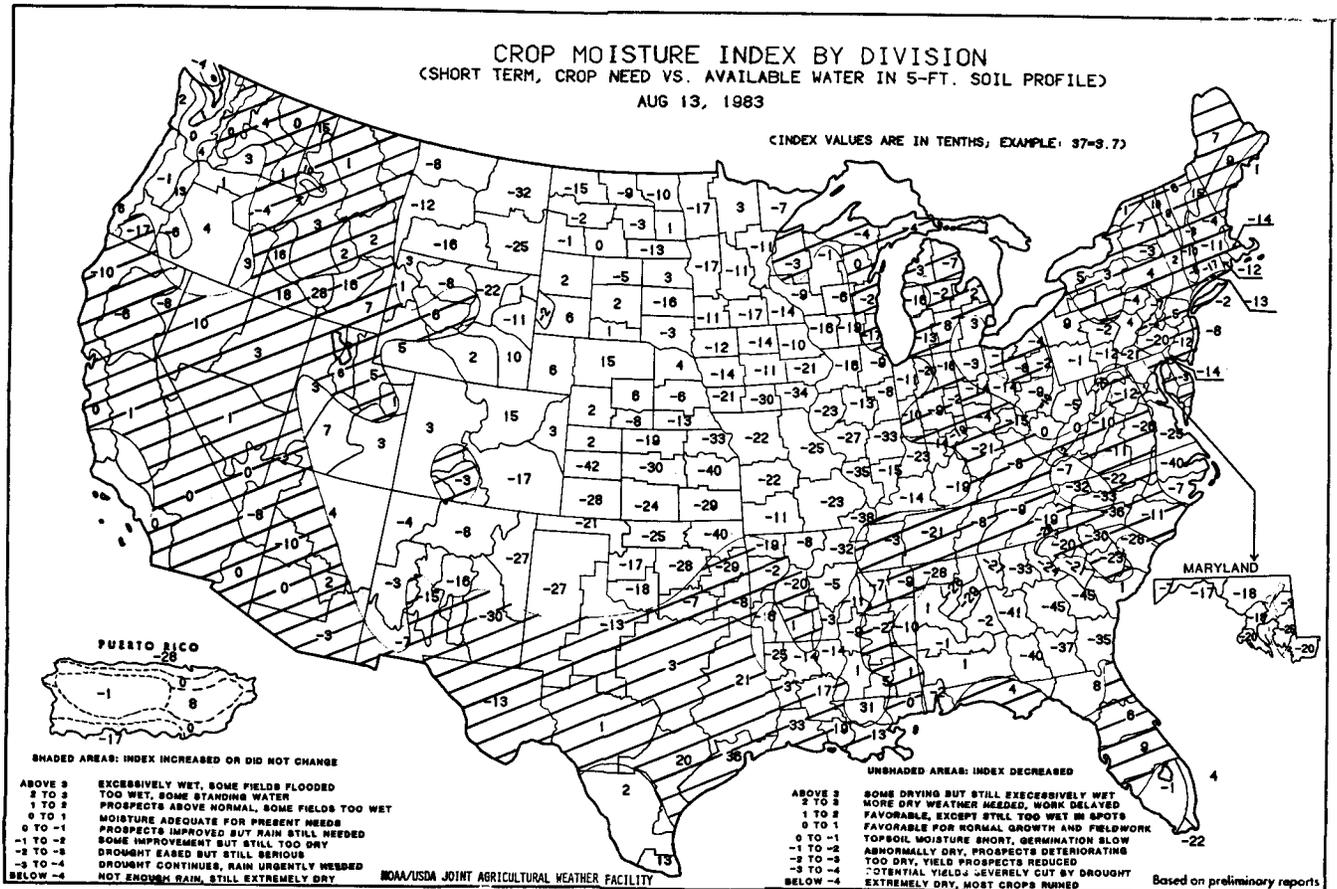
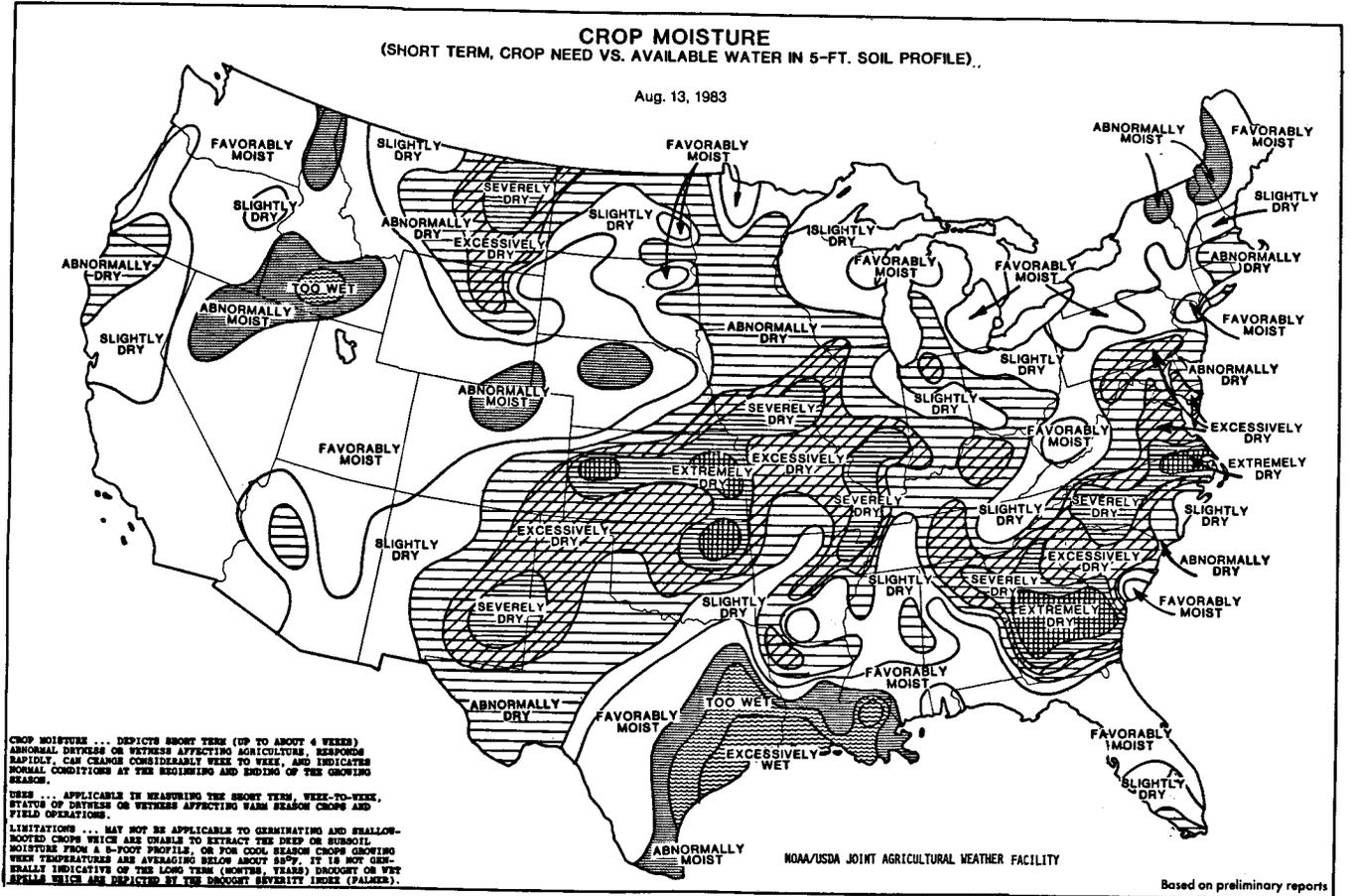
TUESDAY...Cooler weather moved into the north-central and northeastern States. High temperatures were below 90° over the northern half of the Corn Belt but little or no precipitation fell. Showers and thunderstorms covered the Southwest and reached into the lower San Joaquin Valley and through the Plateau area to the northern Rockies. Showers developed across North Dakota and Minnesota to the western Great Lakes region. Showers and thunderstorms developed in central Texas, along the gulf coast to Florida, and isolated thunderstorms occurred northward into West Virginia.

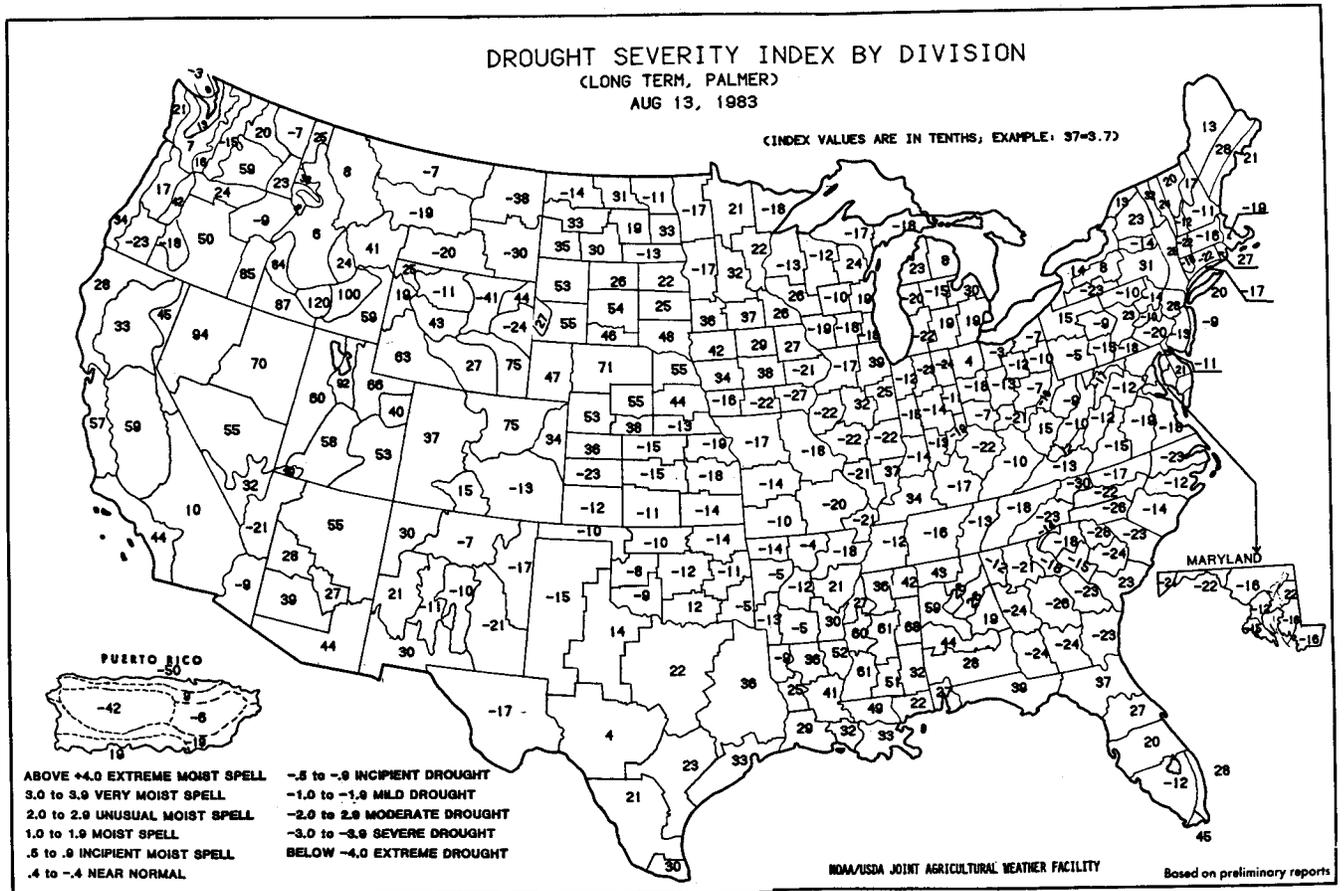
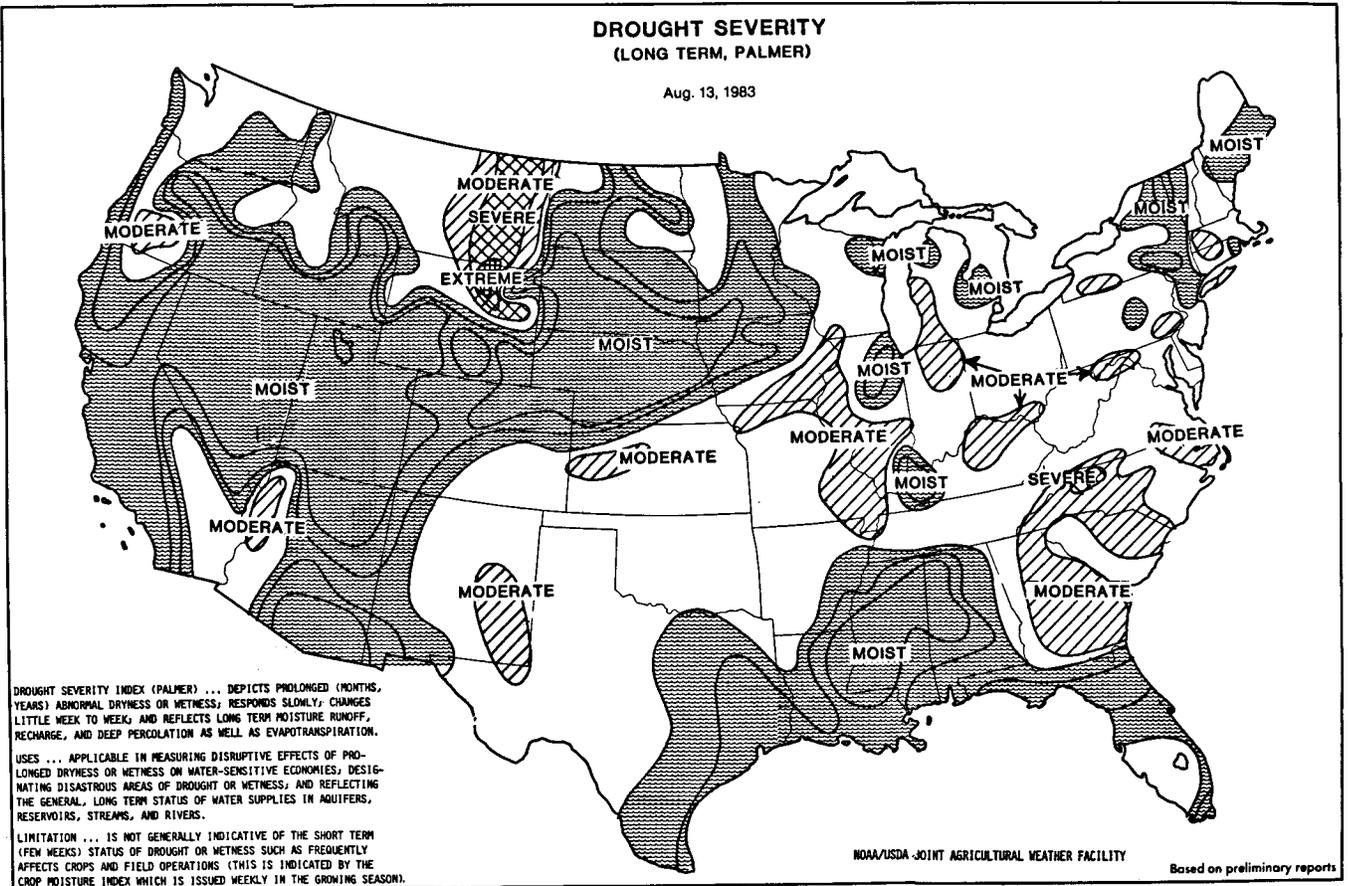
WEDNESDAY...The cooler weather was short-lived in most of the Corn Belt. Although high temperatures remained in the eighties in most of Ohio, temperatures rose to the mid-nineties in other areas and reached 101° in central Iowa and over 100° in southern Nebraska. Widespread showers developed through the Great Lakes region and light to moderate showers covered the northern parts of the States from Illinois to Ohio and into New York. Moderate showers again covered the Plateau and northern Rockies.

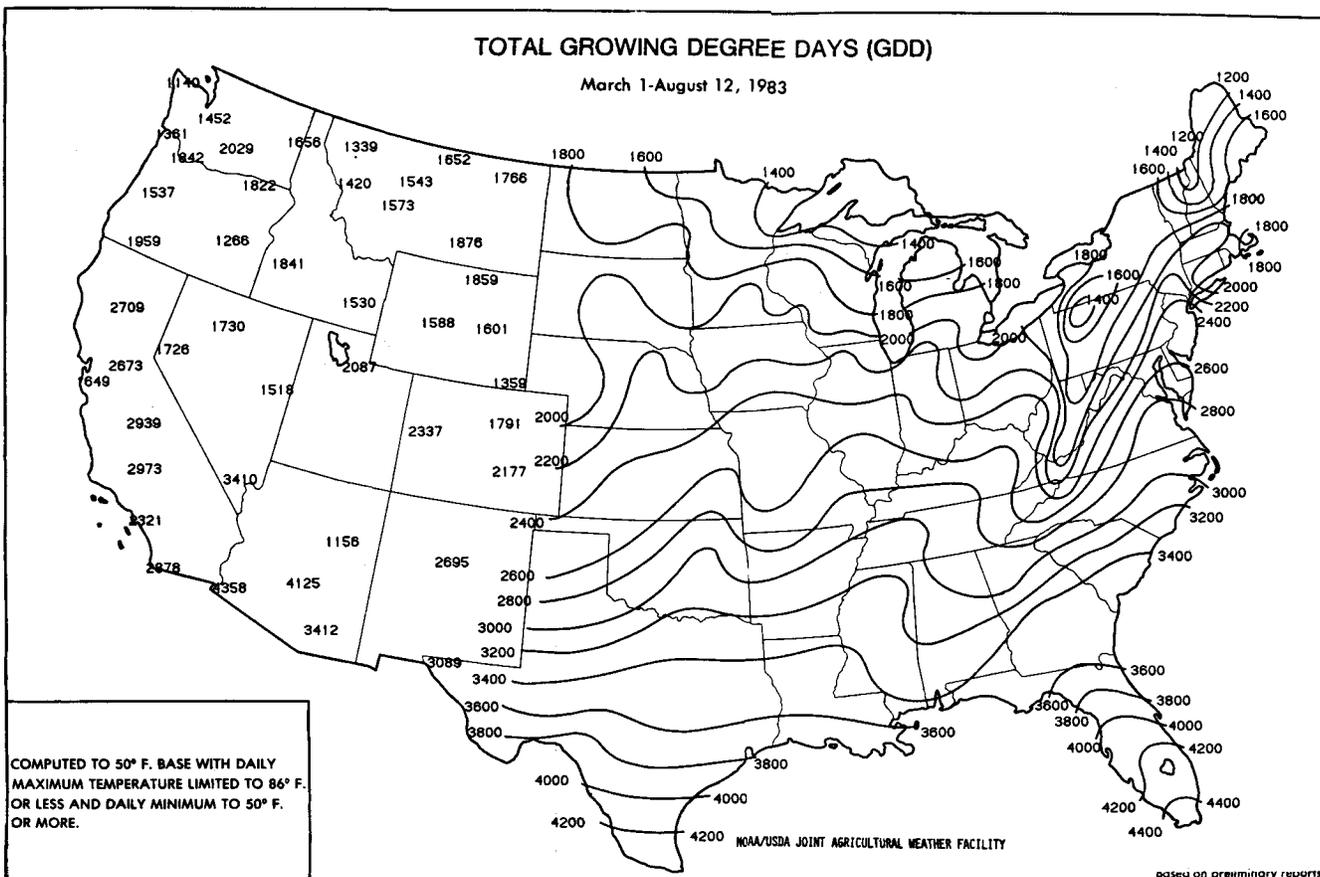
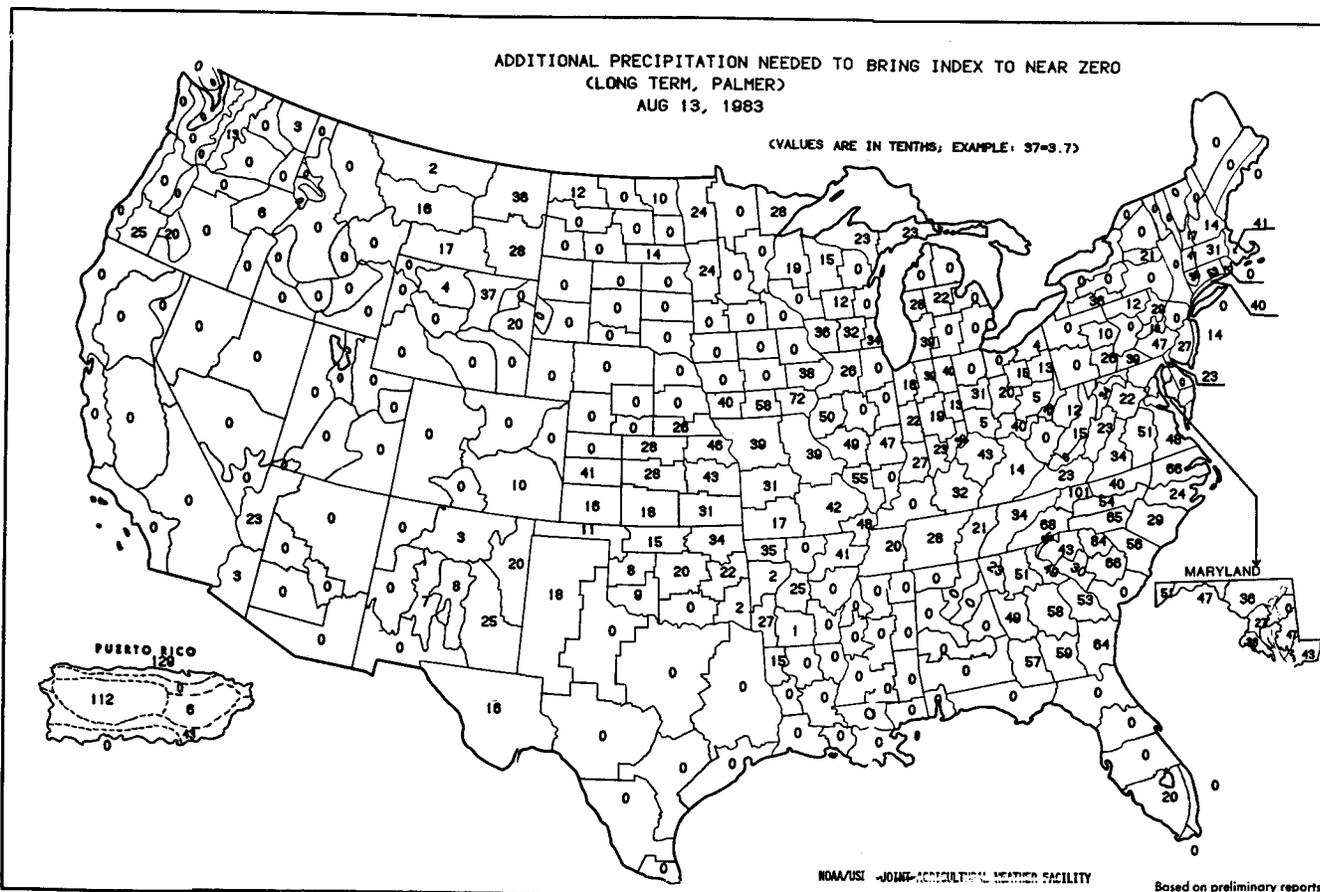
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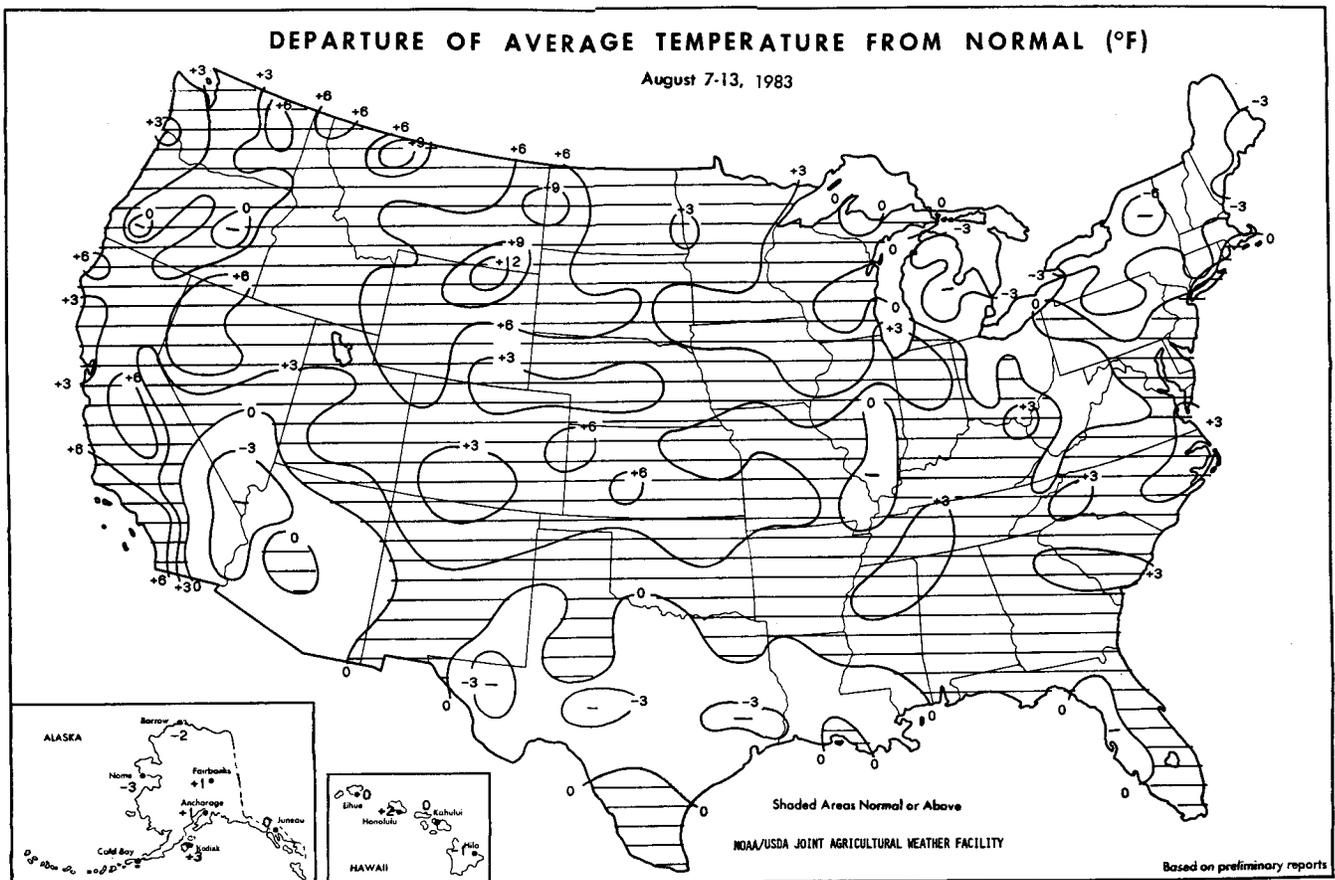
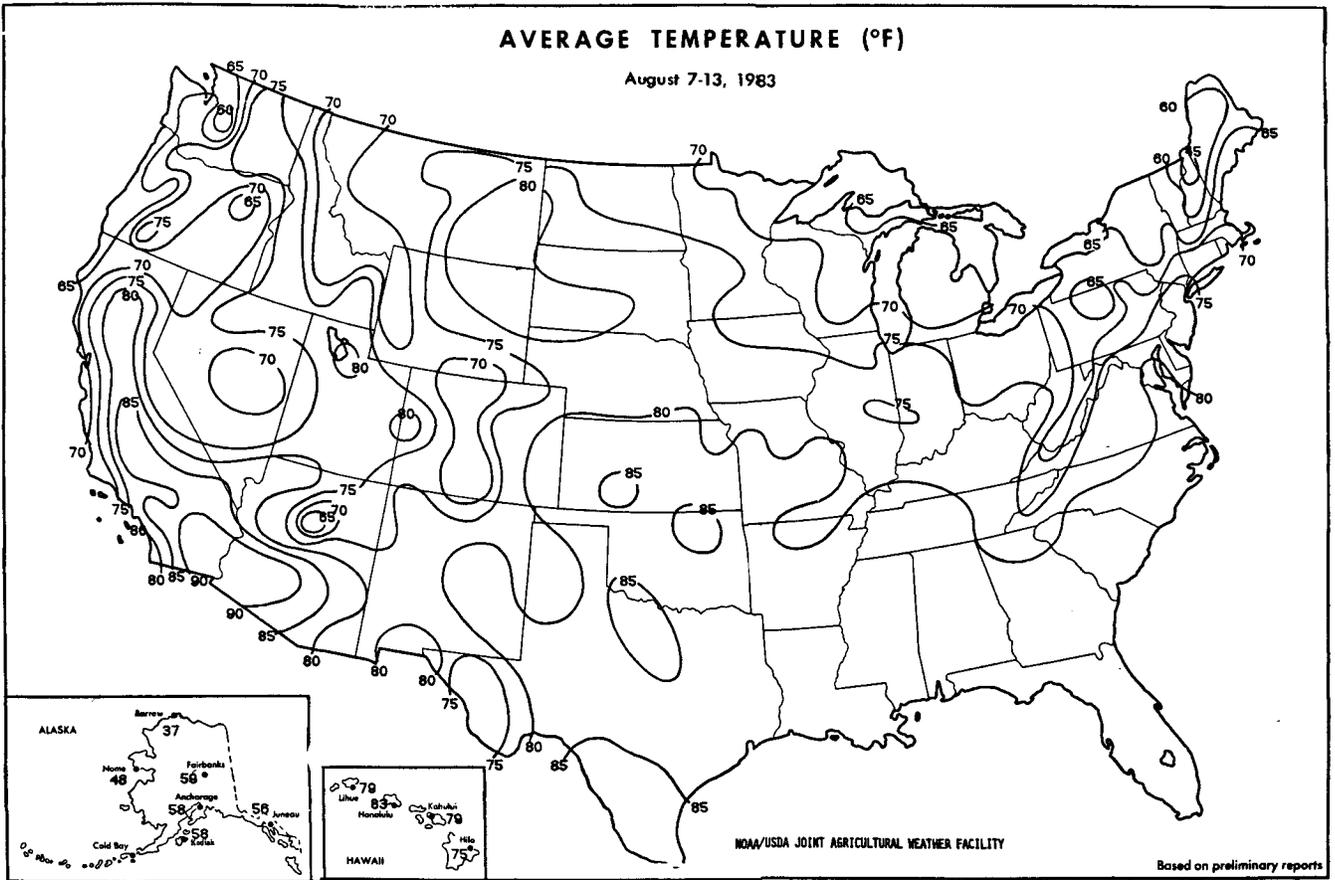
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Weather Data for the Week Ending Aug. 13, 1983

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 MAY 29	PCT. NORMAL SINCE MAY 29	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	93	71	95	67	82	2	1.6	-.7	1.5	7.1	64	41.4	111	93	43	6	0	2	1
MOBILE	91	72	94	70	82	0	2.5	-1.0	1.1	18.1	112	56.8	132	92	59	6	0	6	2
MONTGOMERY	94	71	97	70	82	1	T	-.6	T	11.7	118	49.3	151	94	49	7	0	4	0
AK ANCHORAGE	64	52	67	45	58	1	.4	0	.4	2.2	59	4.7	67	82	54	0	0	1	0
BARROW	41	33	47	28	37	-2	-.1	-.1	-.1	.6	33	.9	29	99	82	0	0	0	0
FAIRBANKS	68	50	75	43	59	1	-.1	-.3	.1	2.9	74	3.7	61	89	42	0	0	3	0
JUNEAU	60	51	70	49	56	0	2.3	1.2	1.0	8.3	88	27.1	83	100	80	0	0	6	0
KODIAK	63	53	70	45	58	3	-.2	-.9	-.2	12.3	126	50.3	141	94	71	0	0	2	1
NOME	54	43	59	37	48	-3	2.6	1.9	1.2	4.9	98	6.7	77	91	65	0	0	6	0
AZ PHOENIX	103	80	111	77	92	1	1.0	-.7	-.6	1.4	100	6.6	161	68	29	7	0	4	1
PRESCOTT	86	64	94	59	75	4	.3	-.5	.2	1.2	22	6.1	57	97	38	2	0	3	0
TUCSON	96	71	101	69	83	-1	2.4	1.9	1.1	5.2	141	9.4	145	79	32	7	0	4	0
YUMA	102	82	112	78	92	-1	.3	-.2	.1	.3	75	1.6	123	69	31	7	0	4	0
AR FORT SMITH	93	74	97	71	83	1	1.9	1.3	1.9	8.3	99	21.2	81	89	47	5	0	3	1
LITTLE ROCK	93	73	97	69	83	2	.8	-.3	.8	4.6	58	26.5	85	86	53	6	0	1	1
CA BAKERSFIELD	102	75	108	70	88	5	T	0	T	0	+100	6.9	192	65	25	7	0	1	0
EUREKA	70	56	76	53	63	6	0	-.1	0	1.6	160	36.7	161	90	67	0	0	0	0
FRESNO	101	73	106	68	87	8	T	0	T	0	+100	16.3	243	59	21	7	0	0	0
LOS ANGELES	83	69	89	65	76	6	T	0	T	.1	+100	20.7	262	85	53	0	0	1	0
RED BLUFF	100	68	106	61	84	4	T	0	T	.2	40	29.3	234	56	16	7	0	1	0
SACRAMENTO	96	63	102	53	80	5	T	0	T	.4	400	23.7	230	74	29	6	0	0	0
SAN DIEGO	85	74	88	72	79	7	-.2	-.1	-.2	-.2	200	14.4	232	82	55	0	0	1	0
SAN FRANCISCO	77	57	87	54	67	4	0	0	0	0	0	25.4	213	88	49	0	0	0	0
CO DENVER	88	63	92	59	76	3	-.3	-.1	-.3	6.1	142	16.0	148	71	29	3	0	1	0
GRAND JUNCTION	94	70	99	66	82	5	-.3	-.1	-.3	4.3	358	9.5	202	68	25	6	0	2	0
PUEBLO	94	62	96	57	78	2	-.1	-.4	T	4.1	100	9.6	120	80	23	7	0	2	0
CT BRIDGEPORT	77	64	92	56	71	-3	2.3	1.5	1.4	8.2	98	37.9	155	88	61	1	0	3	2
HARTFORD	80	59	96	52	70	-3	1.0	-.1	-.7	6.5	77	35.4	136	81	44	2	0	2	1
DC WASHINGTON	89	71	96	64	80	2	.9	-.1	.8	11.4	121	31.8	131	83	49	4	0	2	1
FL APALACHICOLA	89	74	90	73	82	0	.5	-1.1	-.3	12.8	84	39.9	124	94	64	3	0	5	0
DAYTONA BEACH	90	73	92	72	81	0	4.2	2.9	2.2	16.4	111	39.1	139	94	64	4	0	5	3
JACKSONVILLE	91	74	94	73	83	2	1.2	-.4	-.6	15.8	103	41.1	124	92	58	6	0	4	1
KEY WEST	90	81	91	77	85	1	T	-1.0	T	11.1	101	40.7	200	79	61	5	0	1	0
MIAMI	92	75	94	71	84	1	1.5	0	-.7	19.1	102	37.3	111	93	55	7	0	4	2
ORLANDO	91	75	93	74	83	0	-.7	-.8	-.4	18.2	98	37.4	114	94	60	5	0	4	0
TALLAHASSEE	92	72	93	70	82	1	1.5	-.2	-.6	13.4	70	48.1	113	98	56	7	0	5	2
TAMPA	87	76	89	74	81	-1	2.8	1.1	1.6	22.7	139	41.8	139	99	73	0	0	6	1
WEST PALM BEACH	92	75	93	73	84	1	2.8	1.6	1.5	21.1	123	49.3	146	87	55	7	0	4	2
GA ATLANTA	90	71	94	68	81	2	-.2	-.6	-.2	4.4	44	25.1	77	92	50	5	0	2	0
AUGUSTA	95	72	98	69	84	3	.1	-.9	-.1	8.2	77	32.0	110	88	45	7	0	2	0
MACON	94	73	97	71	83	2	.1	-.8	T	11.0	107	35.7	116	92	52	7	0	2	0
SAVANNAH	92	75	95	73	83	2	1.6	0	1.6	13.8	82	40.2	118	94	55	6	0	1	1
HI HILO	82	68	84	65	75	-1	2.4	0	1.6	14.8	73	38.0	49	87	62	0	0	4	2
HONOLULU	90	76	91	74	83	2	T	-.1	T	.5	38	2.0	15	74	42	5	0	1	0
KAHULUI	87	71	90	65	79	0	.1	-.1	-.1	1.2	109	4.0	34	80	53	1	0	3	0
LIHUE	84	74	85	72	79	0	.2	-.2	-.1	3.3	72	8.7	34	74	55	0	0	5	0
ID BOISE	93	63	106	49	78	4	.1	-.1	-.1	1.5	115	11.6	155	77	25	5	0	1	0
LEWISTON	93	64	105	54	78	4	.2	0	-.1	3.0	125	9.2	119	78	30	5	0	2	0
POCATELLO	91	60	99	48	76	5	-.2	-.1	-.2	2.6	130	10.1	140	79	30	5	0	3	0
IL CHICAGO	85	67	98	59	76	3	-.1	-.6	-.1	9.0	96	28.4	130	84	38	3	0	1	0
MOLINE	90	63	99	54	76	2	.1	-.7	-.1	8.4	76	20.0	81	88	40	4	0	1	0
PEORIA	89	66	97	59	78	4	-.1	-.7	-.1	7.1	72	25.0	107	86	43	3	0	1	0
QUINCY	90	65	96	58	78	2	0	-.9	0	2.6	25	16.9	69	82	38	4	0	0	0
ROCKFORD	86	61	95	52	73	1	-.1	-.8	-.1	5.8	52	19.0	77	95	43	3	0	1	0
SPRINGFIELD	89	63	95	56	76	1	0	-.7	0	4.5	50	19.0	85	92	44	4	0	0	0
IN EVANSVILLE	93	66	99	57	79	2	0	-.7	0	6.1	66	32.3	113	83	35	5	0	0	0
FORT WAYNE	86	64	95	56	75	3	.4	-.4	.3	6.2	69	18.5	79	82	38	2	0	2	0
INDIANAPOLIS	89	65	95	59	77	3	1.2	-.4	1.2	7.7	75	21.8	84	83	35	4	0	1	1
SOUTH BEND	86	63	97	58	75	3	-.2	-.8	-.1	5.4	57	19.1	81	87	41	2	0	2	0
IA DES MOINES	92	68	101	61	80	4	T	-.9	T	6.3	67	20.8	100	77	35	5	0	0	0
SIoux CITY	89	66	95	60	78	3	0	-.7	0	6.0	67	18.6	106	84	47	4	0	0	0
WATERLOO	87	60	96	54	74	2	0	-.9	0	9.3	83	23.1	102	94	48	3	0	0	0
KS CONCORDIA	96	66	102	59	81	2	0	-.8	0	4.1	43	15.3	83	80	30	7	0	0	0
DODGE CITY	100	72	105	68	86	6	0	-.6	0	6.3	83	16.4	112	67	25	7	0	0	0
GOODLAND	97	67	103	63	82	7	0	-.4	0	6.5	102	13.9	116	64	23	7	0	0	0
TOPEKA	94	63	98	58	79	1	0	-.8	0	6.7	61	23.7	109	86	39	7	0	0	0
WICHITA	97	72	102	69	85	4	0	-.6	0	11.2	122	26.1	141	74	36	7	0	0	0
KY BOWLING GREEN	91	66	98	56	78	0	-.2	-.6	-.2	7.6	70	35.7	105	95	44	5	0	1	0
LEXINGTON	90	65	97	58	77	1	.4	-.5	.4	5.8	50	25.3	81	83	34	5	0	1	0
LOUISVILLE	90	68	96	59	79	2	T	-.8	T	6.7	68	29.6	99	79	37	5	0	1	0
LA ALEXANDRIA	89	72	93	71	81	-3	1.4	-.7	.9	8.3	78	36.7	101	95	67	5	0	2	1
BATON ROUGE	89	73	92	72	81	-1	.8	-.4	.5	20.9	161	57.0	154	91	58	5	0	3	0
LAKE CHARLES	88	74	93	73	81	-1	3.2	2.1	2.3	11.7	94	36.6	110	95	69	4	0	6	2
NEW ORLEANS	89	74	93	73	81	-1	1.9	.5	1.0	18.4	128	57.5	151	90	62	2	0	3	2

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

National Weather Summary (continued from front cover)

THURSDAY...Light to moderate showers fell over the northeastern quarter of the Nation. Light showers dotted the gulf coast and showers continued from the southern Plateau and Rockies northward. High temperatures over the Corn Belt dropped to the low eighties, except for the southern edge of the Belt. Showers over the eastern portion of the Corn Belt, coupled with the cooler temperatures, were beneficial to crops.

FRIDAY...Light showers spread from the central Rockies into the Plains and became more intense from the Nebraska Panhandle into central South Dakota. Showers and thunderstorms were light and widely scattered through the Gulf States but some moderate showers fell in Louisiana and Arkansas, and along the coasts of South Carolina and Georgia. Light, occasionally moderate showers covered the Northeast from northern Pennsylvania northward. The Corn Belt was cool and dry.

Weather Data for the Week Ending Aug. 13, 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 MAY 29	PCT. NORMAL SINCE MAY 29	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME SHREVEPORT	93	72	95	70	83	0	.3	-.3	.3	9.2	107	33.2	114	95	55	7	0	2	0
ME CARIBOU	72	53	81	42	63	-1	.1	-.9	.1	10.1	110	27.2	129	90	42	0	0	2	0
ME PORTLAND	75	56	86	48	66	-2	1.2	-.6	.8	8.5	115	38.3	154	92	49	0	0	3	1
MD BALTIMORE	88	67	96	59	78	1	.3	-.8	.3	7.7	79	32.9	129	90	42	4	0	1	0
MD SALISBURY	87	68	96	58	77	2	1.0	-.4	.6	9.3	87	31.3	112	100	58	3	0	3	1
MA BOSTON	77	63	96	55	70	-3	1.7	-.9	1.0	4.7	64	33.2	131	95	56	1	0	2	2
MA CHATHAM	75	61	85	67	68	0	1.7	.8	.9	6.3	83	37.1	136	94	75	0	0	4	2
MI ALPENA	77	50	89	41	63	-2	1.0	.3	.5	6.5	81	22.0	122	98	46	0	0	3	1
MI DETROIT	81	58	92	51	70	-2	.8	0	.4	10.9	133	23.7	117	87	47	1	0	2	0
MI FLINT	78	57	93	51	68	-2	1.0	.2	.7	7.8	99	19.4	101	94	50	1	0	2	1
MI GRAND RAPIDS	79	57	88	50	68	-3	.5	.3	.5	8.0	92	22.9	109	90	52	0	0	1	0
MI HOUGHTON LAKE	76	54	88	43	65	-1	2.4	1.8	1.7	5.9	80	17.3	104	93	46	0	0	3	3
MI LANSING	79	55	92	47	67	-3	1.2	.5	.8	7.8	101	20.5	107	94	51	1	0	2	1
MI MARQUETTE	74	49	93	43	62	-2	1.5	.8	1.4	9.0	101	25.6	114	90	50	1	0	2	1
MI MUSKOGON	79	59	88	53	69	-1	.6	-.2	.6	4.9	73	15.7	83	95	52	0	0	1	1
MI SAULT STE. MARIE	78	49	88	44	64	0	.2	-.5	.1	7.7	96	19.3	104	93	42	0	0	3	0
MN ALEXANDRIA	85	64	104	56	75	5	.4	-.5	.4	8.4	94	12.4	76	82	41	1	0	1	0
MN DULUTH	78	58	92	50	68	3	1.6	-.6	1.5	8.4	83	16.4	87	87	51	1	0	2	1
MN INT'L FALLS	81	57	94	51	69	4	.3	-.4	.2	8.4	91	12.2	77	96	48	1	0	3	0
MN MINNEAPOLIS	86	64	97	57	75	2	T	.8	T	8.7	92	23.5	136	75	45	1	0	0	0
MN ROCHESTER	85	56	94	50	70	1	T	.9	T	7.9	79	18.1	97	92	47	1	0	0	0
MS GREENWOOD	93	74	96	73	84	2	T	.6	T	9.5	98	44.3	125	94	55	6	0	0	0
MS JACKSON	92	74	95	70	83	1	2.8	1.9	2.0	8.3	88	53.7	154	97	58	6	0	3	2
MS MERIDIAN	91	70	94	68	81	0	1.6	.8	1.0	11.5	107	49.9	140	100	63	6	0	3	1
MO CAPE GIRARDEAU	91	68	97	60	80	--	-.2	-.6	.2	4.1	44	27.7	96	95	46	5	0	1	0
MO COLUMBIA	90	67	95	60	78	1	0	-.6	0	6.9	78	24.3	106	92	41	3	0	0	0
MO KANSAS CITY	93	67	101	62	80	2	0	-.8	0	5.3	49	20.9	90	88	36	6	0	0	0
MO SAINT LOUIS	91	69	99	63	80	2	0	-.6	0	5.9	66	24.6	108	88	37	5	0	0	0
MO SPRINGFIELD	96	69	101	64	83	4	T	-.6	T	8.1	84	26.1	105	81	35	7	0	0	0
MT BILLINGS	94	67	102	58	81	8	.5	-.3	.5	3.0	83	7.0	69	64	23	6	0	1	0
MT GLASGOW	91	62	102	49	76	6	T	-.3	T	3.4	69	5.9	69	62	27	4	0	0	0
MT GREAT FALLS	88	60	97	48	74	5	1.0	-.7	.7	7.6	162	11.2	103	78	32	3	0	3	1
MT HAVRE	90	60	98	50	75	5	.2	-.1	.2	5.4	129	9.9	116	75	26	5	0	2	0
MT HELENA	87	60	96	50	74	6	.7	-.4	.6	6.4	168	9.1	118	80	34	2	0	3	1
MT KALISPELL	83	54	96	44	69	4	.6	-.2	.6	5.9	144	12.5	124	94	39	1	0	1	1
MT MILES CITY	96	68	105	57	82	8	T	-.3	T	3.1	61	5.6	55	58	18	5	0	0	0
MT MISSOULA	84	57	97	46	71	4	.5	-.3	.5	5.7	173	11.8	142	92	41	2	0	3	0
NE GRAND ISLAND	93	65	102	61	79	3	-.4	-.2	.4	8.7	107	19.0	114	82	32	5	0	1	0
NE LINCOLN	94	66	102	59	80	3	T	-.8	T	8.2	92	19.7	109	88	35	6	0	1	0
NE NORFOLK	90	65	95	58	78	3	-.1	-.6	.1	9.9	108	20.4	116	83	40	4	0	1	0
NE NORTH PLATTE	91	62	97	58	76	2	T	-.4	T	7.8	99	15.1	103	80	34	4	0	0	0
NE OMAHA	90	67	98	61	79	4	T	-.9	T	6.3	64	20.7	104	85	47	4	0	0	0
NE SCOTTSBLUFF	94	62	100	59	78	5	T	-.2	T	2.7	47	11.2	102	76	26	6	0	2	0
NE VALENTINE	93	64	98	61	78	4	.7	-.1	.5	12.5	181	20.2	154	86	33	5	0	2	1
NV ELY	83	53	90	46	68	1	.6	.5	.4	3.1	182	9.4	162	90	37	1	0	4	0
NV LAS VEGAS	95	74	102	70	84	-5	.7	.5	.5	.9	90	3.3	118	74	29	6	0	4	0
NV RENO	92	57	95	47	74	6	.4	.3	.3	.9	82	7.1	151	84	24	6	0	3	0
NV WINNEMUCCA	90	59	99	49	75	4	.8	.7	.5	2.0	154	6.8	128	84	31	4	0	4	0
NH CONCORD	77	53	93	44	65	-3	.4	-.3	.4	6.9	91	29.8	140	97	46	1	0	2	0
NJ ATLANTIC CITY	87	65	98	55	76	2	1.5	.4	1.2	5.6	61	28.9	109	91	47	3	0	2	1
NM ALBUQUERQUE	93	67	95	65	80	3	T	-.3	T	1.9	76	4.6	100	63	22	7	0	1	0
NM CLOVIS	89	64	93	61	76	-1	.2	-.4	.1	3.2	46	6.3	56	78	32	3	0	2	0
NM ROSWELL	94	69	97	65	81	1	.3	-.2	.2	1.6	48	3.6	68	55	26	6	0	2	0
NY ALBANY	76	56	95	49	66	-4	2.0	1.3	1.8	6.3	78	31.0	147	98	60	1	0	2	1
NY BINGHAMTON	77	57	90	50	67	-1	1.1	.4	.6	9.1	103	27.8	125	86	45	1	0	3	1
NY BUFFALO	76	59	87	51	67	-3	1.8	.8	1.1	8.2	109	19.5	89	90	50	0	0	2	2
NY NEW YORK	82	67	97	59	75	-1	1.4	.4	1.2	8.5	94	37.9	146	88	57	2	0	2	1
NY ROCHESTER	76	60	90	50	68	-3	1.6	-.9	1.1	8.1	119	19.7	103	97	50	1	0	3	1
NY SYRACUSE	74	57	91	49	66	-5	.7	-.2	.5	6.0	64	20.2	84	94	59	1	0	3	0
NC ASHEVILLE	90	63	93	58	77	3	.1	-1.0	.1	5.3	47	29.4	96	99	42	4	0	1	0
NC CHARLOTTE	93	69	97	65	81	3	.9	-.1	.9	5.5	59	24.4	88	80	36	6	0	2	1
NC GREENSBORO	89	66	95	57	78	1	.6	-.4	.6	9.7	92	29.2	107	91	42	5	0	1	1
NC HATTERAS	87	76	90	71	81	3	T	-1.3	T	7.1	56	38.3	120	90	65	1	0	1	0
NC NEW BERN	90	73	94	67	82	3	1.9	.4	1.6	12.5	82	38.5	115	89	59	5	0	2	1
NC RALEIGH	91	68	97	59	79	1	.4	-.6	.4	4.8	45	29.8	110	93	45	5	0	3	0
NC WILMINGTON	91	74	95	66	82	2	4.3	2.7	4.2	17.2	104	41.9	123	91	61	5	0	2	1
ND BISMARCK	91	59	104	49	75	4	.1	-.3	.1	5.2	85	9.5	83	77	25	3	0	2	0
ND FARGO	85	60	100	50	73	2	.1	-.6	T	6.9	86	12.0	88	89	40	1	0	2	0
ND GRAND FORKS	86	58	104	53	72	3	.5	-.1	.5	7.8	110	12.2	101	84	35	2	0	1	0
ND WILLISTON	94	64	102	56	79	9	T	-.3	T	3.1	60	6.4	67	64	22	6	0	1	0
OH AKRON-CANTON	81	59	90	53	70	-1	1.1	.3	1.0	7.2	78	23.4	98	92	46	1	0	3	1
OH CINCINNATI	88	63	94	55	76	0	1.1	.4	1.1	5.2	52	23.6	86	88	36	4	0	1	1
OH CLEVELAND	80	60	92	53	70	-1	1.0	-.2	1.0	9.9	114	23.3	101	90	56	1	0	2	1
OH COLUMBUS	84	61	93	52	73	0	.2	-.7	.2	8.6	85	22.3	87	84	34	1	0	1	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

SATURDAY...Light rain showers were scattered throughout the West. Some light rain even fell in California's San Joaquin Valley where raisins are being dried. There were many light showers and thunderstorms from the central Rockies to the upper Mississippi Valley. Light showers were widely scattered from central Texas through Florida. Temperatures remained relatively cool over the Corn Belt, but highs reached over 100° throughout central California.

Weather Data for the Week Ending Aug. 13, 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 MAY 29	PCT. NORMAL SINCE MAY 29	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	84	60	92	52	72	-2	.4	-.3	.4	10.4	117	24.1	101	89	39	1	0	1	0
TOLEDO	82	59	92	52	70	-1	.9	-.2	.7	8.8	104	19.9	98	92	48	1	0	2	1
YOUNGSTOWN	83	59	93	52	71	1	.6	-.1	.6	8.4	88	27.1	91	88	44	1	0	2	1
OK OKLAHOMA CITY	95	73	102	69	84	2	.6	-.2	.6	5.2	62	20.0	96	85	41	7	0	1	1
TULSA	97	76	102	71	86	3	.1	-.5	.1	2.9	30	20.4	83	85	47	6	0	1	0
OR ASTORIA	73	53	80	51	63	2	.1	-.2	.1	9.6	223	48.0	133	100	64	0	0	1	0
BURNS	83	50	90	38	67	-2	.1	-.1	.1	2.2	122	11.0	167	70	42	1	0	3	0
MEDFORD	91	60	102	53	76	4	T	-.1	T	1.3	108	13.0	121	75	30	5	0	1	0
PENDLETON	87	61	96	51	74	1	T	-.1	T	1.6	123	8.2	119	63	26	3	0	0	0
PORTLAND	81	60	91	54	71	3	T	-.2	T	4.7	188	28.7	141	84	46	1	0	1	0
SALEM	84	56	93	53	70	4	0	-.1	0	5.0	263	34.4	156	86	39	1	0	0	0
PA ALLENTOWN	85	65	94	55	75	2	1.4	-.5	1.4	9.4	99	32.0	121	88	45	3	0	2	1
ERIE	78	61	89	53	69	0	1.3	-.5	1.3	13.3	149	25.8	114	83	56	0	0	1	1
HARRISBURG	83	63	95	54	73	-2	.2	-.4	.2	4.9	56	28.3	119	85	44	2	0	2	0
PHILADELPHIA	88	67	97	57	77	2	1.3	-.4	1.3	4.5	46	32.3	127	89	39	4	0	1	1
PITTSBURGH	79	60	87	54	70	-2	T	-.8	T	10.7	118	26.1	107	84	44	0	0	1	0
SCRANTON	77	60	87	53	68	-3	.5	-.3	.3	9.5	108	27.7	130	88	55	0	0	2	0
RI PROVIDENCE	80	65	93	55	72	0	.6	-.4	.5	8.0	101	41.1	155	78	44	1	0	2	0
SC CHARLESTON	92	75	97	72	84	3	1.8	-.3	1.4	13.3	77	40.1	116	93	57	5	0	3	1
COLUMBIA	94	72	98	69	83	2	T	-.3	T	6.5	51	29.3	92	87	45	6	0	0	0
FLORENCE	92	71	95	65	82	2	.5	-.6	.4	12.9	101	37.0	130	94	50	6	0	2	0
GREENVILLE	91	69	95	64	80	2	.1	-.7	.1	7.1	65	31.8	96	88	42	4	0	1	0
SD ABERDEEN	90	62	98	53	76	4	T	-.4	T	10.9	160	16.2	125	80	33	3	0	1	0
HURON	91	62	98	52	77	3	.1	-.4	.1	6.9	101	11.9	90	91	34	4	0	2	0
RAPID CITY	83	66	100	58	79	6	T	-.3	T	5.0	77	9.5	76	70	30	6	0	1	0
TN SIOUX FALLS	89	62	95	55	76	2	T	-.7	T	8.6	108	18.5	112	93	46	4	0	1	0
CHATTANOOGA	92	70	97	66	81	2	.5	-.2	.5	6.8	70	30.3	89	95	43	5	0	1	1
KNOXVILLE	92	67	97	62	79	2	3.0	2.3	3.0	9.6	97	27.5	86	95	44	5	0	1	1
MEMPHIS	92	75	95	69	84	2	.2	-.7	.1	8.0	82	35.0	100	93	52	5	0	1	0
NASHVILLE	94	70	99	64	82	3	.6	-.2	.6	6.5	69	32.9	102	92	37	5	0	1	1
TX ABILENE	96	72	100	70	84	0	.1	-.4	.1	7.4	123	12.7	80	80	35	7	0	2	0
AMARILLO	94	66	99	62	80	2	.2	-.5	.1	3.1	39	10.4	78	81	29	6	0	3	0
AUSTIN	92	73	97	70	83	-2	1.2	-.8	1.2	8.3	132	24.6	172	89	51	6	0	1	1
BEAUMONT	87	74	91	73	81	-2	6.5	5.3	2.1	25.0	208	50.8	162	100	76	2	0	5	4
BROWNSVILLE	94	76	96	75	86	2	0	-.5	0	10.6	200	15.5	127	89	51	7	0	0	0
CORPUS CHRISTI	94	76	95	73	85	0	T	-.6	T	11.6	176	21.5	134	97	51	7	0	0	0
DEL RIO	96	75	99	72	85	-1	.1	-.2	.1	2.3	51	6.3	60	83	39	7	0	2	0
EL PASO	97	68	99	65	83	2	.4	-.2	.4	1.1	38	4.0	93	75	24	7	0	2	0
FORT WORTH	94	74	100	73	84	-3	2.2	1.8	1.9	7.2	126	20.7	104	87	43	5	0	2	1
GALVESTON	86	76	89	73	81	-2	2.1	1.2	1.2	12.9	139	26.8	117	86	67	0	0	6	2
HOUSTON	89	73	94	71	81	-2	2.0	1.2	1.1	13.6	145	30.8	110	94	66	3	0	5	1
LUBBOCK	91	67	97	63	79	0	.3	-.3	.2	2.5	38	8.1	68	82	36	5	0	3	0
MIDLAND	95	69	98	66	82	1	.4	-.1	.4	.9	23	3.0	36	82	32	7	0	2	0
SAN ANGELO	93	67	95	65	80	-4	T	-.3	T	5.3	133	10.0	93	86	39	7	0	3	0
SAN ANTONIO	93	74	95	70	83	-1	.7	-.1	.7	5.9	91	17.3	100	96	43	7	0	1	1
VICTORIA	91	76	93	74	83	-1	.3	-.5	.1	14.6	164	26.3	124	99	62	6	0	1	0
WACO	97	74	102	72	85	-1	.1	-.1	.3	6.7	120	16.8	82	92	45	6	0	1	0
WICHITA FALLS	98	73	105	68	85	0	.1	-.4	.1	5.7	92	15.6	90	83	33	6	0	1	0
UT BLANDING	89	60	94	58	74	2	.3	0	.2	3.5	167	9.3	158	79	34	3	0	3	0
CEDAR CITY	90	62	93	59	76	3	.3	0	.2	1.8	82	8.7	136	75	26	4	0	2	0
SALT LAKE CITY	93	70	99	64	82	5	.2	-.1	.2	2.2	100	12.8	131	71	32	6	0	1	0
VT BURLINGTON	73	54	88	46	64	-5	2.0	1.1	1.1	9.7	108	29.4	147	96	47	0	0	5	2
VA NORFOLK	90	72	99	66	81	3	.7	-.6	.3	5.8	51	28.3	101	88	50	4	0	3	0
RICHMOND	89	66	99	59	78	0	.4	-.8	.3	6.7	59	26.0	97	99	47	4	0	2	0
ROANOKE	89	64	96	53	76	1	.3	-.6	.3	5.3	60	28.2	114	92	39	4	0	1	0
WA COLVILLE	85	58	96	52	72	4	.2	0	.2	4.7	174	16.7	162	81	38	2	0	2	0
QUILLAYUTE	74	52	89	48	63	4	.1	-.5	.1	15.9	230	70.2	126	96	52	0	0	1	0
SEATTLE-TACOMA	75	58	81	56	66	1	.3	0	.3	4.6	164	23.2	115	87	52	0	0	1	0
SPOKANE	88	61	96	50	74	5	.5	.3	.3	4.5	214	12.9	125	75	29	4	0	3	0
YAKIMA	88	59	95	47	73	4	T	0	T	1.0	125	7.4	180	72	34	4	0	1	0
WV BECKLEY	79	58	85	49	68	-2	1.3	-.5	1.1	12.5	124	23.4	83	98	57	0	0	2	1
CHARLESTON	88	64	94	55	76	1	.8	-.3	.8	8.9	82	25.6	91	95	44	4	0	1	1
HUNTINGTON	90	66	98	60	78	3	1.8	-.9	1.6	7.1	70	23.1	84	96	40	5	0	2	1
PARKERSBURG	84	63	91	54	73	-1	.3	-.6	.3	7.0	63	25.6	89	94	42	2	0	1	0
WI GREEN BAY	78	56	88	51	67	-2	.6	-.1	.6	7.2	89	17.0	97	94	52	0	0	1	1
LA CROSSE	87	59	93	54	73	0	T	-.8	T	5.0	51	14.6	73	95	42	2	0	0	0
MADISON	85	53	92	44	69	-1	T	-.9	T	4.6	47	16.0	79	95	43	2	0	0	0
MILWAUKEE	81	64	97	55	73	2	1.3	-.6	1.3	4.6	52	21.7	111	81	45	1	0	1	1
WAUSAU	81	57	93	51	69	0	.4	-.5	.4	6.5	65	15.4	75	88	42	1	0	1	0
WY CASPER	93	59	98	55	76	5	.3	-.1	.2	6.7	239	13.2	161	83	25	6	0	3	0
CHEYENNE	84	56	88	54	70	2	.1	-.3	.1	6.0	122	15.1	153	91	37	0	0	1	0
LANDER	91	64	98	59	77	7	.2	-.2	.2	1.8	72	10.6	113	62	23	5	0	2	0
SHERIDAN	99	64	106	53	82	12	.2	0	.1	.8	21	4.9	46	63	21	7	0	2	0
PR SAN JUAN	91	78	95	76	84	2	.3	-1.0	.1	9.7	79	24.2	82	90	64	5	0	3	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

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

LAST DATE OF DATA COLLECTION PERIOD IS 8-13-1983
ACCUMULATIONS ARE FROM JANUARY 1
***** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

Table with columns: STATE CITY, CALL, WEEK TOTAL, WEEK DEV FROM NORM, WEEK DEV FROM L YR, CUM TOTAL, CUM DEV FROM NORM, CUM DEV FROM L YR, CUM DEV FROM NORM PRCT, CUM DEV FROM L YR PRCT. Lists 100+ cities and their corresponding cooling degree day data.

(see back cover for more information)

National Agricultural Summary

August 8 to 14

HIGHLIGHTS: Hot, dry weather continued to stress row crops and reduce pasture forage supplies from the northern and central Plains into the western Corn Belt. Scattered thunderstorms from east Texas into the Northeast helped relieve moisture shortages, but additional precipitation is needed in most areas. Soil moisture supplies were mostly short to adequate across the Nation, except in portions of States from the southern Corn Belt through the Southeast and in the Southwest where some very short supplies were reported. Farmers in all regions had over 5 days available for fieldwork. Winter wheat combining was 94% completed. Harvesting was centered in the northern producing States. Spring wheat harvesting advanced to 50% completion, trailing the average of 31%. Corn was 95% silked, and 37% was in or past the dough stage. Harvesting gained momentum in the South. Some producers cut their poorest corn for silage. Soybeans were in fair to good condition. However, fair to poor conditions began appearing in portions of the Corn Belt and the Mid-Atlantic States. Eighty-two percent of the crop was blooming and 53% set pods. Cotton was setting bolls on 77% of the acreage. Sorghum was in poor to good condition. Heading was 62% complete. Development lagged in all States, except Missouri. Harvesting was over one-half finished in Texas. Rice was headed on 50% of the acreage and 8% was harvested. Harvesting of summer vegetables and planting of fall crops continued to be active. Pastures and ranges continued to deteriorate. Supplemental feeding of livestock became more widespread.

SMALL GRAINS: In the 15 major producing States, the winter wheat harvest was 94% complete, 1 point ahead of the average. Combining was finished in all but the northern States. Progress lagged the average by 14 percentage points in Oregon, 12 points in Idaho, and 5 points in Colorado. Producers across the Corn Belt plowed harvested fields in preparation for fall seeding of winter wheat. Plowing was 15% finished in Indiana, equaling the average.

Spring wheat combining advanced rapidly in the 5 major producing States. Fifty percent was harvested, compared to the 31% average. South Dakota producers harvested 44% of their acreage during the week, while Minnesota and North Dakota farmers combined 40% and 31%, respectively. All States were ahead of schedule, except Idaho which trailed the average by 9 points.

CORN: Corn was rated fair to poor across portions of the Corn Belt and from the Southeast northward into New Jersey. The crop was in generally fair to good condition across the rest of the Nation. In the 17 major producing States, corn was 95% silked and 37% of the acreage was in or past the dough stage. Last year 94% was silked and 48% was in the dough stage. In the eastern Corn Belt, 47% was in the dough stage, 9 points behind average. In the western Corn Belt, only 26% was in the dough stage, 10% behind normal. Harvesting became more widespread across the South, reaching 16% completion in Georgia. Some farmers began cutting their poorest corn as silage.

SOYBEANS: Soybeans were rated fair to good across most of the Nation. However, fair to poor conditions began appearing from Arkansas to Illinois and from North Carolina to New Jersey. Rain benefited stands across much of the eastern half of the Nation but additional precipitation is needed in nearly all areas. In the 18 major soybean States, 82% of the crop was blooming and 53% was setting pods, compared to 86% blooming and 57% setting pods a year ago.

Pod setting trailed the average by 29 points in Kentucky, 26 points in Mississippi, and 23 points in Alabama.

SORGHUM: Continued dry weather pushed sorghum toward maturity in the eastern Corn Belt and Central Plains. Conditions varied widely with most of the crop in poor to fair condition. In the 7 major producing States, 62% of the acreage was headed, compared to 57% last year and the average of 71%. Harvest in South Texas was delayed at mid-week by showers but resumed late in the week. Harvesting reached 52% completed in Texas. Additional moisture is needed to fill heads.

COTTON: Cotton was in fair to good condition, except in Louisiana and Missouri where poor to fair conditions were reported. In the 14 major producing States, cotton was setting bolls on 77% of the acreage, about the same as last year, but 11 points behind the average. Progress lags last year by one to two weeks in California and the Delta States because of late planting. The crop is developing rapidly under mostly dry conditions. Moisture stress was apparent in parts of the Delta, the plains of Texas and Oklahoma. Cotton was beginning to open in Arizona, with 5% of the acreage showing open bolls. Harvest gained momentum in the Rio Grande Valley as the Texas harvest reached the 5% mark. Pink bollworm control measures increased in Arizona.

OTHER CROPS: Peanuts were in fair to good condition. In the Southeast, showers were beneficial. Pegging was complete in Georgia and progressing well in Texas.

Tobacco was in poor to fair condition in Kentucky and Tennessee, and mostly fair to good elsewhere. Topping and harvesting activities continued. The flue-cured markets opened in Virginia on the 15th. Shade and Broadleaf tobacco were being harvested in New England.

Rice was rated in fair to good condition. In the 5 major producing States, 50% of the acreage was headed, compared to 65% for both last year and average. Harvest reached 34% in Texas and 17% in Louisiana, well behind last year and average progress. Heavy showers caused some lodging along the coastal area of Texas.

VEGETABLES: Harvesting of summer vegetables slowed in northern areas. Land preparation and planting of fall vegetables was active in all areas. California growers continued to harvest a wide variety of vegetable crops. Broccoli and Cauliflower harvesting was heavy in the Salinas - Watsonville area. In the San Joaquin Valley, harvest of snap beans, cantaloups, sweet corn, watermelon, and market tomatoes was active. In Florida, laying of plastic film and planting of fall vegetables was delayed by heavy rains in some areas. However, seeding and transplanting of celery, eggplant, peppers, tomatoes, and sweet corn was active. Maine potatoes were in fair to good condition. Potatoes were turning color on 16% of the acreage in Idaho.

FRUITS AND NUTS: Growers began picking early apples and pears as far north as New York. Peach picking gained momentum in the Northeast and Northwest. Georgia's peach harvest was nearly complete, while South Carolina producers had picked 88% of the crop. Florida's citrus groves continued in excellent condition after heavy showers added to the moisture supply. California growers continued to harvest a wide variety of crops. Stone fruit picking declined while early apple harvesting began. Raisin producers prepared for the harvest.

(continued on back cover)

CROP PROGRESS

FOR WEEK ENDING AUG 14, 1983

CORN % SILKING			CORN % DOUGH			SOYBEANS % BLOOMING			SOYBEANS % SETTING PODS		
	1983	1982	AVG.		1983	1982	AVG.		1983	1982	AVG.
COLO	81	75	83	COLO	16	15	18	ALA	74	82	79
GA	100	100	100	GA	99	99	99	ARK	44	65	59
ILL	99	100	100	ILL	65	77	71	GA	74	86	81
IND	97	100	94	IND	40	85	65	ILL	95	93	93
IOWA	98	95	99	IOWA	25	25	39	IND	97	99	92
KANS	96	90	90	KANS	30	50	55	IOWA	98	100	98
KY	86	98	92	KY	25	84	74	KANS	75	50	75
MICH	90	95	94	MICH	25	50	35	KY	58	80	64
MINN	95	95	96	MINN	22	10	17	LA	64	86	84
MO	97	100	84	MO	60	70	56	MICH	95	97	92
NEBR	98	85	98	NEBR	25	35	45	MINN	97	97	95
N C	100	99	99	N C	85	87	88	MISS	68	91	86
OHIO	96	100	96	OHIO	40	75	45	MO	83	70	71
PA	80	92	88	PA	17	45	40	NEBR	100	90	95
S DAK	88	74	93	S DAK	22	11	26	N C	60	54	60
VA	90	91	94	VA	65	68	74	OHIO	93	98	93
WIS	88	84	86	WIS	31	29	30	S C	56	73	73
17 STATES	95	94	96	17 STATES	37	48	48	TENN	78	87	81
								18 STATES	82	86	84
								18 STATES	53	57	59

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

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

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

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

WINTER WHEAT % HARVESTED			SPRING WHEAT % HARVESTED			RICE % HEADED			COTTON % SETTING BOLLS		
	1983	1982	AVG.		1983	1982	AVG.		1983	1982	AVG.
CALIF	99	100	100	IDAHO	11	13	20	ARK	37	59	53
COLO	90	91	95	MINN	60	34	35	CALIF	20	22	39
IDAHO	23	22	35	MONT	25	5	5	LA	70	83	86
ILL	100	100	100	N D	46	19	23	MISS	42	75	63
IND	100	100	100	S DAK	87	80	83	TEX	100	100	100
KANS	100	100	100	5 STATES	50	28	31	5 STATES	50	65	65
MO	100	100	100								
MONT	60	20	35	THESE 5 STATES PRODUCED 96% OF THE 1982 SPRING WHEAT CROP.				THESE 5 STATES PRODUCED 98% OF THE 1982 RICE CROP.			
NEBR	100	100	100								
OHIO	100	100	100								
OKLA	100	100	100								
OREG	67	84	81								
S DAK	98	97	98								
TEX	100	100	100								
WASH	70	70	66								
15 STATES	94	92	93								

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

THESE 5 STATES PRODUCED 96% OF THE 1982 SPRING WHEAT CROP.

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

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

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

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

August Crop Production Highlights

ALL WHEAT production forecast at 2.42 billion bushels, down 14 percent from 1982 record high production. The 90 percent confidence interval for this production forecast is 2.34 to 2.50 billion bushels. Winter wheat forecast at 1.96 billion bushels, 7 percent less than 1982. Durum wheat production forecast at 81.0 million bushels, down 45 percent from last year while other spring wheat production at 380 million bushels is 31 percent below 1982's record production.

FOOD GRAIN production (wheat, rye, and rice) expected to total 71.5 million metric tons in 1983, down 15 percent from a year earlier.

CORN FOR GRAIN production is forecast at 5.24 billion bushels, 38 percent below record high 1982 crop. The 90 percent confidence interval for this production is 4.62 to 5.85 billion bushels.

SORGHUM GRAIN production forecast at 562 million bushels, down 33 percent from last year's production.

FEED GRAIN production (corn, sorghum, oats, and barley) expected to total 167 million metric tons; down 35 percent from a year earlier.

SOYBEAN production forecast at 1.84 billion bushels, 19 percent smaller than record crop of (continued on back cover)

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: Rainfall scattered, none to over 1.50 in.

Fieldwork: 5.3 days. Corn mature 41%, 1982 78%, average 69%. Cotton setting bolls 95%, 1982 100%, average 100%. Soybeans blooming 74%, 1982 82%, average 79%. Soybeans setting pods 39%, 1982 64%, average 62%. Activities: Harvesting corn, hay, vegetables and fruits; pest control in field crops; and routine care of livestock and poultry. Conditions: Corn, soybeans, cotton, and pasture mostly fair, livestock fair to good; peanuts good.

ALASKA: Weather warm earlier week, cooled to fall-like temperatures by weekend. Weekly temperatures colder than normal, Tanana Valley normal, slightly cooler than normal Matanuska Valley and Kenai Peninsula. Kodiak Island warmer than normal. Rainfall light Tanana Valley and Kodiak Island dry. Heavier amounts fell earlier and later week Matanuska Valley and Kenai Peninsula, most areas receiving 1.00 in. or more.

Cloudy skies, intermittent precipitation cooler temperatures prevailed most Railbelt. Fieldwork ranged up 6.0 days. Second crop hay making has begun some areas Tanana and Matanuska Valleys. Small grain fields made excellent progress, majority of fields turning color. Grain harvest expected to start within next two weeks. Light to moderate wind or rain damage some areas. Potato digging starting some early seeded areas and expected to increase by labor day.

ARIZONA: Increase thunderstorm activity, temperatures cooling from previous week. Moisture amounts between 0.50 and 1.50 in. except locally around 2.00 in. Average temperatures varied 4° below normal to 4° above.

Growers Yuma County began ring picking lemons increasing scale for 1983-84 harvest season. Size lemons picked dependent market conditions. If conditions favorable, growers pick smaller as well as larger lemons. Only larger lemons picked with less than ideal conditions. Lemons, other citrus crops not yet ready for general harvest, continued sizing satisfactorily. Growers southeastern areas increasing harvest apple crop, also picking peaches steady rate. Limited grape harvest occurred central areas. Statewide rains caused minor delays fruit picking activities, rains delayed dry onion harvest Willcox Area although growers picked full scale basis when conditions permitted. Only limited volume cantaloups, watermelons picked. Sharlyn melons picked for another week Harquahala Valley. Fall lettuce planting underway Willcox Area, plant emergence evident. Fall lettuce planting get underway Marana Area 15th, Phoenix growers beginning August 20. Continued rains, wind slowed progress field crop activities, times brought it to complete standstill. Some lodging occurred cotton Yuma County. All cotton setting bolls, same as both last year, average. Cotton open bolls 5%, considerably behind average approximately 22%. Some boll rot expected in cotton that has opened due to rain. Pink bollworm activity increasing, growers stepping up spraying activities. Other insects being sprayed included lygus, stinkbugs. Herbicides applied as needed. Rain damage apparent cut fields alfalfa, also some baled hay. Delayed further harvest of crop as it reached maturity.

Corn, sorghum made satisfactory progress. Ranged maturity from establishing stands to tasseling in corn, heading out in sorghum. Insecticides, herbicides applied as needed.

ARKANSAS: Temperatures 3 to 4° above normal, highs ranging from 93° to 105°. Highest 105°, lowest 58°. Scattered thundershowers, most rainfall 2.38 in., least none.

Fieldwork 6.7 days. Crop growth slow. Soil moisture short. Cotton fair; virtually all fields setting bolls, same as 1982 and average. Rice good condition; headed 37%, 59% 1982, 53% average; none harvested, same as 1982 and average. Soybeans fair to poor; blooming 44%, 65% 1982, 59% average; setting pods 17%, 44% 1982, 34% average. Corn good to fair. Sorghum fair condition. Pastures below normal. Cattle fair to good; gaining slowly.

CALIFORNIA: Temperatures were above normal across the State. The one exception was the southern Desert region which was down 1°. This was mainly due to cloudiness and shower activity which surged up from the south as a result of a large high pressure system centered over the southwest. But generally, the highest temperatures were seen early in the week and cooling somewhat later.

Ideal weather assisting all field crop developments. Rice fields showing good progress, 20% headed, 22 last year, 39 average. Cotton development accelerating with warmer weather, 75% setting bolls, 90% last year, 85 average. Spraying for lygus and mites was taking place. Field corn and grain sorghum developing well. Safflower maturing rapidly. Sugarbeets being harvested. Dry beans progressing well with a few fields showing stress. Alfalfa hay being cut. Apple harvest underway for earlier varieties. Later varieties showing good size, color. Scab continues to be problem in coastal areas. Hass, Reed avocado harvest continues. Coachella valley date crop progressing normally, bagging, dethorning activities continuing. Fig harvest to begin shortly. In southern San Joaquin Valley, recent spotty rain showers and high humidity increased decay in grapes and tree fruits. Raisin grapes maturing as growers start preparation for harvest. Volume of Thompson seedless variety increasing as more growers begin harvest. Maturity continues to be concern in many vineyards with considerable selective picking required. Stonefruit harvest winding down with brown rot showing up in Freestone peaches and nectarines. Bartlett pear harvest continues. Harvest of other pear varieties expected to begin mid-August. Prune harvest began in southern San Joaquin Valley, won't begin in northern Sacramento Valley for another week. Crop looks fair to good. Summer grapefruit harvest started in southern coastal areas. Lemon picks tapering off. Valencia orange quality fair with small sizes reported. Almonds harvested on westside of San Joaquin Valley. Walnuts reported falling from blight. Some tree losses from the excess winter rains reported in the northern Sacramento Valley. Green bean harvest active coastal San Joaquin Valley. Broccoli harvest active Salinas-Watsonville. Cantaloup harvest active San Joaquin Valley, some maturity problems. Planting fall melon crop begun Desert. Carrot harvest active Central Coast. Cauliflower heavy supply

Salinas-Watsonville areas, transplanting beginning San Joaquin Valley. Clery harvest active Central Coast. Harvest sweet corn continued coastal San Joaquin Valley western Riverside. Mixed melon harvest active Central Valley. Lettuce harvest moderate Salinas-Watsonville, Santa Maria, South Coast. Sweet-potato harvest progressing well San Joaquin Valley. Summer potato active, fair quality red, white varieties. Winter potato planting Riverside area. Market tomato harvest active northern San Joaquin Valley, South Coast. Transplanting started San Joaquin Valley. Processing tomato harvest increasing River District. Watermelon harvest active San Joaquin Valley, South Coast. Range grass very good, dry feed losing value. Some report continuing grasshopper problem.

COLORADO: Dry and warm with shower activity returning last half of week, heavy across middle of the State. Temperatures averaged 2 to 7° above normal.

Winter wheat very good condition, 96% ripe, slightly below normal 90% harvested, 91% last year, 95% average. Corn good to very good condition; 81% silked, 75% last year, 83% average; 16% dough, 15% last year, 18% average. Sorghum fair to good condition; 36% headed, 27% last year, 44% average. Barley, oats, and spring wheat good to excellent condition, barley 75% turning color, 92% last year; 50% ripe, 62% last year; 40% harvested 48% last year and average. Spring wheat 7% harvested, 17% last year, 32% average. Statewide, 6.0 days suitable for fieldwork. Topsoil and subsoil moisture scarce in some areas but mostly adequate. Range and pasture conditions fair in dry areas, very good elsewhere.

FLORIDA: Tropical air continued to generate typical summertime pattern of scattered shower, thunderstorm activity each day. Rainfall averaged a little above normal with amounts generally 1.00 to 3.00 in. Temperatures averaged near seasonal summer norms.

Soil moisture supplies generally adequate with frequent rains, thunderstorms. More corn reaching harvest stage; harvest will increase as weather permits. Pest control active soybeans, sorghum. Early sorghum being harvested; late plantings continue. Most tobacco growers have completed harvest. Sugarcane, cotton, peanuts making good progress. Haymaking continues to be hampered by rains. Pasture conditions very good to excellent Statewide. Grass shows excellent growth and calves are making good weight gains. Cattle remain in very good condition. Citrus near excellent condition. All areas had hard rains, thunderstorms. Cloud cover reduced temperatures. Much new foliage evident. New crop fruit progressing normally. Some testing of early bloom grapefruit. Land preparation, laying of plastic for fall vegetable plantings very active. Delays from heavy rains occurred some areas. Seeding, transplanting increasing for celery, eggplant, peppers, tomatoes. Early cabbage seedbeds progressing favorably with some transplanting expected shortly. Sweet corn seeding continues, everglades. Most other vegetable plantings expected to get underway early September.

GEORGIA: Generally hot, hazy and humid. Widely scattered showers, mainly early in week, averaged less than 0.25 in. southeast but around 0.15 in. elsewhere. Temperatures near normal, south, but 3 to 5° above normal elsewhere. Cold front moved through State on 13th and 14th, bringing cooler and drier air.

General, south received rainfall, heaviest 3.30 in. at Brunswick on 13th with the north receiving little or none. Temperatures averaged 2 to 5° below normal.

Soil moisture 18% very short, 45% short, 36% adequate. Average days suitable for fieldwork 5.6. Several crops under stress, need moisture. Insects increasing. Main activities insect and disease control, harvesting, livestock and poultry care. Corn 6% very poor, 22% poor, 48% fair, 22% good; 99% dough stage, equal last year and average; 90% dent, last year and average 96%; 69% mature, last year 86%, average 87%; 16% harvested, last year 32%, average 29%. Cotton condition 13% poor, 52% fair, 34% good; 98% setting bolls, last year 98%, average 99%; 4% open, last year 5%, average 11%. Peanuts condition 3% very poor, 3% poor, 40% fair, 52% good; pegging virtually complete. Fungus and insect controls active. Soybean condition 10% poor, 55% fair, 32% good; 74% blooming, last year 86% average; 43% setting pods, last year 53%, average 46%. Tobacco condition 61% fair, 37% good; 72% harvested, last year 90%, average 80%. Watermelons 10% poor, 69% fair, 21% good; 93% harvested, last year 96%, average 93%. Peaches 99% picked, last year 100%, average 98%. Apple condition 16% very poor, 37% poor, 31% fair, 16% good; 29% picked, last year 57%, average 37%. Hay crops 16% poor, 50% fair, 33% good. Pastures 19% poor, 46% fair, 33% good.

HAWAII: Weather favorable for the development of most crops prevailed in the State. Locally heavy, showers fell late in the week with some stations reporting more than 1.00 in. of rain on 12th. Otherwise, skies were mostly sunny. Supplies of most vegetables will be moderate. Watermelon production expected to increase as new fields come into harvest. Papaya production in a seasonal downturn.

IDAHO: A dry southwesterly flow early in the week allowed temperatures to soar across Idaho. At midweek clouds and shower activity returned and by week's end temperatures had dropped and precipitation was located over the entire State. Temperatures were above normal across the entire State. Most locations were 3 to 6° above normal with Idaho Falls 10° above normal. Many locations in the south and north central prairies broke the 100° barrier early in the week. Temperatures cooled off by midweek to break the record setting heat wave. Precipitation amounts were also above normal across most of the State. Amounts anywhere from 0.10 to 0.75 in. above average. Heaviest rainfall was in the north and extreme southeast. The only subnormal amounts were in the Idaho Falls area.

Farmers reported 5.3 days suitable for fieldwork. Winter wheat 23% harvested compared to 22% last year and 35% average. Spring wheat 11% harvested versus 13% a year ago and 20% average. Barley 15% complete compared to 12% for 1982 and 17% average. Potatoes turning color on 16th of the acreage versus 14% last year. Nearly 60% of the grass seed harvested compared to 65% for 1982. Dry peas trailing last year with 21% of crop harvested versus 46% a year ago. Second cutting of alfalfa finished on 45% of the acreage versus 60% last year.

ILLINOIS: Temperatures 1° below normal to 2° above normal. Precipitation none to 1.00 in.

Soil moisture 97% short, 3% adequate. Day suitable fieldwork 6.8. Corn silking 99%, 1982 100%, average 100%; dough 65%, 1982 77%, average 71%; dented 18%, 1982 33%, average

29%; condition 14% good, 48% fair, 34% poor, 4% failure. Soybeans 95% blooming, 1982 93%, average 93%; 72% setting pods, 1982 75%, average 71%; condition 18% good, 58% fair, 24% poor. Winter wheat 100% harvested, 1982 100%, average 100%. Alfalfa hay 3rd crop 36% cut, 1982 33%, average 36%; condition 8% good, 41% fair, 49% poor, 2% failure. Pasture condition 1% good, 16% fair, 64% poor, 19% failure. Livestock condition fair.

INDIANA: Temperatures close to normal. Northwest 2 to 4° above normal. Beneficial precipitation some central and northern sections. Overall coverage limited to about 40%. Southern sections generally dry. Heat stress lower than recent past but drought stress continues.

Fieldwork averaged 6.2 days. Topsoil and subsoil moisture short. Oats 100% combined, 1982 100%, average 95%. Alfalfa hay 95% cut twice, 1982 95%, average 90%. Winter wheat land 15% plowed, 1982 15%, average 15%. Corn condition poor to fair. Corn 97% silked, 1982 100%, average 94%. Corn 40% in dough, 1982 85%, average 75%. Soybeans 97% blooming, 1982 99%, average 92%. Soybeans 60% setting pods, 1982 70%, average 55%. Pastures poor.

IOWA: A hot, dry week. Temperatures averaged 3 or 4° above normal. Widely scattered light showers fell at midweek and on the weekend in eastern counties. During the past 6 weeks precipitation averaged about 0.40 in. over the southeast third of State, about 7% of the normal 5.6 in. Temperatures last week ranged from 45° at Manchester to 102° at Leon.

Days suitable 6.9. Corn silked 98%, 95% last year, 99% normal; milk stage 68%, 62% last year, 79% normal; dough stage 25%, 25% last year, 39% normal. Soybeans bloomed 98%, 100% last year, 98% normal; setting pods 82%, 65% last year, 82% normal. Second crop alfalfa hay harvested 98%, 100% last year 99% normal. Second crop clover hay harvested 80%, 77% last year, 81% normal. Third crop alfalfa hay harvested 10%, 13% last year, 22% normal. Oats harvested 99%, 100% last year, 100% normal. Topsoil moisture 96% short; 4% adequate. Subsoil moisture 60% short; 40% adequate.

KANSAS: Temperatures averaged 81 to 82° north and east central, 86° southwest, 84 to 85° elsewhere, 6 to 7° above normal west, 3 to 4° above normal otherwise. Precipitation light, only traces west, 0.10 to 0.25 in. north central and northeast, less than 0.10 in. elsewhere.

Corn 96% silked, 90% last year and average; 30% dough, 50% last year, 55% average; 4% dent, 15% last year, 20% average; 0% mature, 4% last year, 5% average. Sorghum 35% headed, 20% last year, 50% average; 1% colored, 1% last year, 5% average. Soybeans 75% bloomed, 50% last year, 75% average; 40% podded, 25% last year, 50% average. Crop conditions vary from near failure to very good. Corn and sorghum being cut for silage. Pastures and range generally poor to fair, some severe drought stress. Supplemental feeding necessary many areas, livestock gains slowing. All 7 days suitable for fieldwork, but activities limited due to lack of moisture.

KENTUCKY: Hot, humid weather prevailed over Kentucky until midweek. High temperatures mostly in 90's averaged 1 to 2° above normal. Cold front swept south through State on 11th delivered widespread thunderstorm activity. Rainfall varied from none to over 2.00 in.

Dry warm conditions continued to stress crops. Soil moisture 80% critically short, 17% short and 2% adequate. Fieldwork 5.7 days

available. Over 70% reporters rated corn and pasture poor and over 60% rated tobacco and hay poor. Burley 16% topped, 68% last year, 51% average. Started harvesting tobacco drying up. Corn 86% silking or beyond, 98% last year, 92% average, 25% dough and beyond, 84% last year, 74% average. Concern over harvesting corn as green chop due to possible nitrate poisoning. Soybeans fair with 58% blooming or beyond, 80% last year, 64% average; pods setting or later 14%, 38% last year, 43% average. Pastures continue to deteriorate and farmers feeding hay to livestock. Some hay being harvested.

LOUISIANA: Rainfall ranged none northwest to over 2.00 in. central and over 5.00 in. southwest. Temperatures averaged -1.0° to 1.0°. High 96°; low 70°.

Soil moisture adequate. Corn dough 97%, 99% 1982. Corn mature 67%, 83% 1982. Corn harvested 12%, 43% 1982, 35% average. Condition fair to good. Cotton squaring 100%, 100% 1982. Cotton setting bolls 83%, 97% 1982, 99% average. Condition poor to fair. Sorghum headed 87%, 97% 1982. Sorghum turning color 57%, 81% 1982, 67% average. Sorghum ripe 10%, 50% 1982, 32% average. Sorghum harvested 1%, 15% 1982. Condition fair to good. Rice headed 70%, 83% 1982, 86% average. Rice ripe 27%, 45% 1982, 48% average. Rice harvested 17%, 26% 1982, 36% average. Condition fair to good. Soybeans blooming 64%, 86% 1982, 84% average. Soybeans setting pods 45%, 60% 1982, 61% average. Sweetpotato harvest 5%, 14% 1982, 13% average. Sugarcane condition good. Pecans rated good. Peaches harvested 98%, 98% 1982. Pastures rated fair to good. Livestock rated good.

MARYLAND AND DELAWARE: Temperatures averaged 2 to 4° above normal. Soil moisture short in both States. Days suitable for fieldwork: 6.5. Some precipitation toward the end of the week.

Maryland: Corn silked 90%, last year 95%; dough 60%, 55% 1982. Dent 15%, last year 20%. Soybeans in bloom 45%, 65% 1982; pods set 20%, last year 25%. Tobacco blooming 50%; topped 20%; harvested 5%, 25% last year. Lima beans 55% harvested. Sweet corn 75% harvested, same as 1982. Watermelons 55% harvested. Cantaloupes and cucumbers 70% harvested. Tomatoes 60% harvested, same as 1982. Peaches 30% harvest Third cutting of alfalfa 60% completed, 35% last year. Other hays 35% cut third time, last year 30%. Alfalfa 4th cutting 5%.

Delaware: Soybeans 50% blooming, 65% in 1982; podding 25%, last year 45%. Corn silked 90%, last year 100%; dough 45%, 80% last year; dent 10%, last year 30%. Lima beans 40% harvested. Snap beans 75% harvested. Sweet corn 60% picked, 85% 1982. Potatoes 85% harvested. Watermelons 45% harvested. Cantaloupes 65% harvested. Tomatoes 35% harvested, last year 85%. Cucumbers 70% harvested. Peaches 45% harvested. Alfalfa 3rd cutting 40% completed, last year 75%. Other hays 5%, 20% 1982.

MICHIGAN: Warm daytime highs accompanied by cool nights made it a delightful summer week. The cool nights caused the average temperatures to be slightly below normal. Enough precipitation fell to partially alleviate the moisture deficiency.

A general rain around midweek benefited crops and improved soil moisture supplies for most of the State. Statewide 5.0 days were suitable for fieldwork. Winter wheat harvest virtually complete with 98% harvested, 90% last year, 96% average. Corn 90% silking, 95% last year, 94% average. Corn 25% in dough, 50% last year,

35% average. Oats 45% harvested, 50% last year, 62% average. Soybeans 95% blooming, 97% last year, 92% average. Soybeans 55% setting pods, 65% last year, 57% average. Dry beans 55% setting pods, 65% last year, 69% average. Second cut hay 75% complete, 70% last year, 72% average. Tart cherry harvest virtually complete Statewide. Vegetable development was helped by the rain, while harvest of sweet corn, cucumbers, tomatoes and snap beans continued.

MINNESOTA: Temperatures averaged 1 to 3° above normal. High: 104°, low: 46°. Precipitation averaged near normal north central to almost 1.00 in. below normal elsewhere. Greatest weekly total 1.74 in.

Dry weather conditions over most of the State have allowed full-scale harvest of small grains but continue to hamper row crop development. Topsoil moisture in most of the lower two thirds of the State was short to very short. Topsoil moisture rated 45% very short, 38% short, 16% adequate and 1% surplus. Days suitable for fieldwork, 6.0. Daytime temperatures were near or exceeded 90° for the 6th straight week. Corn in milk 61%, 1982 60%, normal 67%. Corn in dough 22%, 1982 10%, normal 17%. Corn dent 2%, 1982 3%, normal 2%. Soybeans blooming 97%, 1982 97%, normal 98%. Soybeans setting pods 71%, 1982 66%, normal 74%. Cut or swathed and beyond: Spring wheat 85%, 1982 59%, normal 64%; oats 98%, 1982 87%, normal 85%; barley 98%, 1982 79%, normal 84%. Combined: Spring wheat 60%, 1982 34%, normal 35%; oats 83%, 1982 67%, normal 61%; barley 87%, 1982 56%, normal 62%.

MISSISSIPPI: Rainfall ranged from none to 1.96 in. for greatest 24-hour total. Temperatures 1 to 6° above normal. Extremes 56 and 98°

Soil moisture short to very short in north, adequate to short south. Fieldwork 5.6 days suitable, 3.8 last year, 5.5 average. Soybeans 68% blooming, 91% last year, 86% average; 23% podding, 53% last year, 49% average; crop in fair condition. Cotton 87% setting bolls, 98% last year, 96% average; condition fair. Rice 42% headed, 75% last year, 63% average; 1% turning, 17% last year; fair to good condition. Sorghum 87% headed, 6% ripe, 1% harvested, last year 90%, 12% and 2%. Corn 89% dented, 45% mature, 10% harvested; condition fair to good. Hay harvest 74%, 80% last year, 73% average. Peaches 83% harvested. Watermelons 60% harvested. Sorghum silage 28% harvested. Peanuts 1% harvested. Pastures in fair to good condition. Pecans good to fair condition.

MISSOURI: Generally hot weather continued. Temperatures were 3 to 6° above normal in the central and western sections of the State, and 1 to 3° above normal in the east. Scattered thundershowers produced 0.25 to 0.50 in. amounts over the State, except in the northwest prairie area where little to none was received.

Days suitable for fieldwork: 6.5. Corn 97% silking, 100% last year and 84% normal. Corn 60% in dough stage, 70% last year and 56% normal. Corn 28% dented, 38% last year and 39% normal. Grain sorghum 72% headed, 70% last year and 66% normal. Soybeans 83% blooming, 70% last year and 71% normal. Soybeans 53% setting pods, 41% last year and 42% normal. Alfalfa hay, 3rd cutting, 54% harvested, 50% last year and 47% normal. Cotton 81% setting bolls, 100% last year and 85% normal. Cotton condition 45% fair and 55% poor. Corn condition 1% good, 22% fair and 77% poor. Soybean condition 4% good, 46% fair and 50% poor. Grain sorghum condition 3% good, 45% fair and 52% poor. Pasture condition 1% good, 10% fair and 89% poor. Topsoil moisture supply 2% adequate and 98% short.

MONTANA: Continued hot. Temperatures averaged 4 to 11° above normal. Hottest in northeast and southeast. Showers mostly midweek all areas except northeast and southeast. Heaviest showers, 0.50 to 1.50 in., accompanied by damaging winds.

Soil moisture short. Fieldwork 6.4 days suitable. Percent crop progress this year, last year, average: Winter wheat harvested 60, 20, 35; ripe 30, 40, 45; turning 10, 40, 20; spring wheat harvested 25, 5, 5; ripe 35, 20, 25; turning 35, 50, 50; barley harvested 25, 5, 10, ripe 35, 20, 30; turning 35, 55, 45; oats harvested 30, 5, 15; ripe 35, 20, 25; turning 30, 50, 45; second cutting alfalfa 40, 25, 30; wild hay 75, 75, 77. Stock water and range feed supplies short to adequate. Irrigation supplies about adequate.

NEBRASKA: Temperatures 3 to 5° above normal. Isolated showers with 0.10 to 0.20 in. across north and central. Trace amounts southwest and south central.

Corn mostly good to fair; silking 98%, 85% last year, 98% average; dough 25%, 35%, 45% respectively. Sorghum mostly fair to poor; heading 70%, 40%, 75%. Soybeans mostly fair to good; setting pods 80%, 45%, 80%. Considerable insect activity on row crops. Third cutting of alfalfa 25%, 20%, 20%; condition good to fair. Pasture and range feed adequate to short. Topsoil moisture short. Subsoil moisture short to adequate. Days suitable for fieldwork 6.9.

NEVADA: Shower and thunderstorm activity widespread during week. Virtually all reporting sites received measurable rain. Mean temperatures above normal all areas except extreme south where they averaged slightly below normal. Although afternoon highs generally a little below normal, much greater than usual overnight cloudiness kept lows much higher than normal.

Scattered thundershowers caught considerable acreage second crop alfalfa hay in the swath. Rains also hampered small grain combining also. Cattle benefiting from excellent grazing.

NEW ENGLAND: Record breaking temperatures early in the week gave way to cool weather by week's end. Temperatures ranged from the 30's to 90's. Precipitation averaged 1.00 to 2.00 in. with heaviest rainfall in Vermont and Maine.

New England soil moisture supplies adequate to short. Days suitable for fieldwork averaged 6.0. Maine potato crop fair to good condition. Fall potato harvest underway in Rhode Island. Second cut hay, 65% cut. Third cut hay 10% cut. Shade tobacco 65% harvested. Broadleaf tobacco, 35% cut.

NEW JERSEY: Temperatures averaged 1° below normal. Extremes 46° on the 14th and 100° on the 9th. Weekly rainfall averaged 2.11 in. north, 1.86 in. central and 1.22 in. south. Heaviest 24-hour total 2.80 in. on the 11th. Estimated soil moisture, in percent of field capacity, averaged 70% north, 54% central and 31% south. Four inch soil temperatures averaged 70° north, 74° central and 76° south.

Fieldwork 6.4 days suitable. Summer vegetable harvest continues active. Irish potato digging increasing. Blueberry harvest nearing completion. Peach and summer apple harvest continues. Recent rainfall improved soil moisture conditions slightly. Corn and soybeans remain in poor condition. All crops would benefit from more rain.

NEW MEXICO: Thundershowers increased by midweek. All areas received rain. South central valleys and deserts had few heavy showers. Average temperatures little above normal. Minimum temperature 43°, central highlands. Maximum temperature 99°, southeastern Plains.

Cotton good condition still behind normal. Crop setting bolls: Current 76%, previous year 90%, average 92%. Alfalfa rated good. Second cutting complete, third cutting winding down south, fourth cutting about 40 to 50% complete. Irrigated grain sorghum good condition, 50% headed. Corn rated good, 90% tasseled. Chile picking beginning Mesilla Valley. Peanuts, potatoes rated good. Potato harvest continues. Cattle, sheep fair condition. Some heat stress. Ranges poor to fair, Plains and Desert, good condition, mountain areas, northwestern Plateau.

NEW YORK: Significant rainfall over whole State, much needed.

Wheat harvesting nearing completion, 85% 1982, 85% average. Oats for grain 28% harvested, 24% 1982, 31% average. Second cutting alfalfa 81% done, 66% 1982, 64% average. Third cutting alfalfa 9% cut, 5% 1982, 6% average. Early variety apple harvest underway. Western county peach harvesting 40% done. Peach, pear condition good. Pear harvest beginning in west. Harvesting of many vegetable crops in progress.

NORTH CAROLINA: Temperature: Near normal in mountains, 2 to 4° above in Piedmont and coastal regions. Precipitation: Varied due to scattered storms.

Soil moisture: Very short 52%, 41% short, 7% adequate. Days suitable for fieldwork: 6.3. Condition: Tobacco 13% poor, 72% fair, 15% good. Corn: Poor 58%, 38% fair, 4% good. Cotton: Poor 18%, 52% fair, 30% good. Peanuts: Poor 14%, 71% fair, 15% good. Soybeans: Poor 26%, 67% fair, 7% good. Irish potatoes: Poor 7%, 71% fair, 22% good. Apples: Poor 13%, 56% fair, 31% good. Peaches: Poor 44%, 38% fair, 18% good. Phenological stages: Cotton squared 98%, 1982 100%, 100% average. Cotton setting bolls 83%, 1982 89%, 89% average. Corn silked 100%, 1982 99%, 99% average. Corn soft-dough 85%, 1982 87%, 88% average. Corn dent 70%, 72% 1982, 72% average. Corn mature 34%, 1982 36%, 37% average. Soybeans blooming 60%, 54% 1982, 60% average; setting pods 27%, 1982 20%, 31% average. Harvests: Flue-tobacco 37%, 58% 1982, 50% average. Major farm activities: Tobacco harvest, scouting and spraying peanuts, irrigating crops, spraying for insect control on soybeans, hay harvest, pasture clipping and truck crop harvesting.

NORTH DAKOTA: Hot and dry weather continued. Some relief midweek when highs dropped to more seasonable 80's and low 90's. Temperatures averaged 2 to 6° above normal. Extremes from 108° to 42°, both west central. Rainfall again light. All areas received below normal amounts. Northeast, central and east central received from 0.25 to 0.60 in., elsewhere less than 0.10 in. Precipitation for growing season is from 3.00 to 5.00 in. below normal except east central and central where departures are 1.00 to 3.00 in.

Small grain harvest made excellent progress but dry weather further depleted soil moisture. Hard red spring wheat harvest progress about 10 days ahead of average range from 83% combined southeast to 12% north central. Average of 6.9 days suitable. Percent combined compared to last year and average: Hard red spring wheat 46, 19, 23; durum 28, 8, 12; barley 75, 43, 43; oats 58, 32, 33; rye 97, 87, 78; winter wheat 95, 69, 74. Row crops in mostly fair to good condition, showing effects of heat and moisture stress. Development ahead of normal for most. Sunflower 10% ray flowers dried, last year 3%, average 6%; flax 9% swathed or combined, last year 6%, average 4%; corn grain 11% denting, last year 4%, average 4%; soybeans

72% fully podded, last year 39%, average 65%. Soil moisture supplies well below normal, only 2% adequate topsoil moisture, last year 38%, average 41%.

OHIO: Temperatures fell middle and end of week; averages normal to 2° below. Highs upper 70's to mid 80's; 90's Statewide early week. Low 50's to 60's, some upper 40's. Precipitation less than 0.25 to over 1.00 in.

Crops under stress from dry, especially southwest. Corn, soybeans, hay fair to good. Silage harvest started. Few reports of insect damage to soybeans. Wheat harvested 100%, 100% 1982, average 100%. Corn silked 96%, 100% 1982, 96% average; dough 40%, 75% 1982, 45% average. Soybeans blooming 93%, 98% 1982, average 93%; setting pods 55%, 90% 1982, 70% average. Alfalfa 2nd cut 95%, 99% 1982, 90% average. Other hay 2nd cut 80%, 80% 1982, 70% average. Days favorable: 6.0. Pasture condition fair. Soil moisture 66% short, 34% adequate.

OKLAHOMA: Temperatures averaged from normal south central to 5° above normal northeast. Weekly rainfall amounts ranged from none north central to 0.70 in. southeast.

Hot, dry weather continued to stress row crops and reduce pasture forage supplies. Moisture needed everywhere, but particularly in areas where row crops entering critical development. Some farmers in west now applying fertilizer to wheat ground. Pastures and ranges continued deterioration due to intense heat and lack of moisture. Wheat harvested: 100%, 100% 1982, 100% average. Sorghum headed: 60%, 50% 1982, 65% average. Cotton setting bolls: 45%, 25% 1982, 65% average.

OREGON: Temperatures averaged 4° warmer than normal Statewide, except eastern portions which recorded temperatures 7° warmer than normal. Isolated light showers were received in eastern parts of the State amounting to 0.10 in.; the remainder of the State was dry. Winter wheat 67% harvested, 84% last year; 81% average. Harvest is nearing completion in some western counties; yields have been good but some producers are reporting low quality. Yields have been well above average in eastern portions, where harvest is moving to the higher elevations. Spring grains are beginning to turn color in the later areas. Cutting of alfalfa and other hay is underway throughout the State. Grass seed harvest is nearing completion in all growing areas. Bluegrass yields are running below average in Union County. Mint harvest is underway in Jefferson and Malheur Counties. Bartlett pear harvest is getting underway in the Hood River and Medford areas. Mid-season peach harvest is continuing in the Willamette Valley and Hood River, good yields and quality have been reported. Picking of early variety apples continues. Harvest of blueberries and blackberries is still underway. Cranberry growers in Coos County are applying fungicides for twig blight control. Brown stain is becoming more apparent in many filbert orchards. Harvesting of broccoli and processing snap beans continues. Harvest of some early sweet corn is underway. Norgold potato harvest in Malheur County and the Hermiston-Boardman area is in full swing. Russets are beginning to be dug in the Hermiston area. Livestock, range and pasture condition good to excellent. Some cattle are beginning to move on to wheat stubble fields.

PENNSYLVANIA: Early part of week, warm and humid. Latter part cool with scattered thunderstorms. Amounts of rainfall varied from less than 0.25 to nearly 2.00 in. Average temperature of 70° equaled the normal. Extremes 98 and 36°.

Days suitable: 5.0. Moisture, short to adequate. Activities: Hay making, fall plowing topping tobacco, harvesting; wheat, oats, potatoes, tomatoes, apples, peaches, and corn for silage. Wheat harvest virtually complete, a week behind last year. Oats 74% harvested, 81% a year ago. Potatoes 20% harvested, last year 20% harvested. Corn 80% silked with 17% in dough, last year, 92% silked with 45% in dough; average 88% silked with 40% in dough stage. Second crop alfalfa 87% complete, last year 85% completed. Third crop alfalfa 28% complete, last year 27% completed. Second cutting clo-tim 58% complete, 85% complete a year ago. Fall plowing 6% complete, last year 14% completed. Quality of hay made good to fair. Feed from pastures below average to average.

PUERTO RICO: Island average rainfall 0.62 in. or 1.00 in. below normal. Highest weekly total 2.04 in. Highest 24-hour total 1.60 in. Temperature averaged about 83 to 82° on coasts and 76 to 75° Interior Divisions. Mean station temperature ranged from 84.4 to 68.7°. Extremes 96 and 58°.

SOUTH CAROLINA: Widely scattered thunderstorms, heaviest along coast. Temperatures above normal.

Soil moisture short, 5.9 days for fieldwork. Corn harvest for grain 5%, 15% last year, 14% average; some cut for silage; condition fair. Cotton 100% setting bolls, 100% last year, 97% average; 1% open bolls, 6% last year, 5% average; condition fair. Soybeans 56% blooming, 73% last year and average; 20% setting pods, 35% last year and average; condition fair to good. Tobacco hornworms sprayed; 43% harvested, 85% last year, 76% average. Peaches 88% harvested, 98% last year, 91% average. Apples 5% harvested, 6% last year, 8% average; condition fair. Grapes 13% harvested, 8% last year, 21% average; condition fair to good. Pastures poor to fair condition.

SOUTH DAKOTA: Average temperatures 3 to 11° above normal. Extremes 106° and 45°. Only widely scattered showers reported, amounts between 0.50 and 0.75 in.

Most of State very dry. Topsoil moisture supplies critically short throughout west central and northeastern districts, mostly short elsewhere. Winter grain harvest virtually complete, spring small grain harvest winding down. Row crops in need of moisture. Increasing grasshopper numbers troublesome to western district farmers. Field activities included fall tillage and haying. Days suitable for fieldwork 6.3. Winter wheat harvested 98%, 1982 97%, average 98%. Spring wheat harvested 87%, 1982 80%, average 83%. Sorghum headed 51%, 1982 52%, average 64%. Corn silked 88%, 1982 74%, average 93%. Corn dough 22%, 1982 11%, average 26%.

TENNESSEE: Temperatures averaged 5° above normal at beginning of week, but near normal in west and middle and below normal in east after cold front passed through on 11th. A cold front moved across the State 11th setting off the only major precipitation and averaged between 0.50 and 1.50 in. Statewide.

Days suitable for fieldwork: 5.8. Soil moisture 63% critically short, 26% short, 9% adequate, 2% surplus. Corn silked 100%, 1982 100%, average 97%; dough 78%, 1982 91%, average 83%; dented 26%, 1982 50%, average 42%; mature 2%, 1982 19%, average 6%. Cotton setting bolls 92%, 1982 100%, average 89%; open bolls 4%,

1982 2%, average 2%. Soybeans blooming 78%, 1982 87%, average 81%; setting pods 22%, 1982 37%, average 40%. Tobacco 71% poor, 28% fair, 1% good. Tobacco topped 25%. Pastures 82% poor, 16% fair, 2% good.

TEXAS: Rainfall varied considerably, upper coast reported more than 2.00 in. Slightly warmer temperatures prevailed across Plains, North Central Texas, rest of State averaged 1 to 2° below normal.

Crops: Scattered rains during week had little effect on dry conditions. State experiencing drought-like conditions, only portions of Coast having adequate moisture. Growth of cotton, sorghum, corn affected by lack of moisture and production on some dryland fields will be affected. Cotton continues to develop at rapid pace. However, dryland fields beginning to show signs of stress from prolonged dryness. Irrigated fields in good conditions, making excellent growth with fruit forming as far north as Plains. Insect damage remains light. Harvest gaining momentum Rio Grande Valley. Sorghum harvest continued, showers caused some interruptions midweek. Yields along Coast, South Texas good but dry conditions may affect fields not yet harvested. Additional moisture needed to complete full development. Because of extreme dryness West Texas, development slow, some fields being cut for hay. By week's end the overall condition was 74% of normal compared with 84% a year ago. About 13% excellent; 37% good; 41% fair; 9% poor. Corn harvest picked up pace. Yields continue to be good. Central, North Texas, fields quickly maturing, harvest underway Plains. Corn borers building, causing some damage. Peanuts making good growth. Most stands good condition, expected to produce good crops. Rice harvest gaining momentum, expected to be in full swing soon. Fields good, some lodging occurred. Soybeans continue to make good growth. Early planted fields maturing rapidly. Insect damage minimal.

Cotton squaring 5%, 13% 1982, 14% average; setting bolls 72%, 62% 1982, 82% average; open bolls 3%, 13% 1982, 14% average; harvested 1%, 1% 1982, 1% average. Rice headed 100%, 100% 1982, 100% average; turning color 91%, 93% 1982, 93% average; harvested 34%, 74% 1982, 79% average. Sorghum headed 78%, 83% 1982, 83% average; turning color 67%, 67% 1982, 67% average; mature 57%, 60% 1982, 62% average; harvested for grain 52%, 55% 1982, 57% average. Corn harvested for grain 20%, 34% 1982, 26% average.

Commercial vegetables: Rio Grande Valley, harvest of melons, vegetables virtually complete. Land preparation underway. Citrus groves in good condition under steady irrigation. Outlook for citrus excellent. East Texas, tomatoes, peppers, cantaloups, watermelons still being shipped. Sweetpotatoes making good growth. Trans-pecos region, harvest of cantaloups continues. A few carrots being harvested, volumes light. Irrigation heavy under extremely dry conditions. Plains, onion, potato harvest continued, good yields being reported. Peach harvest continues to wind down. Activity centered in North Texas, Pecan development continues, accelerated by warm conditions. Moisture supplies becoming short, more will be needed to insure proper filling.

Range and livestock: Hot, dry weather continued. Plains, West Texas drought-like conditions exist, pastures providing little or no grazing. Central, South Texas, conditions becoming critical. Coast, conditions better, showers falling during week. Supplemental feeding necessary in drier locations. Livestock remain in good condition.

UTAH: Recurring periods of shower and thunderstorm activity most areas of State. Accumulated amounts moisture generally light to moderate, but locally very heavy with considerable damage from local flash flooding. Average temperatures generally much above normal, ranging from 1° below to 13° above.

Scattered showers damaged hay in windrows and delayed cutting of standing hay. Light yields and weather damage causing concerns about winter feed supplies. Small grains made good progress. Winter wheat 92% ripe, 53% harvested, above average yield expected. Barley 72% ripe, 49% harvested. Field corn benefiting from warm, moist weather, just over 75% tasseled. Yield expected to be below average because of late start and uneven stands. Cattle, sheep and range feed in good to excellent condition.

VIRGINIA: A frontal system on 11th provided relief from hot weather of past month and a half. Temperatures 9th and 11th around 100° in a few locations but by 13th highs in same spots struggled to reach mid 70's. Overall temperatures averaged several degrees above the norm. Much needed rains fell 9th and 11th from thunderstorms. Amounts mostly 0.50 in. or less except Western and Southwestern parts of the State received 1.00 to 2.00 in.

Widely scattered showers did little to relieve dry conditions Statewide. Topsoil moisture scarce: 93% short, 7% adequate. Days suitable for fieldwork: 5.9. Corn condition rated poor but highly variable with most areas suffering from lack of rainfall. Early corn generally in the best condition with 90% silking, 91% last year, 94% average; 65% dough, 68% 1982, 74% average; dent 30%, 44% average. Some early corn may be harvested next week. Soybeans helped by recent rainfall but were rated in poor condition. Bloom now occurring in 60% of the crop, 68% 1982; pod set 25%, 35% 1982. Rain needed to improve pod set. Flue-cured tobacco markets open 15th and growers preparing crop for market. Topping active. Tobacco still in the field in fair condition. Harvest of flue-cured tobacco 29% complete, 31% 1982, 22% average. Fire-cured tobacco 5% cut, 34% 1982, 14% average. Peanuts good condition. Pastures and hay very poor. Supplemental feeding continues.

WAHINGTON: High pressure over southwest Canada and low pressure along coast and Cascades caused hot, dry conditions through 9th. Moist, unstable air began moving into State from south on 10th. Thunderstorm activity that night and on 11th produced considerable but localized rainfall over north and east parts of State. Flash floods occurred in vicinity of Lake Chelan. Weather observer at Omak reported over 2.50 in. rain late 10th night through early 11th with over 1.30 in. falling during one thunderstorm in twenty minute period.

Harvesting grain crops well underway and nearing completion some areas. Yields average to above average. Planting winter wheat began early areas. Norgold potato harvesting continues. Third cutting alfalfa hay underway. Alfalfa seed harvesting in a week and expected slightly below average. Blueberry harvest continues. Raspberry harvest nearly completed. New strawberry planting progressing well with good growth. Eastside, Bartlett pear harvest continues with good quality and size reported. Harvest of early peach varieties in full swing. Apricot harvesting completed. Harvest of cucumbers, beans, carrots, broccoli, and sweet corn in full swing. Cauliflower harvest winding down. Leafy vegetable harvest continues. Truck gardeners

moving vegetables to market. Good sales reported Thurston County. Vegetable seed harvest underway. Livestock in good condition. Feeder lambs being sold and moved to feedlots. Ranges and pastures continue excellent condition. Winter wheat harvested: 70%, 1982 70%, 66% average.

WEST VIRGINIA: Temperatures averaged near normal except in the southwest and eastern parts of the State, where they were above normal. Low 42°, high 100°. Precipitation above normal in the southwest, central and southern areas, below normal elsewhere. Range: trace to 4.35 in.

Soil moisture short to very short. Days worked averaged 5.0. Main activities: Hay harvesting, pasture clipping, maintenance and gardening. Wheat in good to fair condition, 3% ripe, 97% harvested; 4% and 96% in 1982. Barley in good to fair condition, 4% ripe and 96% harvested; 1% and 99% in 1982. Oats fair to good condition, 9% headed, 9% ripe, 82% harvested; 6%, 16% and 78% in 1982. Corn in fair to good condition. Tobacco in fair condition. Pasture and hay in fair to good condition. First cutting; 99% completed, 89% of normal; 97% and 80% in 1982. Second cutting; 64% completed, 69% of normal; 45% and 79% in 1982. Fruit in fair condition. Peaches, 49% harvested, 83% of normal, 56% and 43% in 1982. Gardens in fair condition. Thundershowers late in week provided short term relief to some areas. Crops, pasture and water supplies still stressed.

WISCONSIN: Temperatures averaged normal. High readings of 98° on 8th at Mt. Mary in Milwaukee. The lowest at 40° at Lake Thompson on 12th. Rainfall averaged 1.00 in. across the northern counties and about 0.25 in. in the south. High winds and golfball size hail in southern portions.

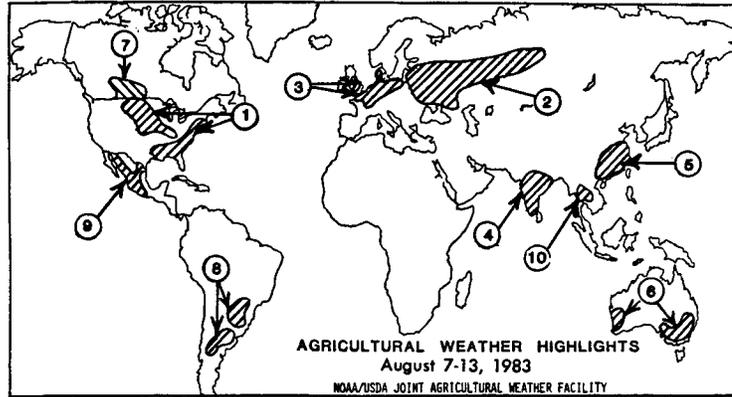
Crop condition for corn varies considerably; percent of crop silked 88, last year 84 and average 86; percent in dough stage 31 compared to 29 last year and average of 30. Second cutting of hay 73% slightly behind last year's 75 but ahead of average of 67%. Oats 66% harvested, 10 points ahead of last year; yield variable. Days suitable for fieldwork 6.0. Soil moisture 58% short, 40% adequate, and 2% surplus.

WYOMING: Dominating high pressure system caused temperatures to be above normal, average 7 to 8°. Precipitation figures below normal an average of 0.03 in.

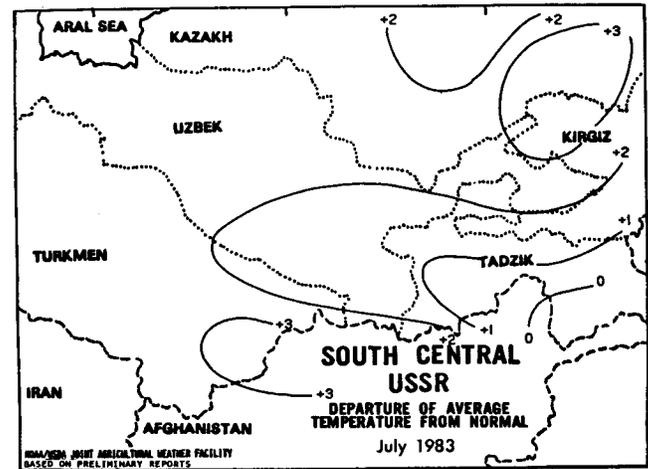
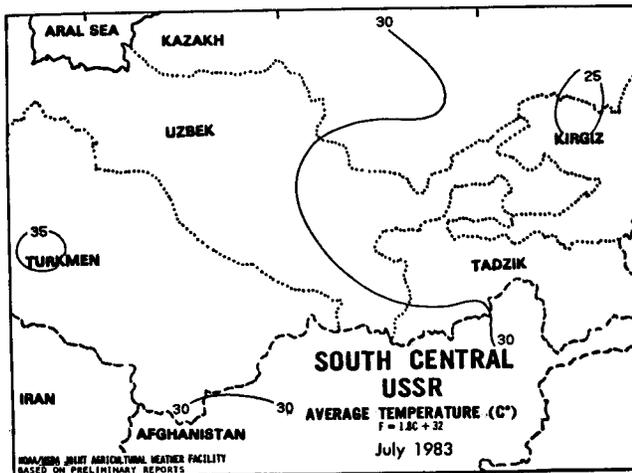
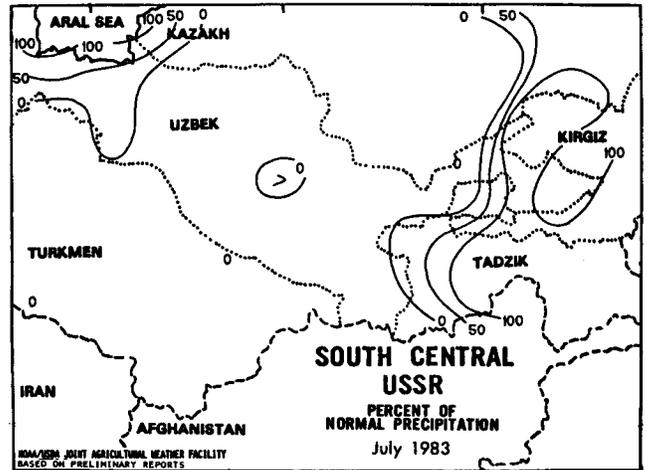
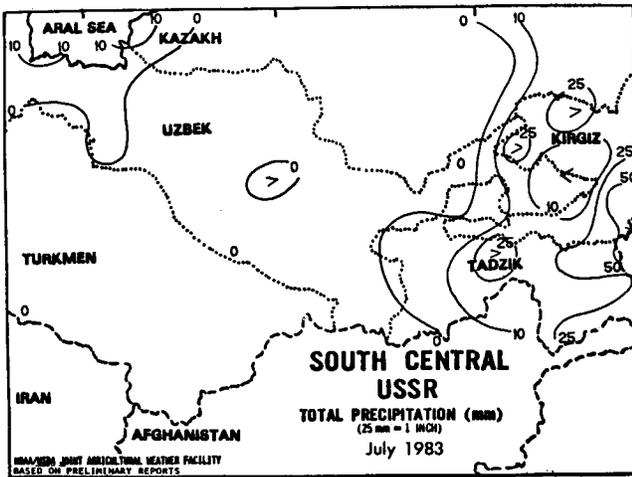
Topsoil moisture adequate 60% State. Subsoil moisture short 66% State. Six days suitable for fieldwork. Harvesting small grains more active. Winter wheat 95% mature, 80% harvested, normally 83% harvested. Barley 30% mature, 45% harvested, normally 42% harvested. Spring wheat 34% mature, 20% harvested, normally 36% harvested. Oats 30% turning color, 35% mature, 10% harvested, normally 28% harvested. Corn 90% tasseled, 60% silked. Dry beans 100% bloom, 80% setting pods. Potatoes 95% in bloom. Alfalfa second cutting 35% complete. Other hay harvest 70% complete. Row crops fair to mostly good condition. Ranges, pastures mostly good condition. Fall grazing prospects mostly good.

International Weather and Crop Summary

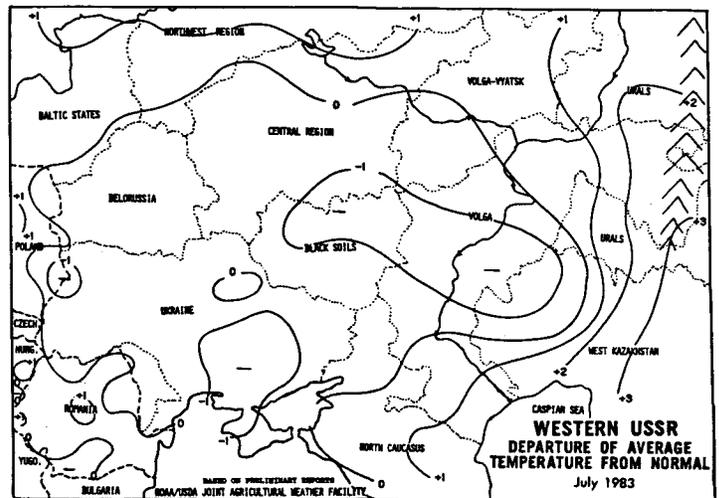
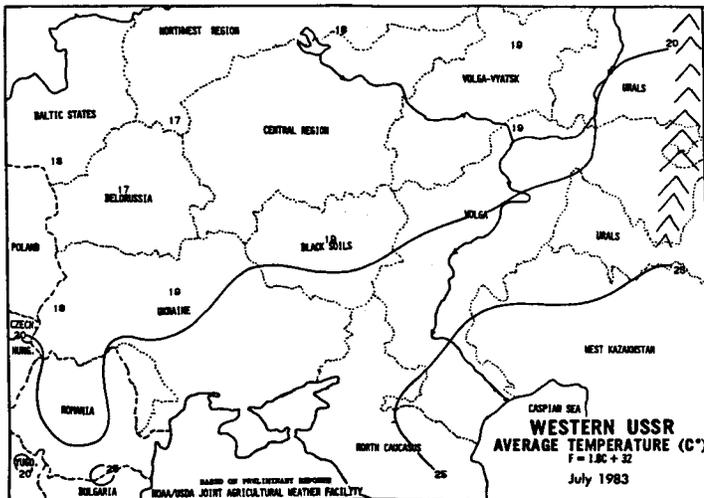
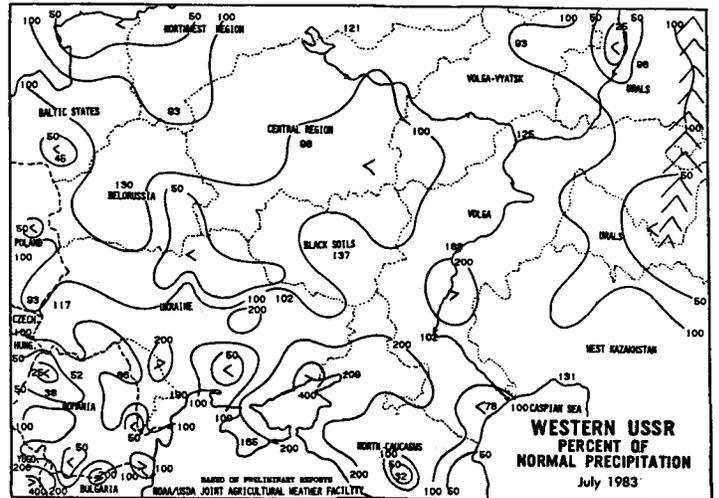
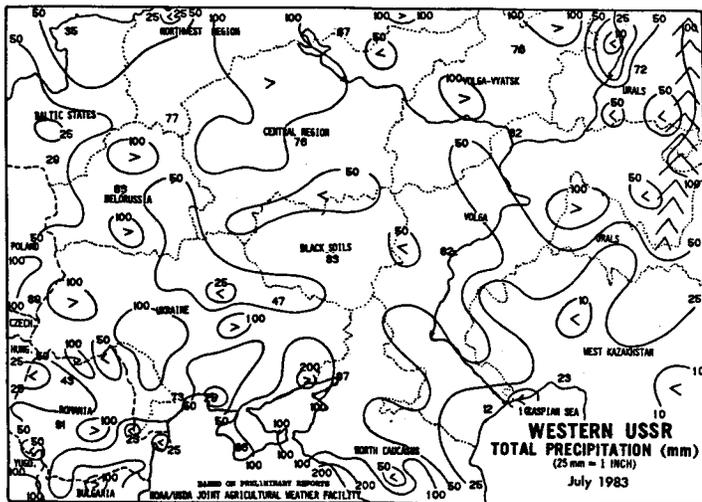
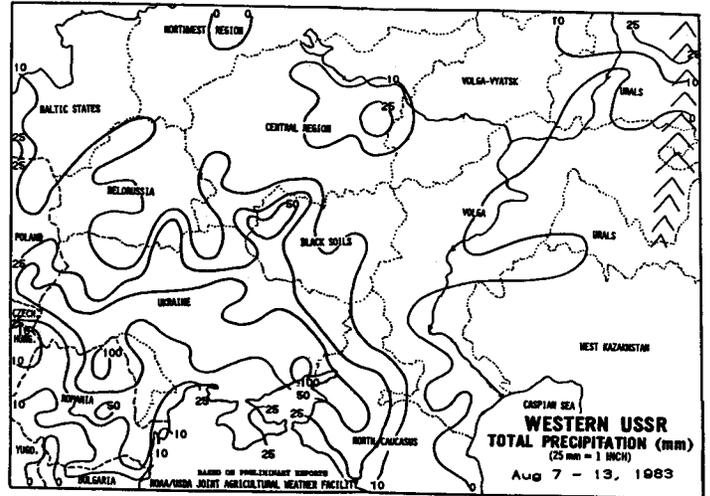
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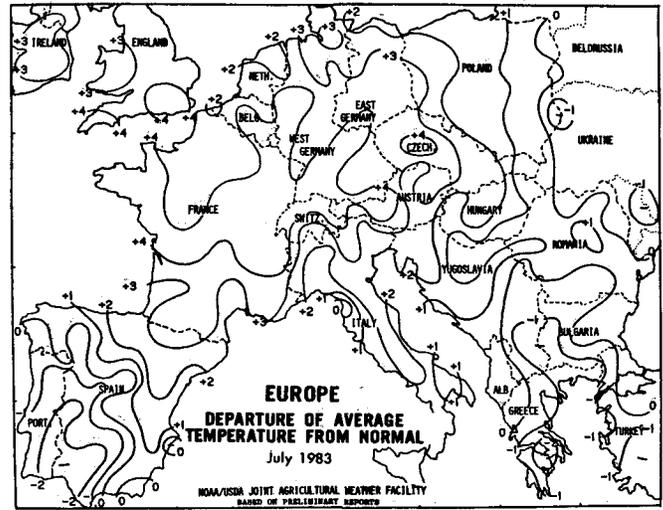
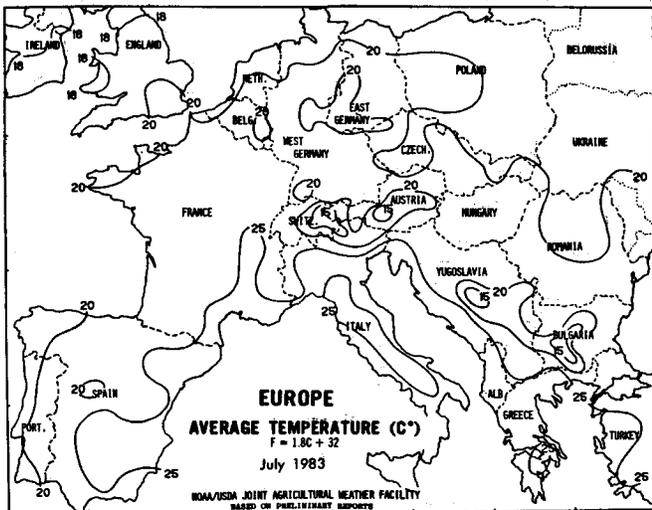
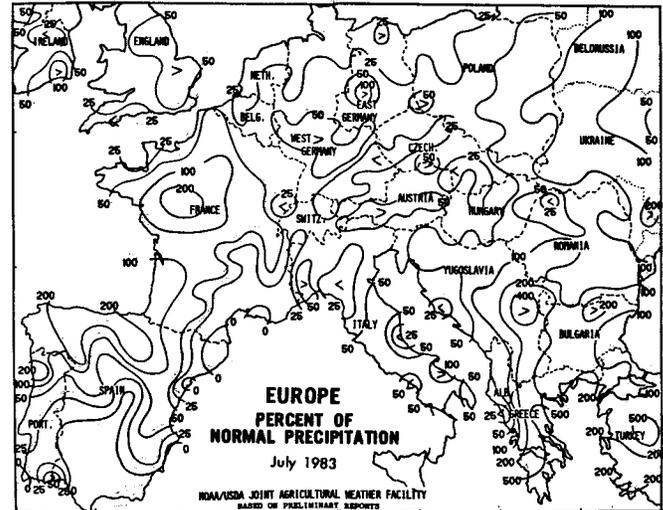
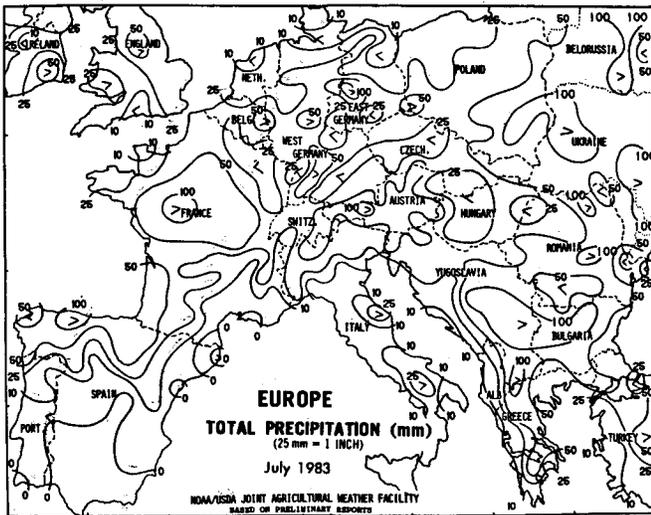
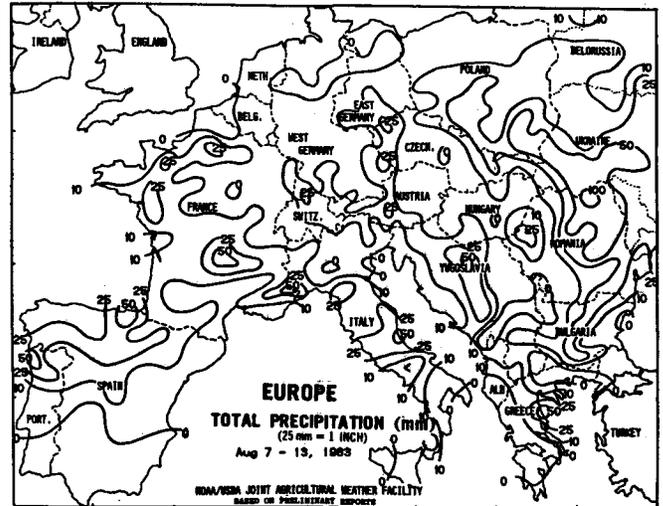
1. UNITED STATES ... Warm, dry weather continues to stress crops from the northern and central Plains to the western and southern Cron Belt, while allowing rapid harvest of small grains. Showers across the South and in the east coast States are benefiting most crops, but dry conditions persist in many areas.
2. USSR ... Relatively dry weather across the northern half of European USSR and much of the New Lands benefits maturing grains and aids harvest activity. Wet weather over the Ukraine and western North Caucasus is likely creating harvest delays.
3. EUROPE .. Generally dry weather covers maturing grains and aids harvest activity in the north.
4. SOUTH ASIA ... Heavy monsoon rain along India's west coast is likely causing flooding in rice areas. Moderate rains benefit crops across central India. Dry weather continues to stress southeastern rice areas.
5. EASTERN ASIA ... Scattered showers throughout central China are benefiting summer crops. More rain would be favorable for the late rice crop in the south.
6. AUSTRALIA ... Mostly dry weather covers the wheat belt; conditions are presently favorable for early wheat growth.
7. CANADA ... Cooler weather and scattered showers help reduce crop stress in the Prairie grain belt; crops range from filling/podding stages to ripening.
8. SOUTH AMERICA ... Beneficial showers cover portions of Argentina's wheat area but all areas need substantial rains for wheat growth. Heavy rains are falling over the southern Rio Grande do Sul but drier weather prevails elsewhere in Brazil.
9. MEXICO ... Continued rain over the southern Plateau is benefiting corn, while dryness is stressing crops and livestock in the northeastern and northwestern areas. Rains in the north-central mountain areas are helping fill reservoirs.
10. SOUTHEAST ASIA ... Moderate to heavy rain is favorable for most rice areas of Thailand. The central corn area is relatively drier, but still benefiting from the moisture.



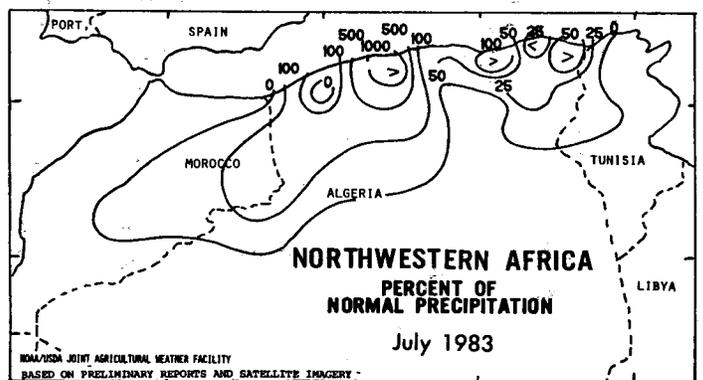
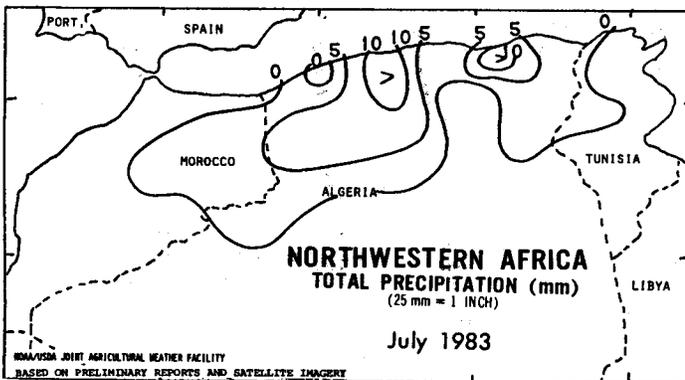
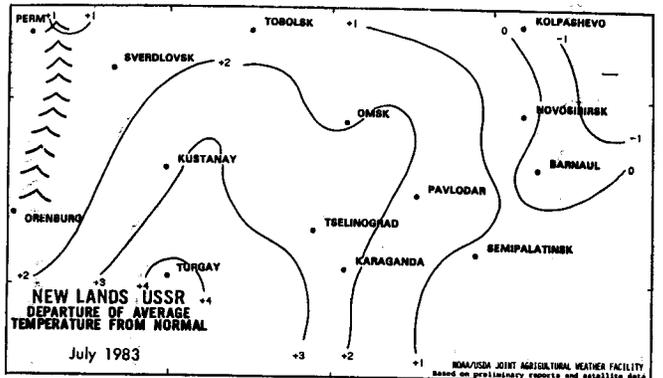
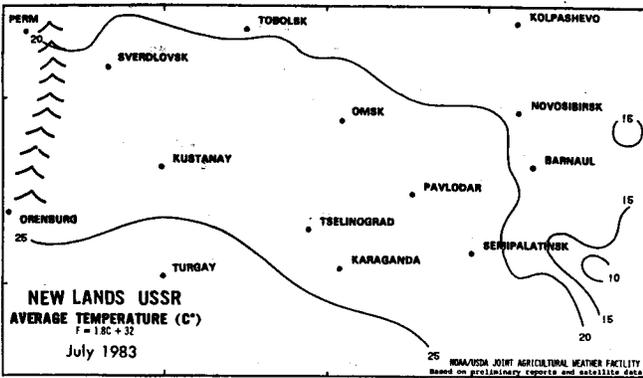
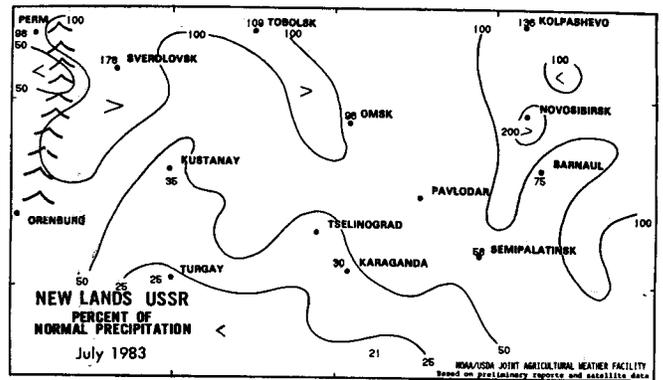
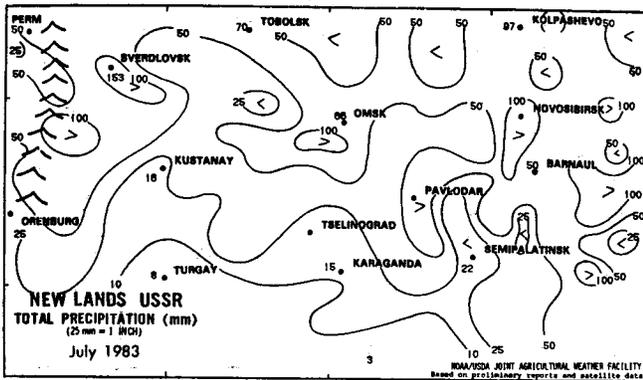
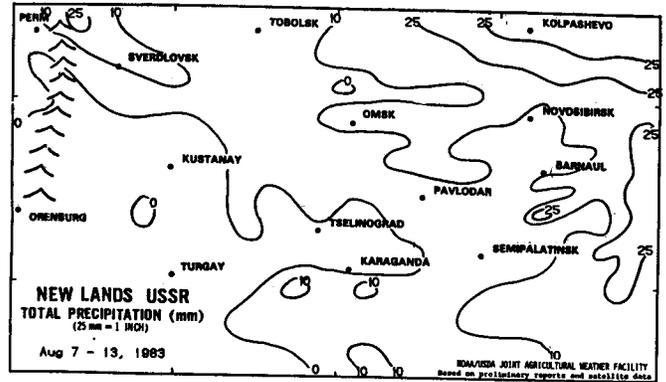
WESTERN USSR... A low-pressure system developed early in the week over the Black Sea, producing widespread showers over crops in much of the Ukraine and the western North Caucasus. Rainfall amounts generally ranged from 25mm to 50mm, but central locations in the Ukraine received amounts as high as 90mm, delaying harvest activity. In July, above-normal precipitation also fell on these areas but most of the rain occurred at the end of the month. The rain in late July was probably too late to prevent some corn yield losses. Relatively dry, hot weather earlier in the month occurred when a portion of the corn crop was in the critical silking stage. Elsewhere, growing conditions for spring grains were favorable in the west and north during July. Relatively dry weather in these areas during the past week aided grain maturation and harvest activity.

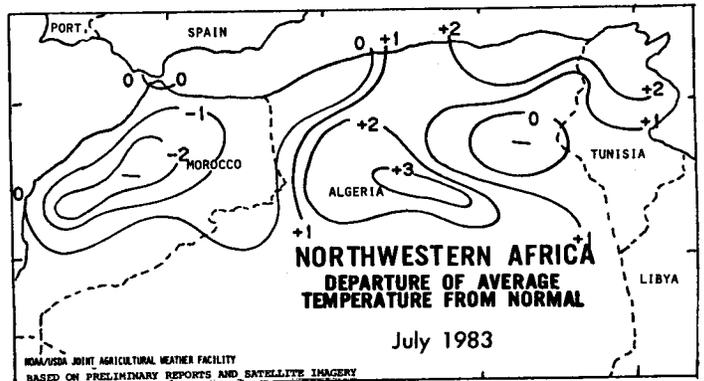
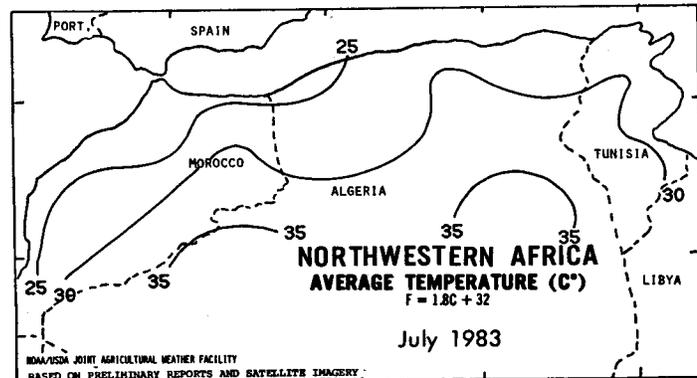
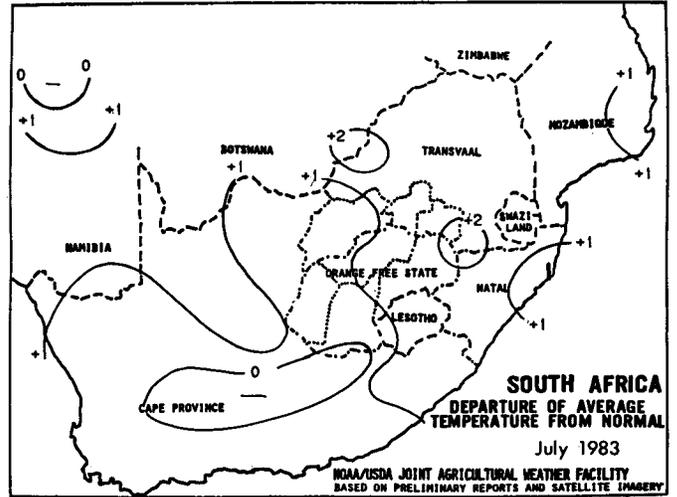
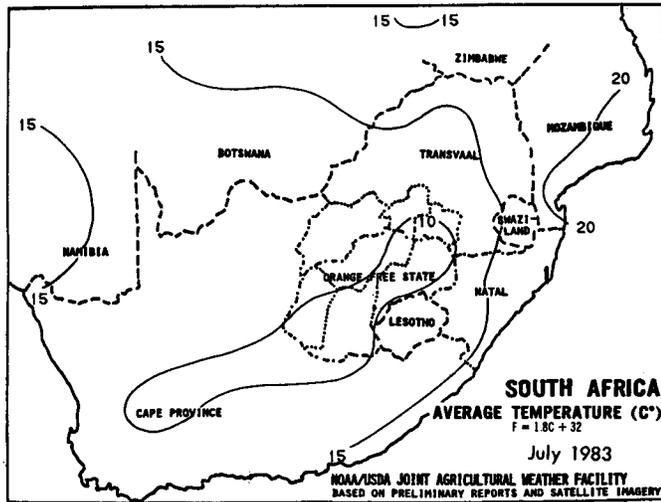
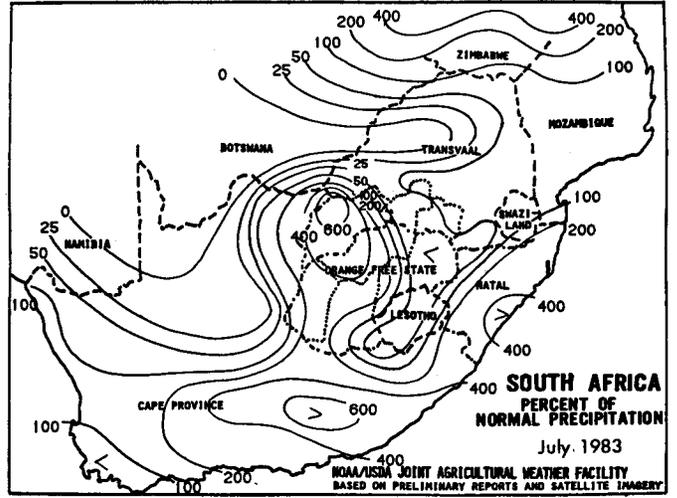
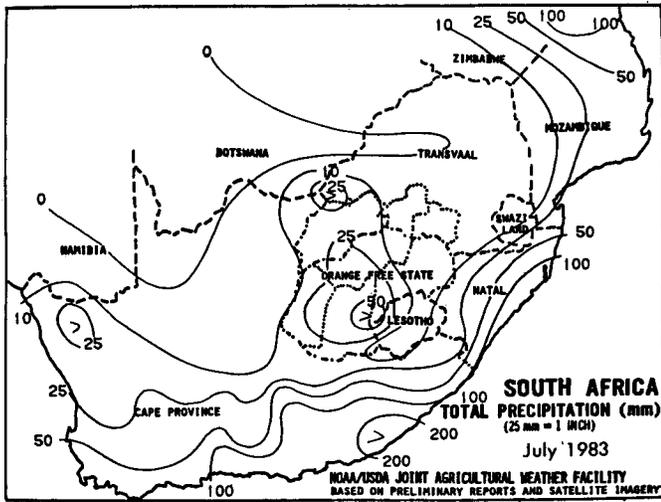


EUROPE...Generally dry weather spread eastward from England through most of northern Europe, continuing July's below-normal precipitation pattern in these areas. July's dry weather stressed spring planted crops across most of northern Europe, reducing yield prospects. However, the dry weather during the past week aided crop maturity and harvest activity. In the southeast, wet weather continued July's generally favorable pattern over crop areas in eastern Romania and much of Bulgaria. However, unfavorable dryness in Hungary, western Romania, and northeastern Yugoslavia during July adversely affected spring planted crops. In addition, below-normal precipitation covered most of these areas during the past week. Across the south, generally dry weather in Greece reversed July's wet pattern. Unfavorably dry weather continued over northern Italy, but northern Spain received widespread rains, improving moisture conditions.

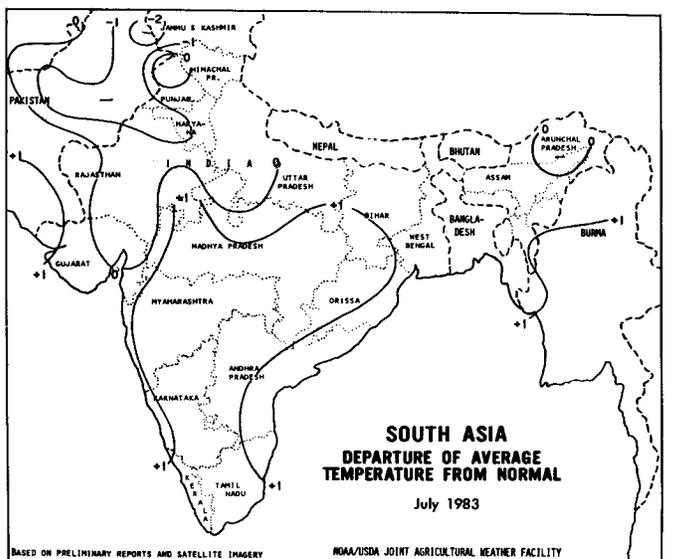
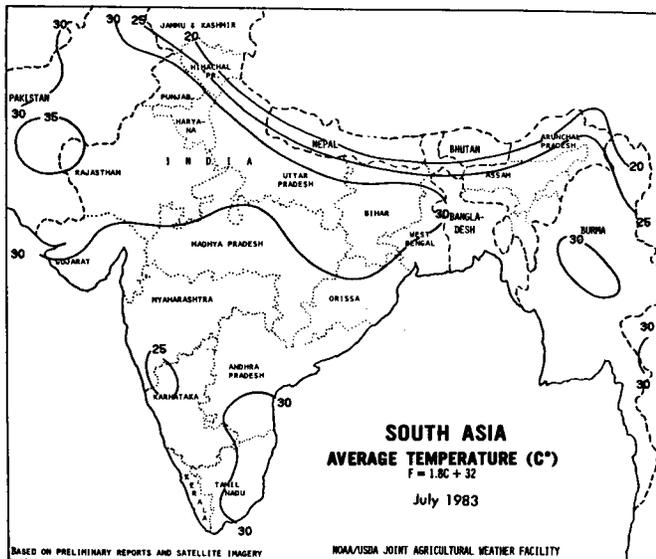
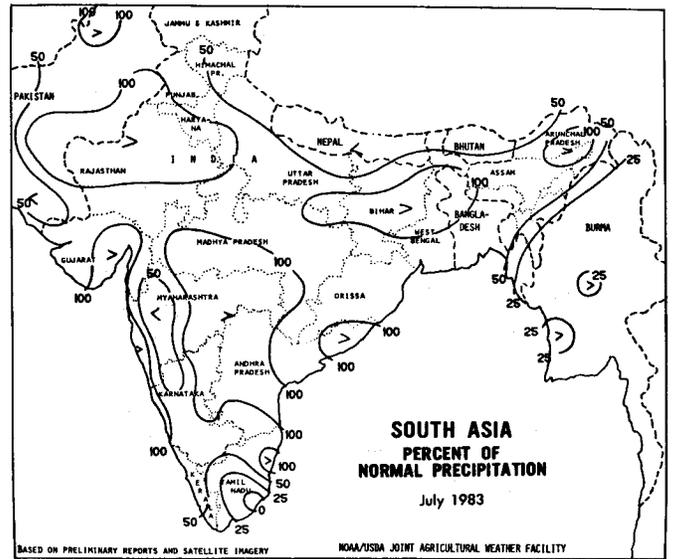
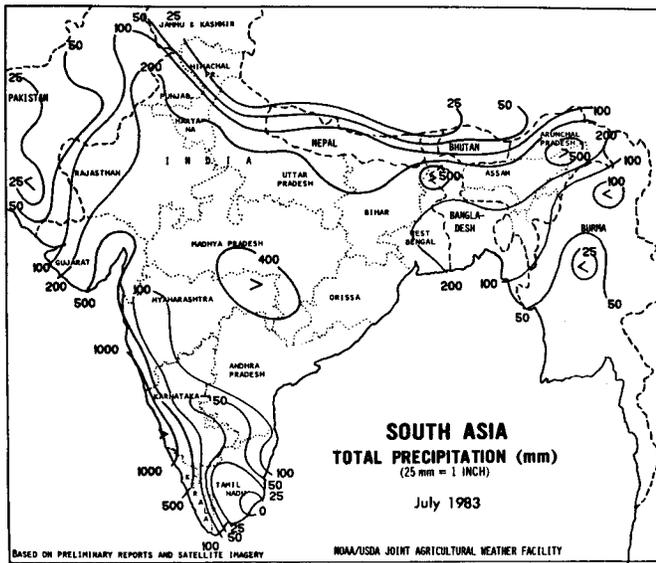
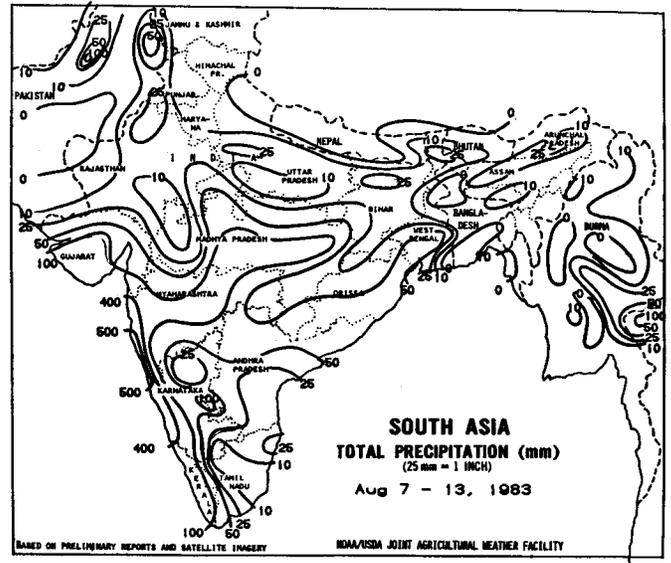


NEW LANDS... A ridge of high pressure kept most spring grain areas relatively dry during the week, benefiting maturing grains and aiding early harvest activity in the south. In July, a combination of high daytime temperatures and limited precipitation in central and southern crop areas possibly caused some damage to spring wheat. However, favorable growing conditions over portions of western Kazakhstan and the Urals maintained good yield prospects. By late July, widespread showers and reasonable temperatures covered most of the region. In the south-central USSR cotton areas, seasonably dry weather covered most crop areas during July, and as usual, most of the crop had to be irrigated. Temperatures during July were unseasonably hot, increasing evaporation rates, which may have stressed cotton in the flowering stage. Recently, dry weather continued over the region but temperatures returned to more reasonable levels.

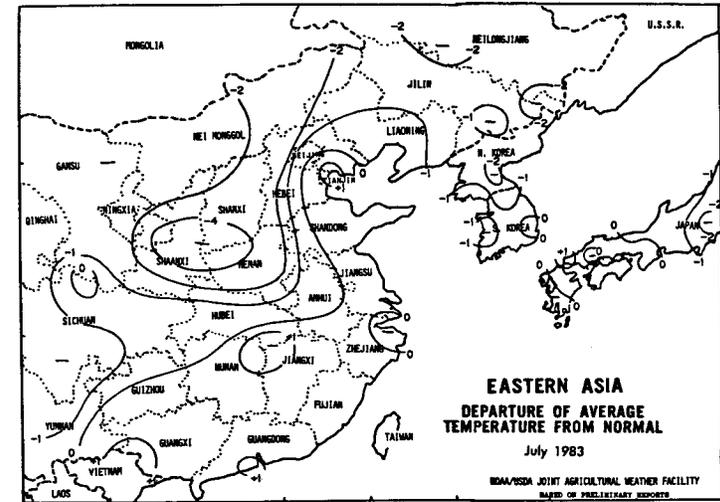
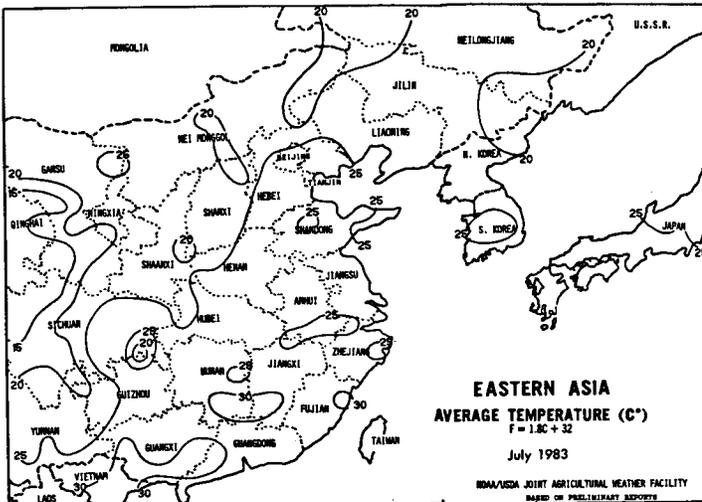
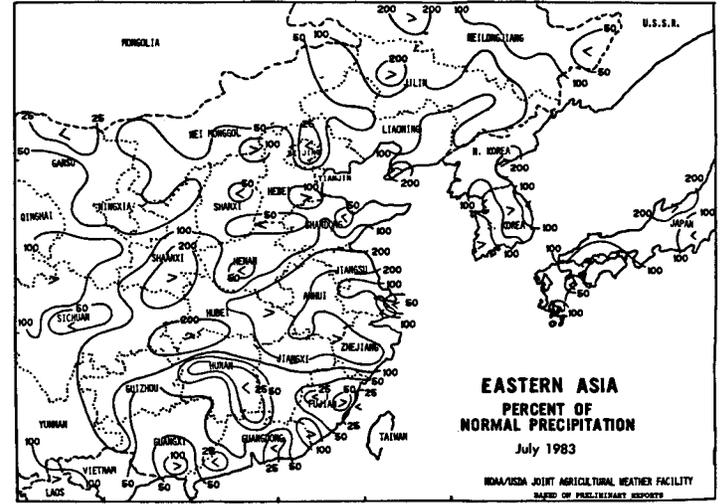
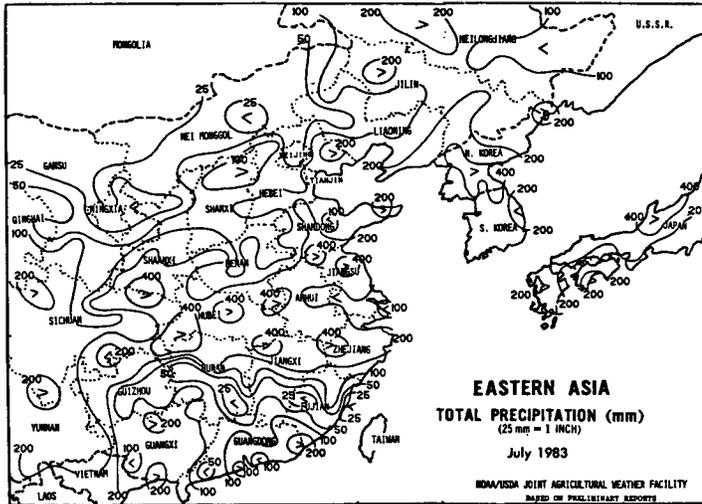
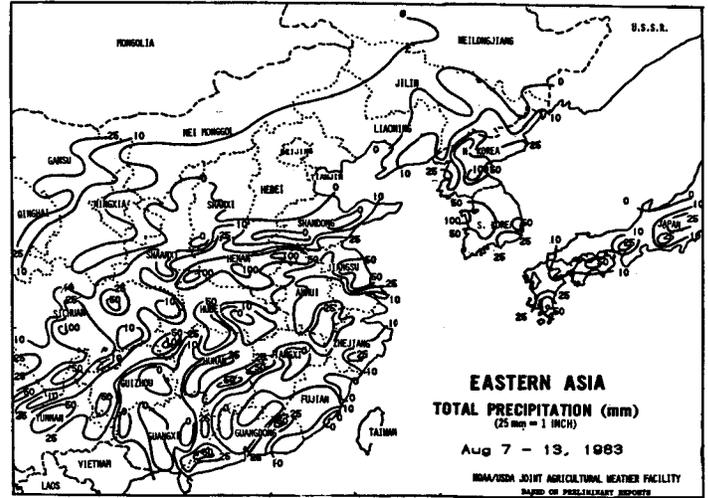




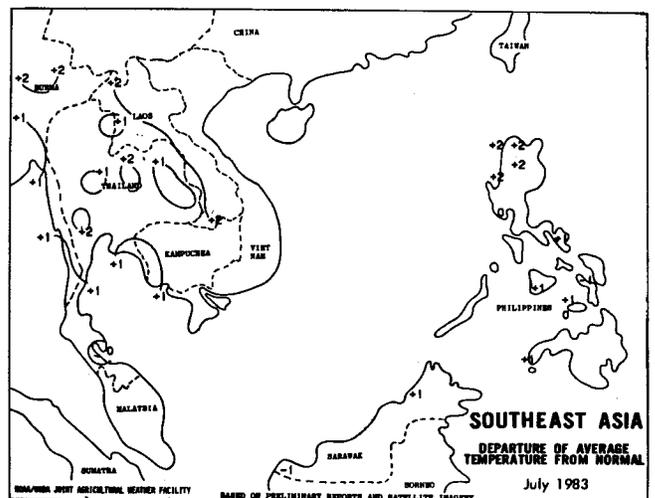
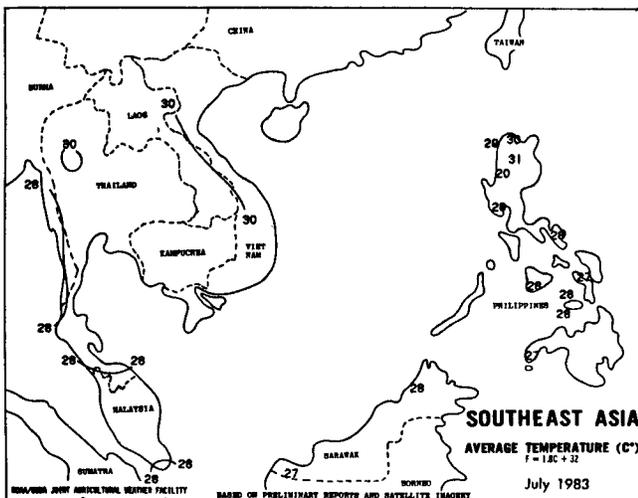
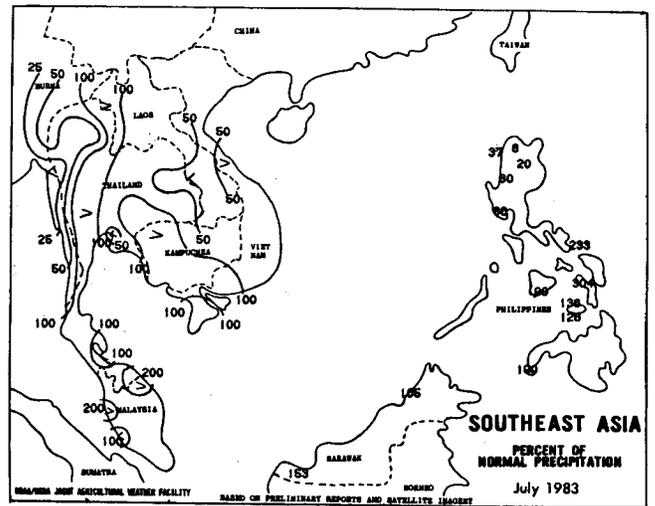
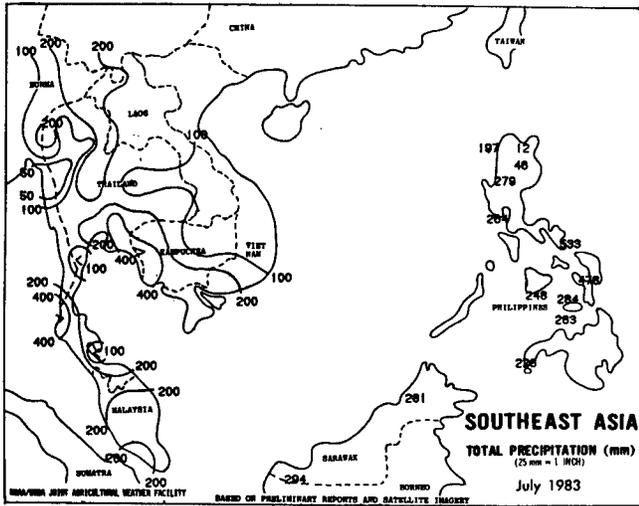
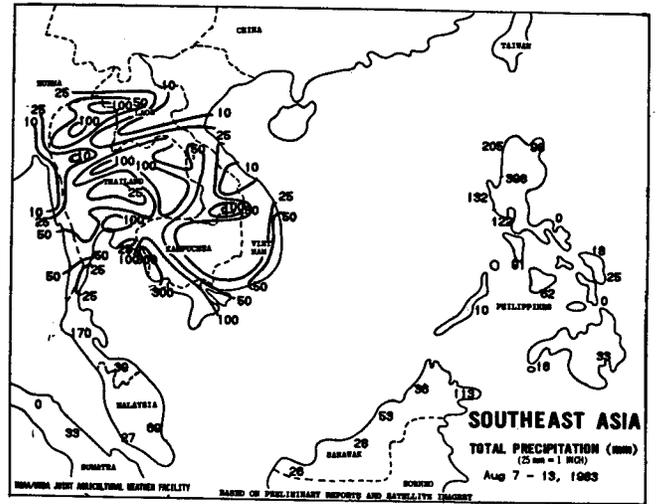
SOUTH ASIA...The southwest monsoon continued to bring moderate to heavy rain across central India this week. Excessive precipitation along the western coast likely caused flooding in autumn rice areas, where near normal July rains kept soils saturated. Dry weather and slightly above-normal temperatures persisted in the southeast, stressing autumn rice in the heading stage. Relatively light rain fell in winter rice areas of Uttar Pradesh and Bihar, where the crop is in the vegetative stage. Little or no rain fell in Bangladesh, following last week's rains, returning to July's below-normal precipitation pattern. Moderate rain in portions of the cotton and groundnut region of Maharashtra and Karnataka benefited western crop areas where July precipitation was below normal.



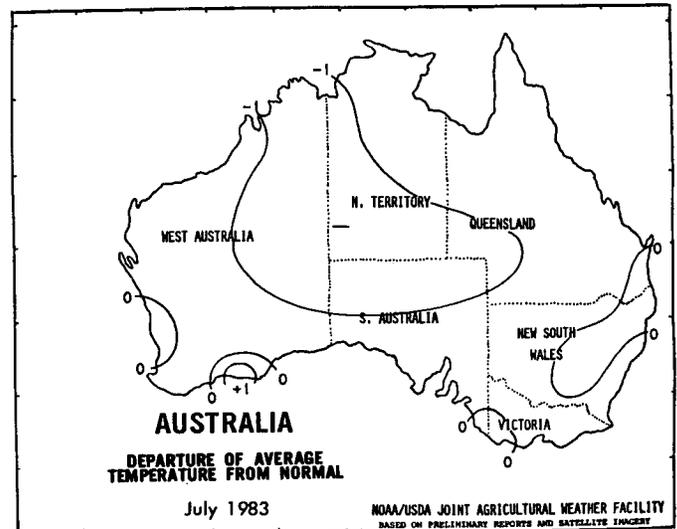
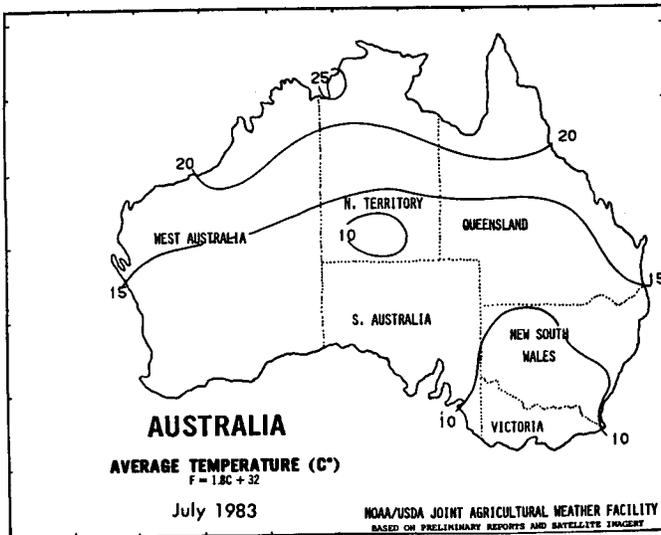
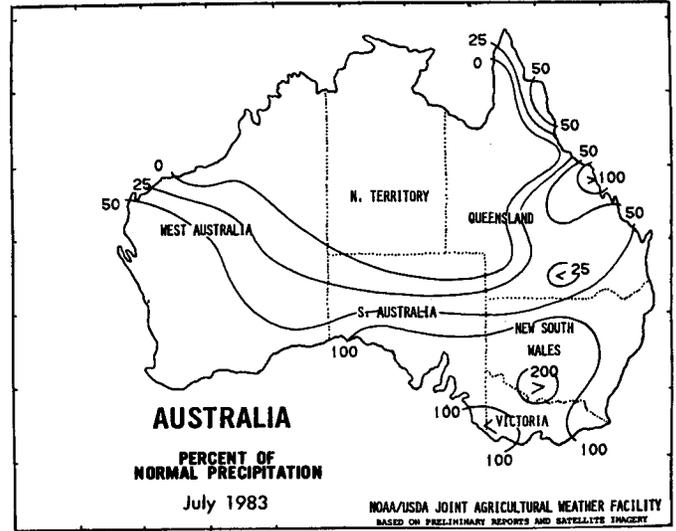
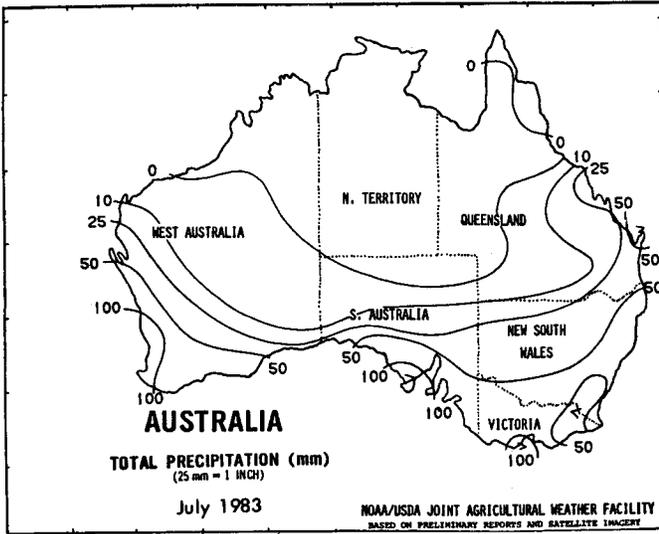
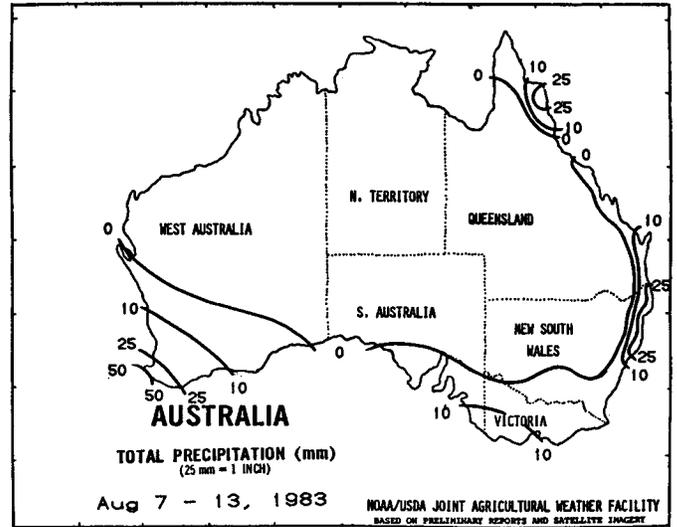
EASTERN ASIA... A band of variable precipitation stretched from Yunnan to Jiangsu, with the amounts heaviest (greater than 100mm) in Henan. To the north and south, mostly dry weather prevailed. Below-normal July rains and plentiful sunshine created favorable growing conditions for China's rice region, following earlier inundative rains. However, more rain now would benefit the late rice crop, which is in the vegetative stage. Rain in the North China Plain was favorably light in most crop areas. Above-normal precipitation during July in the Yangtze Valley gave way to beneficially drier conditions by the end of the month. Moisture supplies for cotton, corn, and soybeans in the area are adequate. Recent dry weather was favorable for the northeastern corn/soybean region where crops are in the reproductive stage. Heavy rain continued to be unfavorable in North Korea, while South Korea received moderate amounts.



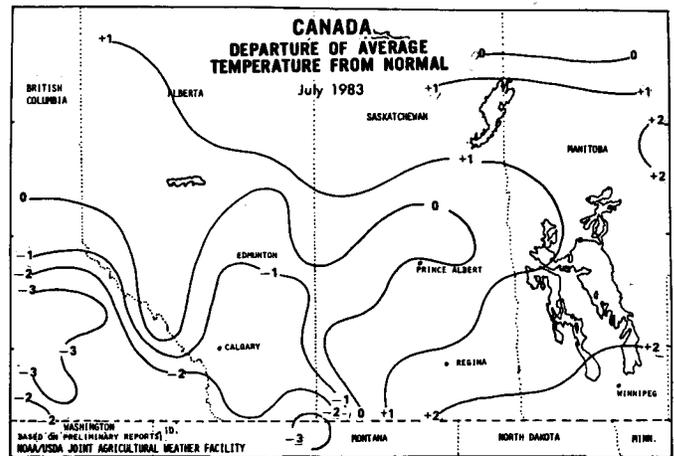
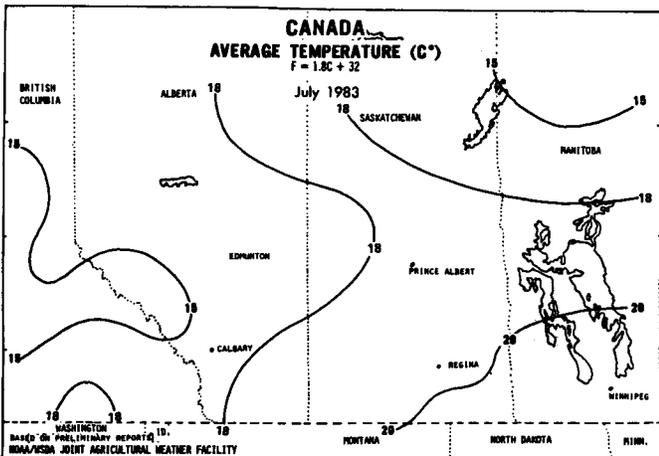
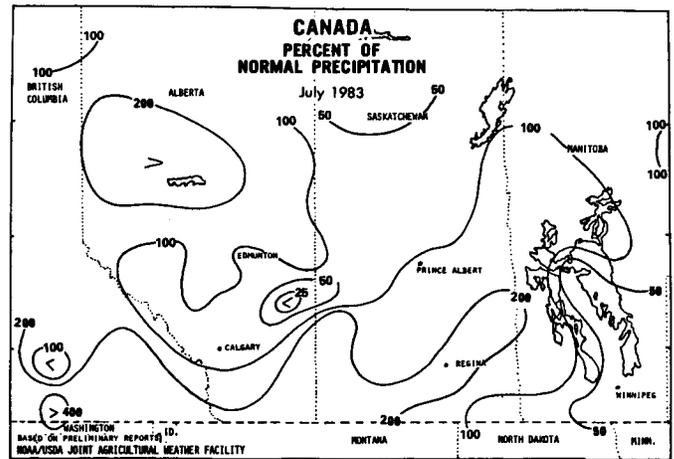
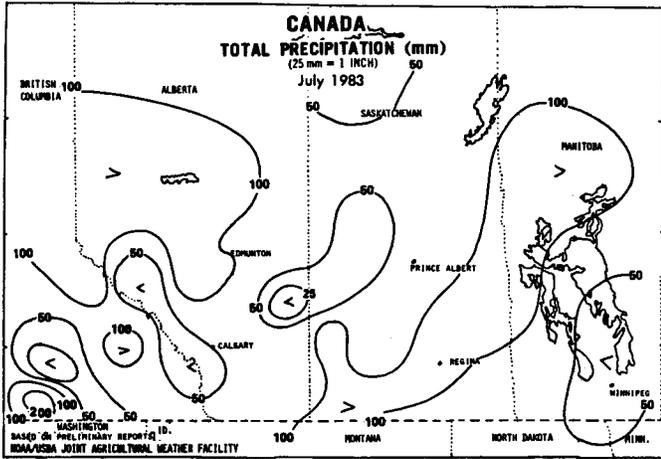
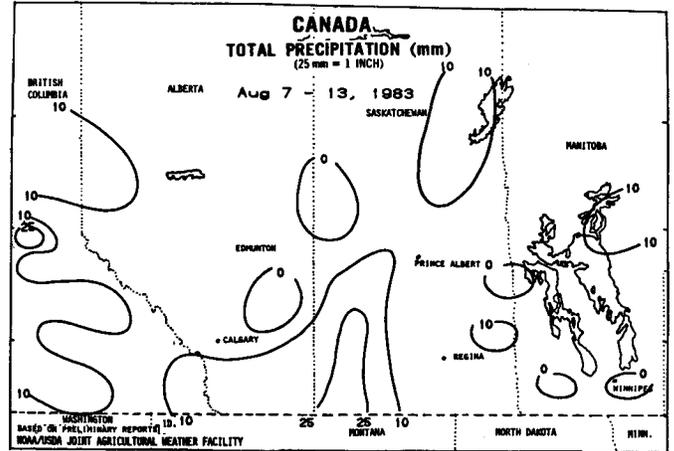
SOUTHEAST ASIA... Monsoon activity varied from light to heavy in Indochina this week. Most of the precipitation fell in Thailand, while Laos, Vietnam, and Kampuchea were relatively dry. Heavy precipitation in south-central, eastern, and portions of northern regions benefited rice in the reproductive stage. Lighter rain fell in central Thailand, following moderate amounts last week. July precipitation in Thailand was above normal in a band stretching from Bangkok northward, benefiting a portion of the rice and corn area. Temperatures continue slightly above normal in Thailand but are still favorable for normal crop growth. Spotty rainfall in the Philippines benefited localized crop areas. Some areas of Luzon received excessive amounts (greater than 100mm) of rainfall toward the end of the week, with some flooding possible.



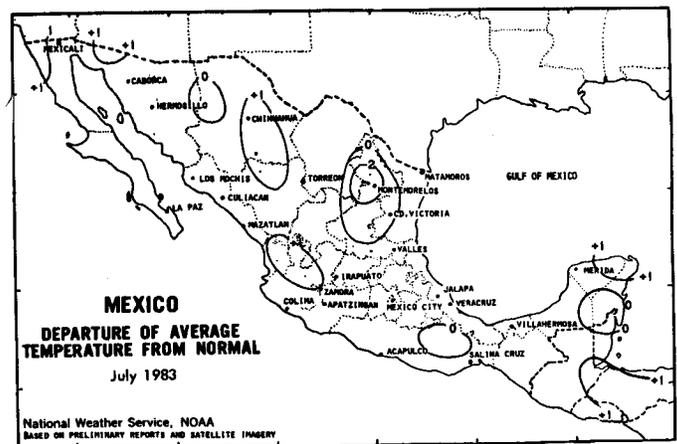
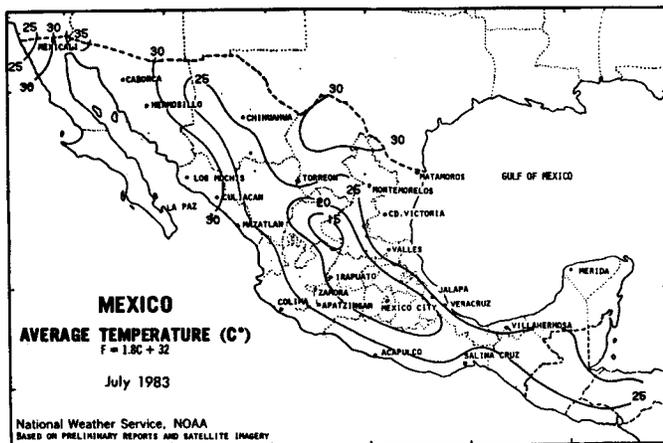
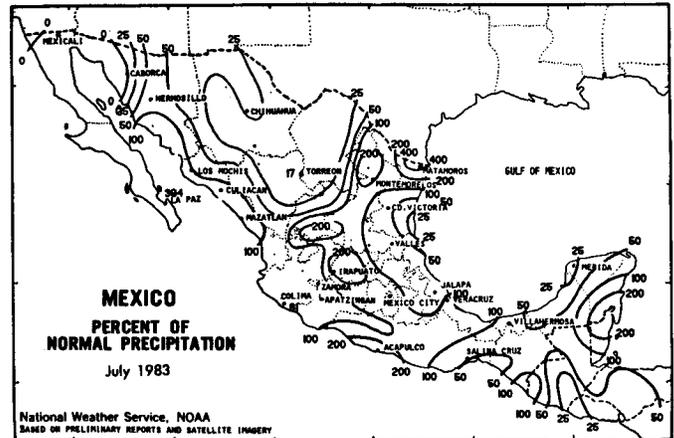
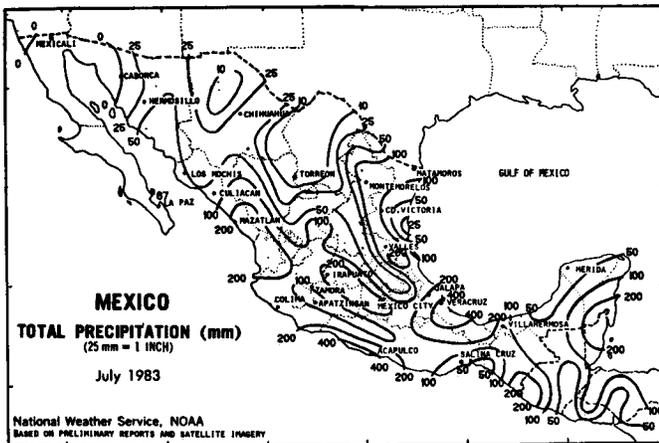
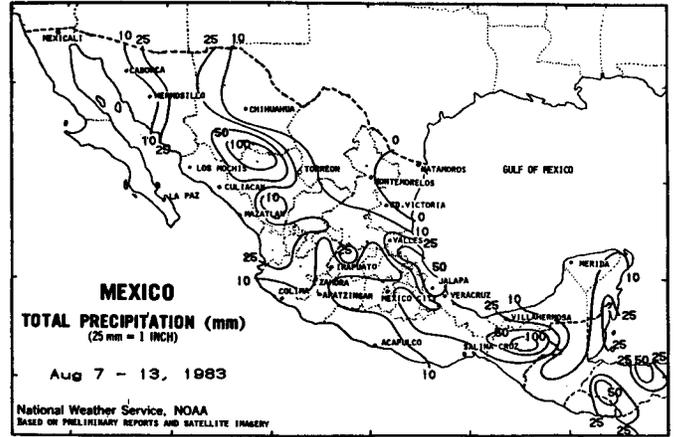
AUSTRALIA... Rainfall was confined mostly to coastal areas during the week, although most wheat areas of Western Australia benefited from some moisture. July rainfall was below average in the west, but the frequent occurrence of light showers kept topsoils sufficiently moist to maintain adequate crop growth. Rains will be needed in the west and south as temperatures rise during the growing season. Above-average July rains in South Australia, Victoria, and southern New South Wales aided crop emergence and early growth. Dry weather covered most of the southern and eastern wheat areas during the week. The below-average July rainfall, which continued into early August, in northern New South Wales and southern Queensland alleviated excessive wetness and aided late wheat planting. Presently, conditions are mostly favorable for the wheat crop.



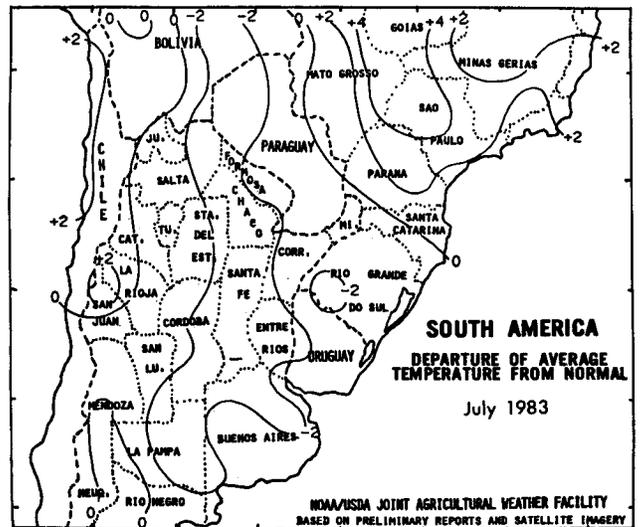
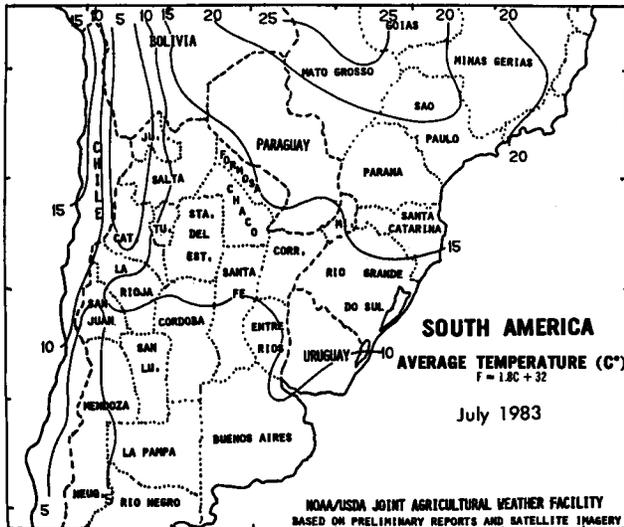
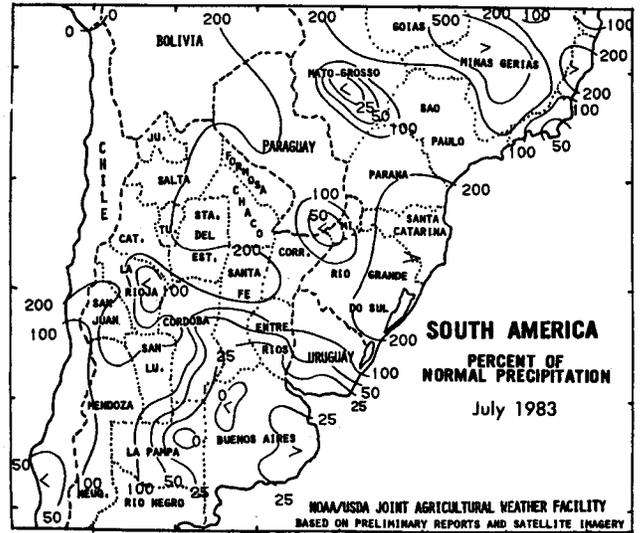
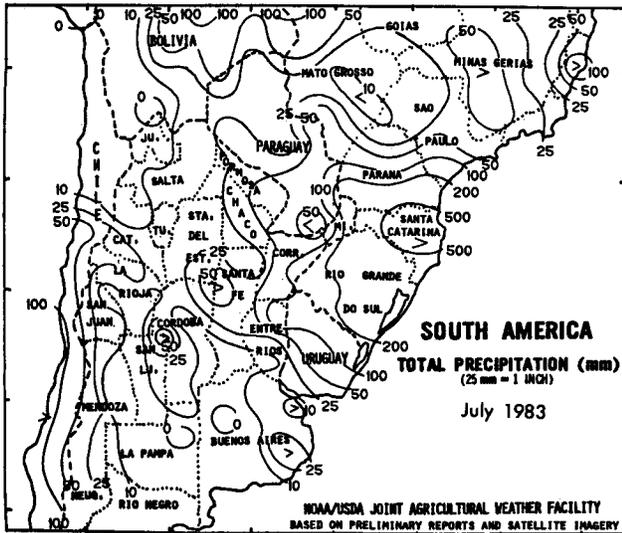
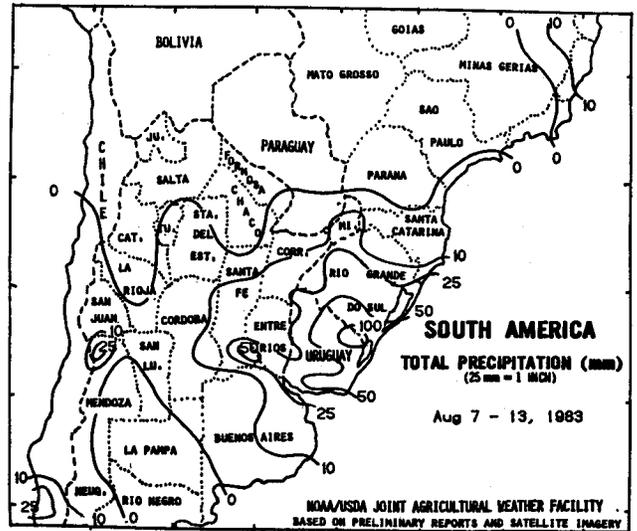
CANADA...Generally cooler weather prevailed in the Prairie grain belt, reducing the heat stress caused by the hot, dry weather during late July and early August. An elongated band of rainfall, in excess of 10 mm, stretched from southern Alberta and southwestern Saskatchewan northeastward through Saskatchewan. This moisture benefited spring grains and oilseeds which are mostly in the filling/podding stages, although an increasing percentage of these crops are maturing. Crops are generally rated fair to good as hot, dry weather has hastened development under stressful conditions. Crop areas most affected by the heat likely coincided with those areas receiving below-average July rainfall. These include eastern Manitoba, northwestern Saskatchewan and central Alberta. However, the excessive heat in southern crop areas lowered the yield potential especially early-seeded crops.



MEXICO...Persistent rains continued to benefit the southern Plateau corn belt crops which were generally in the reproductive stage. The western mountain watersheds were also doused with scattered moderate rains, improving the water supply for irrigating summer field crops and fall and winter vegetables. The north-central region has remained mostly dry for several months, stressing pastures and livestock. Sporadic rains fell over parts of the northeast, helping rainfed orchards and crops in the northernmost districts, while being too light to significantly benefit those further south.



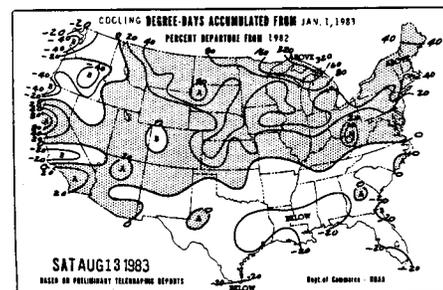
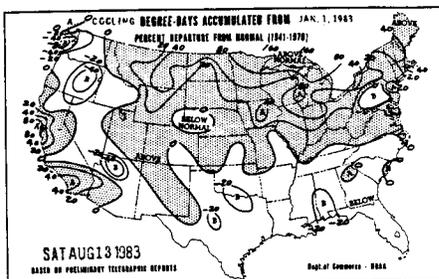
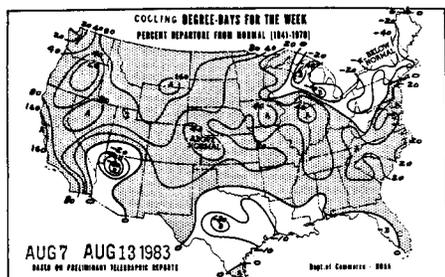
SOUTH AMERICA...Significant showers, producing over 10mm of rain, covered portions of Argentina's wheat belt. July rainfall was below average for the second consecutive month during the wheat planting season. Thus, topsoils were becoming too dry even for this slow growth period. Wheat areas of Santa Fe, Entre Rios, northeastern Cordoba, and northeastern Buenos Aires benefited the most from the recent showers, but even these areas will need substantial rains in upcoming weeks as wheat enters the vigorous growth period. In southern Brazil, above average July rainfall aggravated the serious problems caused by unrelenting heavy rains. Excessive rain fell over southern Rio Grande do Sul during the week, but mostly dry weather helped flood-ravaged Santa Catarina and aided the harvest of coffee and citrus in Sao Paulo and vicinity. One week of substantial rain during July in Minas Gerais accounted for the notably above average monthly totals.





**WEEKLY NEWS BULLETIN
SECOND CLASS**

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300



(continued from p. 12)

1982 and 8 percent smaller than 1981 crop. The 90 percent confidence interval for production is 1.68 to 2.00 billion bushels.

HAY production is forecast at a 146 million tons, a 5 percent decline from the record 1982 production. Pasture and range feed condition on August 1 averaged 76 percent, 10 points below a year ago.

ALL COTTON production forecast at 7.81 million bales, 35 percent below 1982 production. The 90 percent confidence interval for this forecast is 6.61 to 9.01 million bales.

ALL TOBACCO production forecast at 1.51 billion pounds, 24 percent below the 1.98 billion pounds produced in 1982.

NUMBER OF FARMS in the U.S. in 1983 is estimated at 2.37 million, down 1 percent from 1982. Land in farms declined 3.37 million acres. Average size of farms increased from 433 last year to 437 acres in 1983.

(continued from p. 11)

PASTURES AND LIVESTOCK: Hot, dry weather continued to cause deterioration of pastures and ranges in many areas. Conditions were fair to poor in portions of the Corn Belt, the Southeast, and the Southwest. Supplemental feeding of livestock became more widespread. Livestock weight gains remained low because of heat stress and reduced forage supplies.

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