

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

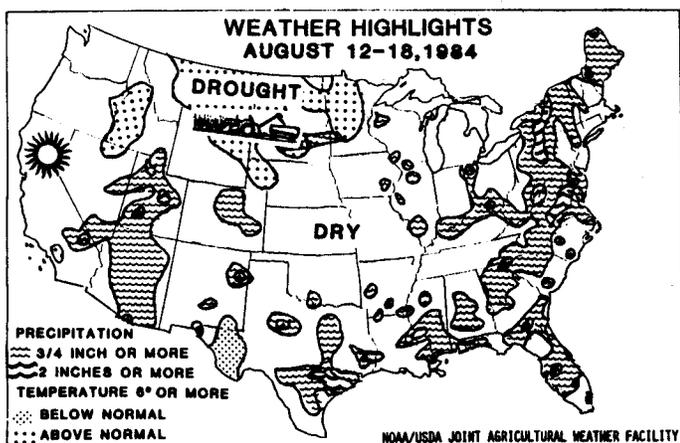
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Aug. 21, 1984

National Weather Summary

August 12 to 18



HIGHLIGHTS: Slow-moving, strong thunderstorms caused local flooding along the eastern slopes of the Appalachians before moving off the east coast at midweek. Scattered showers benefited crops from eastern Iowa and western Illinois, through the Ohio Valley. Beneficial rains also fell in central Texas. Thunderstorms in the Southwest reached into southern California, causing flash floods from the California desert into Utah. Temperatures averaged much warmer than normal through the northern Plains, but were cooler than normal across most of the South.

SUNDAY...Heavy showers fell along the eastern slopes of the Appalachians and in parts of the Gulf Coast States. Lighter showers covered the East Coast and Gulf Coast States. Moderate to heavy rain in parts of central Texas helped relieve dryness. Temperatures were very warm in the central and northern Plains. Afternoon highs rose to near 100 degrees in the Dakotas.

MONDAY...Thunderstorms continued from the Appalachians to the east coast, with heavy showers through most of Virginia. Lighter showers covered the Gulf Coast States, the Rockies, and the northern Plains. Temperatures were mild over most of the Corn Belt, but warm through the Plains. High temperatures in the northern Plains pushed over the 100 degrees mark.

TUESDAY...Thunderstorms moved through the Appalachians and covered the East Coast States from the Carolinas through New England. Strong thunderstorms developed over the Gulf Coast States and in the Southwest. Heavy rain caused local flooding in

parts of the central and southern Plateau. Temperatures were much warmer over the western Corn Belt, but moderated in the northern Plains.

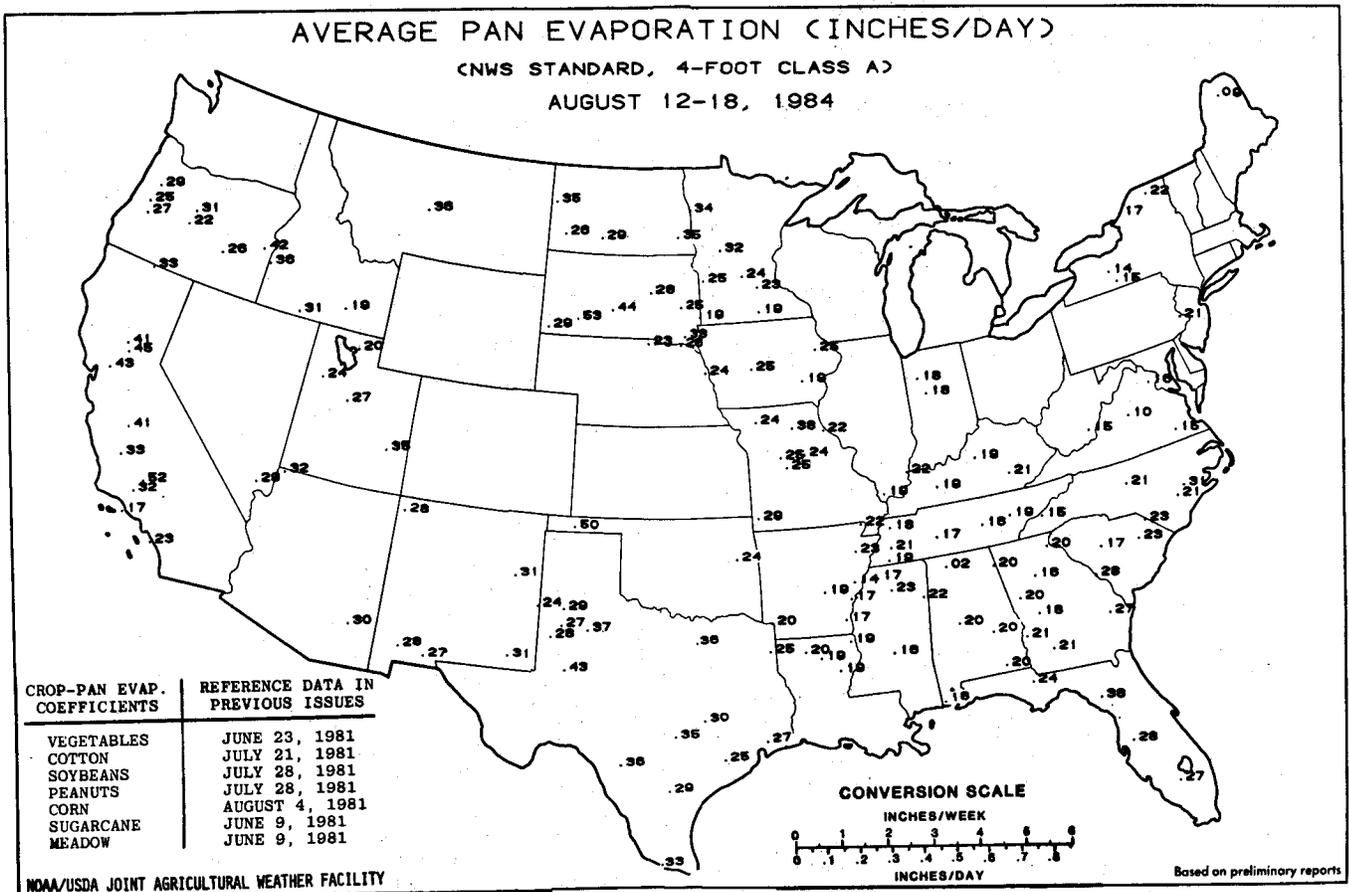
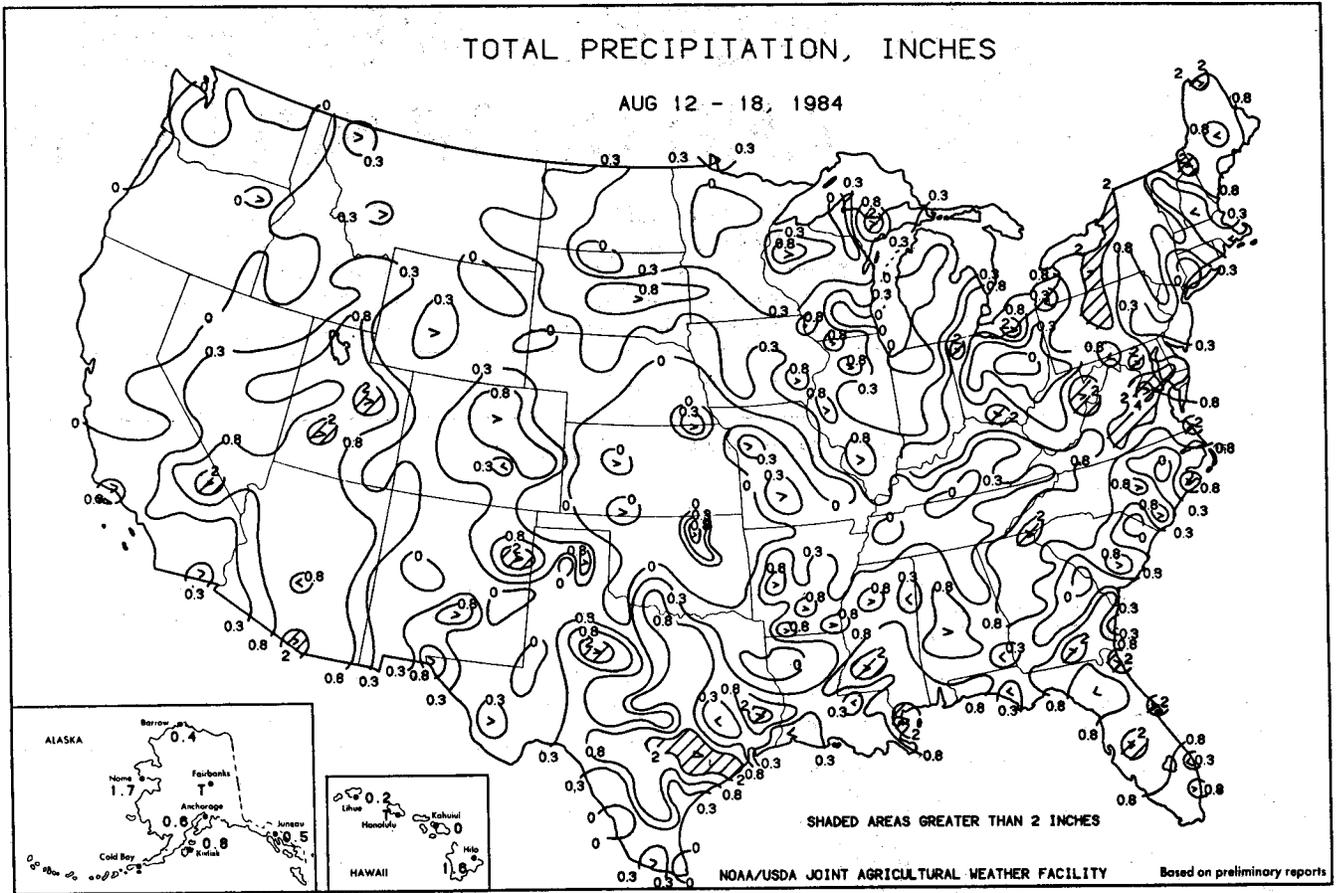
WEDNESDAY...Thunderstorms continued in the Southwest, posing flooding problems from the California deserts to Utah. Scattered showers spread through the central Rockies to western Nebraska. Strong thunderstorms developed from central Texas to the lower Mississippi Valley.

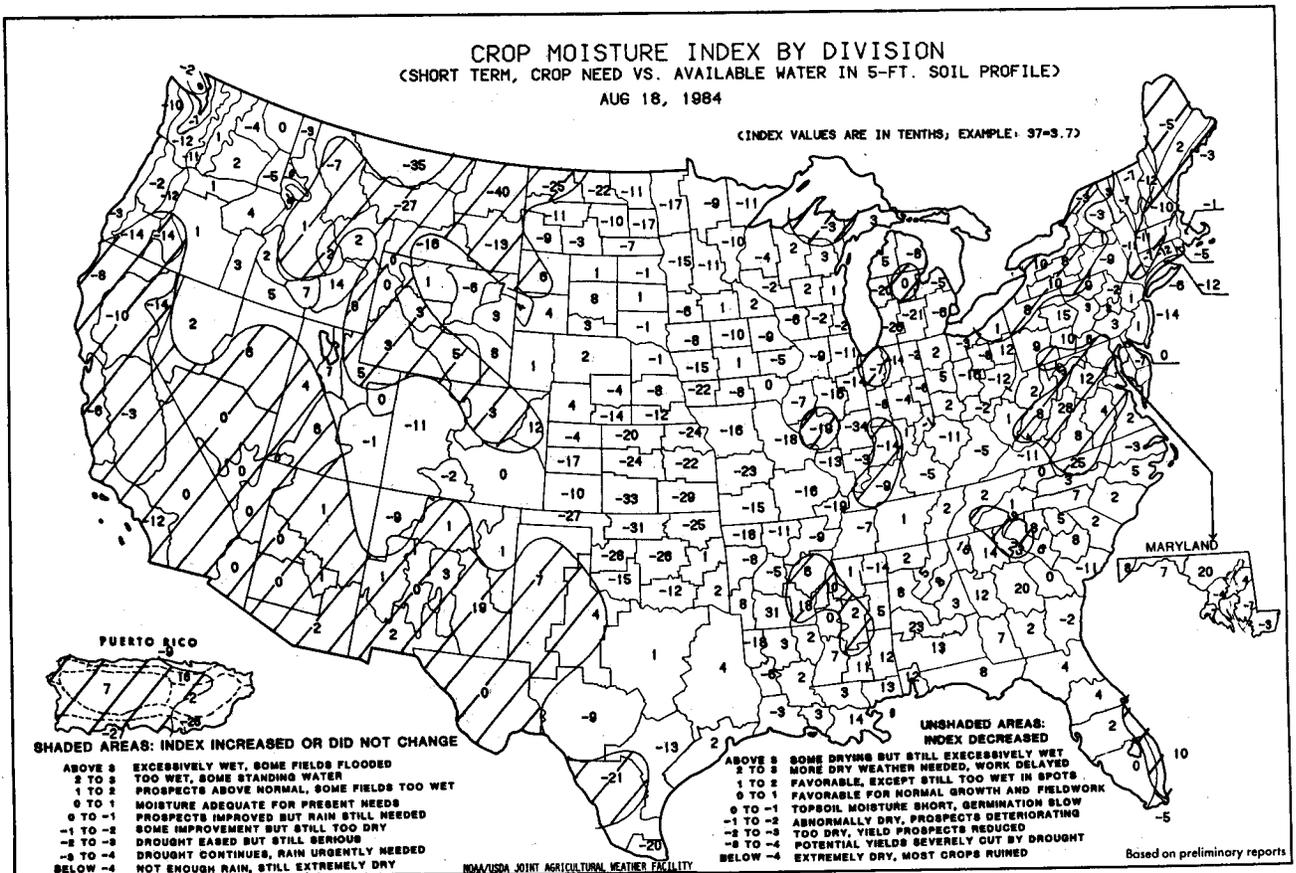
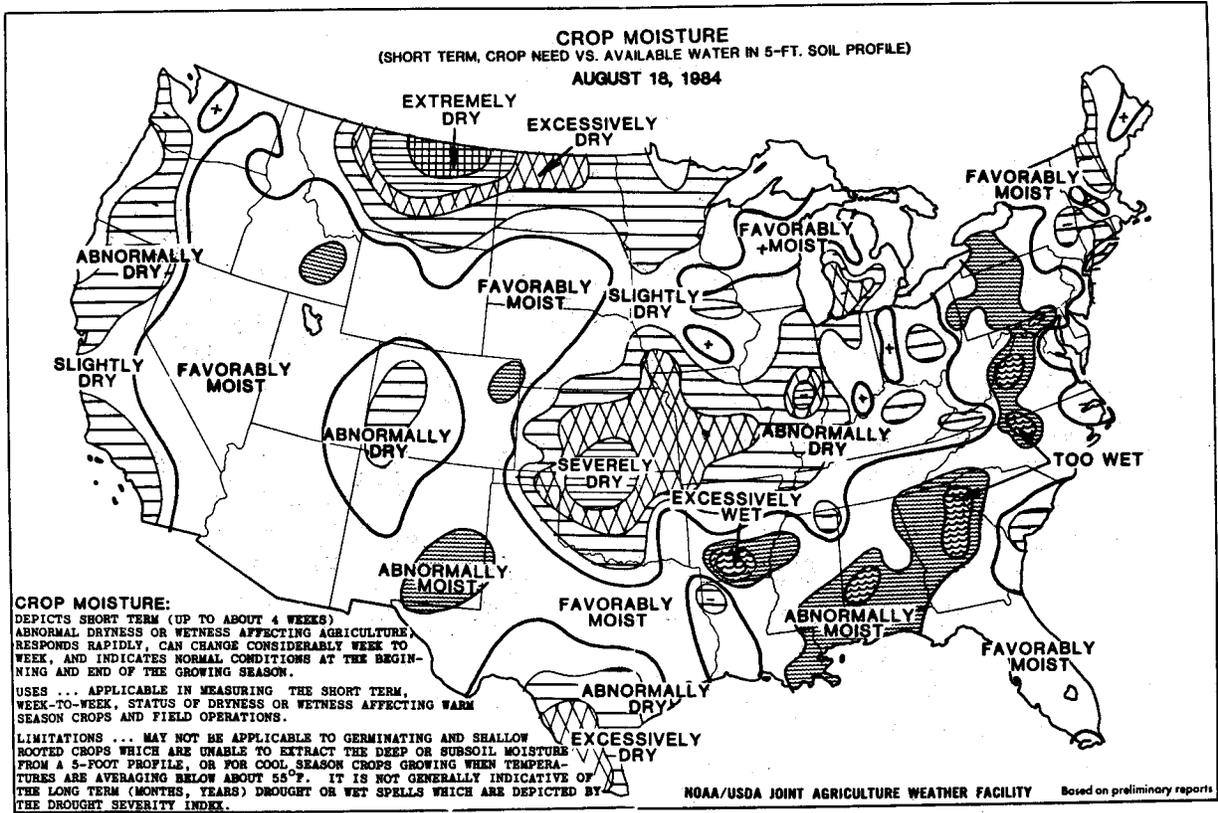
THURSDAY...It was hot and dry through the central Plains. High temperatures ranged from the high nineties in Kansas and Nebraska, to the mid-nineties in central Illinois. Thunderstorms were not as numerous in the Southwest, but were more frequent from southern Idaho and Montana to northern Iowa. Showers were widely scattered east of the Mississippi River.

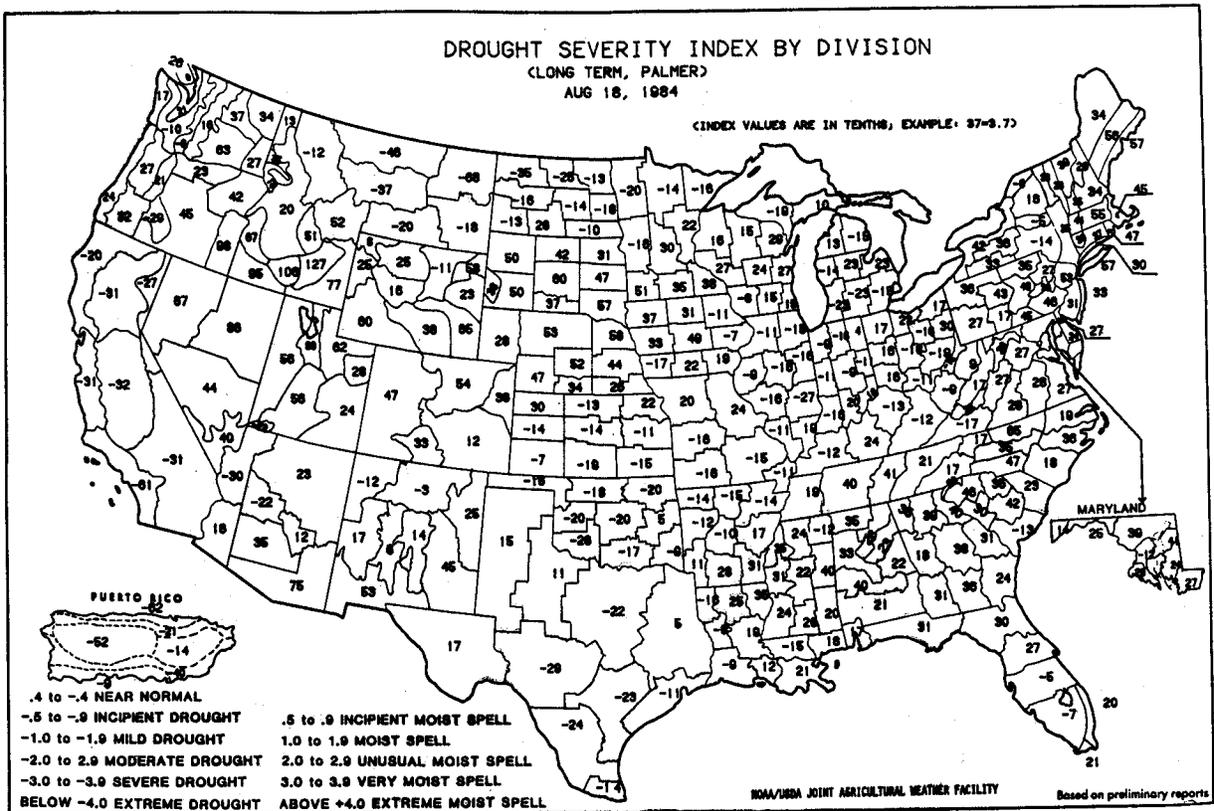
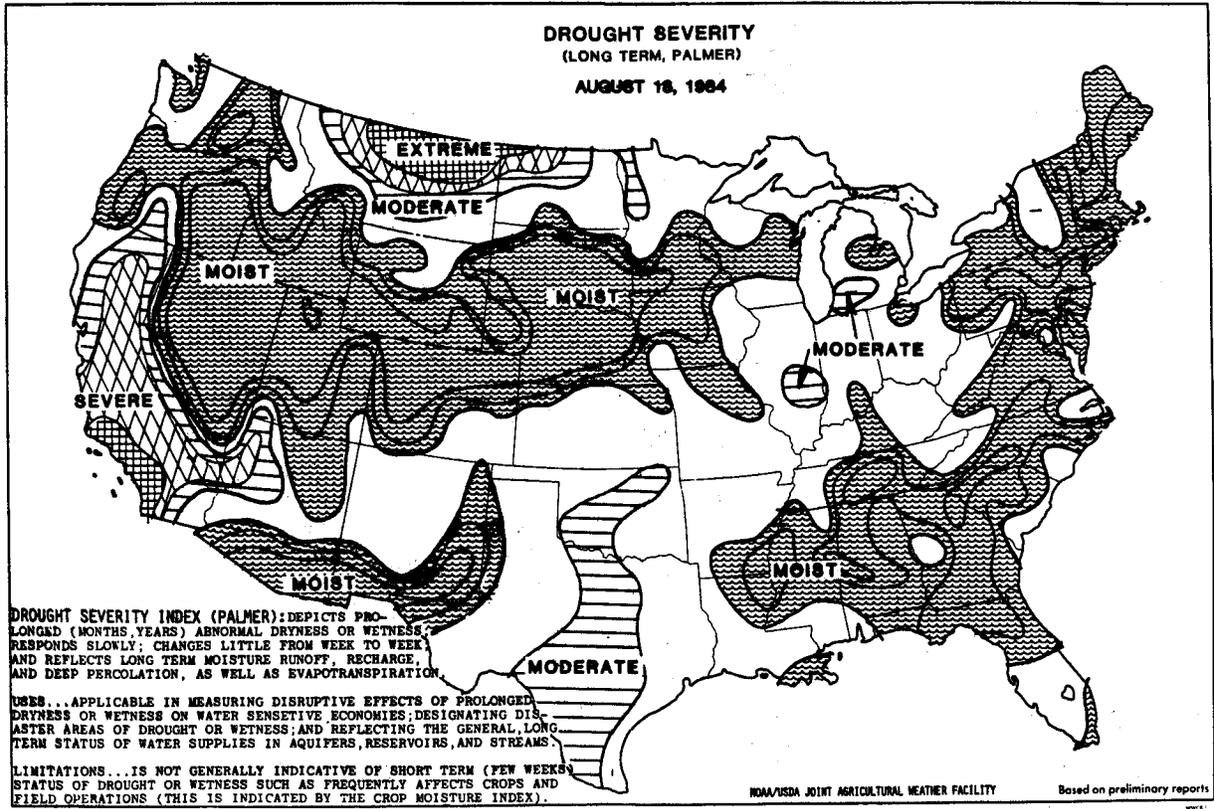
FRIDAY...Scattered showers reached from Iowa and southern Minnesota to the Ohio Valley. Light showers also covered the northern High Plains and the Southwest. Strong thunderstorms developed along the eastern gulf coast and through Florida. Temperatures moderated over most of the western Corn Belt.

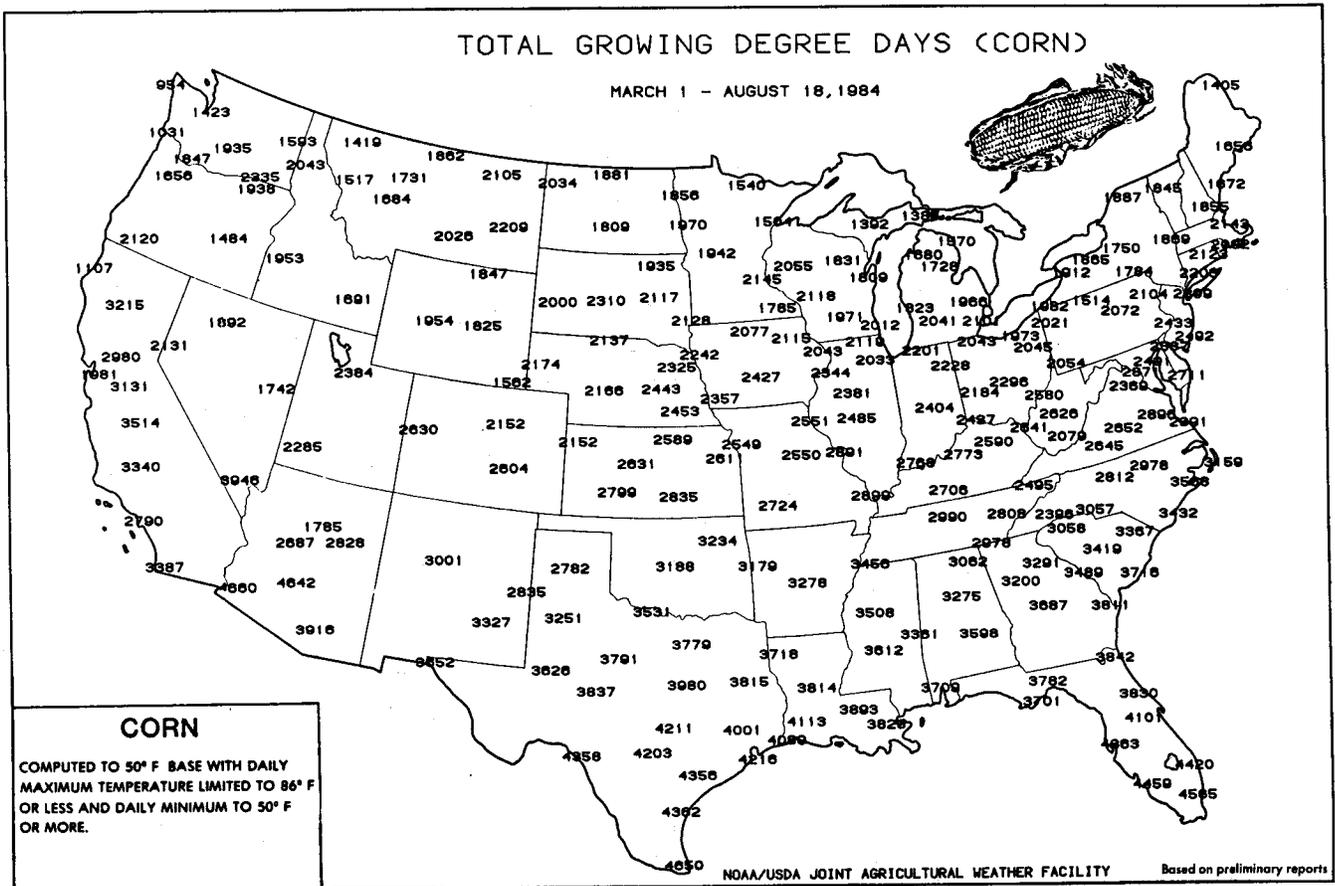
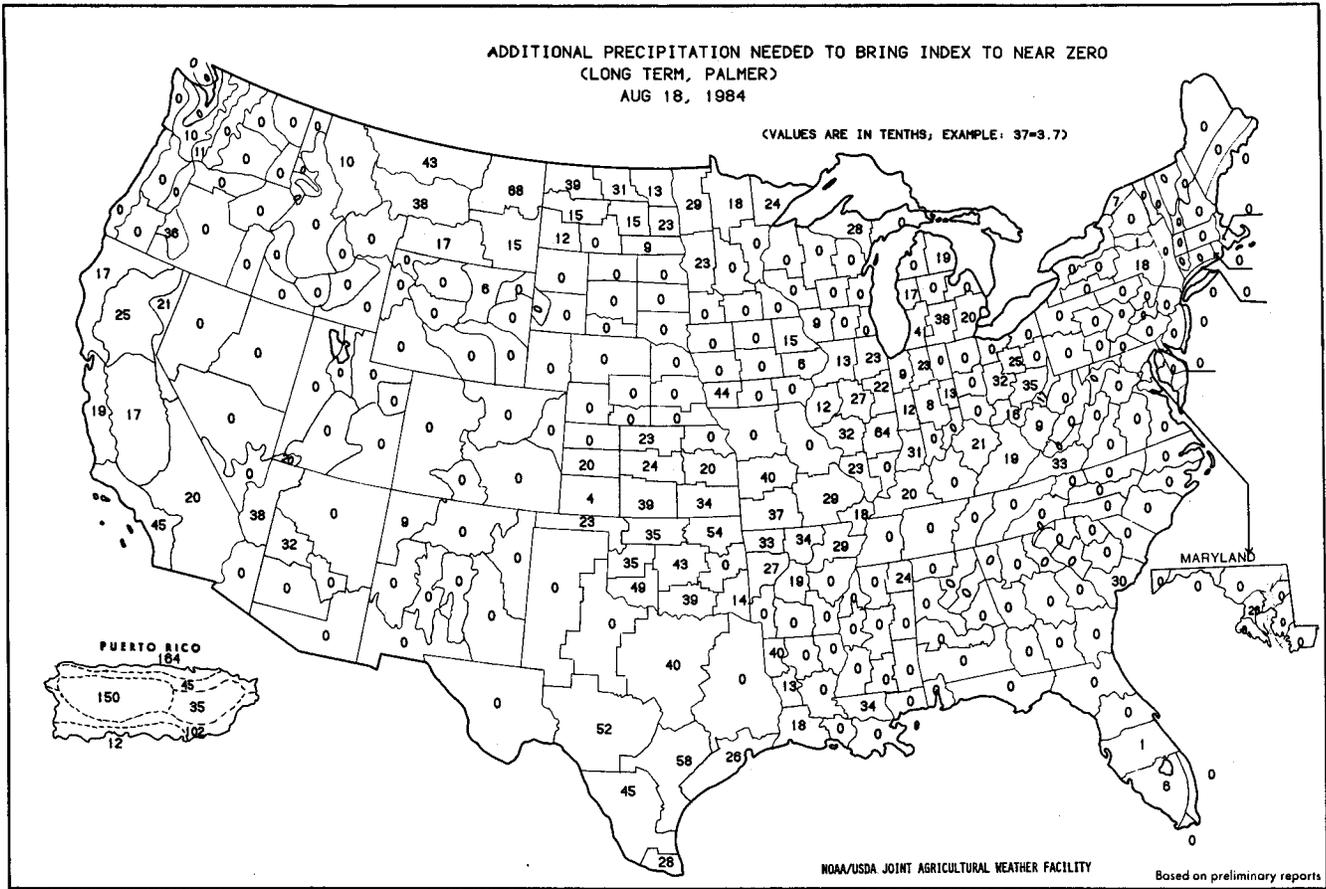
SATURDAY...Showers were widespread from Missouri and Arkansas to the east coast, from the eastern Great Lakes through New York, and in the Southeast. Showers continued from Arizona and southern California through the central and northern Rockies. Moderate temperatures prevailed over most of the Corn Belt, but it was still very warm in parts of the central and the southern Plains.

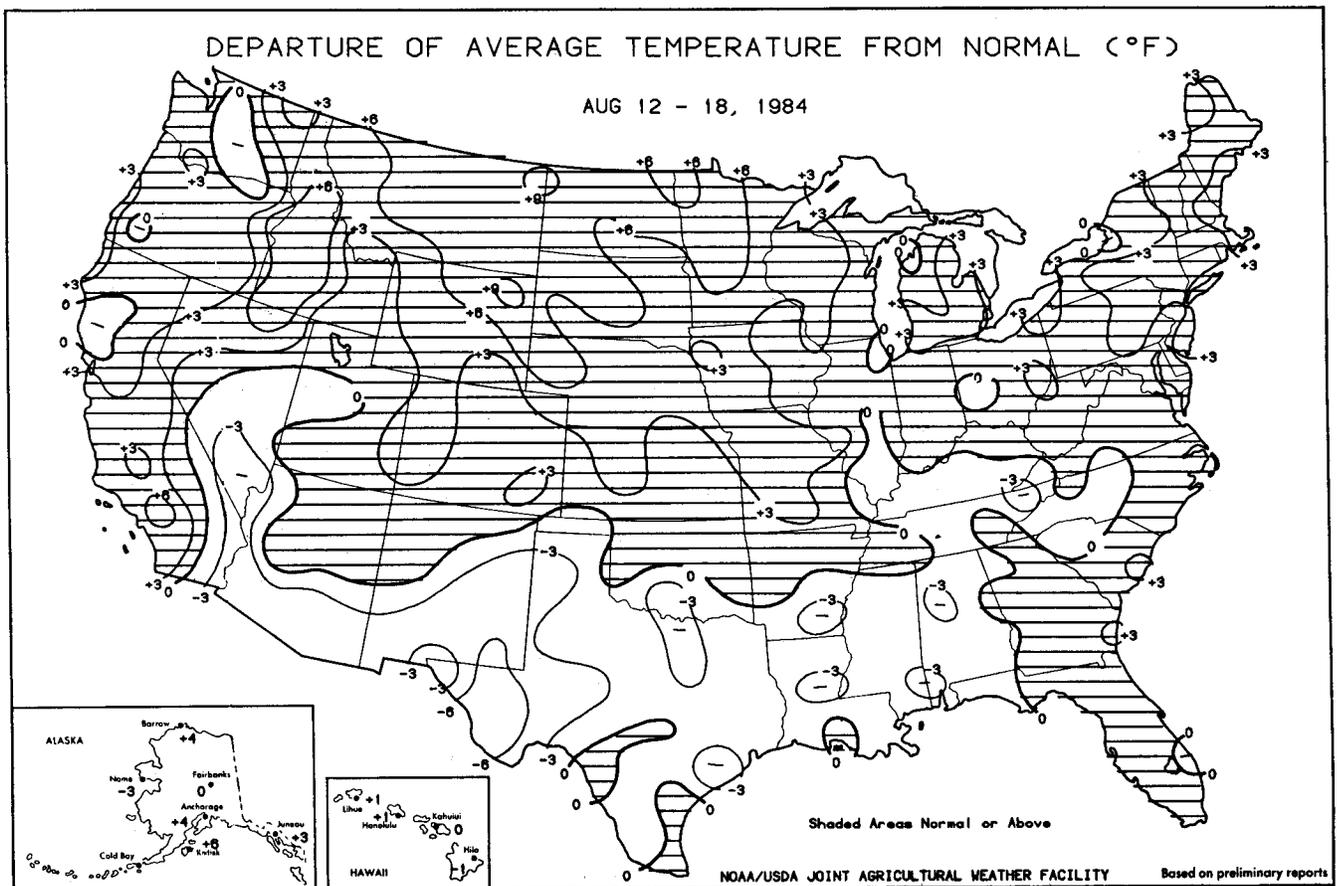
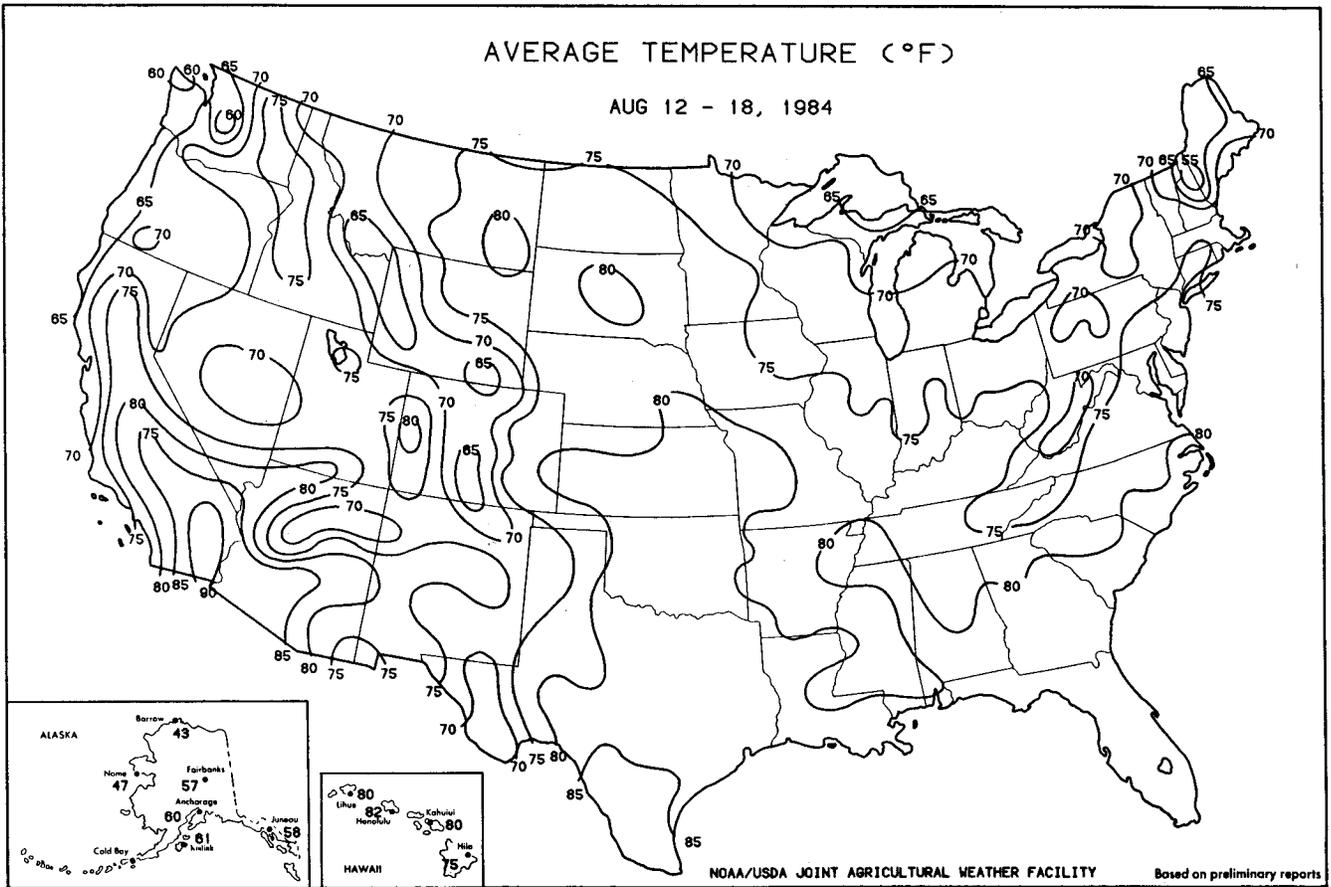
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Weather Data for the Week Ending AUGUST 18, 1984

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 June 3	PCT. NORMAL SINCE June 3	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	
AL BIRMINGHAM	89	68	90	65	79	-1	.8	0	.8	9.4	83	33.5	89	95	50	2	0	1	1	
MOBILE	87	70	91	69	79	-3	1.2	-3	.9	17.1	102	40.6	93	93	59	3	0	4	1	
MONTGOMERY	90	71	92	68	80	-1	.7	-1	.7	15.9	159	38.3	116	95	55	4	0	2	1	
AK ANCHORAGE	70	51	76	47	60	4	.6	.1	.6	3.0	70	7.3	92	82	45	0	0	1	0	
BARROW	49	38	61	29	43	5	.4	.2	.2	1.9	103	2.7	97	77	77	0	0	1	0	
FAIRBANKS	66	48	72	38	57	0	0	0	0	3.9	93	7.1	110	96	55	0	0	1	0	
JUNEAU	67	49	73	46	58	3	.5	.3	.3	11.8	119	30.9	114	98	53	0	0	3	0	
KODIAK	68	53	74	50	61	6	.8	-3	.8	9.0	89	46.0	111	86	58	0	0	2	1	
NOME	50	45	54	40	47	5	1.7	.9	1.0	7.5	143	9.7	116	98	82	0	0	6	1	
AZ PHOENIX	99	78	102	72	88	-2	.4	.2	.4	6.0	383	7.4	181	74	37	7	0	1	0	
PRESCOTT	80	59	85	40	70	-1	1.4	.6	.9	6.5	109	7.2	60	89	52	0	0	4	1	
TUCSON	92	70	95	67	81	-3	1.0	.5	.4	6.5	161	7.6	114	80	36	6	0	5	1	
YUMA	99	80	105	75	89	-3	.2	0	.2	2.3	533	3.0	210	83	41	7	0	1	0	
AR PORT SMITH	94	70	101	65	82	1	0	-7	0	7.4	74	20.6	80	97	40	7	0	0	0	
LITTLE ROCK	90	70	96	67	80	-1	1	0	-6	5.2	67	27.2	89	93	57	4	0	1	0	
CA BAKERSFIELD	96	71	100	67	84	1	0	0	0	29	1.3	34	68	24	6	0	0	1	0	
EUREKA	67	55	72	53	61	4	0	-1	0	1.1	137	16.8	74	95	71	0	0	0	0	
FRESNO	99	70	104	68	85	6	0	0	0	.2	250	2.1	30	59	23	0	0	0	0	
LOS ANGELES	79	67	83	61	73	2	0	-3	-3	.3	580	-2.0	24	85	61	0	0	1	0	
RED BLUFF	96	62	100	59	79	-1	1	-1	-1	.1	9	4.3	33	63	20	7	0	0	0	
SACRAMENTO	94	61	100	59	77	3	0	0	0	.1	69	3.0	28	76	23	6	0	0	0	
SAN DIEGO	81	74	83	72	78	5	.1	.1	.1	3	450	1.5	24	85	67	0	0	0	0	
SAN FRANCISCO	74	55	81	53	65	2	0	0	0	.3	21	4.0	32	88	50	0	0	0	1	
CO DENVER	86	60	89	57	73	1	1.3	.9	1.0	5.4	123	10.7	95	82	32	6	0	4	1	
GRAND JUNCTION	93	68	95	67	81	4	.1	-1	.1	2.4	167	6.1	126	58	26	6	0	0	0	
PUEBLO	91	63	96	58	77	2	2	-4	0	6.8	164	10.4	132	81	28	4	0	1	0	
CT BRIDGEPORT	85	69	90	62	77	4	0	-8	0	10.9	128	33.1	127	85	58	1	0	0	0	
HARTFORD	85	65	89	56	75	3	.1	-9	.1	7.3	84	33.3	123	89	52	0	0	1	1	
DC WASHINGTON	86	73	89	69	79	2	.9	-1	.6	8.0	81	26.8	106	88	58	0	0	3	1	
FL APALACHICOLA	89	73	91	70	81	0	.4	-1.2	.4	22.2	137	46.4	139	87	63	2	0	2	1	
DAYTONA BEACH	93	73	95	70	83	2	1.2	-3	.9	11.0	71	28.6	96	92	56	7	0	2	1	
JACKSONVILLE	93	72	94	70	83	2	1.0	-6	.8	12.5	78	29.7	86	97	49	7	0	4	1	
KEY WEST	90	80	91	75	85	1	.3	-7	.3	11.5	103	28.0	133	77	58	3	0	2	0	
MIAMI	90	75	92	71	83	0	.8	-6	.6	18.6	98	40.6	117	88	53	5	0	1	1	
ORLANDO	92	74	93	72	83	0	1.9	.5	1.7	16.1	85	31.2	94	99	52	7	0	2	1	
TALLAHASSEE	94	70	96	67	82	1	1.4	-2	1.2	15.1	76	46.3	104	96	50	7	0	4	1	
TAMPA	91	75	94	74	83	1	1.9	.2	1.3	14.2	82	25.1	80	92	57	5	0	3	1	
WEST PALM BEACH	89	74	90	70	82	-1	.2	-1.1	.1	16.0	95	41.3	120	97	65	1	0	3	0	
GA ATLANTA	86	71	89	68	78	0	1.4	.7	1.1	14.1	138	43.8	129	90	57	0	0	3	0	
AUGUSTA	92	71	95	70	81	1	1	-9	0	12.0	113	40.3	131	88	48	5	0	0	0	
MACON	91	73	95	72	82	1	.5	-4	.4	16.6	158	39.4	124	97	58	6	0	2	1	
SAVANNAH	92	73	96	69	83	2	1.0	-5	.8	11.7	68	37.6	107	94	52	7	0	2	0	
HI HILO	82	68	83	66	75	-1	1.6	-7	1.1	14.6	70	57.5	72	88	63	0	0	5	1	
HONOLULU	90	73	92	72	82	1	0	-1	0	.3	23	5.1	36	77	42	5	0	1	0	
KAHULUI	91	69	92	62	80	0	0	-1	0	.3	26	6.4	47	66	46	6	0	0	0	
LIHUE	85	75	86	72	80	1	.2	-3	.2	2.3	48	10.3	40	76	56	0	0	1	0	
ID BOISE	93	65	97	58	79	7	0	-1	0	1.7	124	7.5	100	52	19	6	0	0	0	
LEWISTON	91	62	99	54	77	4	0	-2	0	1.9	84	7.2	88	52	21	5	0	0	0	
POCATELLO	88	54	95	46	71	2	.2	0	.2	4.1	219	10.0	140	87	27	3	0	2	0	
IL CHICAGO	83	58	90	51	71	-2	.1	-7	.1	6.8	70	21.0	95	94	51	1	0	0	0	
MOLINE	87	63	96	57	75	2	.6	-2	.6	9.1	79	23.4	92	92	46	2	0	1	1	
PEORIA	86	65	93	60	75	2	.3	-5	.2	8.3	85	25.1	107	92	50	2	0	2	0	
QUINCY	87	67	92	62	77	2	.2	-6	.1	9.0	85	25.0	101	80	51	2	0	2	0	
ROCKFORD	85	60	93	54	73	1	.7	-1	.7	7.8	70	19.0	78	98	48	2	0	1	1	
SPRINGFIELD	88	66	95	60	77	3	.3	-4	.2	6.1	67	24.5	107	93	49	3	0	2	0	
IN EVANSVILLE	88	65	94	60	77	1	1.9	1.3	1.9	6.9	74	26.0	91	87	45	3	0	3	1	
FORT WAYNE	86	62	90	55	74	2	0	-8	0	4.5	50	18.5	80	95	49	1	0	1	0	
INDIANAPOLIS	86	65	90	62	75	2	.4	-3	.2	8.9	86	24.4	92	100	54	1	0	3	0	
SOUTH BEND	85	63	90	60	74	3	0	-9	0	6.6	66	19.3	79	87	40	1	0	0	0	
IA DES MOINES	89	70	95	66	79	5	0	-1.0	0	14.2	145	29.1	136	82	48	3	0	1	0	
SIoux CITY	86	67	89	64	77	3	.1	-6	.1	9.6	105	24.9	136	92	58	0	0	2	0	
WATERLOO	84	61	91	57	73	2	.3	-5	.3	10.7	95	24.0	104	92	52	1	0	1	0	
KS CONCORDIA	93	66	99	60	80	2	0	-8	0	4.7	49	18.6	97	82	33	6	0	0	0	
DODGE CITY	96	68	100	65	82	3	0	-6	0	3.8	50	13.2	86	71	26	7	0	0	0	
GOODLAND	90	62	94	60	76	2	0	-4	0	6.8	109	15.8	129	74	31	4	0	0	0	
TOPEKA	92	63	97	57	77	2	0	-8	0	12.3	109	26.1	116	92	42	5	0	0	0	
WICHITA	96	67	101	64	82	2	0	-6	0	3.0	33	16.9	88	69	27	7	0	0	0	
KY BOWLING GREEN	86	66	90	64	76	-2	.2	-6	.2	8.1	75	37.2	111	95	48	1	0	1	0	
LEXINGTON	87	63	90	60	75	0	.1	-8	.1	7.4	63	26.8	85	98	47	1	0	2	1	
LOUISVILLE	87	66	88	64	77	0	.8	.1	.8	11.6	120	30.6	104	91	46	0	0	1	0	
LA ALEXANDRIA	89	72	94	69	80	-3	.2	-4	.2	14.8	142	42.0	112	92	58	3	0	1	0	
EATON ROUGE	88	72	93	71	80	-1	.2	-9	.1	9.7	72	25.9	68	90	55	3	0	4	0	
LAKE CHARLES	89	72	95	69	81	-1	0	-1.2	0	14.0	109	36.0	108	99	59	3	0	2	0	
NEW ORLEANS	88	71	91	70	80	-2	.2	-1.1	.1	17.5	118	37.0	94	89	56	3	0	2	0	

+100 = NORMAL & ACTUAL NEAR THE SAME

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending AUGUST 18, 1984

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 JUNE 8	PCT. NORMAL SINCE JUNE 8	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERA- TURE °F		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
ME SHREVEPORT	94	69	101	65	82	-1	T	-5	T	6.6	78	26.4	90	96	46	7	0	0	0	
ME CARIBOU	72	61	80	50	66	4	T	9	T	11.5	120	26.8	122	95	69	0	0	4	1	
ME PORTLAND	77	62	87	53	69	3	1.1	5	T	6	8.7	35.9	137	91	64	0	0	3	0	
MD BALTIMORE	85	69	88	65	77	1	.8	3	T	6	8.5	82	102	81	51	0	0	2	1	
MD SALISBURY	87	68	89	64	77	2	2	3	T	6	9.7	34.2	118	100	57	0	0	1	0	
MA BOSTON	81	67	93	59	74	2	.3	5	T	3	8.4	110	144	94	66	2	0	3	0	
MA CHATHAM	77	64	84	61	70	3	.1	8	T	1	7.6	95	129	98	81	0	0	1	0	
MI ALPENA	79	56	86	47	68	3	3	3	T	7	7.7	96	129	98	58	0	0	1	0	
MI DETROIT	87	62	92	57	74	4	1.1	3	T	9	4.7	55	162	84	46	1	0	2	1	
MI FLINT	84	61	87	58	72	4	4	1	T	7	6.4	80	16.8	88	51	0	0	1	0	
MI GRAND RAPIDS	86	59	91	56	73	3	3	3	T	8	3.8	43	15.4	72	96	1	0	1	0	
MI HOUGHTON LAKE	82	54	85	46	68	3	3	0	T	7	8.2	107	17.0	97	45	0	0	0	0	
MI LANSING	84	59	87	56	72	2	2	0	T	7	5.9	73	16.9	88	97	0	0	1	0	
MI MARQUETTE	76	50	84	43	63	2	1.1	4	T	1	8.1	92	20.3	87	96	0	0	1	0	
MI MUSKOGON	83	61	89	55	72	3	3	3	T	7	4.9	73	17.0	89	92	0	0	0	0	
MI SAULT STE. MARIE	78	51	83	47	65	1	4	4	T	4	8.3	102	16.6	86	99	0	0	3	0	
MN ALEXANDRIA	89	65	93	60	77	8	8	8	T	8	9.5	103	17.2	100	90	3	0	0	0	
MN DULUTH	80	57	87	48	69	5	5	5	T	2	8.2	79	14.3	73	92	5	0	2	0	
MN INT'L FALLS	81	57	90	50	69	5	5	5	T	2	9.1	99	13.0	81	94	0	0	1	0	
MN MINNEAPOLIS	86	67	88	63	77	5	5	5	T	8	14.4	148	24.5	133	91	1	0	2	0	
MN ROCHESTER	82	62	88	59	72	3	3	3	T	1	8.6	84	18.1	93	95	0	0	2	0	
MS GREENWOOD	87	71	91	69	79	-2	6	6	T	1	7.8	82	31.4	88	100	69	0	0	1	0
MS JACKSON	89	71	92	70	80	-1	1.1	3	T	1	10.3	108	32.0	90	96	5	4	3	3	
MS MERIDIAN	89	71	92	69	80	-1	5	5	T	2	11.7	108	33.9	92	94	5	4	0	0	
MO CAPE GIRARDEAU	90	67	97	65	78	1	5	5	T	5	4.0	44	20.9	71	98	4	0	1	0	
MO COLUMBIA	94	67	98	62	80	4	4	4	T	0	12.2	137	30.8	129	88	6	6	0	0	
MO KANSAS CITY	92	68	98	63	80	3	3	3	T	2	8.4	76	24.1	103	82	4	0	1	0	
MO SAINT LOUIS	91	72	96	66	81	4	4	4	T	2	4.0	46	25.1	108	86	4	0	2	1	
MO SPRINGFIELD	96	68	103	65	82	4	4	4	T	0	6.3	65	23.0	91	83	7	0	1	0	
MT BILLINGS	90	64	96	60	77	6	6	6	T	2	2.5	72	7.0	66	67	4	0	0	0	
MT GLASGOW	91	65	98	60	77	8	8	8	T	0	2.2	44	4.4	49	62	5	0	2	1	
MT GREAT FALLS	91	57	97	51	74	6	6	6	T	1	2.4	54	8.1	72	65	4	0	1	0	
MT HAVRE	91	56	97	49	74	5	5	5	T	2	1.0	26	3.9	47	66	5	0	1	0	
MT HELENA	89	57	92	50	73	6	6	6	T	1	2.5	67	5.7	69	74	2	0	2	0	
MT KALISPELL	86	50	91	40	68	4	4	4	T	0	2.7	69	8.6	83	82	3	0	4	0	
MT MILES CITY	94	67	103	63	80	7	7	7	T	4	4.4	89	6.7	64	65	6	0	2	0	
MT MISSOULA	87	52	92	45	70	4	4	4	T	1	2.5	77	9.1	102	89	28	4	0	0	
NE GRAND ISLAND	94	66	99	62	80	5	5	5	T	6	5.9	76	24.0	140	79	6	0	0	0	
NE LINCOLN	94	66	100	59	80	5	5	5	T	0	7.7	86	26.8	138	83	5	0	0	0	
NE NORFOLK	90	67	93	63	78	5	5	5	T	0	8.0	88	24.7	137	83	4	0	0	0	
NE NORTH PLATTE	92	62	97	59	77	5	5	5	T	1	5.8	75	16.1	106	74	6	0	1	0	
NE OMAHA	90	69	96	65	79	6	6	6	T	1	9.8	97	24.4	117	78	4	0	0	0	
NE SCOTTSDUFF	93	64	98	60	79	6	6	6	T	2	3.0	55	10.4	92	76	5	0	4	0	
NE VALENTINE	89	65	98	62	77	4	4	4	T	1	9.8	144	17.3	131	82	3	0	4	0	
NV ELY	79	50	86	47	65	-1	1.2	1	T	0	4.3	241	7.4	121	94	4	0	4	1	
NV LAS VEGAS	94	71	103	64	82	-6	8	8	T	6	3.6	390	3.7	135	81	3	4	4	1	
NV RENO	88	53	92	51	71	4	4	4	T	0	8	103	1.9	38	69	20	3	0	0	
NV WINNEMUCCA	92	57	96	49	75	6	6	6	T	1	3.2	253	8.3	162	69	17	5	0	0	
NH CONCORD	81	60	88	44	70	3	3	3	T	1	7.5	97	30.6	140	96	54	0	2	0	
NJ ATLANTIC CITY	88	71	94	65	80	7	7	7	T	1	7.9	81	31.4	117	82	5	0	2	0	
NM ALBUQUERQUE	88	65	89	63	76	0	0	0	T	1	3.4	125	5.0	102	76	3	0	0	0	
NM CLOVIS	83	63	86	61	73	-3	3	3	T	1	12.0	172	16.8	145	81	4	0	0	0	
NM ROSWELL	86	65	90	63	75	-4	4	4	T	5	10.0	279	12.5	226	86	3	1	0	0	
NY ALBANY	83	63	90	50	73	4	4	4	T	6	7.1	87	26.6	120	96	5	1	0	0	
NY BINGHAMTON	79	61	84	49	70	3	3	3	T	4	9.9	110	28.1	121	95	5	0	3	1	
NY BUFFALO	79	63	82	51	71	1	1	1	T	1	11.1	137	25.1	112	96	6	0	3	0	
NY NEW YORK	85	70	91	64	78	2	2	2	T	1	13.0	139	38.6	143	87	5	0	0	1	
NY ROCHESTER	78	63	84	52	71	1	1	1	T	2	8.3	117	23.5	120	91	6	0	4	1	
NY SYRACUSE	78	60	81	48	69	-1	1	1	T	9	9.0	93	23.6	96	100	73	0	3	1	
NC ASHEVILLE	82	62	84	58	72	-1	1	1	T	6	13.1	115	37.4	117	100	65	0	2	1	
NC CHARLOTTE	85	69	88	65	77	-1	1	1	T	3	12.9	133	38.0	130	96	5	0	3	1	
NC GREENSBORO	85	68	87	64	76	0	0	0	T	6	19.6	183	42.9	152	94	5	0	4	1	
NC HATTERAS	87	73	89	69	80	2	2	2	T	3	8.9	67	30.1	90	93	6	0	3	0	
NC NEW BERN	89	73	91	70	81	2	2	2	T	3	13.8	88	40.3	116	90	5	0	3	0	
NC RALEIGH	87	68	89	65	77	0	0	0	T	1	13.1	122	38.9	139	100	58	0	0	0	
NC WILMINGTON	88	72	90	69	80	0	0	0	T	1	12.8	75	34.3	97	99	5	1	1	0	
ND BISMARCK	90	59	99	54	75	5	5	5	T	1	5.1	85	11.5	99	78	2	3	0	0	
ND FARGO	87	64	102	55	77	8	8	8	T	6	6.1	75	11.2	80	85	2	0	1	0	
ND GRAND FORKS	90	59	99	51	73	5	5	5	T	4	11.0	149	15.4	121	88	3	0	1	0	
ND WILLISTON	81	64	100	57	78	9	9	9	T	1	3.4	64	7.1	71	70	2	5	2	0	
OH AKRON-CANTON	92	62	85	59	72	2	2	2	T	2	6.3	68	21.8	90	97	5	0	2	1	
OH CINCINNATI	85	64	88	61	74	0	0	0	T	3	7.6	75	24.0	87	90	4	0	2	0	
OH CLEVELAND	81	63	86	60	72	1	1	1	T	2	10.6	119	27.8	120	85	4	0	2	0	
OH COLUMBUS	85	63	87	57	74	1	1	1	T	0	5.6	55	20.4	80	89	0	0	0	0	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

(continued from p.12)
stalks to help maintain herds this winter. Ranges improved some from recent rains in that State. Livestock were in fair to mostly good condition in all regions.

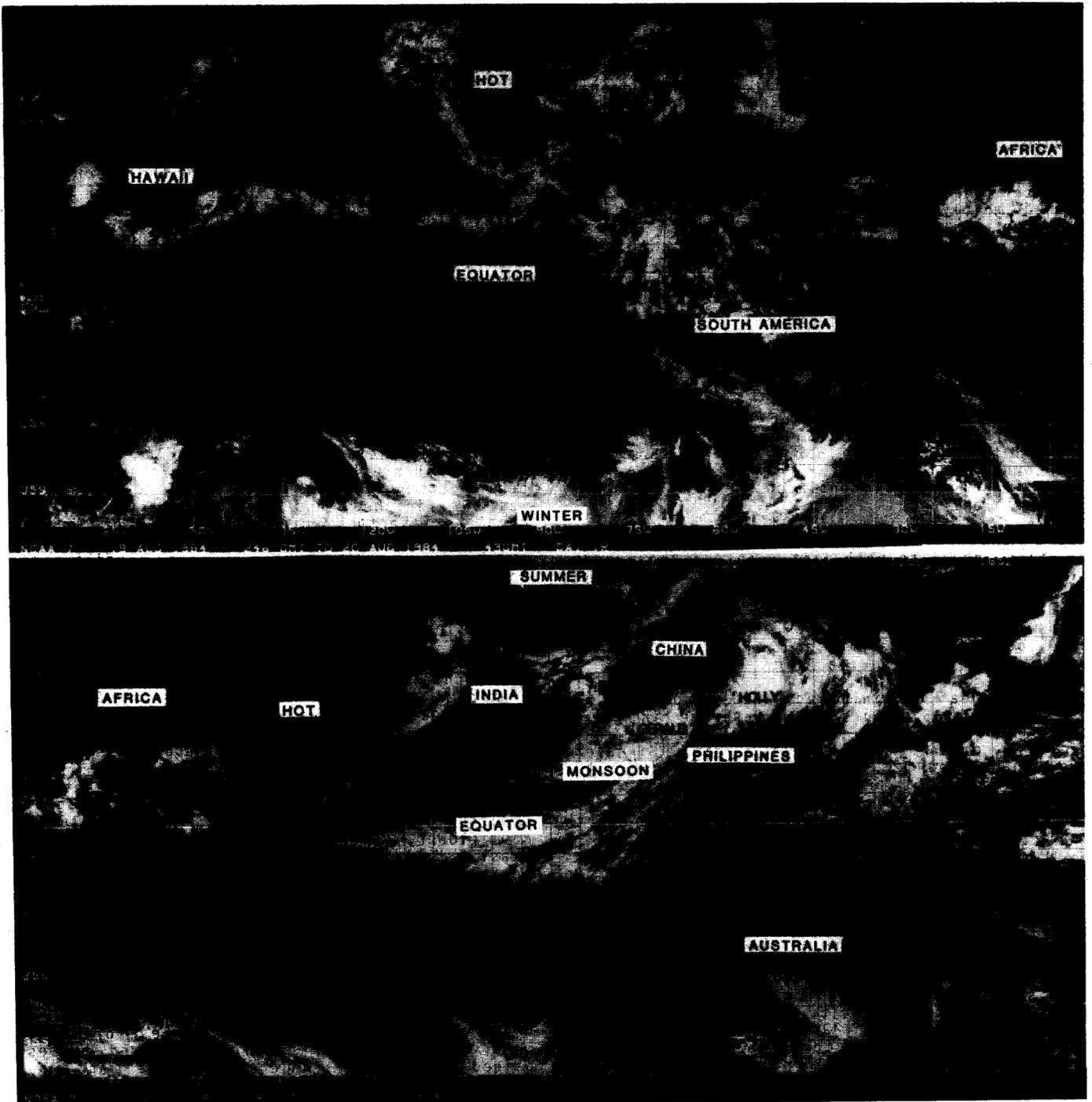
Weather Data for the Week Ending AUGUST 18, 1984

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 JUNE 8	PCT. NORMAL SINCE JUNE 8	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	82	62	86	60	72	-1	.2	-.5	.1	6.0	66	21.6	91	85	46	0	0	2	0
TOLEDO	83	60	87	52	72	-1	.5	-.3	.3	6.9	80	20.6	98	97	56	0	0	4	0
YOUNGSTOWN	83	63	87	59	73	-1	.5	-.3	.5	9.7	101	24.2	98	91	49	0	0	1	0
OK OKLAHOMA CITY	95	69	103	66	82	4	0	-.5	0	4.4	54	14.0	67	70	28	7	7	0	0
TULSA	94	71	103	68	83	1	0	-.6	0	3.6	37	28.3	112	82	35	7	0	0	0
OR ASTORIA	70	51	72	44	61	0	0	-.3	0	4.1	97	35.2	92	91	57	0	0	1	0
BURNS	86	46	88	41	66	-1	0	-.2	0	1.5	95	6.3	150	82	71	0	0	0	0
MEDFORD	88	54	93	47	71	0	0	-.1	0	.9	82	7.1	66	82	27	3	0	0	0
PENDLETON	84	59	92	53	72	0	0	-.1	0	1.2	96	8.1	111	58	23	1	0	0	0
PORTLAND	81	58	86	54	70	2	0	-.3	0	4.1	164	19.7	95	82	35	0	0	0	0
SALEM	81	51	87	46	66	0	0	-.2	0	4.2	223	23.3	105	92	37	0	0	0	0
PA ALLENTOWN	85	68	89	59	76	4	.3	-.7	.3	15.9	157	40.7	146	91	57	0	0	1	0
ERIE	80	66	83	59	73	4	.4	-.7	.1	7.5	81	22.0	93	86	59	0	0	2	0
HARRISBURG	86	70	92	67	78	3	.2	-.5	.1	8.8	100	33.7	136	100	33	1	0	3	0
PHILADELPHIA	85	69	89	64	77	1	.6	-.4	.6	12.6	124	34.9	130	85	52	0	0	1	1
PITTSBURGH	81	62	84	57	71	1	.9	-.2	.6	8.4	92	23.3	93	87	53	0	0	2	1
SCRANTON	83	65	86	54	74	3	.4	-.3	.4	11.1	127	28.6	130	94	55	0	0	2	1
RI PROVIDENCE	82	67	89	58	75	3	.2	-.8	.2	9.8	120	37.5	135	94	61	0	0	0	0
SC CHARLESTON	91	74	94	71	83	3	.3	-1.1	.2	8.2	46	35.7	99	92	51	5	0	3	0
COLUMBIA	91	70	94	68	80	0	.3	-.9	.3	16.2	123	38.6	113	99	53	6	2	0	0
FLORENCE	90	71	92	68	80	0	0	-1.1	0	13.2	100	35.5	116	99	55	5	0	0	0
GREENVILLE	85	69	87	65	77	-1	1.3	-.5	.6	20.1	185	49.3	145	94	62	0	0	5	1
SD ABERDEEN	89	62	96	51	76	5	.2	-.2	.2	8.6	128	15.9	118	95	36	3	0	1	0
HURON	89	67	96	61	78	5	.9	-.5	.6	15.9	234	23.8	170	90	41	3	3	3	1
RAPID CITY	90	64	98	61	77	5	.4	-.1	.2	7.0	113	12.7	98	76	32	3	0	3	0
SIoux FALLS	86	66	92	63	76	4	.3	-.4	.1	10.6	130	22.6	134	87	51	3	2	2	0
TN CHATTANOOGA	87	68	91	64	78	-1	.3	-.4	.2	11.0	113	35.3	102	93	53	1	0	2	0
KNOXVILLE	84	65	86	63	75	-2	.6	-.1	.5	14.7	145	38.6	120	99	57	0	0	2	1
MEMPHIS	89	74	91	72	82	-1	.1	-.8	0	9.1	93	35.7	102	93	58	4	0	2	0
NASHVILLE	86	69	88	66	78	-1	.1	-.7	.1	12.3	130	39.7	121	88	48	0	0	0	0
TX ABILENE	92	69	98	66	81	-3	.9	-.4	.9	5.2	87	7.7	53	73	31	6	0	2	1
AMARILLO	87	61	92	59	74	-3	.1	-.7	.1	8.8	110	11.8	85	90	38	2	0	0	0
AUSTIN	97	72	103	70	84	-1	.1	-.4	.1	3.2	54	9.7	50	84	33	0	0	2	0
BEAUMONT	89	73	92	70	81	-2	.2	-1.0	.1	8.5	68	32.0	100	98	61	3	0	0	0
BROWNSVILLE	95	75	97	72	85	1	0	-.6	0	4.8	87	16.3	129	92	42	7	0	0	0
CORPUS CHRISTI	93	72	97	70	83	-2	.1	-.7	.1	1.4	20	10.0	62	86	45	6	0	1	0
DEL RIO	95	74	98	69	85	-1	.5	-.2	.5	1.9	44	6.2	61	72	27	7	1	1	1
EL PASO	88	69	92	63	79	-2	.8	-.6	.7	9.2	318	10.4	233	80	39	2	0	3	1
FORT WORTH	96	71	104	67	83	-3	1.2	-.8	1.1	4.7	87	17.9	92	83	30	6	2	2	1
GALVESTON	86	76	93	74	81	-2	.2	-.7	.1	4.9	52	15.5	68	90	62	1	0	3	0
HOUSTON	92	71	97	68	81	-2	.2	-.6	.1	7.7	83	22.0	80	86	44	5	0	3	0
LUBBOCK	88	65	91	63	76	-2	.1	-.5	.1	8.0	125	9.1	76	84	42	2	0	1	0
MIDLAND	90	65	94	63	77	-4	.1	-.3	.1	5.2	127	9.2	108	75	32	4	0	1	0
SAN ANGELO	93	68	98	64	80	-3	.1	-.4	.1	3.7	93	7.8	73	79	32	6	0	1	0
SAN ANTONIO	94	71	98	69	83	-2	2.7	2.1	1.1	4.1	66	12.3	70	85	34	7	4	3	2
VICTORIA	90	73	96	72	81	-3	2.4	1.7	1.8	7.2	84	17.4	82	99	57	0	0	1	1
WACO	95	71	103	67	83	-3	1.2	-.8	1.1	4.8	90	14.3	73	85	41	6	2	1	1
WICHITA FALLS	94	69	102	68	82	-3	.8	-.4	.8	5.0	84	9.5	55	89	34	6	0	1	1
UT BLANDING	88	60	90	56	74	3	.1	-.3	.1	2.7	116	5.0	77	76	35	1	0	1	0
CEDAR CITY	87	59	93	57	73	1	1.0	-.7	.5	5.4	235	9.7	147	90	36	2	4	1	1
SALT LAKE CITY	88	67	91	62	77	2	.8	-.6	.4	4.5	205	13.3	129	85	40	2	0	3	0
VT BURLINGTON	81	62	89	48	72	4	.2	-.7	.1	8.4	90	23.6	113	74	41	0	0	3	0
VA NORFOLK	88	72	89	69	80	2	1.3	-.2	1.1	10.5	89	36.6	124	93	54	0	0	2	1
RICHMOND	88	68	91	65	78	1	2.3	1.1	1.4	10.1	85	37.2	131	96	56	2	0	3	2
ROANOKE	85	65	88	61	75	0	.4	-.5	.3	12.6	139	31.6	124	95	55	0	0	2	0
WA COLVILLE	85	53	91	45	69	2	.1	-.2	.1	6.3	221	17.2	165	73	34	1	0	1	0
QUILLAYUTE	69	51	72	40	60	1	.2	-.4	.2	3.9	57	65.1	114	97	60	0	0	2	0
SEATTLE-TACOMA	76	57	81	51	66	2	.1	-.2	.1	3.0	108	20.6	100	82	41	0	0	2	0
SPOKANE	86	57	93	49	72	3	.1	-.1	0	2.7	130	10.6	106	66	22	2	0	0	0
YAKIMA	84	52	91	43	68	-1	0	-.1	0	1.6	179	5.3	112	79	27	1	0	0	1
WV BECKLEY	77	60	80	56	69	-1	.5	-.3	.5	13.1	125	28.9	100	100	66	0	0	2	1
CHARLESTON	84	66	89	62	75	1	.6	-.3	.6	10.2	91	25.0	85	94	53	0	0	2	1
HUNTINGTON	85	65	90	62	75	1	1.7	-.9	1.3	9.1	88	24.3	87	89	49	1	0	2	1
PARKERSBURG	85	67	86	63	76	2	.1	-.7	.1	7.2	65	20.7	69	94	47	0	0	2	0
WI GREEN BAY	79	59	83	54	69	2	.1	-.6	.1	10.9	133	20.1	110	98	57	0	0	1	0
LA CROSSE	83	63	91	59	73	2	.1	-.8	.1	12.0	118	21.2	103	96	52	1	0	1	0
MADISON	83	59	89	55	71	2	.1	-.9	.1	10.2	103	20.1	97	91	52	0	0	0	0
MILWAUKEE	80	64	88	55	72	3	0	-.7	0	8.7	98	21.8	107	80	53	0	0	0	0
MAUSAU	79	62	85	56	71	3	.1	-.8	.1	14.8	144	23.9	115	95	58	0	0	2	0
WY CASPER	88	56	93	52	72	3	.1	-.1	.1	3.8	143	10.6	127	81	26	3	0	1	0
CHEYENNE	81	56	83	51	68	1	.7	-.4	.5	6.7	142	13.8	135	97	45	0	0	3	1
LANDER	85	62	91	60	74	5	.6	-.5	.6	4.2	105	10.9	114	69	33	0	0	1	0
SHERIDAN	90	61	97	53	76	7	.1	-.2	.1	3.9	105	10.8	101	68	26	4	0	0	0
PR SAN JUAN	91	75	93	73	83	1	.2	-1.2	.1	11.7	91	22.3	75	88	53	6	0	3	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

TROPICAL WEATHER

August 21



National Agricultural Summary

August 13 to 19

HIGHLIGHTS: Showers benefited crops across much of Texas but some dry areas still remain. The Corn Belt received only light showers in the eastern portions, while many western areas received little or no precipitation. More rain across the Corn Belt would benefit corn which was mostly in the dough stage of development, and soybeans which were setting pods. Small grain harvesting advanced rapidly across the northern Plains, until midweek showers slowed progress in some areas. Crop stress continued in Montana as the drought intensified. Soil moisture continued short to mostly adequate across the Corn Belt, mostly short in portions of the southern and northern Plains, and generally adequate elsewhere in the Nation. Farmers nationwide had generally 4-6 days suitable for fieldwork.

Winter wheat combining was 95% complete, and confined mostly to the Northwest. Spring wheat harvesting was 60% complete, 15 points ahead of average. Corn was 98% silked, and 61% was in the dough stage. Harvesting gained momentum in the South. Ninety-one percent of soybean acreage bloomed, and 69% set pods. Ninety-one percent of the cotton acreage set bolls, equal to the average. Sorghum was in fair to good condition with 73% of the acreage headed. Rice was 69% headed and 18% harvested. Maturity and harvest were slightly behind average. Harvesting of summer vegetable continued, while fall vegetable planting gained momentum. Fruit picking was active in the Northeast and Northwest. Pastures and ranges continued to deteriorate in portions of the Plains and Corn Belt because of increasing dry conditions. Livestock continued in fair to mostly good condition.

SMALL GRAINS: Winter wheat harvesting reached 95% completion, equal to both last year and the average in the 15 major producing States. Combining was finished except in the northern-most producing areas. Harvesting moved rapidly, but trailed the average by 10 points in Oregon, 6 points in Idaho, and 4 points in Washington. Plowing for fall seeding was active, reaching 17% finished in Indiana.

Spring wheat combining advanced 35 points last week, and was 15 points above average in the 5 major producing States. Sixty percent was harvested, compared with 67% last year. Minnesota growers harvested 42% of their acreage during the week, South Dakota producers harvested 33%, and Montana growers combined 30%. The harvest advanced only 13 points in Idaho and 27 points in North Dakota.

CORN: Corn conditions declined slightly in portions of the Plains and Corn Belt because of limited rainfall. However, conditions continued mostly good across much of the Nation. In the 17 major producing States, 98% of the crop had silked, and 61% was in or past the dough stage, both virtually equaling the average. Hot, dry weather pushed stands towards maturity across much of the Great Plains and Corn Belt. Harvesting increased in the South, and was 29% finished in Georgia. Sixty-two percent of the corn was mature in South Carolina, 34% was mature in North Carolina, and 16% was mature in Virginia.

SOYBEANS: Soybeans were rated fair to mostly good across the Nation. Scattered showers benefited soybeans in portions of the Delta States, and from the Southeast northward. In the 18 major producing States, 91% of the acreage was blooming and 69% was setting pods, both equal their averages. More rain would aid crop development across much of the Corn Belt.

SORGHUM: Hot, dry weather continued to stress sorghum across portions of Kansas and Oklahoma. Conditions were fair to good in the major producing areas. The 7 major producing States reported 73% of the acreage headed, 1 point behind the average. Heading trailed the average in Nebraska, South Dakota, and Texas. Grain sorghum on the Texas Plains was in the late bloom to soft dough stage. Elsewhere in the State, harvesting activities were winding down. Some abandonment was reported in the Cross Timbers area.

COTTON: Cotton continued in mostly good condition. Ninety-one percent of the acreage set bolls, 4 points ahead of last year but equal to the average. Open bolls were present on 35% of the acreage in Arizona. Rain caused above normal fruit shedding and increasing insect and weed problems. California cotton growth was enhanced by good weather. Bolls opened rapidly with hot temperatures in the Texas Blacklands. Harvesting will begin soon in this area. Showers slowed harvesting progress in the Rio Grande Valley and maintained new growth on the High Plains.

OTHER CROPS: Rice was in good condition. In the 5 major States, heading was 69% complete, 5 points behind average. Harvesting was 66% finished in Texas, and 44% complete in Louisiana. Combining had not started elsewhere.

Tobacco was in fair to mostly good condition. Topping and harvesting gained momentum. Harvesting was 79% complete in Georgia. Flue-cured tobacco was 51% harvested in North Carolina, 9 points behind schedule. In Virginia, fire-cured tobacco was 26% finished, and sun-cured harvesting was 8% complete. Kentucky producers cut 4% of the burley crop.

Peanuts were in mostly good condition. Wet conditions in portion of the Southeast caused concern for possible disease problems. Texas peanuts benefited from rains on the Plains, but irrigation was heavy elsewhere.

VEGETABLES: Hot weather stressed vegetable crops in Michigan. Harvesting of summer vegetables continued active in northern areas. Planting of fall vegetables was in full swing. Florida producers planted or transplanted cabbage, cucumbers, celery, eggplant, peppers, sweet corn, and tomatoes. Planting of other crops is expected in early September. Fall vegetable planting was active in Texas, some crops were up and growing. California growers harvested light volumes of cauliflower, celery, and lettuce along the central coast. Market tomato picking was active along the south coast and in the San Joaquin Valley. Processing tomato harvesting was past peak volumes.

FRUITS AND NUTS: Peach picking neared completion in the Southeast, and increased in the Northeast. Picking of early apple varieties increased in the Northeast. In California, producers harvested decreasing volumes of stonefruits. Raisin grape producers prepared for the upcoming harvest. Wine grape picking was several weeks ahead of schedule; many wineries began crushing. Almond harvesting gained momentum. Valencia orange and summer grapefruit harvests continued. Florida's citrus crop showed some early signs of color break. Groves were in very good condition with generally adequate moisture.

PASTURES AND LIVESTOCK: Pasture and ranges were in fair condition across portions of the Plains and Corn Belt, and mostly good elsewhere in the Nation. Texas livestock producers bought baled sorghum

(continued to p. 8)

CROP PROGRESS

FOR WEEK ENDING AUG 19

	WINTER WHEAT % HARVESTED		
	1984	1983	AVG.
CALIF	99	100	100
COLO	94	93	95
IDAHO	38	36	44
ILL	100	100	100
IND	100	100	100
KANS	100	100	100
MO	100	100	100
MONT	90	75	65
NEBR	100	100	100
OHIO	100	100	100
OKLA	100	100	100
OREG	76	92	86
S DAK	100	100	100
TEX	100	100	100
WASH	74	82	78
15 STATES	95	95	95

THESE 15 STATES PRODUCED 84% OF THE 1983 WINTER WHEAT CROP.

	CORN % SILKING		
	1984	1983	AVG.
COLO	91	90	90
GA	100	100	100
ILL	100	100	100
IND	100	99	99
IOWA	100	100	100
KANS	100	97	97
KY	98	90	95
MICH	95	96	98
MINN	98	99	99
MO	100	100	97
NEBR	100	100	100
N C	100	100	100
OHIO	96	100	99
PA	93	88	94
S DAK	83	93	98
VA	91	93	94
WIS	93	98	97
17 STATES	98	98	99

THESE 17 STATES PRODUCED 90% OF THE 1983 CORN CROP.

	CORN % DOUGH		
	1984	1983	AVG.
COLO	59	41	37
GA	99	100	100
ILL	78	80	80
IND	70	65	75
IOWA	52	52	52
KANS	75	45	65
KY	73	56	77
MICH	40	40	53
MINN	41	42	35
MO	82	78	75
NEBR	75	65	60
N C	85	91	92
OHIO	65	65	60
PA	34	38	49
S DAK	34	39	43
VA	78	76	80
WIS	37	47	47
17 STATES	61	60	61

THESE 17 STATES PRODUCED 90% OF THE 1983 CORN CROP.

	SPRING WHEAT % HARVESTED		
	1984	1983	AVG.
IDAHO	22	12	26
MINN	67	78	53
MONT	55	50	25
N D	57	66	40
S DAK	81	96	90
5 STATES	60	67	45

THESE 5 STATES PRODUCED 94% OF THE 1983 SPRING WHEAT CROP.

	RICE % HEADED		
	1984	1983	AVG.
ARK	48	56	67
CALIF	70	40	55
LA	93	81	88
MISS	70	62	73
TEX	100	100	100
5 STATES	69	65	74

THESE 5 STATES PRODUCED 98% OF THE 1983 RICE CROP.

	RICE % HARVESTED		
	1984	1983	AVG.
ARK	0	0	2
CALIF	0	0	0
LA	44	17	39
MISS	0	0	0
TEX	66	48	79
5 STATES	18	10	20

THESE 5 STATES PRODUCED 98% OF THE 1983 RICE CROP.

	SORGHUM % HEADED		
	1984	1983	AVG.
COLO	66	52	56
KANS	60	50	55
MO	86	77	76
NEBR	80	80	85
OKLA	85	60	70
S DAK	63	66	74
TEX	81	84	90
7 STATES	73	68	74

THESE 7 STATES PRODUCED 85% OF THE 1983 SORGHUM CROP.

	SOYBEANS % BLOOMING		
	1984	1983	AVG.
ALA	77	83	86
ARK	66	67	68
GA	85	89	91
ILL	100	100	98
IND	99	99	98
IOWA	100	99	98
KANS	85	90	80
KY	73	71	75
LA	95	78	87
MICH	95	100	98
MINN	98	98	99
MISS	85	82	89
MO	85	86	81
NEBR	98	100	100
N C	76	73	74
OHIO	100	97	97
S C	76	74	82
TENN	87	87	90
18 STATES	91	90	91

THESE 18 STATES PRODUCED 93% OF THE 1983 SOYBEAN CROP.

	SOYBEANS % SETTING PODS		
	1984	1983	AVG.
ALA	56	55	62
ARK	44	34	40
GA	61	61	62
ILL	85	88	84
IND	75	75	70
IOWA	90	93	89
KANS	70	50	55
KY	32	24	40
LA	76	56	66
MICH	70	80	76
MINN	93	87	86
MISS	44	37	53
MO	60	65	57
NEBR	70	93	90
N C	41	38	41
OHIO	80	70	80
S C	36	36	47
TENN	37	33	54
18 STATES	69	68	69

THESE 18 STATES PRODUCED 93% OF THE 1983 SOYBEAN CROP.

	COTTON % SETTING BOLLS		
	1984	1983	AVG.
ALA	98	94	93
ARIZ	99	100	100
ARK	99	100	98
CALIF	96	90	92
GA	96	100	100
LA	100	91	97
MISS	96	96	97
MO	100	89	92
N MEX	99	86	91
N C	91	87	92
OKLA	70	70	70
S C	95	100	100
TENN	94	94	94
TEX	87	82	88
14 STATES	91	87	91

THESE 14 STATES PRODUCED 99% OF THE 1983 COTTON CROP.

State Summaries of Weather and Agriculture

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

ALABAMA: Temperatures averaged 1 to 3° below normal. Rainfall 0.01 to 1.67 in.

Soil moisture adequate to surplus over State. Fieldwork: 4.8 days. Corn dented 90%, 87% 1983. Corn mature 65%, 55% 1983, 73% average. Corn harvested 16%, 15% 1983, 29% average. Soybeans blooming 77%, 83% 1983, 86% average. Soybeans setting pods 56%, 55% 1983, 62% average. Cotton setting bolls 98%, 94% 1983, 93% average. Activities: Harvesting corn, vegetables, and fruits; cutting hay and silage; pest control in field crops; and routine care of livestock and poultry. Conditions: Corn, cotton, soybeans, peanuts, sorghum, pasture, and livestock mostly good.

ALASKA: No report available.

ARIZONA: Monsoon continued in full force. Numerous heavy showers, thunderstorms, strong gusty winds with local wind damage, flash flooding. Weekly totals varied greatly, most amounts 0.50 to 2.00 in. Kingman drenched with 3.48 in., Organ Pipe Cactus National Monument with 3.35 in. Maximum temperatures mostly 2 to 5° below seasonal normals. Averages varied from 4° below normal to 1° above. Cotton setting bolls: 99%, 100% last year and average. Open bolls present in 35% acreage. Rains continued to increase growers problems. Fruit shedding above normal, insect population, weeds greater concern. Budworms, bollworms caused some damage. Rain hampered alfalfa cutting. Market steady, moderate volumes traded. Corn, sorghum good condition. Apple picking in Willcox area. Watermelon harvest winding down. Fall lettuce planting well underway in Yuma area. Lemon picking continued limited scale, volume expected by September 1. Other citrus developing normally.

ARKANSAS: Widely scattered showers fell across the State with heaviest activity southeast early in the week. Temperatures 3° above normal north to 3° below south. High 102°, low 56°. Most rain 1.88 in., several locations none.

Soil moisture below adequate overall. Too wet south, dry west. Days favorable for fieldwork: 5.6.

Rice good condition; headed 48%, 56% 1983, 67% average; none harvested this year and 1983, below 5% average. Soybeans good condition; blooming 66%, 67% 1983, 68% average; setting pods 44%, 34% 1983, 40% average; yellowing none this year and 1983, 5% average. Cotton good; open bolls just starting, 6% 1983, 3% average. Corn good; harvested 1%, 5% 1983, 9% average. Sorghum good; harvest just begun, 0-1983, 10% average. Pastures furnishing below average grazing north, 0% south.

CALIFORNIA: Weekly mean temperatures again above normal statewide, although middle portion of the Sacramento Valley a couple of degrees below normal. Most divisions reported 100° plus temperatures. Exceptions were Cascade-Siera and the south coast. The south coast showed the largest departure from normal, 6°. Rainfall was virtually nonexistent statewide except for the south coast where showers dropped nearly 0.50 in. on a couple of localities.

Good weather enhanced cotton, 96% setting bolls, 90% last year, 92% average. High yields

expected. Field corn good progress, grain drying, silage harvested. Rice fields drying, tipping; 70% headed, 40% last year, 55% average, 0% harvested, 0% last year and average. Watergrass lodging some fields. Fall sugarbeets dug. Alfalfa cut, seed alfalfa harvest began. Sorghum heading, good development. Dry beans beat affected, some growers delaying harvest. Blackeyes mature, those harvested good quality. Barley harvest complete. Ground prepared for fall planting. Apple harvest continues; weather conditions slowed sizing. Harvest Hass Avocados continues, hail damage noted Riverside County. Date crop progressing well, some rain, hail damage reported. Fig harvest underway. Most raisin grape growers preparing ground for upcoming harvest. Table grape harvest continues. Wine grape harvest several weeks ahead of normal. Many wineries started to crush. Harvest of stonefruits continues, winding down. Pear harvest includes Bartletts on north coast, Asians in southern San Joaquin Valley. Pomegranates being packed. Prune harvest full swing most areas, good sugar, quality reported. Valencia orange, summer grapefruit harvests continue, good quality, yields. Almond harvest gaining momentum. Growers still applying last Navel Orange Worm spray. Walnuts treated for huskfly. Broccoli, moderate supply Salinas-Watsonville. fairly heavy Santa Maria. Cantaloupe harvest active but lighter San Joaquin Valley, west Riverside County. Cauliflower light supply central coast, south bay. Celery fairly light harvest central coast. Lettuce supplies fairly light central coast. Summer potato harvest active. Digging sweetpotatoes for direct shipping. Market tomato harvest active south coast, San Joaquin Valley. Fall tomato fields growing well. Processing tomato harvest active, appears to be past peak volume. Range normal. Supplemental feeding required some areas. Fire danger high.

COLORADO: Moist, unstable air mass brought widely scattered showers and thunderstorms each afternoon and evening averaging about 0.20 in. of precipitation. Temperatures 2 to 4° above normal.

Winter wheat harvest nearing completion at 94%, 1983 93%, average 95%. Corn silking at 91%, 1983 and average, 90%, 59% in dough stage; 1983 41%, average 37%. Sorghum in good condition with 66% headed; 1983 52%, average 56%. Turning color is at 5%, 1983 4%, average 3%. Alfalfa 2nd cutting 69% complete; 1983 67%, average 74%; third cutting 21% complete, 1983 12%, average 20%. Spring barley harvest at 60%, 1983 53%, average 60%. Spring wheat harvest 17% complete, 1983 8%, average 25%. Summer potato harvest at 19%, 1983 5%, average 13%. Dry beans 91% flowered; 1983 80%, average 83%. Onions 4% harvested, 1983 5%, average 7%. An average of 6.0 days were suitable for fieldwork.

FLORIDA: Drier than usual summertime conditions continued until low pressure developed over north late week. Rainfall mostly less than normal except along lower east coast. Temperatures remained slightly above normal.

Soil moisture mostly adequate south, Panhandle; short central, north. Corn harvest active with yields about average. Soybeans need rainfall many locations; insect populations increasing. Cotton crop making good progress. Peanuts mostly good condition; some disease

problems reported. Hay making active in drier areas. Sugarcane growing rapidly. Pastures mostly good to excellent; however, conditions, mostly in some northern localities, have declined slightly due to less than normal rainfall. Cattle remain in mostly good to excellent condition. Most citrus groves in very good condition. Moisture generally adequate; however, few areas dry. Abundant new foliage. New crop fruit progressing well. Some early bloom fruit showing signs of color break. Normal summer weather with hot days, warm nights, afternoon thunderstorms prevailed in vegetable areas. Moisture remained adequate. Land preparation, laying plastic continued very active. Seeding and transplanting increasing for celery, eggplant, peppers, tomatoes. Planting cucumbers, cabbage underway. Seeding sweet corn continued in Everglades. Plantings expected to start in early September most other vegetables.

GEORGIA: Temperatures averaged under 70's north, low 80's elsewhere. Averages slightly below normal north and 1 or 2° above normal elsewhere. Rainfall totals quite variable, some locations reporting under 0.10 in., others more than 1.00 in. Heaviest totals in mountains and southeast where 1.00 to 3.00 in. fell.

Soil moisture 6% surplus, 69% adequate, 22% short. Average days suitable for fieldwork: 5.5. Main activities spraying for insects and disease, harvesting and haying. Corn dough 99%, 100% last year and average; dent 93%, 96% last year, average 98%; mature 83%, 84% last year, average 90%; 29% harvested, 27% last year, average 42%; condition 9% excellent, 62% good, 25% fair, 4% poor. Cotton setting bolls 96%, 100% last year and average; bolls open 9%, 11% last year, 18% average; condition 7% excellent, 72% good, 21% fair. Soybeans blooming 85%, 89% last year, 91% average; condition 9% excellent, 75% good, 15% fair. Tobacco 79% harvested, 84% last year, 88% average; condition 8% excellent, 60% good, 29% fair. Watermelons 95% harvested, 96% last year, 97% average; condition 47% good, 39% fair, 11% poor. Apples 44% harvested this year and last, 49% average; condition 8% excellent, 68% good, 24% fair. Peaches 99% harvested this year and last, 100% average. Peanut condition 11% excellent, 81% good, 7% fair. Grain sorghum condition 6% excellent, 70% good, 23% fair. Pecan condition 4% excellent, 71% good, 23% fair. Hay condition 11% excellent, 73% good, 12% fair. Pastures 13% excellent, 74% good, 12% fair. Cattle 5% excellent, 85% good, 9% fair. Hogs 3% excellent, 80% good, 14% fair.

HAWAII: Favorable weather prevailed at the northern and southern end of the Island Chain, but the middle islands continued to receive hot, dry summer weather.

Irrigation restrictions were lifted in the major vegetable region of Waimea on Hawaii Island, the southern most Island. Water restrictions on Oahu, however, will continue into September. Temperatures reached record high levels on 17th and 19th. Most crops in fair to good condition. Head cabbage production will remain moderately steady for the next two weeks. Head lettuce reduction anticipated to maintain its relatively higher level. Supplies of most other vegetables will be light. Papaya production on a seasonal upswing.

IDAHO: Shifting weather patterns brought thundershowers to the south central and eastern portions of the State. The eastern part of the State received the heaviest amounts with

departures averaging 0.83 in. above normal. Temperatures remained warm with departures ranging from 2 to 4° above normal statewide.

Harvesting of small grains continued to progress well as 6.0 days were suitable for fieldwork. Winter wheat was 38% harvested compared to 36% last year and 44% average. Spring wheat was 22% harvested versus 12% in 1983 and 26% average. Spring barley advanced to 19% harvested compared to 16% a year ago and 28% average. The second cutting of alfalfa hay continued to run ahead of last year at 68% harvested versus 51% in 1983 and 69% average. Potatoes were turning on over 10% of the acreage compared to 21% last year. The dry pea crop was 36% harvested versus 46% a year ago and 44% average. Sweet corn harvest was just underway with less than 10% of the crop in.

ILLINOIS: Temperatures 5° below normal to 2° above normal. Precipitation none to 2.65 in.

Soil moisture 5% adequate, 95% short. Corn in dough 78%, last year 80%, average 80%; dented 23%, last year 32%, average 40%. Corn condition 5% excellent, 56% good, 35% fair, 4% poor. Soybeans blooming 100%, last year 100%, average 98%; setting pods 85%, last year 88%, average 84%; turning yellow 2%, last year 4%, average 3%. Soybean condition 4% excellent, 42% good, 50% fair, 4% poor. Alfalfa third crop cut 57%, last year 48%, average 48%. Alfalfa condition 4% excellent, 49% good, 40% fair, 7% poor. Pasture condition 1% excellent, 19% good, 48% fair, 28% poor, 4% failure. Days suitable for fieldwork: 6.8.

INDIANA: Temperatures averaged near normal. Extremes from mid 90's to mid 40's. Growing degree days ranged from 140 to 175. Rainfall spotty, accumulations from less than 0.10 in. to nearly 2.00 in. within southwest and south central areas. In other areas isolated totals in excess of 1.00 in. but most less than 0.50 in.

Fieldwork averaged 6.6 days. Topsoil moisture mostly short. Subsoil moisture short to adequate. Wheat 100% harvested, 1983 100%, average 100%. Corn condition fair to good. Corn 100% silking, 1983 99%, average 99%. Corn 70% in dough, 1983 65%, average 75%. Soybeans 99% blooming, 1983 99%, average 98%. Soybeans 75% podding, 1983 75%, average 70%. Wheat land 17% plowed, 1983 16%, average 7%. Pastures fair.

IOWA: A warm, dry week. Scattered light rain fell over the north at midweek and primarily 17th to 18th east. Southwest continued drier than normal for 9th consecutive week.

Days suitable for fieldwork: 6.5. Corn crop condition 15% excellent, 60% good, 20% fair, 5% poor to very poor. Corn in or past milk stage 83% complete; 89% last year; 89% normal. Corn acreage in dough stage 52% complete; 52% last year; 52% normal. Corn in dent stage 13% complete; 14% last year, 14% normal. Soybean crop condition 14% excellent, 56% good, 23% fair, 7% poor to very poor. Soybean acreage setting pods 90%; last year 93%; normal 89%. Second crop of alfalfa 96% complete; 100% last year; 100% normal. Third crop alfalfa 20% complete; 25% last year; 34% normal. Second crop clover hay harvested 82%; 85% last year; 87% normal. Hay crop condition, 11% excellent, 51% good, 27% fair, 11% poor to very poor. Topsoil moisture conditions 15% adequate, 85% short. Subsoil moisture conditions 69% adequate, 31% short. Livestock mostly good to fair condition. Pasture conditions 5% excellent, 21% good, 47% fair, and 27% poor to very poor.

KANSAS: Temperatures averaged 3 to 5° above normal except southwest (2° above normal) and northeast (7° above normal). Average values ranged from 79 to 84°. Precipitation was confined to isolated thunderstorms over the west half. A few very localized rainfall totals up to 0.50 in. Averages were 0.03 and 0.01 in. southwest and south central but zero elsewhere.

Wheat 100% harvested, 100% last year, 100% average. Sorghum 60% headed, 50% last year, 55% average. Greenbugs, moderate levels. Corn 100% silked, 97% last year, 97% average. Corn 75% dough, 45% last year, 65% average. European corn borer, moderate levels, second generation south central district. Soybeans 85% blooming, 90% last year, 80% average. Soybeans 70% setting pods, 50% last year, 55% average. Grasshoppers damaging alfalfa fields, especially northeast district. Topsoil moisture short, subsoil short except western third. Pasture and rangeland poor to good. Days suitable for fieldwork: 7.0.

KENTUCKY: Seasonable temperatures, highs reached 90° mark with lows in 60's. Rainfall below normal. Heaviest rain, more than 1.00 in., fell in central sections, while less than 0.10 in. reported in east.

Soil moisture 73% short, 27% adequate. Days suitable 5.8. Corn mostly good condition; 98% silked or beyond, 90% last year, average 95%; 73% dough or beyond, 56% last year, 77% average; 30% dent or beyond, 18% last year, 39% average. Soybeans good to fair condition. Need rain, especially double cropped acreage; 73% blooming or beyond, 71% last year, 75% average; setting pods on 32% of acreage, 24% last year, 40% average. Burley tobacco 70% topped, 25% last year, 58% average; 4% burley cut, 3% last year, 6% average. Crop in mostly good to fair condition. Dark tobacco 85% topped, 6% cut, 3% last year, 10% average. Pastures, hay fair. Need rain. Grain sorghum mostly good.

LOUISIANA: Rainfall amounts ranged from none northwest to about 3.00 in. south central. Temperatures averaged from normal to 2° below normal. High 101°, low 64°.

Soil moisture adequate. Days suitable for fieldwork: 4.6. Activities included applying insecticides; planting fall vegetables; preparing land for sugarcane planting; cutting hay; and harvesting rice, corn, sorghum, sweetpotatoes, and vegetables. Rice headed 93% 1984, 81% 1983, 88% average; ripe 54% 1984, 37% 1983, 52% average; harvested 44% 1984, 17% 1983, 39% average; condition good. Corn mature 90% 1984, 84% 1983, 88% average; harvested 36% 1984, 22% 1983, 37% average; condition good. Cotton open bolls 2% 1984, 0% 1983, 8% average; condition good. Soybeans blooming 95% 1984, 78% 1983, 87% average; setting pods 76% 1984, 56% 1983, 66% average; leaves turning 3% 1984, 1% 1983, 1% average; condition good. Sorghum headed 99% 1984, 91% 1983, 95% average; turning color 84% 1984, 71% 1983, 75% average; ripe 46% 1984, 28% 1983, 42% average; harvested 21% 1984, 7% 1983, 19% average; condition good. Sweetpotatoes harvested 11% 1984, 9% 1983, 17% average; condition fair to good. Sugarcane condition fair to good. Vegetable condition fair to good. Hay final cutting 18% 1984, 11% 1983. Pasture and livestock condition good.

MARYLAND AND DELAWARE: **Maryland:** The week was warm and wet. Temperatures averaged 2 to 3° above normal.

Continued, timely rains have kept crops in good to excellent condition. Farmers worked 5.0

days harvesting vegetables, hay, corn silage, and tobacco. Field corn in good to excellent condition. Corn 95% silked, 95% last year and the average. Dough stage corn was at 65%, equal to 1983, average dough 70%. Dented corn at 15%, behind 1983's 25%, average of 35%. Corn silage harvest 5%, 10% 1983, average 15%. Soybeans 70% bloomed; 55% last year, average 70%. Podded beans 45%, 25% in 1983, average 40%. Tobacco bloom 70%, topped 30%, and harvested 10%. Second cutting of other hay 85% completed, 1983 and average 100%. Third cutting of alfalfa hay 85%, 65% 1983, average 75%. Potato and sweetpotato harvest 75% and 70% respectively. Watermelon 80% picked.

Delaware: The week was warm with nearly 0.50 in. of rain. Temperatures averaged 2 to 3° above normal. Rain averaged nearly 0.50 in. with heaviest amounts in the central area.

Field corn 95% silked; equal to 1983, 100% average silked. Dough 75%, last year 50%, average 75%. Dented corn 25%, equal to 1983, average 50%. Silage harvest 10%, zero 1983, on the average just starting. Soybean bloom 80%, last year 65%, average 75%. Podded beans 50%, last year 30%, average 40%. Third cutting of alfalfa hay 75%, last year 70%, average 80%. Fourth cutting of alfalfa hay 5%. Potatoes 75% dug, 90% 1983 and average. Watermelons 50% picked, 55% 1983 and average. Peaches 70% picked, 40% 1983.

MICHIGAN: Temperatures averaged 3° above normal. Precipitation was light to moderate over the State.

Hot humid weather was present during the week. Field crops remain under moisture stress throughout the State. Statewide 6.0 days were suitable for fieldwork. Oats 65% combined, 75% last year, 74% average. Corn 40% in dough, 40% last year, 53% average. Soybeans 70% setting pods, 80% last year, 76% average. Dry beans 60% setting pods, 80% last year, 83% average. Second cut hay 85% complete, 85% last year, 77% average. Second cut 85% complete, 85% last year, 77% average. Third cut hay has begun in southern portions of the State. Vegetable crops stressed by hot weather conditions. Tomatoes, sweet corn, and cucumber harvest progressing near normal.

MINNESOTA: Another week of warm dry weather. Temperatures averaged 4 to 7° above normal. High: 102°, low: 47°. Precipitation averaged 0.35 to 0.69 in. below normal. Greatest weekly total: 0.92 in.

The warm, dry weather was excellent for combining small grains and baling hay and straw, but most of the State was becoming dry. Only the southeast corner had adequate topsoil moisture. Row crops in most of the dry area have suffered from drought stress on the lighter soils, but little deterioration so far on soils with good water-holding capacity. Seedbeds were too dry for much seeding of winter grains to be done. Pastures were getting short and supplemental feeding increased. Days suitable for fieldwork: 5.9. Topsoil moisture: 29% very short, 33% short, 38% adequate. Field corn: In milk 91%, 1983 84%, normal 84%; in dough 41%, 1983 42%, normal 35%; denting 6%, 1983 7%, normal 6%; condition 8% poor, 37% fair, 41% good, 14% excellent. Soybeans: setting pods 93%, 1983 87%, normal 86%; condition 5% poor, 38% fair, 45% good, 12% excellent. Spring wheat harvested 67%, 1983 78%, normal 53%. Oats harvested 67%, 1983 90%, normal 74%. Barley harvested 88%, 1983 92%, normal 74%. Sunflowers blooming 89%, 1983 93%, normal 90%.

MISSISSIPPI: Temperatures slightly below normal, extremes 62 and 95°. Greatest 24-hour rainfall 2.60 in.

Fieldwork 3.8 days suitable, 5.9 1983, 5.1 average. Soil moisture adequate. Main activities, preparing equipment for harvest and weed and insect control measures. Cotton good to fair; 96% setting bolls 1984 and 1983, 97% average; 4% open bolls, 2% 1983, 8% average. Soybeans good; 85% blooming, 82% 1983, 89% average; 44% podding, 37% 1983, 53% average. Rice good to fair; 70% headed, 62% 1983, 73% average; 0% harvested 1984, 1983 and average. Sorghum good; 91% headed, 90% 1983; harvest less than 1%. Corn good to fair; 10% harvested, 11% 1983, 9% average. Hay harvest 69% completed, 77% 1983, 76% average. Watermelons 77% harvested; sorghum silage 33%; corn silage 48%. Peanuts 15% harvested, 4% 1983, 7% average. Sweetpotatoes 9% harvested, 1% 1983, 7% average. Peach condition good; 89% harvested, 90% 1983, 92% average. Pasture condition good.

MISSOURI: Hot, dry wather continued as temperatures averaged 2° above normal. precipitation was nearly non-existent with some isolated late week showers bringing little relief. Most rainfall reports were less than 0.50 in.

Days suitable for fieldwork: 6.6. Soybeans blooming or beyond 85%, 86% last year, 81% normal. Soybeans setting pods 60%, 65% last year and 57% normal. Condition of soybeans 22% good, 63% fair, 15% poor. Corn 82% in dough stage, 78% last year, 75% normal. Corn 48% in dent stage, 45% last year, 45% normal. Condition 17% good, 58% fair, 25% poor. Corn mature 3%, 10% last year, 9% normal. Grain sorghum headed or beyond 86%, 77% last year, 76% normal. Grain sorghum mature 12%, 5% last year, 13% normal. Condition 0% excellent, 37% good, 53% fair, 10% poor. Cotton with bolls opening 3%, 0% last year, 6% normal. Condition of cotton 8% excellent, 61% good, 23% fair, and 8% poor. Alfalfa hay 3rd cutting 57%, 59% last year, 60% normal. Condition of pasture 1% good, 24% fair, 75% poor. Topsoil moisture supply 3% adequate, 97% short.

MONTANA: Another very hot week. Temperatures averaged 3 to 7° above normal throughout western two-thirds, near 10° above normal in eastern third. Precipitation light statewide, except for north central area which remained very dry. Few heavy thundershowers over southeast at end of week left 0.50 in. to over 1.00 in. some areas.

Soil moisture short except southwest. Days suitable for fieldwork: 6.4. Crops headed and green or beyond compared with last year and average: Winter wheat headed 100, 100, 100; winter wheat turning 100; 100; 100; winter wheat ripe 100, 95, 95; winter wheat harvested 90, 75, 65; spring wheat headed 100, 100, 100; spring wheat turning 100, 100, 90; spring wheat ripe 90, 80, 55; spring wheat harvested 55, 50, 25; barley headed 100, 100, 100; barley turning 100, 100, 95; barley ripe 90, 85, 60; barley harvested 60, 45, 25; oats headed 100, 100, 100; oats turning 100, 100, 95; oats ripe 85, 80, 65; oats harvested 55, 55, 35. Second cutting alfalfa hay 55% complete, last year 55%, average 50%. Winter wheat seeding expected to start September 6. Grazing prospects good southwest, poor north central and northeast, fair elsewhere.

NEBRASKA: Hot, dry week. Temperatures 2 to 6° above normal. Rainfall very spotty, mainly in Panhandle and north central.

All corn mostly good to fair. Irrigated corn good. Dryland corn mostly fair to good. Dough 75%, 65% last year, 60% average. Dent 15%, 7% last year and 10% average. Sorghum good to fair. Headed 80%, 80% last year and 85% average. Soybeans good to fair. Blooming 98%, 100% last year and 100% average. Podding 70%, 93% last year and 90% average. Alfalfa mostly good to fair. Third cutting 20%, 35% last year and 45% average. Oat harvest 100%, comparisons not available. Topsoil moisture short, subsoil moisture mostly short to adequate. Pasture and range feed adequate to short. Days suitable for fieldwork were 6.9.

NEVADA: Temperatures averaged above normal all areas. Departure from normal greatest in northwest where dryer air allowed higher afternoon temperatures. Considerable thunderstorm activity northeast, central, and southern parts. The northwest remained dry. Scattered thundershowers slowed harvest of remaining acreages hay and small grains. Garlic harvest about completed.

NEW ENGLAND: Temperatures averaged 3 to 6° above normal. Precipitation early in the week occurred as showers and thunderstorms. Heavy rain on the 19th brought 2.72 in. to Augusta, ME.

Soil moisture condition rated short to adequate; grazing availability, adequate. An average of 6.0 days suitable for fieldwork. Rhode Island potato harvest 15% complete. Second cut hay 65% harvested; 70% last year and normal. Field corn growth excellent, condition rated good. Vegetable harvest in full swing. Cranberry bogs beginning to show color. Early apple harvest underway.

NEW JERSEY: Temperatures averaged 3° above normal. Extremes were 50° on the 19th and 94° on the 17th. Weekly rainfall averaged 0.40 in. north, 0.14 in. central and 0.23 in. south. The heaviest 24-hour total was 0.60 in. on the 14th and 15th. Estimated soil moisture, in percent of field capacity, averaged 70% north, 59% central and 54% south. Four inch soil temperatures averaged 73° north, 75° central and 77° south.

Fieldwork: 6.0 days suitable. Harvest of summer vegetables continues. Irish potato harvest has been light to date. Blueberry harvest virtually complete. Light peach harvest continues. Apple harvest of summer varieties active. Field corn and soybeans continue good development. Topsoil moisture supplies adequate.

NEW MEXICO: Average temperatures for week below normal most locations, minimum temperature: 41°, central valley and highlands. Maximum temperature: 94°, southeastern plains. Thundershower activity over some mountain areas and northeast. Weekly rainfall totals 0.00 to 2.92 in. Less precipitation in northwest.

Soil moisture supplies short to adequate. Alfalfa good to excellent condition; third and fourth cuttings continue. Cotton good condition; progress slowed by cooler temperatures. Corn good to excellent; mostly tasseled, over half in dough stage. Irrigated grain sorghum good; heading. Dryland grain sorghum fair; heading. Pecans good to excellent with light to average drop. Chile good condition; green chile harvest underway. Cattle fair to good. Sheep good to excellent. Range fair to good condition. Cotton setting bolls: 99%, last year 86%, average 91%.

NEW YORK: Temperatures averaged near normal although a trend towards cooler weather was

established by the end of the week. Rainfall was heavy from the St. Lawrence Valley, Mohawk Valley and the central southern tier, west to the Great Lakes. Below normal rainfall was the rule over the eastern portion of the State.

Recent rains have given the crops a boost but have also delayed harvesting of small grains and hay. Corn in good condition and maturing rapidly. Winter wheat harvest nearing completion, with more than 95% done. Harvesting of oats for grain 33% complete, behind the 43% last year and the average of 53%. Second cut alfalfa 74% complete, compared with 88% a year ago and the average 76%. Harvesting of early potatoes underway Upstate, with the crop in good to very good condition. Onions looking good and bulb sizes increasing. Sweet corn in plentiful supply. The apple crop in good condition and the quality good to excellent. Harvest of Jerseyacs and Lydemans active. Peach and pear harvests underway.

NORTH CAROLINA: Temperature averaged near normal to 3° above normal east of the mountains and 2° below normal in the mountains. Precipitation ranged from 0.03 to 2.94 in.

Soil moisture: 3% short, 77% adequate, 20% surplus. Days suitable for fieldwork: 5.2. Condition: Tobacco 17% fair, 79% good, 4% excellent. Corn 8% fair, 68% good, 24% excellent. Cotton 100% good. Peanuts 32% fair, 63% good, 5% excellent. Soybeans 4% fair, 90% good, 6% excellent. Sweetpotatoes: 15% fair, 85% good. Apples 6% fair, 82% good, 12% excellent. Peaches 10% fair, 75% good, 15% excellent. Phenological stages: Cotton setting bolls: 91%, 1983 87%, 92% average. Corn soft-dough: 85%, 1983 91%, 92% average. Corn dent: 73%, 1983 83%, 82% average. Corn mature: 34%, 1983 47%, 52% average. Soybeans blooming: 76%, 1983 73%, 74% average. Soybeans setting pods: 41%, 1983 38%, 41% average. Harvest: Flue-cured tobacco: 51%, 1983 46%, 60% average. Peaches: 90%, 1983 92%, 89% average. Corn for silage 15%, 1983 25%, 27% average. Major farm activities: Harvesting, marketing, topping and suckering tobacco, spraying chemicals, haying, harvesting vegetables, fruit crops and corn silage.

NORTH DAKOTA: The week began very hot with many areas reporting high temperatures around the century mark. Temperatures averaged 5 to 8° above normal. Temperature extremes ranged from 103° on the 12th and 13th to 45° on the 18th. Rainfall was light and scattered. Central and east received less than 0.10 in. with many areas receiving none at all. West fared better with some areas receiving between 0.30 to 0.60 in. Dickinson reported the largest weekly total with 0.67 in.

Near ideal harvest weather allowed excellent progress on harvest of small grains. Early reports show very good test weights and quality. Winter wheat and rye harvest virtually complete, barley not far behind. The percent combined through 19th compared to last year and the average was: hard red spring wheat 57, 66, 40; durum 41, 50, 26; barley 83, 87 60; and oats 64, 73, 51. Persistent dry weather seriously threatening row crops. Ninety-six percent of State rated very short or short of topsoil moisture. Condition of all row crops declined from a week ago, with corn, soybeans and dry beans showing the biggest decline.

OHIO: Temperatures 1 to 2° above normal. Highs lows to mid-80's, lows upper 50's to lower 60's. Precipitation spotty. Range from 0.10 to 0.50 in. Isolated thunderstorms brought 1.50 to

3.00 in. totals. Base 50 growing degree day accumulations 145 to 170.

Topsoil moisture 33% short, 66% adequate, 1% surplus; 6.0 days suitable for fieldwork. Main activities combining oats, baling hay and straw, spraying weeds. Corn silked 96% 1984, 100% 1983, 99% average; dough 65% 1984, 65% 1983, 60% average; insect population stabilizing; crop condition good. Soybeans blooming 100% 1984, 97% 1983, 97% average; setting pods 80% 1984, 70% 1983, 80% average; fields weedy; crop condition good. Winter wheat harvested 100% 1984, 1983, average. Pasture condition fair to good.

OKLAHOMA: Temperatures averaged 1° above normal northeast to 1° below normal south central and southeast. Precipitation averaged none north central, northeast, central, and east central, to 0.18 in. southwest.

Hot, dry weather stifling crop growth and development. Moisture needed statewide, particularly west, where cotton, milo and pastures burning. Dryland row crop yield prospects reduced from dry weather. Irrigators active, serious feeding problems may occur as forage short. Sorghum and livestock good to fair, cotton and pastures fair condition. Sorghum headed: 85%, 60% 1983, 70% average. Cotton setting bolls: 70%, 70% 1983, 70% average.

OREGON: All sections reported above normal temperatures. The only precipitation was 0.10 in. at coast and northeastern locations.

Excellent weather for wheat harvest. Winter wheat 76% harvested; 92% in 1982; 86% average; yields good. Summer fallow fieldwork and fertilizing in preparation for fall seeding. Hay cutting continues; Tansy Ragwort a continuing problem. Mint harvesting. Most grass seed harvested; field burning in progress. Bartlett pear harvest beginning in Hood River area; due to start this week in Hood River Valley. Red Haven peach and Gravenstein apple harvest at Hood River. Peach harvest in Willamette Valley, yields low. Picking blueberries and blackberries. Cranberries behind normal. Potato harvest in full swing in Hermiston-Boardman area; crop going directly to processors and fresh pack. Malheur County Russets harvest for processing has begun. Also in Malheur, harvest of onions and sweet corn. Central areas harvesting garlic. In Willamette Valley, snap bean harvest near complete; yields good. Broccoli and sweet corn also being harvested. Ranges and pastures continue to dry out. Livestock in generally good condition.

PENNSYLVANIA: A Bermuda high continued bringing heat and rain to Pennsylvania. This system finally weekend on 17th, giving 2 days of relief. However, a cold front raced through on 19th, bringing more rain.

Days suitable: 3.0. Moisture adequate to surplus. Activities: seeding alfalfa; making hay; clipping pastures; harvesting oats, wheat, tobacco, potatoes, sweet corn, green beans, apples, peaches and tomatoes. Wheat harvest virtually complete, same as last year. Oats 58% harvested, 86% harvested a year ago. Potatoes 12% harvested, last year 23% harvested. Corn 93% silked with 34% in dough, last year 88% silked with 38% in dough, average 94% silked with 49% in dough. Fall plowing 15% complete, last year 14% complete, average 18%. Second crop alfalfa 82% harvested, last year 92% harvested. Third crop alfalfa 31% harvested, last year 40% harvested. Second cutting clo-tim 66% harvested, last year 70% harvested. Quality of hay made mostly poor to fair. Feed from pastures mostly above average to average.

PUERTO RICO: Island average rainfall 1.19 in. or 0.47 in. below normal. Highest weekly total 6.35 in. Highest 24-hour total 3.05 in. Temperatures averaged about 81° on coasts and 77° interior divisions. Mean station temperature ranged from 67.6 to 83.8°. Extremes 93 and 56°.

SOUTH CAROLINA: Slow moving high pressure area dominated weather during most week. Hot, hazy and humid weather across State. High temperatures averaged low 90's central and south, upper 80's elsewhere. Low temperatures upper 60's low 70's. Rainfall occurred as widely scattered thundershowers. Activity increased over weekend.

Soil moisture adequate to slightly short. Days available for fieldwork: 5.4. Corn condition good; 94% dough stage, 99% last year, 98% average; 62% mature, 68% last year, 78% average. Cotton condition good; 95% setting bolls, 100% last year, 100% average. Soybean condition good; 76% blooming, 74% last year, 82% average; 36% setting pods, 36% last year, 47% average. Tobacco condition good; 80% harvested, 59% last year, 79% average. Peach condition fair to good; 92% harvested, 93% last year, 93% average. Melon harvest nearing completion, condition fair.

SOUTH DAKOTA: Average temperatures were from 3 to 9° above normal. Extremes: 103 and 42°. Outside the Black Hills the low was 49°. Precipitation fell over much of the State with amounts of an inch or more in a band from northwest to central, but less than a quarter in southeast and extreme north.

Days suitable for fieldwork: 6.0. Topsoil moisture was short to critically short over most of the State with several pockets of adequate supplies in the east, south central, and extreme west. Grasshoppers continue to cause problems in the west and parts of the east. Greenbugs in sorghum and seed weevils in sunflowers also causing some problems. Range and pastures in good condition east and south central, fair to good condition west. Danger of fire high west due to dry conditions. Spring wheat harvested 81%, 1983 96%, average 90%. Sorghum headed 63%, 1983 66%, average 74%. Winter wheat harvested 100%, 1983 100%, average 100%. Corn silk 83%, 1983 93%, average 98%. Corn dough 34%, 1983 39%, average 43%.

TENNESSEE: Weather was dominated by a series of weak pressure systems. A weak cold front passed through at weekend. Precipitation was spotty across the State and temperatures averaged near to just below normal.

Days suitable for fieldwork: 6.0 days. Soil moisture levels: 9% surplus, 67% adequate, 24% short. Corn dough 86%, 1983 86%, average 91%; dent 36%, 1983 40%, average 55%; mature 5%, 1983 5%, average 10%. Cotton setting bolls 94%, 1983 94%, average 94%; open bolls 5%, 1983 9%, average 6%. Soybeans blooming 87%, 1983 87%, average 90%; setting pods 37%, 1983 33%, average 54%. Tobacco harvested: Burley 10%, 1983 10%, average 22%; dark-fired 14%, 1983 4%, average 21%; dark air-cured 11%, 1983 3%, average 22%. Pastures and livestock in good condition.

TEXAS: Below normal rainfall plague most State during week, temperatures averaged near or slightly below normal. Upper level disturbance moving into East Texas, tracking slowly across Texas by midweek. Low combined with abundant Gulf moisture, produce widely scattered showers, thundershowers statewide. Rainfall totals were generally light, but 1.00 to 2.00 in. amounts South Central Texas, along the middle coast.

High pressure West Texas ended precipitation, brought record high temperatures portions North Texas. Rainfall averaged below normal across most State. Temperatures below normal all State, except far West and East Texas where near normal.

Crops: Scattered showers again covered most State throughout week. Showers temporarily stalled harvesting activities Rio Grande Valley. Additional moisture helped crops Texas Plains make good growth. Irrigation needs, costs declined. Central Texas where harvest complete, producers awaiting favorable conditions before beginning plowing operations. Range conditions picked up slightly; most ranges still need additional rainfall. Cotton High Plains making new growth with additional rainfall. Insect populations moderate, chemical treatment continuing. Cross Timbers, irrigated cotton, fields receiving rain, look good; other fields poor condition. Blacklands, harvest start soon, bolls continue open rapidly under hot temperatures. Spraying bollworms continues. Rio Grande Valley, harvesting moving along steadily until rain temporarily stalled activities. Yields good. Current condition 73% of normal compared with 64% a year ago. Reported conditions 4% excellent, 59% good, 20% fair, 16% poor and 1% failure. Grain sorghum Plains late bloom soft dough stage. Recent rains improved crop. Some light greenbug populations reported. Elsewhere, harvesting activities winding down, heavy abandonment Cross Timbers. Good yields across State. Current condition 66% of normal compared with 67% a year ago. Reported conditions 6% excellent, 38% good, 37% fair, 17% poor and 2% failure. Corn harvest continued; week's end virtually completed Blacklands. Yields varied widely, ranging failure to above average. Plains, crop in milk stage. Harvesting continued small scale Central Texas, fair to good yields. Current condition 67% of normal compared with 79% last year. Reported conditions 6% excellent, 39% good, 37% fair, 16% poor, 2% failure. Peanuts benefitted recent showers Plains, in excellent condition. Some leaf spot. Elsewhere, irrigation heavy. South central Texas, rain needed to make crop. Soybeans Plains continue set pods and prospects good. Upper Coast, beans blooming, setting pods under irrigation. Rice harvest continues, near normal to above normal yields reported.

Cotton squaring 98% 1984, 99% 1983, 99% average; setting bolls 87% 1984, 82% 1983, 88% average; open bolls 11% 1984, 7% 1983, 14% average; harvested 9% 1984, 2% 1983, 6% average. Rice turning color 92% 1984, 99% 1983, 99% average; harvested 66% 1984, 48% 1983, 79% average. Sorghum headed 81% 1984, 84% 1983, 90% average; turning color 65% 1984, 69% 1983, 69% average; mature 58% 1984, 53% 1983, 62% average; harvested for grain 56% 1984, 47% 1983, 56% average. Corn harvested for grain 47% 1984, 27% 1983, 29% average. Peanuts harvested 0% 1984, 0% 1983, 4% average.

Commercial vegetables: Rio Grande Valley, land preparation, seeding fall vegetables continue, some peppers already up. High Plains, onion, potato harvest continued after some weather delays. East Texas, watermelon harvest continues small scale. Other vegetable harvest complete. Trans-Pecos, cantaloupe harvest winding down. Chili harvest continuing. San Antonio-Winter Garden, fall planting underway some crops up and growing. Pecans continue suffer from drought conditions many areas. Spraying weevils, other insects in progress. Aphids, scrubs causing some problems Central Texas.

Range and livestock: Range, pasture conditions improving slightly; most areas remain short on grazing. Plains, considerable greening up occurring, fourth cutting alfalfa hay in progress. Moving southward, ranges trying to respond where rains received. Many producers buying baled sorghum stalks to help through winter. Hornflies, ticks problems to livestock. Second shearing sheep begun. Cattle conditions good despite drought conditions.

UTAH: Showers deposited moderate to very heavy precipitation over State except southeast and Uinta Basin divisions where precipitation was light to moderate. Maximum temperatures averaged 1° below normal west half State, 2° above normal east half, ranging 4° below to 5° above. Minimums averaged 4° above normal ranging 2° below to 8° above.

Rainstorms at week's end halted grain harvest and making of 2nd crop alfalfa hay. Only 5.5 days available for fieldwork. Winter wheat harvest 70% complete. Barley and spring wheat 48%. Oats 49% ripe and about 15% harvested. Field corn 90% in tassel. Second crop alfalfa 81% cut, considerable rain damage to down hay. Early reports small grains and field corn yields slightly better than average. Range feed and livestock on range now in use good to excellent condition.

VIRGINIA: Scattered areas of precipitation occurred over much of State, with highest amounts generally in areas outside of earlier flooding. Rainfall less, but many areas still received 0.50 to 1.50 in. Temperatures 1 to 2° above normal for period.

Crops appear in excellent condition due to continued rainy weather, although diseases and fieldwork problems becoming more frequent. Topsoil moisture ratings were 58% adequate and 42% surplus. Days suitable for fieldwork decreased to 3.2 days. Corn condition good to excellent with 78% dough, 76% last year, 80% average. Corn in dent was 48%, 54% last year, 59% average. Reported mature corn was 16% compared with 22% last year. Soybean condition good to excellent. Soybeans in bloom or past reported at 62%, 71% last year. Setting pods 41%, 48% last year. Tobacco condition good to excellent; topping and sucker spraying underway. Flue tobacco harvest 26% complete, 27% last year, 34% average. Fire-cured tobacco harvest 26% complete, 23% last year, 31% average. Sun-cured tobacco harvest 8% complete, 16% last year, 22% average, burley tobacco harvest starting. Peanuts good to excellent condition. Rainy weather increasing chances of moisture related diseases. Spraying limited because of wet fields. Peach harvest 69% complete, 46% last year. Apple harvest 12% complete, 4% last year. Fruit crops good to excellent. Pasture and hay good to excellent, although cut hay hurt by rain. Livestock good to excellent.

WASHINGTON: The week began with high pressure, centered to the west, extending into British Columbia. The flow around the high brought hot and dry conditions 13th. A low pressure system developed near the Queen Charlotte Islands and began to influence the weather over the State by 14th. Southwesterly winds brought some moisture and unstable conditions to the State and produced some precipitation in the form of widely scattered showers and thundershowers, but most reports of total rainfall were under 0.10 in. for the week.

Winter wheat harvest continues to progress well in southeast with excellent harvesting conditions. Spring wheat harvest about

one-third complete and ranges from 0% to 95%. The barley harvest about three-quarters complete and ranges from 10% to 100%. Haying continues in the west while complete in the drier areas of the east. Cutting of alfalfa continues. Second cutting of timothy hay underway. Peach harvest continues. Blueberry harvest nearing completion. Bartlett pear harvest should begin the week of August 20th. Pear production expected to be less than last year. Harvest of peppers, beans, cucumbers, and summer squash continues. The harvest of melons and tomatoes has started. Potato harvest continues. Green pea harvest nearing completion. Dry pea harvest complete in east central counties while it about 50% complete in the southeast counties. Pastures in many areas of the State remain adequate with several areas reporting short conditions. Winter wheat 74% harvested, 82% last year, 78% average.

WEST VIRGINIA: Temperatures averaged 1° above normal over the State. Low of 49° in Canaan Valley, high of 91° in Wheeling. Precipitation was 0.50 in. below normal in southwest, north central and northwest. Central, southern and northeastern areas were 0.50 in. above normal. Most rainfall in Franklin 3.49 in. Ellenboro received no precipitation.

Soil moisture adequate. Days suitable for fieldwork: 3.8. Main activities: Harvesting hay, clipping pasture and harvesting gardens.

WISCONSIN: The week started with temperatures in the 70's and 80's along with comfortable humidities. By midweek, hazy, hot and humid weather established itself before cool, dry air returned for the weekend. Widely scattered thunderstorms brought less than 0.50 in. of rain, concentrated mostly in the northern and central areas.

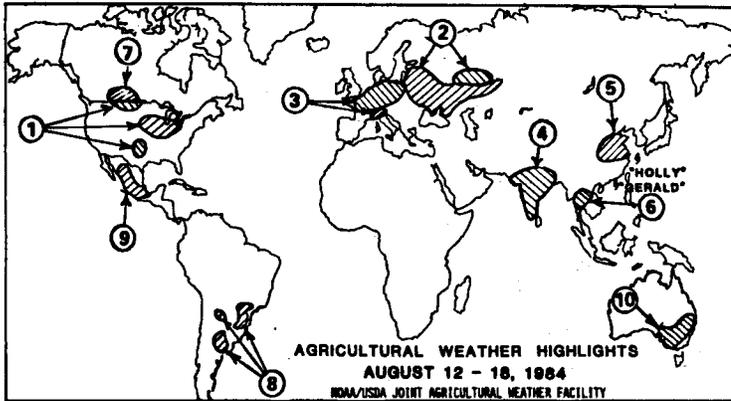
Dry weather facilitated harvesting of hay and grains but also resulted in dry soil and stressed crops. There were 6.4 days suitable for fieldwork. Soil moisture was rated 40% dry, 57% adequate and 3% surplus. Corn was 93% silked compared to 98% last year and 97% average. Corn in dough stage or beyond was 37%, 47% last year and for average. Oats were 69% harvested with excellent yields, last year 73% were harvested, 69% average. Second cutting of hay was 80% complete, 77% last year, 79% average. Third cutting 10% complete, 14% last year, 11% average. Tonnage extremely heavy in some parts, farmers stacking hay outside of full barns. Winter wheat was 90% harvested compared to 91% last year. Yields excellent. Potatoes look good, but needed irrigation. Sweet corn harvest in full gear, blackberries ripening in north, and gardens yields a wealth of produce.

WYOMING: Temperatures above normal. Precipitation above normal in Cheyenne and Niobrara Drainage and southeast.

Topsoil moisture short 59% State. Days suitable for fieldwork: 6.0. Winter wheat, 90% harvested. Last year 94% harvested. Barley: 40% mature, 35% harvested. Last year, 26% mature, 57% harvested. Spring wheat: 40% mature, 35% harvested. Last year, 39% mature, 39% harvested. Oats: 45% mature, 20% harvested. Last year, 36% mature, 22% harvested. Alfalfa, second cutting 55% complete. Other hay harvest 70% complete. Corn: 80% milk, 50% dough. Dry beans: 95% setting pods, 15% leaves turning color. Supply of stored feed, hay, average; feed grains, average.

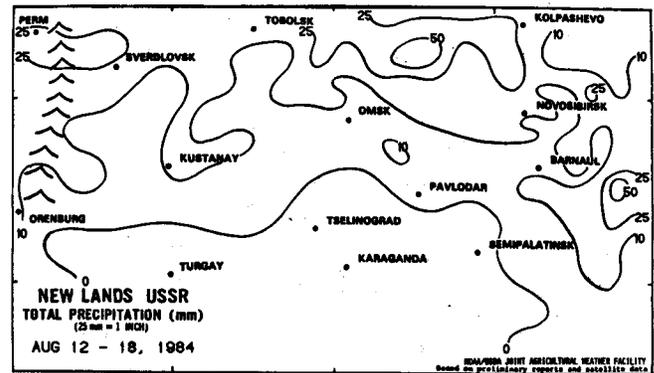
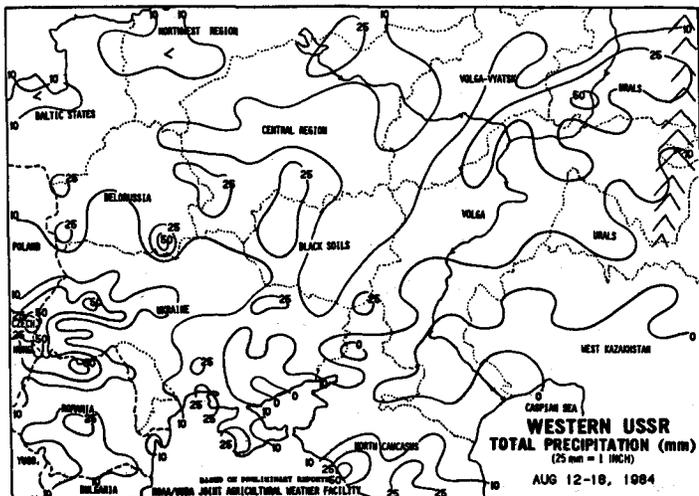
International Weather and Crop Summary

August 12 to 18



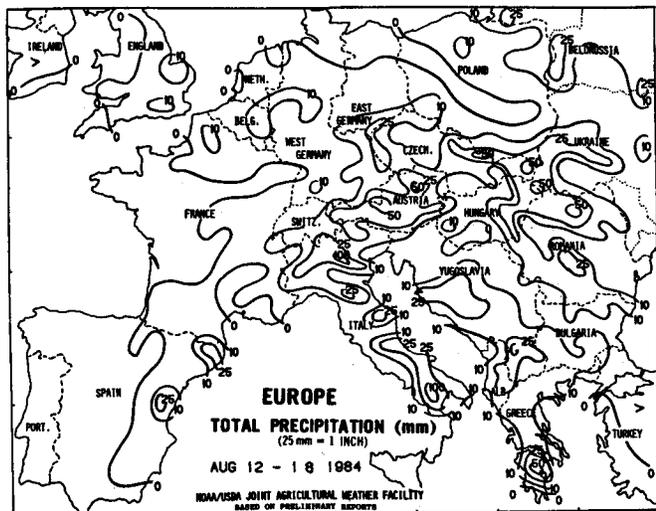
HIGHLIGHTS:

1. UNITED STATES ... Showers over parts of the eastern Corn Belt benefit corn and soybeans, but the western portion had little or no rain. Showers continue to benefit crops and pastures in central Texas. Fair weather in the northern Plains allows rapid wheat harvesting, but the drought intensifies in Montana.
2. USSR ... Generally favorable harvest weather in most areas. Winter grain planting is underway in the northern crop areas of Western USSR, but drier weather is needed.
3. EUROPE ... Light, scattered showers in northern crop areas cause minimal harvest delays. Wet weather continues to create the potential for harvest delays in northern Italy.
4. SOUTH ASIA ... Rain continues to benefit rice, cotton, and groundnuts across central India. Dryness in the south is unfavorable for summer-grown crops in the reproductive stages.
5. EASTERN ASIA ... Moderate rain in the North China Plain favors corn and soybeans, but drier weather would benefit cotton entering the open boll stage.
6. SOUTHEAST ASIA ... Moderate rain benefits most of Thailand. However, precipitation is below normal in the south-central rice region.
7. CANADA ... Warm and mostly dry weather aids ripening and harvesting of spring wheat and rapeseed. Saskatchewan's harvest is well ahead of last year's pace.
8. SOUTH AMERICA ... Dry weather hampers early wheat growth in Argentina's western wheat area, while showers aid crop development in the south. Dryness in Brazil hastens wheat ripening in Parana, and aids crop growth in Rio Grande do Sul.
9. MEXICO ... Rain along the southeastern coast benefits sugar cane. Showers over the southern Plateau corn belt help growing corn, but slows the harvest of mature grains. Showers in the northern mountains are helping to fill reservoirs.
10. AUSTRALIA ... Dry weather aids early harvesting of Queensland wheat, while some showers aid vegetative growth of wheat across the remainder of the Wheat Belt.

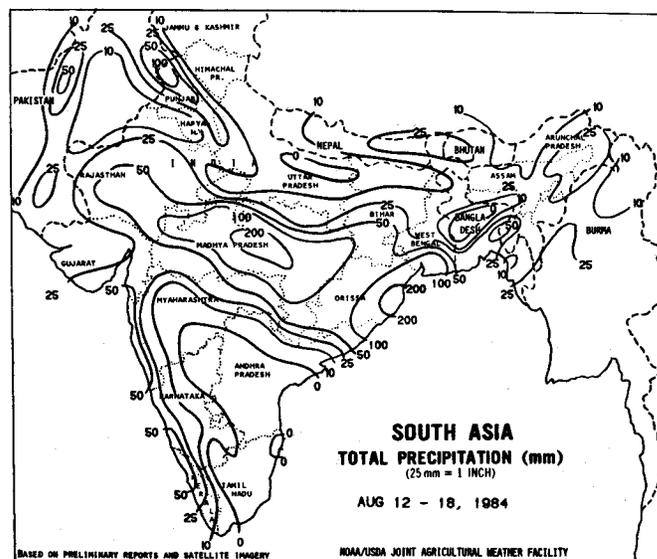


USSR...A cold front moved eastward through western USSR, becoming stationary over the Urals and Western Kazakhstan by the week's end. Most of the precipitation associated with the front fell early in the week, with amounts generally ranging from 10-25 mm. Crop areas in the northern Urals received heavier amounts of rain (25 to 50 mm). Generally dry weather followed the showers, improving conditions for the harvest. Winter grain planting is normally underway across the North, and fieldwork in preparation for sowing is active in the major wheat producing areas of the south. At present, soil moisture supplies appear good for proper seed germination, but drier weather is needed in the north to increase the planting pace. Weekly temperatures were below-normal over most of the region.

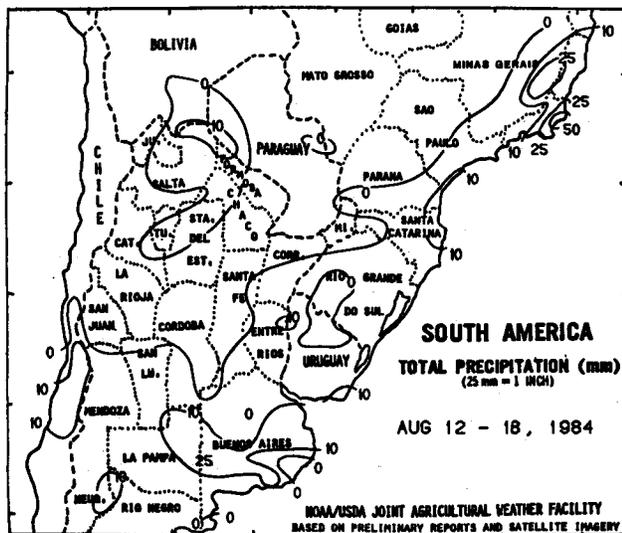
In the New Lands, a ridge of high pressure kept spring grain areas dry for several days. As a result, harvest activity progressed northward with few delays. In addition, favorable temperatures, 1°C to 3°C above normal in the north and east, favored grain maturation, which was previously slowed by unseasonably cool, wet weather. In the USSR Far East soybean areas, persistent heavy rains in the Amur Valley have been unfavorable for soybeans in the flowering and podding stages. In addition, localized flooding has been reported in some areas.



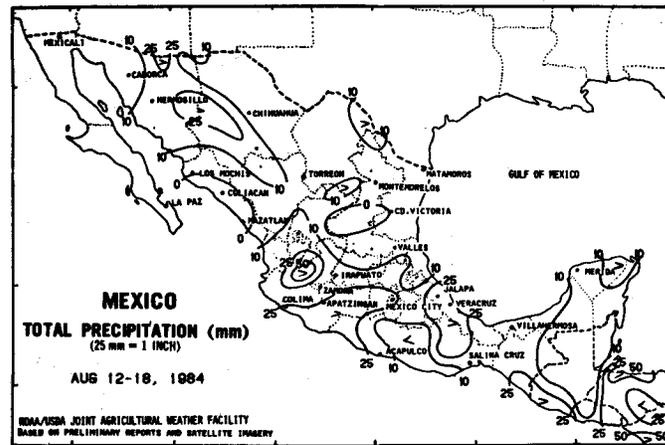
EUROPE...Light, scattered showers covered crop areas in northern Europe, but most crop areas experienced several days of dry weather. The dry weather aided grain maturation and harvest activity. However, corn and sugar beets grown in these areas would still benefit from additional showers. Wet weather continued in northern Italy, Austria, and eastern Hungary, with 25-50 mm of rain falling. The wet weather in these areas interrupted the small grains harvest, but should have benefited that portion of the corn which is still in the filling stage. In Romania, dry weather aided harvest activity in the east, while light showers in the west created only minimal harvest delays. Weekly temperatures were near normal in the west, and below normal in the east.



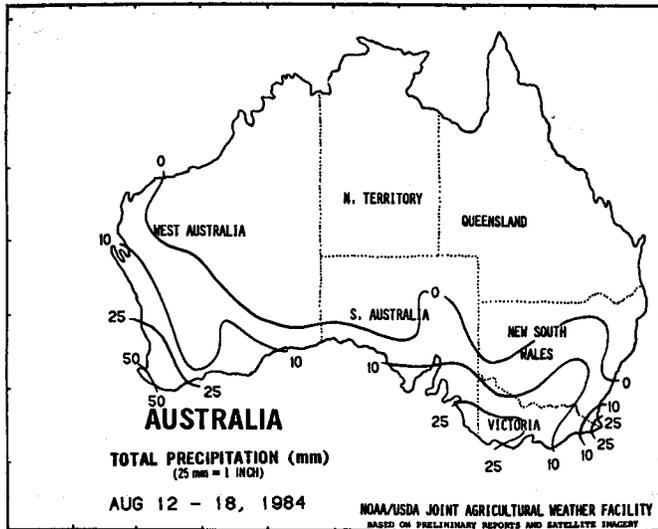
SOUTH ASIA...Moderate to heavy precipitation (50-200 mm) was confined again mostly to central India this week. Some localized flooding may have occurred in Orissa and Madhya Pradesh, where heavy rain fell during the last 3 weeks. However, the moisture has been mostly beneficial for autumn rice in the heading stage. Moisture was also adequate for most winter rice in the vegetative stage. Moderate rain in Gujarat, Madhya Pradesh, and Myaharashtra benefited cotton and groundnuts in the vegetative stage. In the southeast, mostly dry weather persisted for the third consecutive week as crops advanced into critical growth stages. Cotton and groundnuts are in the flowering stages, and autumn rice is in the heading stage. Heavy rain (up to 125 mm) in Punjab was unfavorable for cotton which is setting bolls.



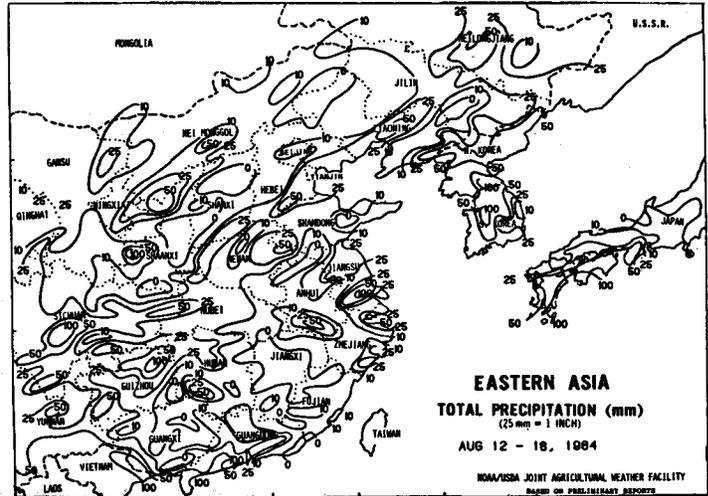
SOUTH AMERICA...Dry weather covered most crop areas of Argentina and Brazil. In Argentina, a narrow band of rain, producing 10-25 mm, extended across central Buenos Aires to northeastern La Pampa, where the moisture helped wheat in vegetative growth. The rain missed the chronically dry western wheat area of Cordoba and Santa Fe. Dry weather in Brazil's wheat area hastened the ripening of wheat in Parana, and helped crop development in Rio Grande do Sul. Reports indicate that the long dry spell in the citrus area of Sao Paulo not only accelerated orange fruit maturation, but also reduced the fruit size. Climatologically, the winter months are normally the driest months from Parana northward. Significant rain will be needed for the summer growing season which begins next month.



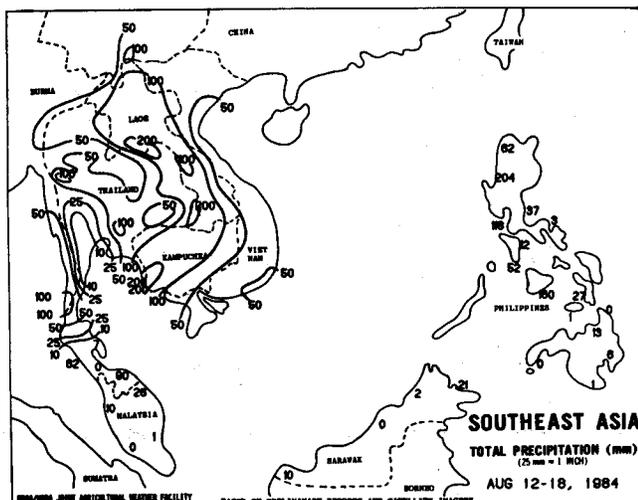
MEXICO...Most of the corn belt on the southern Plateau had 10-25 mm of rain, while parts of the major producing western end had up to 70 mm of rain. The rain was beneficial to vegetating corn, but hampered harvest in some areas. The west coast vegetable and soybean area from Las Mochis to Culiacan reported little or no rain, allowing uninterrupted time for fieldwork. Moderate rain was beneficial for sugarcane along the southeastern coast, south of Jalapa, but only light showers fell in the northeast. Moderate to heavy showers in the northern mountains continued to provide good runoff to feed reservoirs.



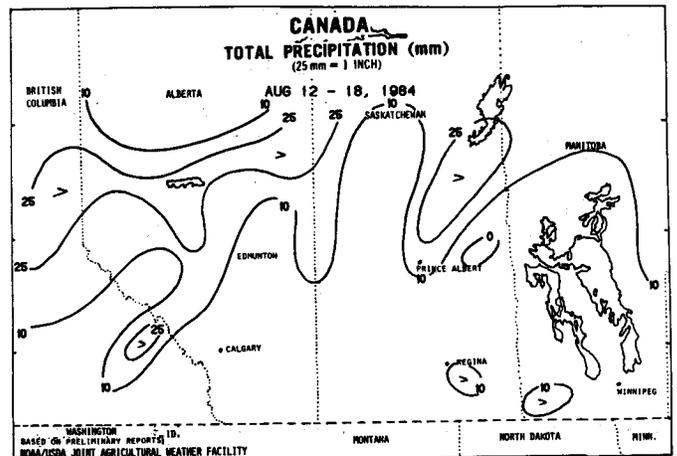
AUSTRALIA...Dry weather covered wheat areas of southeastern Queensland and northern New South Wales. Light showers produced less than 5 mm of weekly rain over much of the remainder of New South Wales, extreme northwestern Victoria, and the northern portion of South Australia's wheat area. Substantial showers, producing 10-30 mm of rain, fell over the remaining wheat areas. Early harvesting of Queensland's wheat has begun, ahead of last year's pace. The major portion of Australia's wheat crop is in vegetative growth with the late sown crop just emerging or tillering, and the remainder in the more normally advanced jointing stage. The highly variable crop calendar is due to the long planting delays caused by persistent dryness from May to mid-July over the southeast. The recent favorable weather has promoted early growth of the delayed crop.



EASTERN ASIA...Early in the week, moderate to heavy rain (25-90 mm) fell in Henan, Shandong, and Hebei. The heaviest amounts of rain were unfavorable for cotton entering the open boll stage. However, the moisture was mostly favorable for early corn and soybeans in the late filling stages, and late corn and soybeans in the reproductive stages. Moderate rain in the Manchurian Valley also favored corn and soybeans in the filling stages. Temperatures averaged below normal in most of eastern China, following a frontal passage earlier in the week. Precipitation was light and scattered in the southern rice region. Moisture was adequate for intermediate rice in the filling stage in the Yangtze Valley. Some dry areas exist in Hunan and Jiangxi, and rain would benefit late rice in the heading stage.



SOUTHEAST ASIA...Moderate to heavy monsoon rain covered most of Indochina for the second week. Heavy rain (as much as 200 mm) fell in central Laos. Nearly all of Thailand received greater than 25 mm of rain this week. The moisture was beneficial for northern and eastern rice in the filling stage. Rain in the Central Region also benefited corn in the filling stage, but harvesting slowed in some places. Part of the south-central rice region (mostly west of Bangkok) was the only area to receive less than 25 mm of rain. Rain would benefit rice in the filling stage because August precipitation has been below normal in this area. Moderate to heavy rain benefited rice in central Luzon, Philippines, but mostly dry weather prevailed in the central and southern islands.



CANADA...Warm and mostly dry weather aided crop ripening throughout the Prairie grain belt. Weekly temperatures averaged 2-4 degrees above normal, with high temperatures reaching the low to mid 30's °C on several days. Showers were very light, producing less than 5 mm of rain, but in a few scattered locations, about 10 mm of rain fell. Heavier showers fell to the north of the major crop area, a pattern which has occurred throughout the growing season. In Saskatchewan, harvesting is well ahead of last year's pace, with about 50 percent of the spring wheat swathed, and nearly 20-percent combined. Harvesting had just begun in crop areas of Alberta and Manitoba. The harvest is concentrated over the southern two-thirds of the grain belt, with crops maturing in the northern portion.

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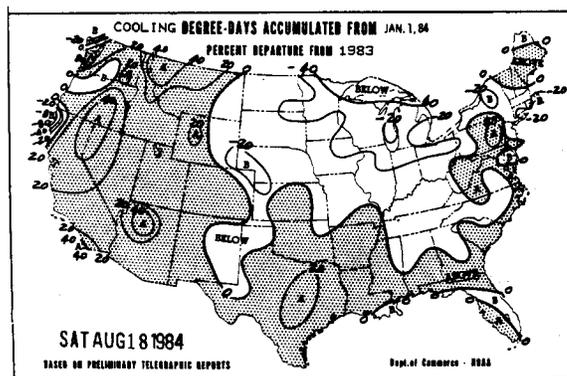
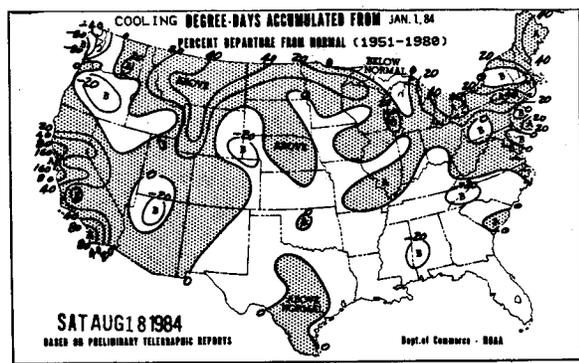
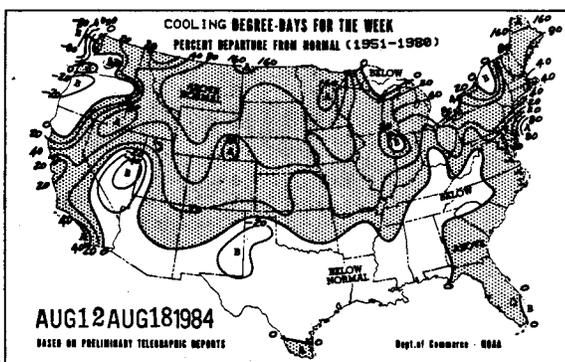
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