

WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service and World Agricultural Outlook Board

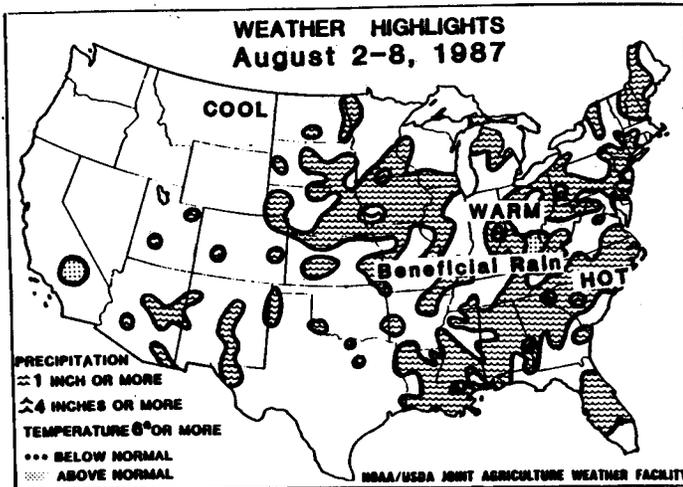
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Aug. 11, 1987

National Weather Summary

Aug. 2 to 8, 1987



HIGHLIGHTS: Thunderstorms were widespread from the Rockies and Southern Plateau eastward to the Atlantic Ocean. Exceptions were most of Texas and Oklahoma and parts of the northern Great Plains, where few storms were reported. Heavy rain fell from eastern Nebraska to southern Minnesota and western Illinois. Heavy showers also fell in the upper Ohio Valley and in isolated areas of the East. A severe heat wave ended in the northern and central Plains, but hot weather moved over the Midwest before cooling at week's end. It was hot across the South all week and up the east coast to the mid-Atlantic region most of the week.

SUNDAY...An area of thunderstorms moved to the eastern Great Lakes and Midwest and then to New England. Lesser storms were scattered through the Appalachians and across the South. A few thunderstorms reached from Arizona to the northern Great Plains. Temperatures dropped in the northern Plains, but warm weather returned to the mid-Atlantic and continued from the central Plains through the Midwest and across the South.

MONDAY...Cooler weather spread through the northern Plains, but high temperatures persisted across the South and moved up the east coast. Thunderstorms were widespread from Kansas to South Dakota and to the Great Lakes and more scattered in the Southeast, New England, and from New Mexico through the central Rockies.

TUESDAY...Thunderstorms were scattered throughout the area east of the Mississippi River and from Arizona and New Mexico through the central Rockies and onto the Plains. Cool weather moved into the

central Plains and most of the Midwest, but hot weather persisted across the South and from the mid-Atlantic southward.

WEDNESDAY...Thunderstorms developed from the lower Mississippi Valley through the upper Ohio Valley to southern New England. Moderate to heavy showers fell from Maryland to Long Island, New York. Thunderstorms were also scattered through the Southwest, across northern Texas, and in the northern Plains. Warm weather crept back into the Great Plains, but welcome cool weather continued in the Midwest.

THURSDAY...Another surge of cool air pushed through the northern Plains and Rockies. Thunderstorms were reported throughout the Rockies and High Plains and across Nebraska. Some heavy thunderstorms developed in the Southeast, with lighter storms reaching from Louisiana through the Carolinas.

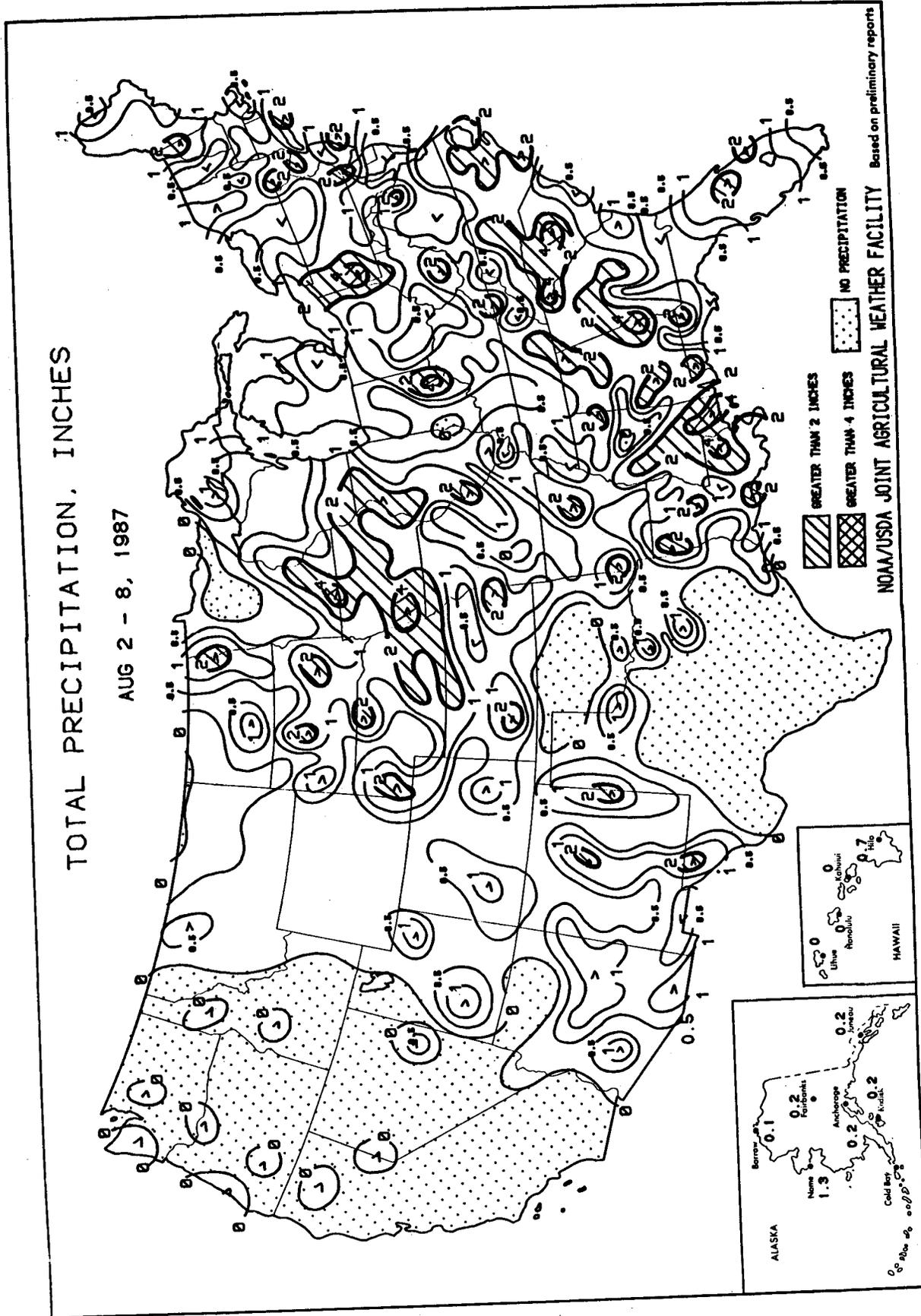
FRIDAY...Thunderstorms continued through the central and southern Rockies and spread across the central Plains to the lower Great Lakes. Scattered thundershowers covered the Northeast. Heavy thunderstorms and severe weather developed from eastern Nebraska to southern Wisconsin. The northern Plains remained cool, and it cooled along the east coast. However, warmer weather pushed up the Mississippi River to the western Midwest.

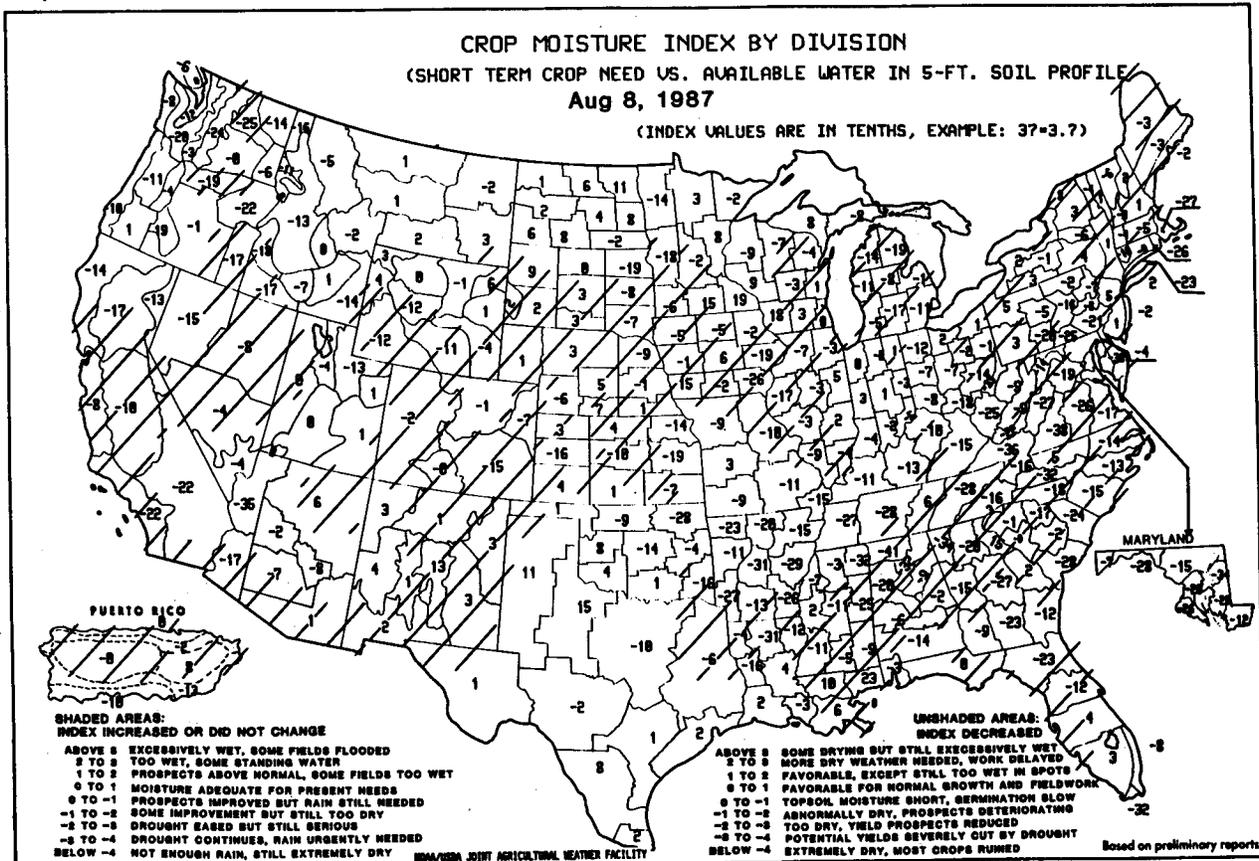
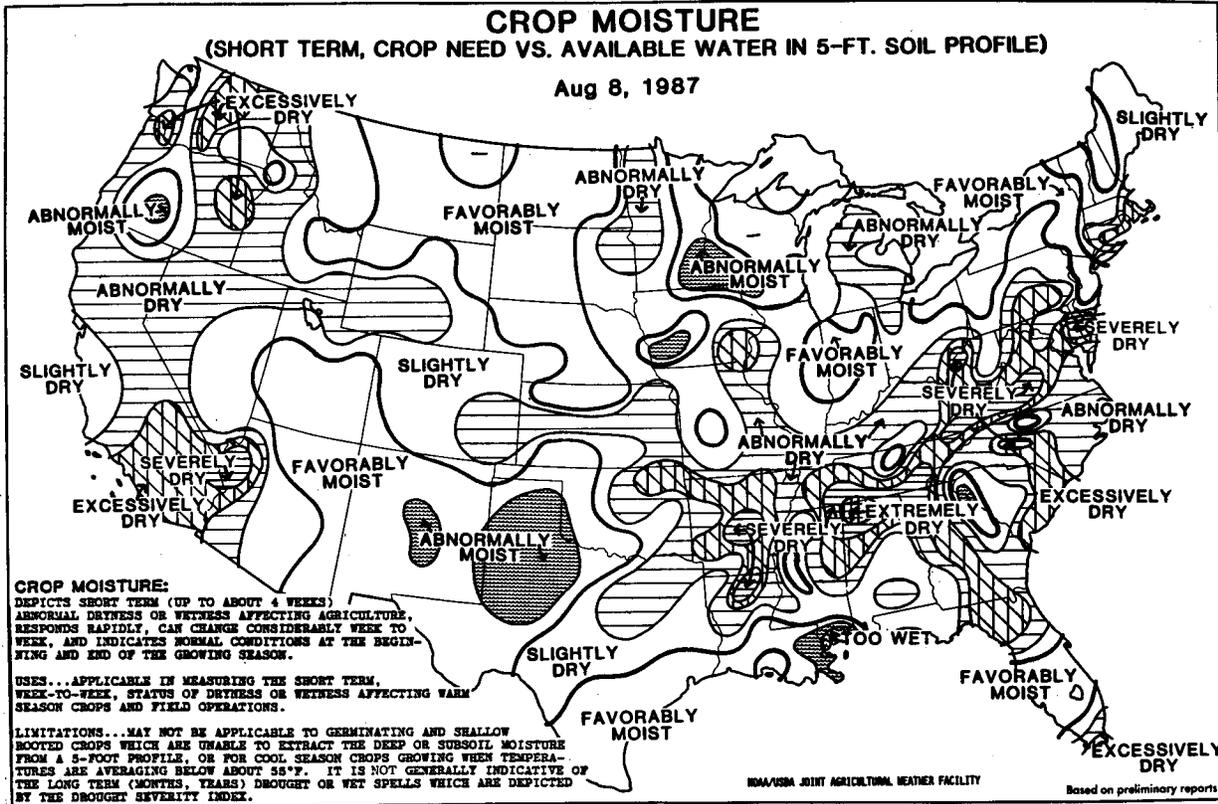
SATURDAY...Thunderstorms were widespread from the central and northern Plains through the Great Lakes to Pennsylvania and New York. Scattered showers continued in the Southeast and southern Rockies. Hot weather returned to the East from the mid-Atlantic southward and persisted across the South.

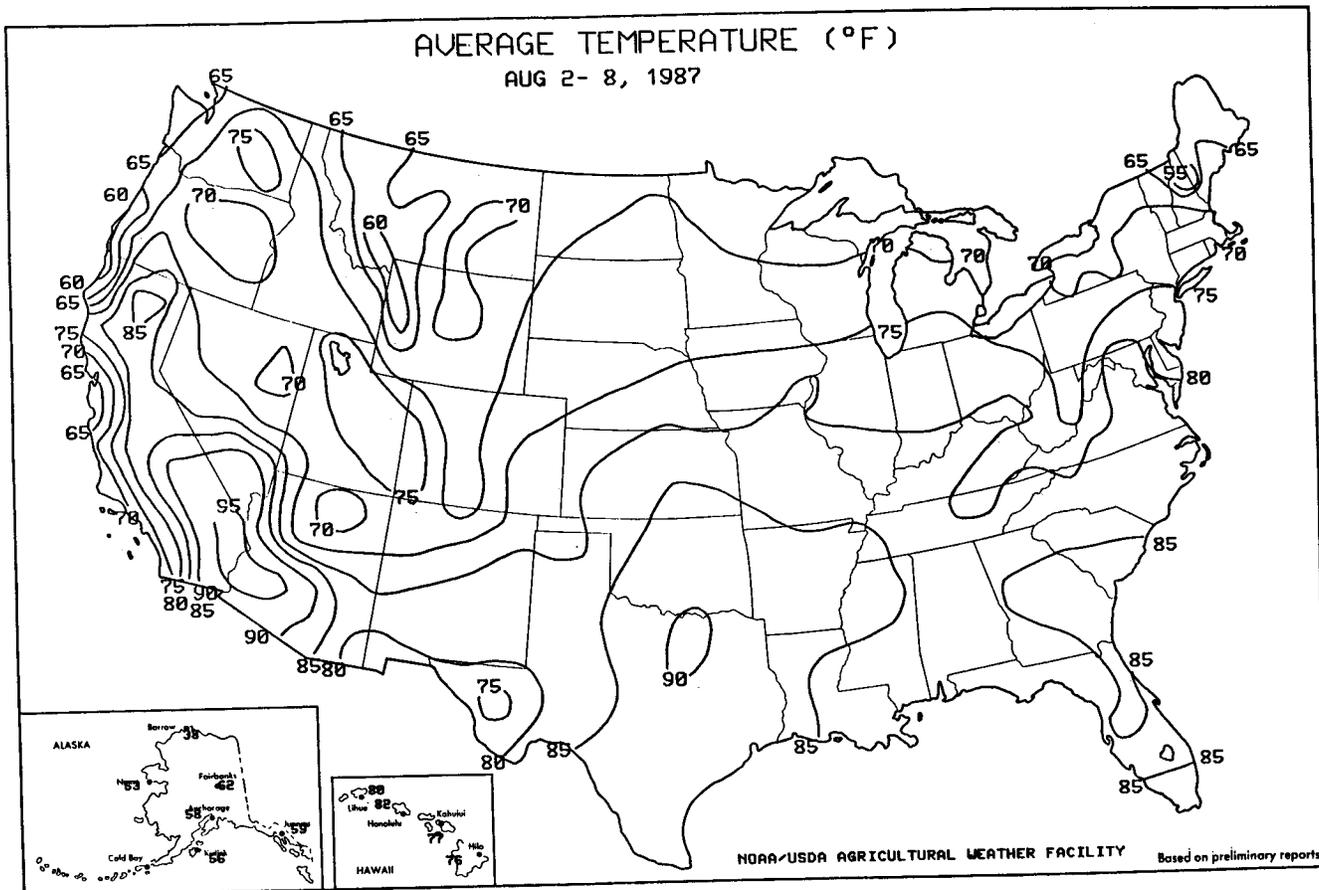
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TOTAL PRECIPITATION, INCHES

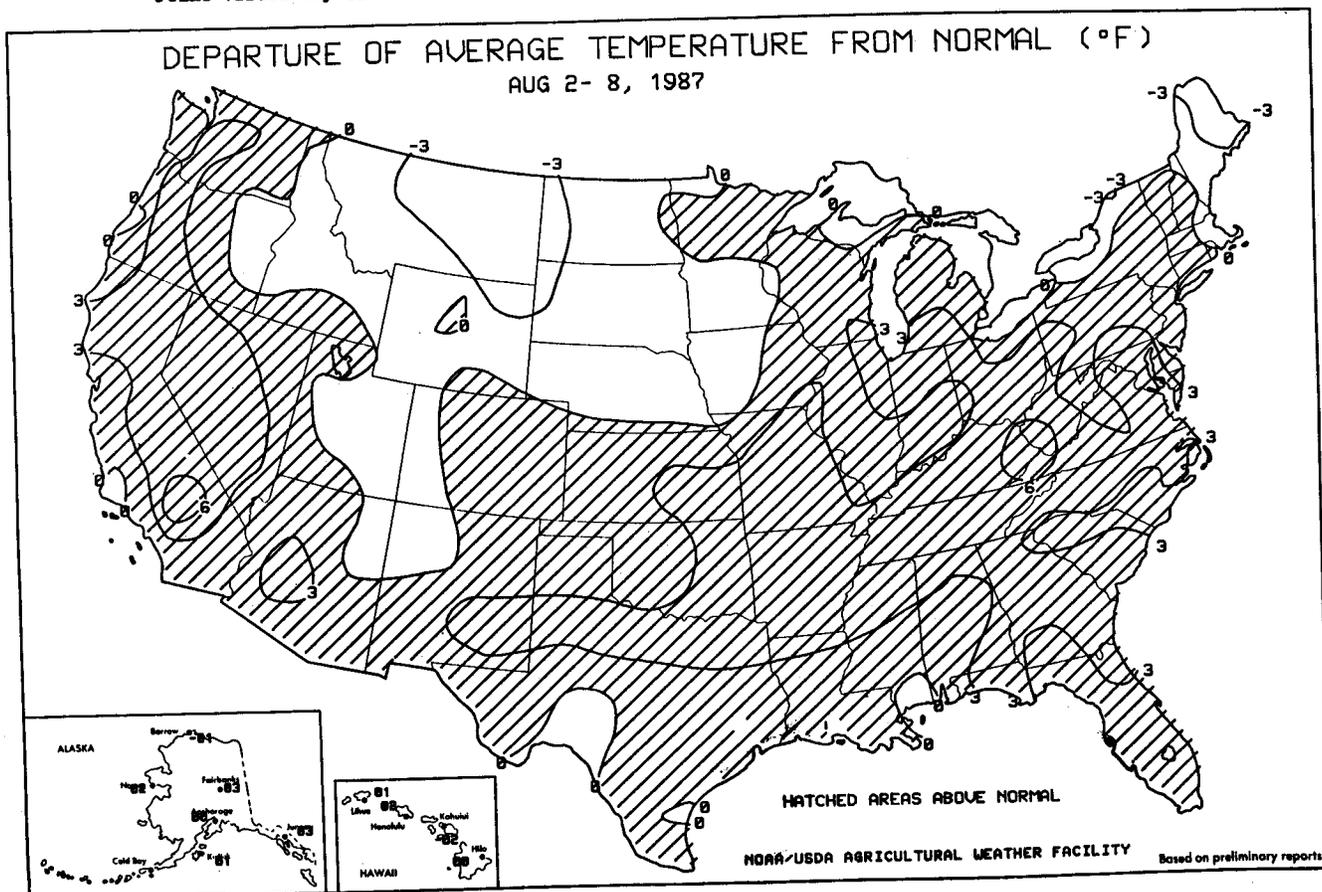
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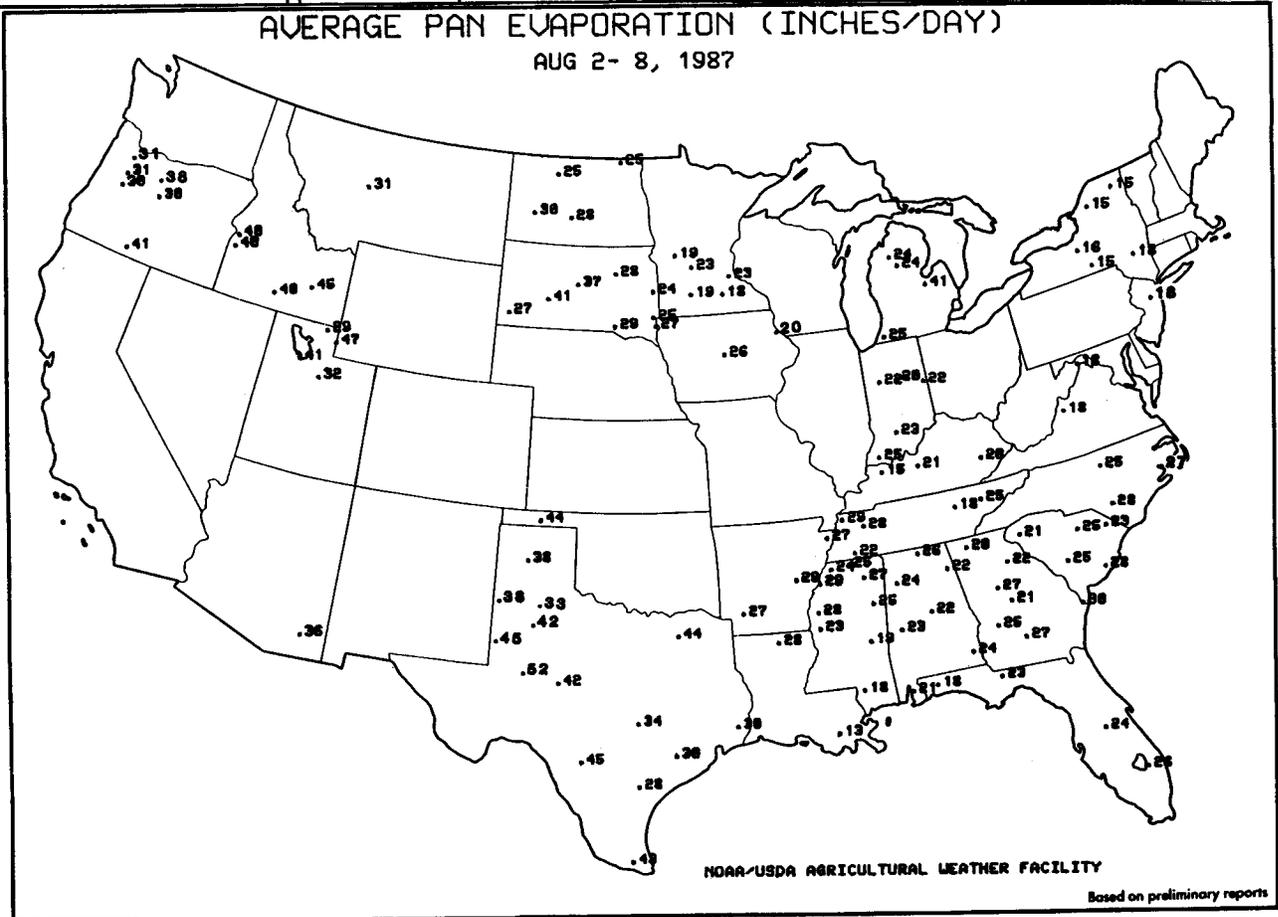
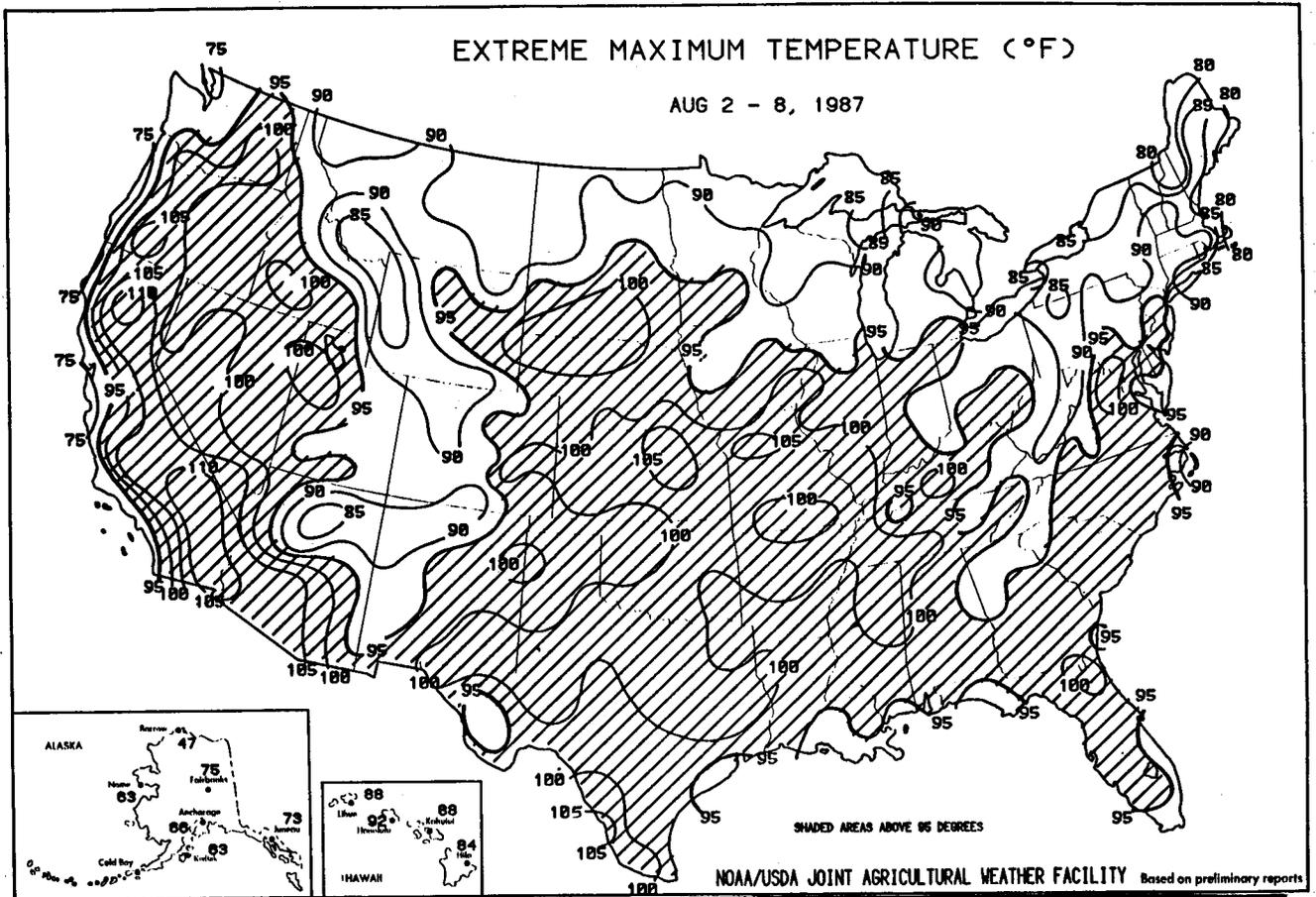


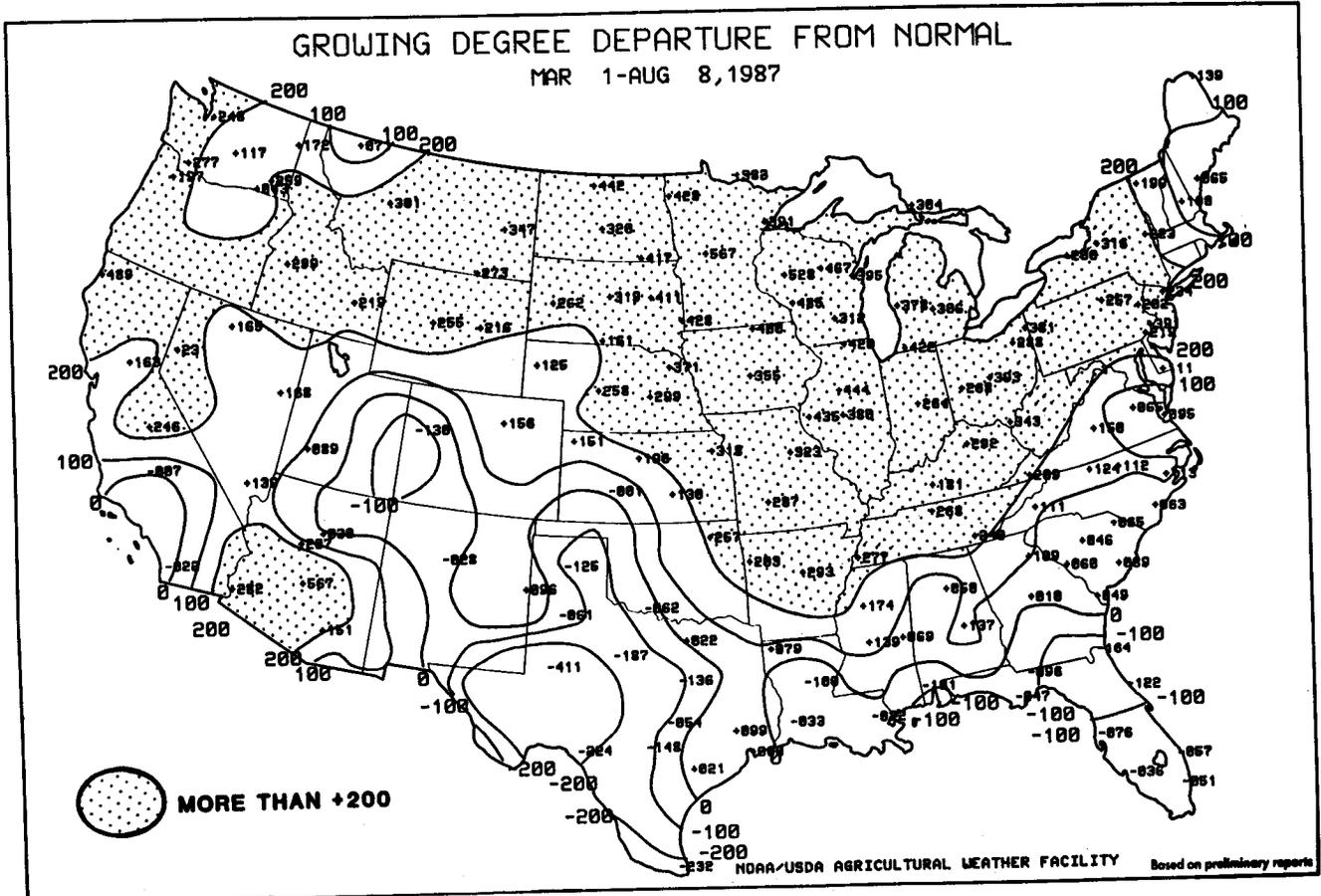
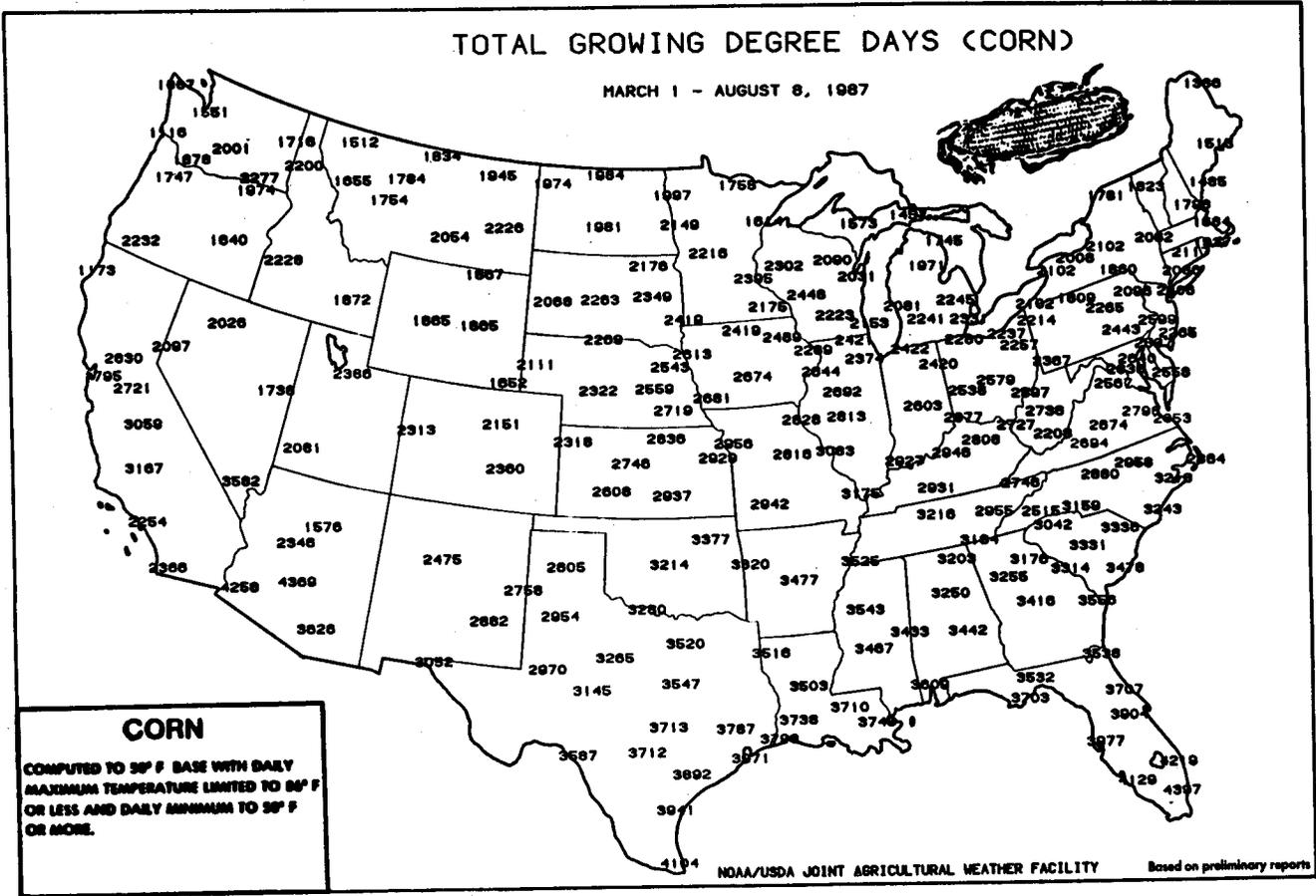




Point values may differ on these computerized maps from the reported values in the tables.







National Weather Data for Selected Cities

Weather Data for the Week Ending August 8, 1987

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 6	PCT. NORMAL SINCE JUNE 6	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	52 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	94	73	98	72	83	3	2.5	1.6	1.3	7.8	77	28.3	79	97	53	6	0	3	3
MOBILE	89	74	96	73	82	-1	2.0	.4	.7	14.5	100	46.9	114	99	68	4	0	6	3
MONTGOMERY	94	74	98	73	84	2	1.4	.7	1.2	11.3	125	38.6	121	97	56	6	0	2	1
AK ANCHORAGE	63	52	66	48	58	0	.2	.3	.2	3.3	93	7.0	100	92	58	0	0	4	0
BARROW	42	34	47	30	38	-1	.1	.1	.1	2.1	146	2.5	108	99	82	0	3	2	2
FAIRBANKS	69	54	75	50	62	2	.2	.2	.2	3.0	84	4.0	70	92	47	0	0	3	3
JUNEAU	67	52	73	47	59	4	.2	.2	.2	8.7	105	23.2	92	91	62	0	0	2	0
KODIAK	61	51	63	44	56	1	.2	.8	.1	18.1	207	47.3	146	94	72	0	0	2	0
NOME	56	51	63	48	54	2	1.3	.7	.5	2.9	70	5.3	75	97	78	0	0	7	1
AZ PHOENIX	105	83	107	78	94	3	1.2	.1	.1	1.2	105	4.4	121	64	25	7	0	2	0
PRESCOTT	87	63	89	60	75	3	1.1	.4	1.1	3.4	73	8.0	75	74	34	0	0	2	0
TUCSON	101	73	104	69	87	2	1.5	.9	1.3	2.0	60	6.6	113	81	28	0	0	2	1
YUMA	106	84	110	77	95	2	1.2	.2	.2	7.0	66	6.6	53	61	26	7	0	1	1
AR FORT SMITH	99	75	102	74	87	5	.5	.2	.5	6.2	82	23.6	96	91	39	7	0	1	1
LITTLE ROCK	98	75	103	72	87	4	.2	.5	.2	4.5	57	21.0	70	72	45	7	0	1	1
CA BAKERSFIELD	104	69	108	65	87	3	0	0	0	.3	517	4.0	103	56	21	7	0	0	0
EUREKA	64	54	66	52	59	2	0	0	0	.5	66	17.9	80	90	72	0	0	0	0
FRESNO	104	68	106	63	86	6	0	0	0	.5	14	6.6	95	62	14	7	0	0	0
LOS ANGELES	76	64	78	62	70	-1	0	0	0	.2	850	3.0	36	95	67	0	0	0	0
REDDING	107	65	111	61	86	4	0	0	0	.2	19	19.3	78	54	12	7	0	0	0
SACRAMENTO	98	60	104	57	79	4	0	0	0	.2	23	8.8	83	74	20	6	0	0	0
SAN DIEGO	77	67	82	66	72	0	0	0	0	.2	50	5.1	83	87	67	0	0	0	0
SAN FRANCISCO	74	54	78	53	64	2	0	0	0	.2	0	8.5	69	92	53	0	0	0	0
CO DENVER	88	62	97	56	75	2	-1	-.3	-1	4.3	110	13.2	126	79	29	3	0	1	0
GRAND JUNCTION	92	62	98	58	77	-1	.3	.1	.2	2.0	183	7.4	167	66	21	5	0	2	0
PUEBLO	93	61	100	57	77	1	.4	.3	.3	2.0	56	6.8	95	91	26	5	0	2	0
CT BRIDGEPORT	82	68	89	64	75	1	1.2	.4	.6	4.6	63	20.5	83	89	58	0	0	4	1
HARTFORD	85	63	92	51	74	1	1.3	.5	1.2	7.3	98	25.8	101	93	50	1	0	4	1
DC WASHINGTON	91	74	99	71	83	4	1.1	.1	1.1	7.6	91	21.0	89	92	50	5	0	1	1
FL APALACHICOLA	93	77	94	74	85	3	1	-1.5	.1	7.6	55	30.6	98	94	62	6	0	2	0
DAYTONA BEACH	93	75	95	73	84	3	1.5	.2	.8	8.6	64	28.3	103	97	61	7	0	3	2
JACKSONVILLE	95	76	98	75	86	4	T	-1.7	T	8.7	61	26.4	84	95	51	7	0	1	0
KEY WEST	91	82	93	79	87	2	T	-.9	T	7.6	78	21.3	110	82	62	7	0	0	0
MIAMI	93	78	95	76	85	3	.3	-1.2	.3	10.9	65	23.7	73	89	54	7	0	1	0
ORLANDO	96	76	99	73	86	3	3.9	2.4	1.7	15.6	93	31.9	102	93	48	7	0	5	3
TALLAHASSEE	94	73	97	71	83	2	.9	-.9	.4	19.8	114	48.3	116	100	58	7	0	5	0
TAMPA	92	77	96	74	85	2	1.1	-.7	.8	11.0	75	31.0	109	94	59	7	0	5	1
WEST PALM BEACH	92	76	93	73	84	1	1.2	.1	1.2	12.3	80	30.7	95	95	61	7	0	1	1
GA ATLANTA	93	73	95	71	83	4	1.2	.4	.5	14.9	164	36.0	110	96	53	7	0	4	1
AUGUSTA	95	75	98	74	85	4	1.4	.5	1.4	10.2	109	32.9	113	99	53	7	0	3	1
MCON	96	75	99	73	85	4	1	-.7	.1	5.6	72	28.3	93	99	51	7	0	3	0
SAVANNAH	95	77	98	75	86	5	1.1	-.5	1.1	13.6	91	36.2	110	93	49	6	0	2	1
HI HONOLULU	84	69	84	67	76	0	.7	-.7	.3	32.2	185	75.4	99	91	61	0	5	0	0
KAHULUI	91	73	92	71	82	2	T	-.1	T	.7	61	3.3	24	83	46	7	0	0	0
LIHUE	87	67	88	64	77	-2	0	0	0	.2	31	12.5	104	85	52	0	0	0	0
LIHUE	87	73	88	70	80	1	T	-.4	T	3.1	74	13.8	56	90	50	0	0	0	0
ID BOISE	92	54	100	49	73	-1	0	0	0	1.3	105	6.4	88	52	14	4	0	0	0
LEWISTON	91	58	97	51	75	0	0	0	0	4.0	192	7.6	95	50	15	4	0	0	0
POCATELLO	89	52	96	46	70	-1	0	0	0	2.6	161	7.7	113	50	15	2	0	0	0
IL CHICAGO	87	67	96	57	77	4	.4	-.4	.4	6.8	80	15.5	74	91	46	3	0	2	0
MOLINE	98	67	101	62	78	4	2.1	1.2	2.0	5.6	55	14.9	62	95	47	4	0	1	1
PEORIA	89	68	99	62	78	4	.8	0	.6	7.0	80	14.8	66	95	48	3	0	2	1
QUINCY	91	68	99	60	79	3	.1	-.8	.1	6.1	65	14.8	63	92	47	4	0	2	0
ROCKFORD	85	66	94	59	76	3	2.1	1.2	1.4	10.2	101	19.6	85	96	50	2	0	3	2
SPRINGFIELD	91	67	100	62	79	3	1.3	.5	.7	9.5	119	16.9	78	97	49	3	0	2	2
IN EVANSVILLE	92	70	98	65	81	4	T	-.7	T	9.2	110	21.8	80	97	52	5	0	1	0
FORT WAYNE	88	66	96	58	77	4	.4	-.4	.3	8.8	112	18.4	84	94	52	2	0	3	0
INDIANAPOLIS	88	67	94	63	77	3	1	-.8	.1	13.4	144	22.5	89	88	52	2	0	1	0
SOUTH BEND	85	66	93	59	76	3	.7	-.2	.3	8.0	92	19.0	83	95	55	2	0	3	0
IA DES MOINES	86	67	90	56	76	1	1.0	.9	1.0	9.0	107	20.4	103	94	53	1	0	4	1
SIoux CITY	85	66	95	59	75	0	1.3	.6	1.0	7.5	91	18.8	110	97	55	1	0	4	1
WATERLOO	84	64	96	56	74	2	3.4	2.5	2.3	11.7	117	20.0	93	96	55	1	0	3	2
KS CONCORDIA	94	70	106	63	82	3	.7	-.1	.4	7.6	90	26.4	147	80	36	5	0	3	0
DODGE CITY	94	69	102	66	81	1	1.7	1.1	1.3	9.6	142	19.4	136	87	37	5	0	2	1
GOODLAND	90	64	96	58	77	2	T	-.5	T	8.4	148	16.2	142	89	34	4	0	2	1
TOPEKA	92	68	102	59	80	1	.3	-.5	.3	8.0	79	24.0	112	91	42	4	0	3	0
WICHITA	99	73	105	66	86	4	.3	-.3	.3	7.0	83	24.4	134	82	31	0	0	3	0
KY BOWLING GREEN	92	70	101	60	81	3	.1	-.8	.1	11.5	117	27.3	85	100	59	3	0	1	0
LEXINGTON	92	71	95	69	82	6	1.0	.8	1.4	13.3	120	25.4	84	93	49	6	0	3	0
LOUISVILLE	91	71	95	70	81	4	1.2	.5	1.2	10.2	119	22.4	80	95	52	6	0	1	1
LA ALBANY	93	76	95	73	84	1	.7	-.3	.5	7.0	82	34.4	100	97	61	6	0	2	1
BATON ROUGE	92	75	94	73	83	1	2.0	.7	1.1	12.0	111	39.5	109	97	61	5	0	4	2
LAKE CHARLES	94	77	95	76	86	3	.3	-.2	.2	20.4	190	41.4	132	94	55	7	0	3	0
NEW ORLEANS	90	76	96	73	83	1	2.0	.6	1.1	23.4	181	40.7	133	90	70	5	0	4	2

Based on 1951-80 normals.

Weather Data for the Week Ending August 8, 1987

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 J.A.N. 1	PCT. NORMAL SINCE J.A.N. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMPERATURE		PRECIPITATION	
																		°F	°F	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	99	75	103	74	87	4	2.2	1.6	2.1	8.9	115	27.5	97	93	42	7	0	3	1	0	
ME CARIBOU	73	50	83	43	62	-3	1.5	-1.5	1.1	7.4	96	16.2	79	97	57	0	0	2	2	1	
PORTLAND	77	58	84	50	67	-1	1.3	-0.6	1.1	8.0	123	26.6	106	95	59	0	0	2	1	1	
MD BALTIMORE	89	72	97	67	81	4	0.7	-0.4	0.7	8.6	97	23.6	94	97	56	4	0	1	1	1	
SALISBURY	88	69	94	64	79	2	0.4	-0.9	0.4	6.6	70	24.9	93	98	57	3	0	2	0	0	
MA BOSTON	79	65	86	61	72	-2	0.6	-0.2	0.3	4.0	61	27.5	108	93	59	0	0	3	0	0	
CHATHAM	74	62	78	59	68	-1	0.2	-0.7	0.2	3.0	44	29.3	109	95	75	0	0	1	1	0	
MI ALPENA	81	55	94	43	68	2	1.6	-0.9	1.4	6.1	87	11.8	68	97	51	1	1	3	1	1	
DETROIT	86	66	96	56	76	3	0.2	-0.6	0.1	10.2	139	19.9	103	90	49	2	2	2	0	0	
FLINT	85	62	94	51	73	3	0.1	-0.7	0.1	3.9	57	11.1	62	99	49	3	3	1	1	1	
GRAND RAPIDS	84	64	93	56	74	2	0.9	-0.2	0.9	7.4	101	13.0	66	93	47	2	2	0	0	0	
HOUGHTON LAKE	80	60	91	49	70	3	0.7	-0.1	0.5	3.4	51	8.4	51	90	47	1	1	4	0	0	
LANSING	85	63	92	54	74	4	0.4	-0.4	0.4	7.2	100	12.4	70	92	48	2	2	2	0	0	
MARQUETTE	77	52	85	39	64	-3	0.7	-0.5	0.1	9.3	137	20.6	117	96	55	0	0	2	0	0	
MUSKOGON	81	63	88	56	72	2	1.1	-0.6	0.6	4.0	70	13.1	73	94	53	0	0	2	1	1	
SAULT ST. MARIE	76	52	91	45	64	-1	1.6	-0.9	1.5	7.9	112	14.9	82	98	59	1	1	3	1	1	
MN ALEXANDRIA	82	61	93	55	71	1	0.2	-0.6	0.1	5.0	62	11.7	74	92	44	1	0	1	1	0	
DULUTH	78	55	90	44	67	1	0.5	-0.4	0.5	6.8	76	12.5	70	94	48	1	0	1	1	0	
INT'L FALLS	79	55	89	44	67	1	0.1	-0.6	0.1	9.2	259	25.6	150	91	52	1	0	2	1	1	
MINNEAPOLIS	81	64	96	57	72	-1	2.2	1.4	2.2	22.1	140	17.2	97	97	65	1	0	3	1	1	
ROCHESTER	79	61	90	53	70	0	1.0	-0.2	0.7	11.9	140	17.2	97	97	65	1	0	3	1	1	
MS GREENWOOD	96	75	100	72	86	4	0.8	-0.7	0.7	7.5	86	30.0	86	95	46	7	7	0	0	0	
JACKSON	95	74	98	72	84	2	2.0	1.1	1.0	9.2	106	35.8	105	97	60	6	6	5	2	0	
MERIDIAN	95	73	99	70	84	2	0.4	-0.4	0.4	9.3	95	40.0	112	99	56	5	5	2	0	0	
MO CAPE GIRARDEAU	93	71	104	64	82	2	0.2	-0.6	0.2	13.2	162	25.3	89	93	52	5	5	3	0	0	
COLUMBIA	96	69	104	61	82	4	0.4	-0.3	0.3	7.9	104	17.3	75	90	38	6	6	2	0	0	
KANSAS CITY	95	70	104	62	82	2	0.3	-0.5	0.3	7.9	81	20.7	92	88	37	6	6	3	2	0	
SAINT LOUIS	93	72	102	67	82	4	3.2	2.6	1.8	11.9	147	21.2	95	91	47	4	4	0	0	0	
SPRINGFIELD	96	70	100	65	83	2	0.8	-0.6	0.8	8.4	94	27.3	111	89	38	6	6	1	0	0	
MT BILLINGS	84	57	91	52	70	0	0.5	-0.2	0.5	3.3	106	9.4	93	65	22	2	2	1	0	0	
GLASGOW	82	54	88	51	68	-3	0.8	-0.3	0.8	4.0	87	7.6	98	75	28	0	0	0	0	0	
GREAT FALLS	81	51	93	50	66	-5	0.5	-0.2	0.5	4.9	119	10.2	96	76	22	1	1	0	1	1	
HAVRE	81	50	91	47	66	-5	0.8	-0.3	0.8	3.4	90	6.1	74	76	26	2	2	0	0	0	
HELENA	84	50	94	46	67	-1	0.1	-0.2	0.1	4.4	132	8.3	105	70	19	1	0	1	0	0	
KALISPELL	81	46	87	39	63	-2	0.2	-0.3	0.2	5.2	150	11.4	117	90	29	0	0	0	0	0	
MILES CITY	84	57	88	53	70	-5	0.8	-0.3	0.8	4.1	89	9.3	93	61	21	0	0	0	0	0	
MISSOULA	85	45	93	37	65	-2	0.8	-0.2	0.8	4.0	138	7.6	90	81	20	2	2	0	0	0	
NE GRAND ISLAND	87	65	98	61	76	-1	1.7	1.1	1.0	4.4	62	18.1	112	95	47	2	2	4	2	2	
LINCOLN	87	66	100	60	77	-1	2.5	1.7	1.2	8.5	107	21.8	120	94	46	2	2	3	1	1	
NORFOLK	85	64	97	58	75	-1	1.3	-0.6	0.7	5.5	66	20.1	119	93	50	1	1	4	2	2	
NORTH PLATTE	86	61	97	55	73	-1	0.2	-0.2	0.2	6.9	96	14.5	101	91	44	2	2	0	0	0	
OMAHA	83	67	95	61	75	-2	4.4	3.5	2.2	11.0	125	24.5	125	93	62	1	1	3	2	2	
SCOTT'S BLUFF	87	59	100	53	73	-2	2.9	2.6	2.0	8.1	157	19.7	177	91	30	2	2	3	2	2	
VALENTINE	85	63	104	58	74	0	2.1	1.6	1.4	8.4	139	16.7	136	82	39	2	2	3	2	2	
NV ELY	88	49	92	46	69	1	0.8	-0.7	0.4	3.3	210	8.2	141	74	21	3	3	3	0	0	
LAS VEGAS	104	81	109	80	92	2	1	-0.1	1	0.3	41	3.4	146	47	21	7	7	1	0	0	
RENO	96	53	99	49	74	3	0.6	-0.2	0.6	0.6	55	6.9	141	33	11	7	0	0	0	0	
WINNEVOCA	96	52	102	45	74	3	0.8	-0.2	0.4	10.0	150	22.3	107	99	47	1	1	0	0	0	
NH CONCORD	83	57	90	44	70	1	2.5	1.3	2.1	10.7	133	30.7	122	98	57	3	3	2	1	1	
NJ ATLANTIC CITY	86	66	95	58	76	1	0.7	-0.4	0.4	1.8	80	4.7	109	83	26	5	5	4	0	0	
NM ALBUQUERQUE	92	65	97	63	78	0	2.2	1.6	1.4	6.9	111	12.2	116	82	30	5	5	3	1	1	
CLOVIS	93	66	95	64	80	2	2.2	1.6	1.4	6.9	111	12.2	116	82	30	5	5	3	1	1	
ROSWELL	99	70	101	62	84	5	0.1	-0.4	0.1	4.2	130	8.4	153	71	26	7	7	2	0	0	
NY ALBANY	82	62	91	51	72	1	0.5	-0.3	0.4	6.5	92	18.8	90	94	51	1	1	2	0	0	
BINGHAMTON	77	62	86	56	69	1	0.2	-0.6	0.2	8.3	105	19.5	89	99	63	0	0	1	0	0	
BUFFALO	78	63	85	53	70	0	0.9	-0.9	0.9	12.4	185	24.5	117	94	56	0	0	2	1	1	
NEW YORK	84	70	91	66	77	1	1.5	-0.5	0.6	12.3	156	20.9	114	95	59	1	1	3	2	2	
ROCHESTER	80	59	86	50	70	-2	0.8	-0.1	0.4	10.5	172	19.8	107	90	56	0	0	1	0	0	
SYRACUSE	81	60	88	53	71	0	0.4	-0.5	0.4	7.6	91	17.0	77	93	54	0	0	2	0	0	
NC ASHVILLE	89	67	93	66	78	4	0.8	-0.2	0.4	11.6	135	29.8	109	99	51	3	3	3	1	1	
CHARLOTTE	93	74	97	72	84	5	2.3	1.4	1.9	6.7	79	23.8	86	94	40	6	6	3	1	1	
GREENSBORO	91	72	96	71	82	4	3.3	2.3	3.3	10.2	111	32.5	123	96	50	4	4	3	1	1	
HATTERAS	87	75	89	73	81	2	1.1	-0.3	0.7	9.3	83	39.5	127	95	69	0	0	2	1	1	
NEW BERN	92	76	98	73	84	4	1.7	-0.2	1.7	13.1	97	33.9	104	95	59	6	6	2	0	0	
RALEIGH	91	72	96	67	82	4	0.5	-0.5	0.5	4.4	40	25.2	96	90	54	5	5	4	2	2	
WILMINGTON	91	75	96	72	83	3	2.9	1.3	1.7	14.3	96	31.8	96	97	64	5	5	4	0	0	
ND BISMARCK	82	56	91	52	69	-2	1.2	-0.8	1.2	7.3	132	14.7	136	95	39	1	1	1	1	1	
FARGO	83	58	93	54	71	-1	0.1	-0.6	0.1	9.0	56	9.2	71	89	40	1	1	1	0	0	
GRAND FORKS	83	50	91	54	70	1	2.5	1.8	2.5	9.0	139	14.9	126	91	41	1	1	1	1	1	
WILLISTON	82	54	86	50	68	-3	0.8	-0.3	0.8	5.7	110	10.2	108	84	32	0	0	0	0	0	
OH AKRON-CANTON	86	63	93	58	75	3	0.7	-0.1	0.7	6.7	83	18.5	81	99	52	2	2	1	1	1	
CINCINNATI	90	69	93	66	79	4	0.8	-0.1	0.6	10.7	116	23.4	89	95	54	3	3	2	1	1	
CLEVELAND	84	64	94	57	74	2	1.7	-0.9	1.5	13.1	170	24.8	113	97	50	1	1	2	1	1	
COLUMBUS	90	67	95	63	78	4	1.5	-0.6	0.8	8.9	99	17.6	73	94	40	3	3	4	2	2	

Based on 1951-80 normals.

Weather Data for the Week Ending August 8, 1987

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 6	PCT. NORMAL SINCE JUNE 6	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F			
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	88	65	94	61	77	2	.2	-.6	.1	7.7	96	17.9	79	94	51	2	0	2	0
TOLEDO	88	64	98	54	76	4	.7	0	.7	7.9	105	16.1	82	99	48	4	0	1	1
YOUNGSTOWN	85	60	92	51	72	2	2.2	1.4	2.2	12.1	143	23.3	100	99	59	1	0	2	1
OK OKLAHOMA CITY	97	75	100	71	86	3	0	-.6	0	9.5	127	30.7	153	80	36	7	0	0	0
TULSA	99	77	102	70	88	4	0	-.6	0	6.5	74	26.5	109	76	35	7	0	0	0
OR ASTORIA	72	54	79	46	63	2	0	-.3	0	1.7	44	32.5	87	97	65	0	0	0	0
BURNS	88	51	95	42	70	1	0	-.1	0	1.8	154	6.9	103	***	***	2	2	0	0
MEDFORD	99	55	106	51	77	5	0	-.1	0	1.5	146	9.4	89	77	15	7	0	0	0
PENDLETON	91	56	98	48	73	0	0	-.1	0	.7	68	5.6	79	47	15	4	0	0	0
PORTLAND	88	58	101	54	73	5	0	-.2	0	1.2	55	19.2	95	84	31	3	0	0	0
SALEM	88	52	99	45	70	3	0	-.1	0	2.8	165	21.7	99	91	28	3	0	0	0
PA ALLENTOWN	84	66	93	63	75	1	.6	-.4	-.6	9.4	109	23.2	88	97	58	2	0	5	1
ERIE	79	64	85	57	71	1	2.6	1.7	2.6	11.8	142	22.9	103	92	61	0	0	1	1
HARRISBURG	87	69	96	65	78	3	1.2	.5	1.2	6.6	85	20.0	84	97	54	3	0	2	1
PHILADELPHIA	89	71	97	64	80	3	.7	-.2	.7	7.6	96	21.3	84	94	51	3	0	2	1
PITTSBURGH	88	66	93	62	77	5	4.4	3.6	2.2	13.1	161	26.3	111	96	47	2	0	3	3
SCRANTON	80	65	88	63	73	1	.4	-.4	.2	10.6	137	21.6	104	97	64	0	0	3	0
RI PROVIDENCE	83	64	88	55	73	0	.4	-.5	.1	3.5	52	23.0	88	98	52	0	0	3	0
SC CHARLESTON	96	76	99	75	86	5	.2	-1.4	.2	8.7	56	29.8	89	94	50	0	0	1	0
COLUMBIA	95	74	99	73	84	3	6.2	4.9	3.1	16.7	148	37.3	116	97	53	6	0	3	3
FLORENCE	93	75	96	73	84	3	1.1	0	1.0	7.0	60	23.8	82	97	53	6	0	2	1
GREENVILLE	92	71	95	69	81	3	2.8	1.9	2.2	13.0	131	33.6	103	100	62	6	0	5	1
SD ABERDEEN	84	68	97	53	72	-1	.8	.3	.3	3.8	62	9.1	72	93	42	2	0	4	0
HURON	86	61	97	56	73	-1	2.4	1.9	.8	6.1	100	15.0	114	95	44	2	0	5	3
RAPID CITY	85	59	97	55	72	-2	1.4	1.0	1.0	3.6	62	9.9	80	86	31	2	0	4	1
SIoux FALLS	85	60	96	54	73	-1	.6	0	.4	5.6	78	12.4	79	94	48	1	0	4	0
TN CHATTANOOGA	95	73	99	71	84	5	2.1	1.3	.8	9.1	103	34.4	102	97	49	7	0	3	3
KNOXVILLE	95	71	97	69	83	5	.1	-.6	.1	7.5	82	26.5	86	96	45	7	0	3	0
MEMPHIS	97	76	100	72	86	4	.1	-.8	.1	5.8	68	23.4	70	85	47	7	0	1	0
NASHVILLE	94	74	99	72	84	5	.1	-.7	.1	5.3	63	18.3	58	94	48	7	0	2	0
TX ABILENE	99	75	100	74	87	2	0	-.5	0	3.8	72	14.8	107	71	29	7	0	0	0
AMARILLO	94	67	97	63	80	2	.4	-.3	.3	4.5	65	12.4	98	81	31	5	0	2	0
AUSTIN	97	75	98	74	86	0	0	-.4	0	14.3	265	26.7	145	97	40	7	0	0	0
BEAUMONT	95	76	97	75	85	2	1.1	-.3	.5	16.8	137	38.2	117	100	54	7	0	2	2
BROWNSVILLE	95	77	96	76	86	1	0	-.5	0	6.4	137	14.6	126	95	51	7	0	0	2
CORPUS CHRISTI	94	75	96	74	84	0	0	-.6	0	8.1	117	22.1	138	97	50	7	0	0	0
DEL RIO	97	74	99	73	86	-1	0	-.3	0	7.7	206	18.1	188	74	31	7	0	0	0
EL PASO	98	69	100	66	83	1	.3	0	.2	3.1	128	4.7	119	80	25	7	0	2	0
FORT NORTH	101	77	103	74	89	2	0	-.4	0	5.2	105	17.8	92	76	32	7	0	0	0
GALVESTON	91	81	93	79	86	2	0	-.9	0	11.6	140	24.8	114	83	58	6	0	0	0
HOUSTON	98	76	100	74	87	4	0	-.8	0	14.2	159	27.6	103	94	41	7	0	0	0
LUBBOCK	96	71	99	68	83	4	0	-.5	0	6.8	120	12.6	114	76	30	7	0	0	0
MIDLAND	99	67	101	65	83	1	0	-.3	0	3.4	96	11.4	147	73	23	7	0	0	0
SAN ANGELO	98	70	100	64	84	0	0	-.3	0	3.5	102	22.9	232	83	28	7	0	0	0
SAN ANTONIO	97	76	97	74	87	2	0	-.5	0	8.9	162	30.2	183	91	37	7	0	0	0
VICTORIA	95	76	96	74	86	1	0	-.6	0	16.7	215	28.7	142	96	46	7	0	0	0
WACO	103	77	106	75	90	3	0	-.4	0	7.3	153	19.7	104	81	29	7	0	0	0
WICHITA FALLS	101	76	106	72	89	3	0	-.4	0	5.2	98	23.5	144	74	31	7	0	0	0
UT Blanding	86	59	91	53	72	-1	.7	.4	.5	3.3	183	8.3	134	79	34	3	0	3	1
Cedar City	91	61	94	57	76	2	.4	-.1	.4	1.6	88	6.4	104	76	25	5	0	2	0
SALT LAKE CITY	93	62	98	55	78	0	0	-.2	0	1.0	51	8.6	87	51	15	6	0	0	0
VT BURLINGTON	81	58	87	49	69	0	.5	-.4	.3	7.7	96	15.5	80	95	50	0	0	2	0
VA NORFOLK	91	74	98	70	83	4	.7	-.5	.6	7.2	72	29.0	106	96	59	3	0	3	1
RICHMOND	94	72	99	70	83	5	.1	-1.1	.1	7.6	75	27.6	105	100	47	6	0	1	0
ROANOKE	91	71	98	68	81	5	.3	-.6	.3	4.2	55	31.5	131	95	49	5	0	2	0
WA COLVILLE	87	52	95	46	70	1	0	-.3	0	3.5	138	11.9	118	68	31	3	0	0	0
QUILLAYUTE	73	49	82	44	61	2	.1	-.5	.1	3.2	52	54.3	95	98	55	0	0	1	0
SEATTLE-TACOMA	82	55	89	53	69	4	0	-.2	0	.5	23	19.1	95	90	37	0	0	0	0
SPOKANE	86	54	93	48	70	0	0	-.2	0	2.9	155	9.4	97	64	18	2	0	0	0
YAKIMA	90	53	96	46	71	1	0	-.1	0	.5	58	4.3	96	77	22	3	0	0	0
WV BECKLEY	87	66	93	61	77	7	2.4	1.5	2.4	8.3	85	27.1	99	96	46	1	0	1	1
CHARLESTON	93	69	95	63	81	6	.1	-1.0	0	7.7	78	22.1	80	97	42	6	0	2	0
HUNTINGTON	93	70	95	67	82	6	.1	-.9	.1	5.8	62	22.4	84	98	47	7	0	2	0
PARKERSBURG	91	67	96	64	79	4	1.3	.5	.9	4.8	54	15.3	62	100	48	4	0	4	1
WI GREEN BAY	82	61	92	47	71	2	.4	-.3	.4	5.0	69	12.3	72	96	50	2	0	2	0
LACROSSE	82	66	91	62	74	1	.8	-.1	.4	12.9	147	23.4	123	94	61	1	0	3	0
MADISON	83	64	91	57	74	3	1.9	1.1	1.3	6.4	74	16.0	83	94	57	1	0	3	2
MILWAUKEE	82	67	93	59	75	3	1.7	1.0	1.7	8.2	103	20.4	105	89	57	2	0	1	1
WAUSAU	79	61	90	50	70	1	.1	-.8	.1	7.6	85	13.5	70	94	54	1	0	2	0
WY CASPER	87	53	97	48	70	-1	.2	.1	.2	2.9	121	9.0	112	69	19	3	0	1	0
CHEYENNE	82	56	91	50	69	0	.6	.3	.3	4.5	104	11.8	122	90	31	2	0	3	0
LANDER	86	55	92	46	71	0	.2	.1	.2	2.1	95	10.7	115	57	17	3	0	1	0
SHERIDAN	83	53	91	48	68	-3	.3	.1	.3	4.5	132	10.2	90	80	28	2	0	2	0
PR SAN JUAN	88	78	89	77	83	1	.7	-.5	.7	11.2	99	40.6	145	97	79	0	0	2	1

Based on 1951-80 normals.

Cooling Degree Days Summary

CLIMATE ANALYSIS CENTER-MSC-MNS-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-NRDIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 8-8-1987
ACCUMULATIONS ARE FROM JANUARY 1
** - NORMAL LESS THAN 100 OR RATIO INCALCULABLE

Table with columns: STATE CITY, CALL, WEEK, WEEK, WEEK, CUM, CUM, CUM, CUM, CUM, STATE CITY, CALL, WEEK, WEEK, WEEK, CUM, CUM, CUM, CUM, CUM. Lists cooling degree days for various cities across the US.

July Weather and Crop Summary

JULY WEATHER SUMMARY

HIGHLIGHTS: Thunderstorms covered nearly all of the Nation. Heavy precipitation accumulated from western Iowa through the upper Mississippi Valley and from southern Missouri to central Ohio. Rain was scarce from western Pennsylvania to central Georgia, except for isolated areas. Relatively dry weather also plagued parts of the central and southern Great Plains, the Southwest, and much of the Mississippi Delta. Temperatures were warmer than normal east of the Mississippi River and in the central and northern Plains. At month's end, an intense heat wave covered the central and northern Plains but was relieved as the month ended. The West was cooler than normal.

The first 4 days of July had beneficial rain in the Ohio Valley; however, some heavy amounts caused local flooding. Severe weather on the fourth provided natural fireworks from the central Great Plains to the upper Mississippi Valley.

FIRST WEEK... Warm air in eastern United States, being fed moisture from the Gulf of Mexico, spawned numerous thunderstorms. The heaviest thundershowers and severe weather occurred in the eastern half of the northern Plains, the Ohio Valley, and the Northeast. Isolated downpours covered the rest of the East. Early-week, afternoon temperatures were in the high nineties through the northern Plains, but much cooler weather pushed southward at midweek. Later, temperatures were in the high nineties from Georgia to New Jersey. Much cooler air pushed into the northern Rockies at week's end and triggered moderate rain showers. Average temperatures were warmer than normal east of the Mississippi River and cooler in the West.

SECOND WEEK... Showers and thunderstorms were widespread over most of the Nation. Torrential rain in central Texas caused serious flooding. Flooding also occurred in Oklahoma, Nebraska, Minnesota, and Wisconsin. The least shower activity was in parts of the Southwest and Southeast. Some record-cool weather was in parts of the Great Lakes region, and unusually warm weather moved through the northern Plains. However, average temperatures were near normal in most of the Nation but unusually cool from the central Plains to the central Plateau.

THIRD WEEK... Widespread showers and thunderstorms covered the area from the northern Plains to New York and New England. Severe weather and heavy rain recurred frequently west of the Great Lakes and was rampant from eastern Texas, through Arkansas and southern Missouri, to the lower Mississippi Valley, and across the South. Heavy showers in the Northwest caused flooding in the Cascades. A heat wave persisted all week in the East from south-central Pennsylvania southward. However, the warmest departure from normal was in the central Great Lakes. The West was cooler than normal.

FOURTH WEEK... An intense heat wave covered the central and northern Great Plains and most of the South. Toward week's end, the heat pushed over the western midwest. Showers and thunderstorms were widespread in most of the Mississippi Valley and eastward, but little or no rain fell in the central and southern Plains. Thunderstorms also reached from the Southwest through the northern Rockies into Canada. Severe storms dropped heavy

rain from western Wisconsin to east-central Illinois.

JULY CROP DEVELOPMENT

Inadequate moisture and above-normal temperatures plagued the Southeast during most of July. The effect of the dryness became evident near the end of the month when crop condition declined. Crop development pushed ahead of normal in the Corn Belt and central and northern Great Plains. Excessive heat stressed crop in the Corn Belt and central and northern Great Plains the last half of the month, especially the last week. Crop condition remained mostly good despite the dryness.

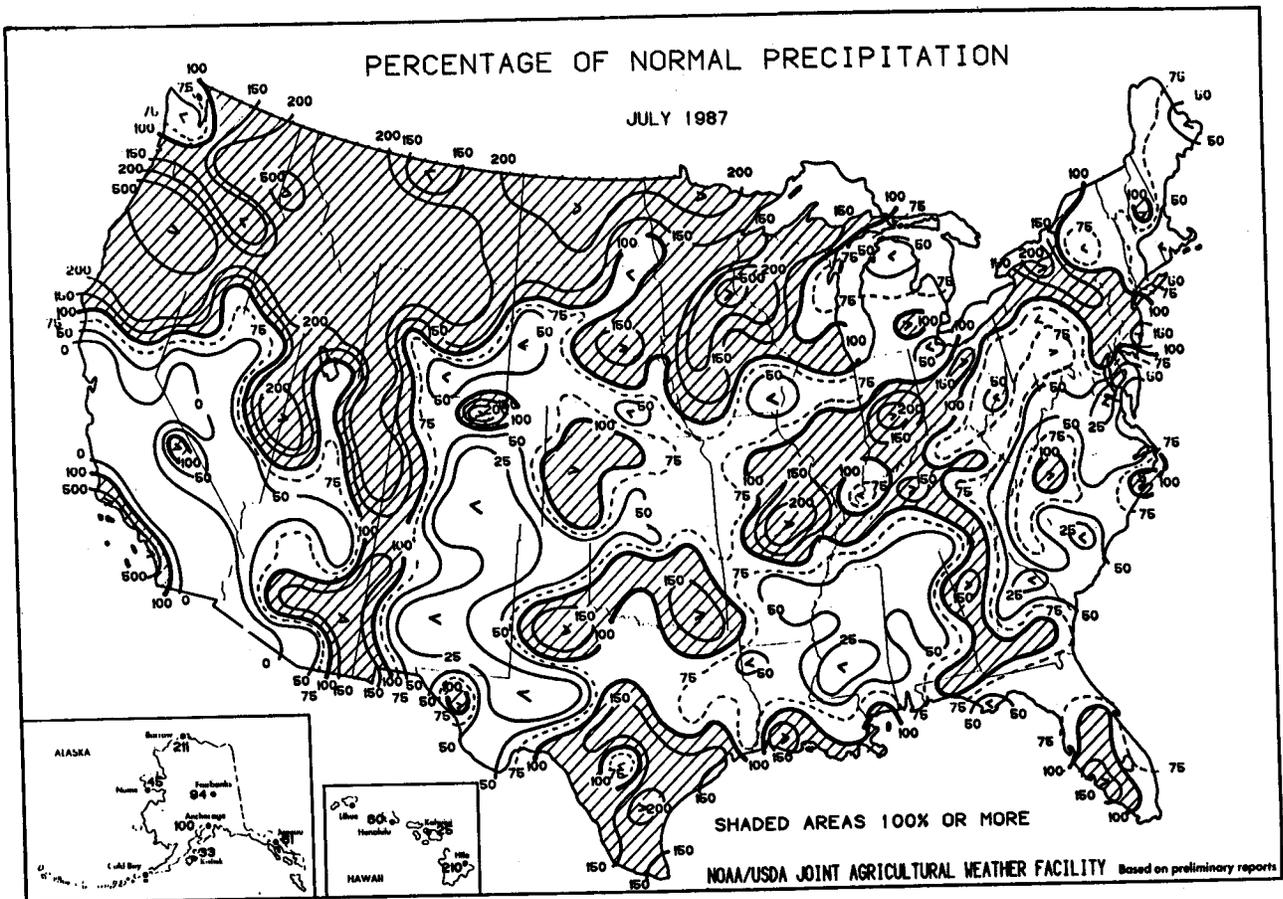
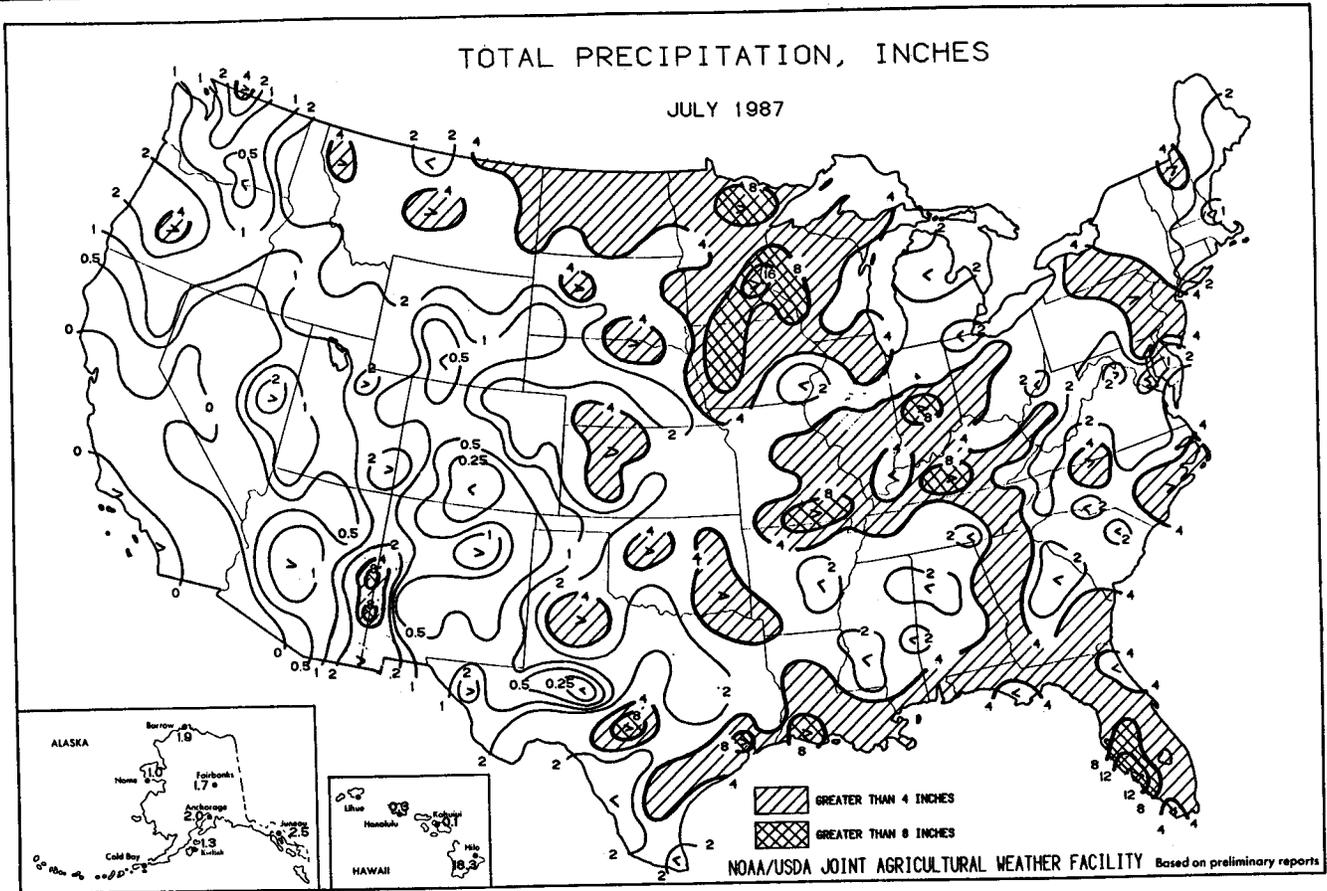
Corn development and maturity surged ahead of normal during July, especially in the Corn Belt and central Great Plains. The hot, dry weather severely restricted growth and development of late planted corn in the Southeast. On August 2, 96 percent of the corn acreage reached the silking stage compared with 79 percent normally. Corn reaching the dough stage was 27 points ahead of the 22 percent average. Fourteen percent of the acreage had ears in the dent stage, compared with 6 percent normally. Corn harvest spread across central and south central Texas and gained momentum in the Southeast and Delta.

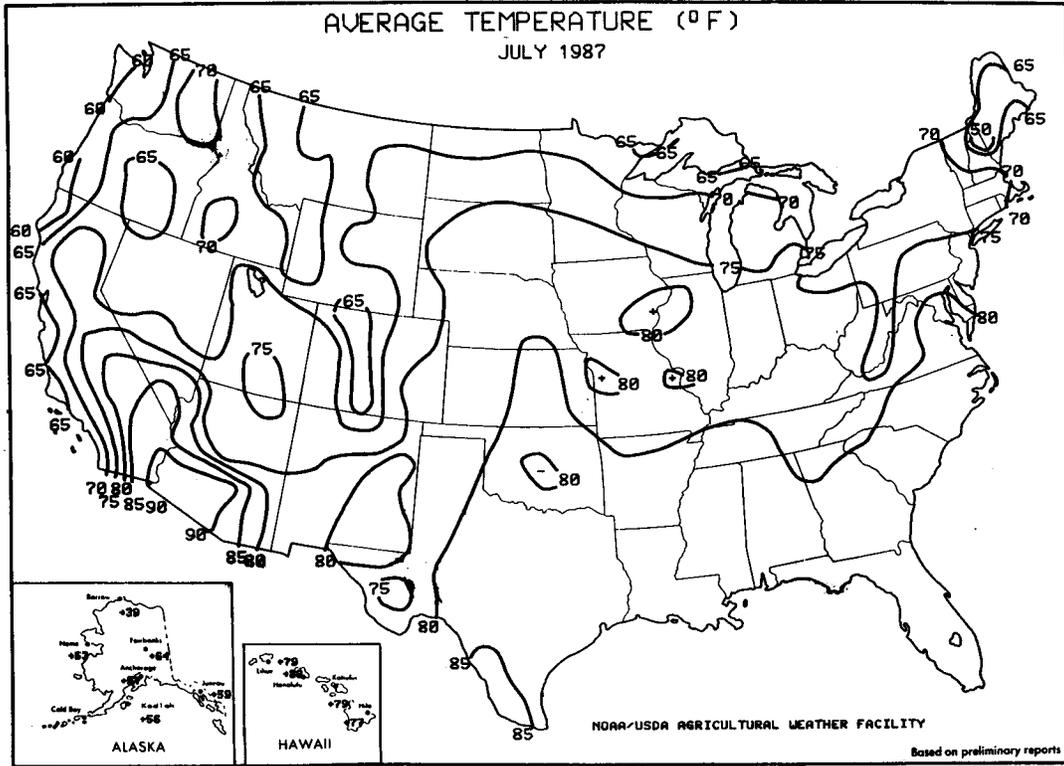
Soybeans were mostly good until the heat and low soil moisture forced crop condition to decline in the Great Plains, Corn Belt, and Southeast. The effects of the dry weather was less severe in the Corn Belt and central and northern Great Plains. However, crop condition dropped to fair to good in the Southeast. At month's end soil moisture was critically short as soybeans headed into the pod setting and filling stage in the Southeast. In the 17 major producing States, 83 percent of the acreage was blooming and 58 percent was setting pods. Normally 71 percent would be blooming and 34 percent could be setting pods.

Sorghum was 46 percent headed, compared with 45 percent in 1986 and the 33 percent average. Twenty-one percent of the acreage had turned color, equaling the average but was 3 points behind last year. By the end of August harvest was expanding across Texas but still lagged 17 points behind the 40 percent average.

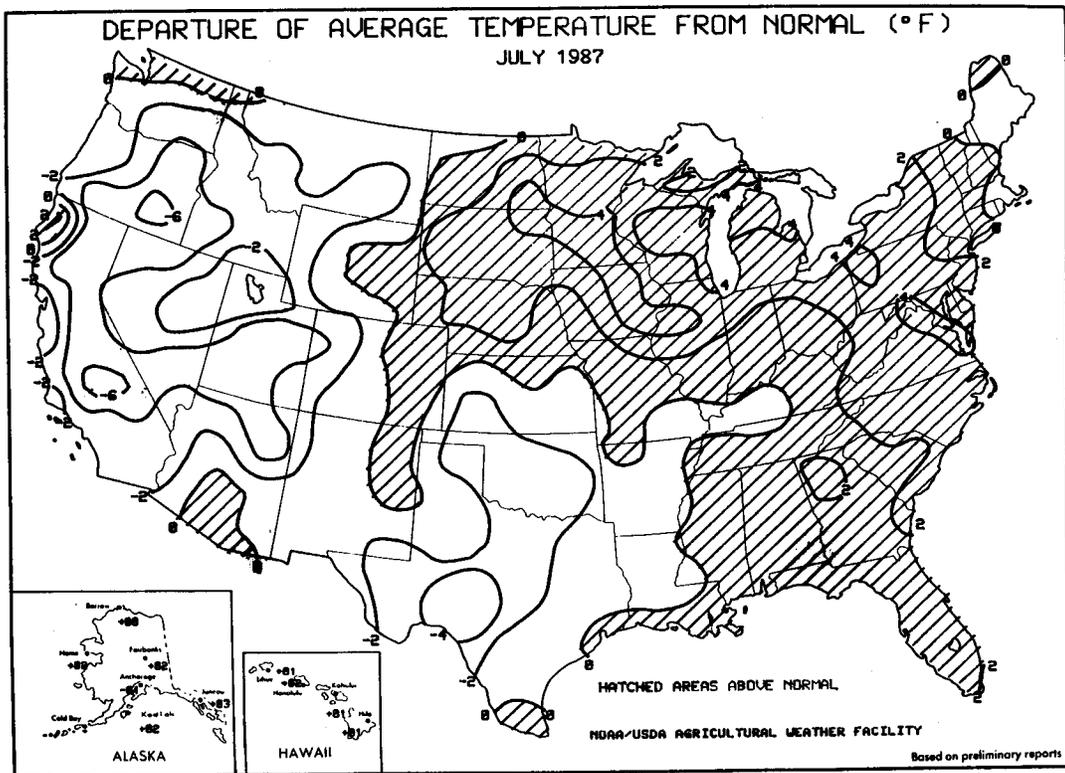
Cotton was mostly good during July. Cotton thrived on the high temperatures and humidity but showed stress towards the end of the month in the Delta and Southeast. The lack of moisture slowed growth in the Delta and Southeast and caused some fruit droppage in Alabama and South Carolina. Non-irrigated cotton began wilting in Arkansas. On August 2, cotton setting bolls was 10 points ahead of the 62 percent average. Bolls were opening in Arizona, Alabama, Georgia, Tennessee, and Texas. Cotton harvest was underway in Texas.

The 20 major winter wheat producing States combined 89 percent of the crop, 2 points ahead of normal. By the end of August, harvest was mostly concentrated in the Pacific Northwest but fields remained to be harvested in California, Nebraska, South Dakota, and some Corn Belt States. Spring wheat harvest reached 19 percent completion, compared with 7 percent in 1986 and 9 percent normally. Minnesota's harvest was 32 percent finished, more than 4 times greater than the 5-year average. Harvest was just beginning in Minnesota but was 3 points behind normal.





Point values may differ on these computerized maps from the reported values in the tables.



Temperature and Precipitation Data for July 1987

States and Stations	Temperature Of		Precipitation Inches		States and Stations	Temperature Of		Precipitation Inches		States and Stations	Temperature Of		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
AL BIRMINGHAM	81	0	1.4	-4.0	LA ALEXANDRIA	81	-2	4.4	-0.1	OK COLUMBUS	77	3	3.9	-0.1
MOBILE	82	0	4.2	-3.5	BATON ROUGE	82	0	6.4	-0.7	DAYTON	75	1	4.4	1.0
MONTGOMERY	82	1	2.1	-2.7	LAKE CHARLES	83	1	9.2	3.9	TOLEDO	75	3	1.5	-1.7
AK ANCHORAGE	57	-1	2.0	0.1	NEW ORLEANS	83	1	6.4	-0.3	YOUNGSTOWN	74	4	3.2	-0.8
BARROW	39	0	2.0	1.1	SHREVEPORT	82	-1	1.2	-2.4	OK OKLAHOMA CITY	80	-2	3.0	0.0
FAIRBANKS	64	3	1.7	-0.1	ME CARIBOU	66	1	3.1	-0.9	TULSA	82	-1	4.2	0.7
JUNEAU	59	3	2.5	-1.6	PORTLAND	68	0	1.8	-1.0	OR ASTORIA	59	-1	1.1	0.0
KODIAK	56	2	1.3	-2.4	MD BALTIMORE	80	3	5.1	1.3	BURNS	63	-6	1.0	0.8
NOME	53	3	1.0	-1.2	MA BOSTON	79	2	3.6	-0.9	MEDFORD	70	-2	1.3	1.1
AZ FLAGSTAFF	63	-3	1.9	-0.6	MI ALPENA	72	-2	0.8	-1.9	PENDLETON	69	-5	0.3	0.1
PHOENIX	93	1	1.1	0.4	CHATHAM	67	-1	1.3	-1.6	PORTLAND	67	0	1.0	0.6
PRESCOTT	73	0	0.4	-2.0	MI DETROIT	70	4	1.1	-2.0	SALEM	65	-1	2.5	2.2
TUCSON	87	1	0.5	-0.6	FLINT	76	4	2.2	-0.9	PA ALLENTOWN	76	2	4.4	0.3
WINSLOW	75	-4	0.5	-0.6	GRAND RAPIDS	76	5	2.2	-0.6	ERIE	75	5	3.9	0.5
YUMA	93	-1	T	-0.1	HOUGHTON LAKE	74	2	2.9	0.0	HARRISBURG	78	2	2.0	-1.3
AR FORT SMITH	81	-1	2.9	-0.2	LANSING	72	5	1.6	-1.3	PHILADELPHIA	80	3	4.8	1.0
LITTLE ROCK	82	0	1.0	-2.6	MARQUETTE	74	4	3.3	0.8	PITTSBURGH	76	3	2.4	-1.4
CA BAKERSFIELD	77	-7	0.0	0.0	MUSKOGON	67	1	4.9	2.1	SCRANTON	73	2	5.8	2.5
EUREKA	60	3	0.2	0.1	SAULT ST. MARIE	73	3	2.1	-0.3	RI PROVIDENCE	72	-1	1.2	-1.8
FRESNO	77	-4	0.0	0.0	MN ALEXANDRIA	67	3	3.2	0.2	SC CHARLESTON	83	2	2.9	-4.4
LOS ANGELES	77	-3	0.1	0.1	DULUTH	74	3	3.1	0.1	COLUMBIA	83	2	4.0	-1.4
REDDING	66	-5	0.2	0.0	INT'L FALLS	68	2	5.5	1.6	FLORENCE	83	2	1.5	-4.2
SACRAMENTO	78	-5	0.0	0.0	MINNEAPOLIS	68	2	7.9	4.0	GREENVILLE	80	2	3.6	-0.9
SAN DIEGO	72	-4	0.0	0.0	ROCHESTER	76	3	17.9	14.4	SD ABERDEEN	76	4	2.1	-0.3
SAN FRANCISCO	67	-3	T	0.0	ST. CLOUD	74	3	7.2	3.4	HURON	76	2	2.2	-0.1
STOCKTON	63	1	T	0.0	MS GREENWOOD	73	3	4.4	1.0	RAPID CITY	76	3	0.8	-1.3
CO DENVER	73	-5	0.0	-0.1	JACKSON	82	0	3.8	-0.7	SIoux FALLS	77	3	3.1	0.5
GRAND JUNCTION	74	1	0.8	-1.2	MERIDIAN	82	0	1.0	-3.6	TN CHATTANOOGA	81	2	1.8	-2.7
PUEBLO	75	-4	1.5	1.1	MO COLUMBIA	82	0	1.3	-4.1	KNOXVILLE	79	1	4.7	0.4
CT BRIDGEPORT	77	0	0.1	-1.7	KANSAS CITY	80	0	3.0	-1.1	MEMPHIS	82	0	2.1	-1.9
HARTFORD	75	1	1.8	-1.7	SAINT LOUIS	81	2	5.0	1.4	NASHVILLE	80	1	2.6	-1.3
DC WASHINGTON	83	4	2.6	-1.3	SPRINGFIELD	79	0	2.6	-1.0	TX ABILENE	82	-2	1.9	-0.2
FL APALACHICOLA	83	2	3.1	-4.0	MT BILLINGS	70	-2	2.2	1.4	AMARILLO	77	-2	0.8	-1.9
DAYTONA BEACH	82	1	2.8	-2.8	GLASGOW	70	0	2.9	1.2	AUSTIN	83	-1	3.5	1.6
FT. MYERS	85	2	14.2	5.6	GREAT FALLS	67	-3	3.1	2.0	BEAUMONT	83	0	3.4	-2.5
JACKSONVILLE	83	0	4.4	-2.0	HAVRE	68	-2	1.4	0.1	BROWNSVILLE	84	0	1.6	0.2
KEY WEST	85	1	3.1	-0.5	HELENA	66	-2	2.9	1.8	CORPUS CHRISTI	83	-1	3.2	0.8
MIAMI	84	2	5.2	-0.8	KALISPELL	64	-1	4.0	3.1	DEL RIO	82	-4	2.0	0.3
ORLANDO	84	1	8.0	-0.1	MILES CITY	74	-1	3.0	1.5	EL PASO	82	-1	0.6	-0.9
TALLAHASSEE	82	1	6.3	-2.4	MISSOULA	65	-2	2.5	1.6	FORT WORTH	83	-2	1.8	-0.4
TAMPA	83	1	6.1	-1.3	NE GRAND ISLAND	79	2	1.3	-1.4	GALVESTON	84	1	4.8	1.0
WEST PALM BEACH	83	1	4.4	-1.6	LINCOLN	79	2	1.8	-1.4	HOUSTON	84	0	4.8	1.2
GA ATLANTA	81	3	7.4	2.6	NORFOLK	78	2	3.7	0.5	LUBBOCK	80	0	4.3	2.0
AUGUSTA	83	2	1.0	-3.4	NORTH PLATTE	76	1	2.8	-0.2	MIDLAND	81	-1	0.3	-1.4
MACON	82	1	1.4	-3.1	OMAHA	79	1	4.7	1.1	SAN ANGELO	80	-4	0.2	-1.0
SAVANNAH	84	2	4.4	-3.0	SCOTTSDUFF	75	1	1.1	-0.8	SAN ANTONIO	84	-1	1.2	-0.7
HI HILO	77	1	18.3	9.6	VALENTINE	76	2	3.3	0.8	VICTORIA	84	0	5.0	2.4
HONOLULU	82	2	0.3	-0.3	NV ELKO	67	-3	0.1	-0.2	WACO	84	-1	1.5	-0.3
KAHULUI	79	1	0.1	-0.2	ELY	65	-3	2.3	1.7	WICHITA FALLS	82	-3	1.5	-0.5
LIHUE	79	0	1.7	-0.4	LAS VEGAS	87	-3	0.1	-0.3	UT ELANDING	72	-2	2.5	1.5
ID BOISE	71	-3	0.7	0.5	RENO	68	-1	T	-0.3	CEDAR CITY	71	-3	1.1	0.0
LEWISTON	72	-3	2.6	2.1	WINNEMUCA	68	-4	0.2	0.0	MILFORD	71	-3	1.7	1.1
POCATELLO	68	-3	1.9	1.5	NH CONCORD	71	1	3.8	0.8	SALT LAKE CITY	76	-2	0.8	0.1
IL CAIRO	82	1	4.3	0.3	NJ ATLANTIC CITY	76	2	6.1	2.1	VT BURLINGTON	71	2	2.8	-0.6
CHICAGO	77	4	4.2	0.9	NM ALBUQUERQUE	78	-1	0.9	-0.4	VA NORFOLK	82	4	3.2	-1.9
MOLINE	80	5	2.0	-2.9	CLOVIS	78	0	0.4	-2.5	RICHMOND	81	3	1.2	-3.9
PEORIA	79	4	2.9	-1.1	ROSWELL	80	0	0.4	-1.3	ROANOKE	79	3	3.2	-0.2
QUINCY	79	2	3.8	-0.6	NY ALBANY	73	2	2.5	-0.5	WA COLVILLE	69	1	1.6	0.8
ROCKFORD	76	3	5.0	0.5	BINGHAMTON	71	2	4.4	0.9	QUILLAYUTE	59	0	1.4	-1.3
SPRINGFIELD	79	2	4.1	0.6	BUFFALO	74	3	3.1	0.1	SEATTLE-TACOMA	64	0	0.4	-0.4
IN EVANSVILLE	78	0	3.2	-0.8	NEW YORK	78	1	4.4	0.8	SPOKANE	67	-3	2.3	1.8
FORT WAYNE	75	2	2.9	-0.5	ROCHESTER	73	1	5.8	3.3	WALLA WALLA	72	-4	0.9	0.5
INDIANAPOLIS	76	1	9.2	4.9	SYRACUSE	73	3	2.2	-1.6	YAKIMA	68	-2	0.4	0.3
SOUTH BEND	76	3	3.6	0.0	NC ASHVILLE	75	1	1.9	-2.0	WV BECKLEY	73	3	1.7	-3.1
IA DES MOINES	79	3	5.1	1.9	CHARLOTTE	82	4	1.4	-2.5	CHARLESTON	77	2	4.2	-1.1
DUBUQUE	75	3	5.6	1.3	GREENSBORO	80	3	5.8	1.6	ELKINS	72	3	1.3	-3.4
SIoux CITY	77	1	3.1	-0.3	HATTERAS	80	2	4.8	-0.6	HUNTINGTON	77	1	3.1	-1.6
WATERLOO	77	4	5.6	0.9	NEW BERN	82	3	4.9	-1.8	PARKERSBURG	77	2	1.3	-2.8
KS CONCORDIA	81	2	3.5	0.1	RALEIGH	81	3	1.8	-2.6	WI GREEN BAY	73	4	2.2	-1.0
DODGE CITY	77	-3	4.1	1.0	WILMINGTON	82	2	5.2	-2.3	LACROSSE	77	4	9.4	5.6
GOODLAND	76	0	3.0	0.6	ND BISMARCK	72	2	4.6	2.6	MADISON	75	3	3.3	-0.5
TOPEKA	78	-1	2.8	-1.3	FARGO	74	3	2.9	-0.5	MILWAUKEE	75	4	4.2	0.7
WICHITA	80	-1	2.1	-1.5	GRAND FORKS	71	2	5.0	2.2	WAUSAU	73	3	5.5	1.5
KY BOWLING GREEN	77	-1	8.4	4.0	WILLISTON	70	0	5.0	3.2	NY CASPER	71	0	1.9	0.8
JACKSON	76	3	6.4	1.5	AKRON-CANTON	74	3	2.9	-1.2	CHEYENNE	69	1	2.0	0.2
LEXINGTON	77	1	3.5	-1.5	CINCINNATI	76	1	5.1	0.8	LANDER	70	0	0.5	-0.2
LOUISVILLE	79	1	5.3	1.2	OH CLEVELAND	75	3	3.4	0.0	SHERIDAN	68	-2	3.0	2.1
									PR SAN JUAN	83	1	3.4	-1.6	

Based on 1951-80 normals.

National Agricultural Summary

AUGUST 3 to 9, 1987

HIGHLIGHTS: Cooler temperatures and precipitation relieved crop stress in the central Great Plains, Corn Belt, and Southeast. Crop condition declined despite rain. Soil moisture remained short in most areas, especially in the Delta and Southeast. The lack of moisture caused wilt and plant death in some areas of the Delta. Farmers were able to work 5 to 6 days in most areas of the Nation.

Winter wheat was 94 percent (%) harvested, compared with 93% in 1986 and the 92% 5-year average. Harvest was concentrated in the Pacific Northwest and in Montana. Spring wheat harvest reached 39% completion, up 20 percentage points from the previous week and 13 points above normal. Harvest lagged behind normal in Montana. Corn was 29% dented, 18 points above normal. Sixty-seven percent of the acreage reached the dough stage, 30 points above the average. Harvest increased in the Southeast and Delta. Soybeans were setting pods 23 points faster than normal. Seventy-four percent was setting pods, and 90% reached the bloom stage. Sorghum was 75% headed, compared with 56% normally. Sorghum turning color was 29% finished, 5 points above normal. Cotton bolls were present on 86% of the acreage, 9 points ahead of normal. Bolls opened normally in the 14 major producing States. Bolls opened rapidly in Arizona, Missouri, and Texas. Rice was 72% headed, compared with 54% normally. Harvest was 5 points behind normal and 8 points below 1986. Livestock stress eased in most areas.

SMALL GRAINS: Winter wheat was 94% harvested, 1 point ahead of 1986 and 2 points above normal. Harvest was finished except in California, Colorado, Idaho, Montana, Oregon, and Washington. In Montana, harvest climbed 34 points above the previous week to 55% completion, just slightly ahead of normal. Oregon's harvest was 73% finished, compared with 77 in 1986 and 61% normally. Wheat combining was 10 points ahead of normal in Idaho and 13 points above normal in Washington.

Spring wheat harvest advanced 20 points to 39% finished. This compares with 22% harvested normally and 19% in 1986. Harvest increased substantially from the previous week in all States except Montana. As a result, harvest lagged 9 points behind the 5-year average in Montana. Harvest neared completion in South Dakota and was nearly two-thirds finished in Minnesota. Both States were ahead of their average by 34 and 43 points, respectively. North Dakota's producers harvested 18% of their acreage, ending the week 25% finished.

CORN: Corn development pushed ahead of normal in most areas. Crop condition was mostly good in the central and northern Great Plains and Corn Belt but was fair to good in Southeast and Delta. Precipitation eased stress and provided moisture for late filling ears in the Corn Belt, central Plains, and Southeast. In the 17 major producing States, 67% of the acreage reached the dough stage, 30 points above normal. Acreage with ears reaching the dent stage more than doubled from the previous week to 29%. Normally, 11% would have ears in the dent stage, and in 1986, 18% would have reached the dent stage. Corn was maturing slower than normal in the Southeast and Delta, but harvest gained momentum. Harvest was underway in Alabama, Georgia, Louisiana, South Carolina, and Texas, climbing as high as 24% completion in Alabama and Texas. Severe hail and wind damaged corn in the Panhandle of Nebraska. Inadequate

moisture caused late planted corn not to fill ears completely in Ohio.

SOYBEANS: Soybeans welcomed the relief provided by cooler temperatures and precipitation in the Southeast, Corn Belt, and central Plains. Stress eased, but more moisture is needed especially in the Southeast and Delta. Soybeans condition varied from good to fair in the Corn Belt and central and northern Great Plains to mostly fair in the Southeast. This is a gradual decline from the previous week. Ninety percent of the acreage reached the blooming stage, compared with 82% normally. Pod setting increased 16 points from the previous week to 74% finished, 23 points ahead of normal. The dry weather inhibited soybean pod set in Arkansas and caused root and stem disease. Some soybeans wilted and dropped pods from heat stress in Ohio.

SORGHUM: In the 11 major producing States, sorghum was 75% headed, 19 points ahead of normal. Twenty-nine percent of the acreage turned color, equaling 1986 but was 5 points ahead of normal. Harvest was 11% finished, 7 points above normal in both Alabama and Texas. Harvest was just getting underway in Louisiana, but 10% would normally be harvested by now.

COTTON: Cotton was mostly good to fair in the Delta and fair in the Southeast. Crop condition was good to excellent in the Southwest. Bolls were present on 86% of the acreage, compared with 77% normally. Virtually all States were ahead of normal. Despite the rapid set, bolls were opening at the normal pace. Boll opening was 12 points ahead of normal in Missouri and 15 points above normal in Arizona. Hail damaged some cotton in southeast Arizona, with most acres expected to be lost. Bolls matured and opened rapidly in west and central areas. Cotton bolls opened rapidly in the Blacklands and central areas of Texas. Harvest began at Coastal Bend and was in full swing in the Rio Grande Valley.

OTHER CROPS: Rice was 72% headed, 3 points behind 1986 but 18 points above normal. Harvest was 4% finished but trailed 5 points behind normal. Farmers prepared for harvest in Arkansas.

Tobacco harvest continued throughout the Southeast but lagged behind normal. Burley cutting was underway in Kentucky and Tennessee.

Peanuts were fair to good in the Southeast. Pegging was virtually finished in Alabama and Georgia. Harvest was underway in Mississippi and southern Texas. Dryland peanuts were under stress in Texas. Heavy irrigation provided adequate moisture for good growth at Cross Timbers.

FRUIT AND NUTS: Peach harvest slowed in the Southeast but gained momentum in northern producing areas. Record-high temperatures swept across Florida's citrus producing areas, causing heavy irrigation. Foliage was abundant in well cared for groves. Citrus progressed well in Texas. Apple, table grape, nectarine, peach, pear, plum, and pomigranate harvests were active in California. Advocado and valencia orange harvests slowed.

VEGETABLES: Limited summer vegetables and melons were available from northern and Panhandle areas of Florida. Most producers were busy preparing land and planting fall vegetables. Land

(Continued to back cover)

Crop Progress

FOR WEEK ENDING AUGUST 9, 1987

**SOYBEANS
% BLOOM**

	1987	1986	AVG.
ALA	64	66	68
ARK	68	58	50
GA	80	57	70
ILL	99	98	93
IND	99	93	90
IOWA	100	93	91
KANS	85	90	65
KY	81	67	62
LA	78	85	76
MICH	98	85	90
MINN	100	98	98
MISS	67	65	72
MO	90	87	73
NEBR	95	100	91
N C	49	48	49
OHIO	100	100	95
S C	53	47	53
S DAK	98	83	85
TENN	70	65	70

19 STATES 90 86 82

THESE 19 STATES PRODUCED 96% OF THE 1986 SOYBEANS CROP.

**SOYBEANS
% SETTING PODS**

	1987	1986	AVG.
ALA	35	42	39
ARK	39	32	24
GA	41	22	35
ILL	95	79	68
IND	90	52	44
IOWA	92	76	69
KANS	70	60	30
KY	39	30	23
LA	52	61	50
MICH	65	30	35
MINN	94	69	58
MISS	31	36	31
MO	73	64	46
NEBR	80	81	76
N C	20	18	20
OHIO	90	87	66
S C	28	20	19
S DAK	75	59	53
TENN	40	35	25

19 STATES 74 61 51

THESE 19 STATES PRODUCED 96% OF THE 1986 SOYBEANS CROP.

**WINTER WHEAT
% HARVESTED**

	1987	1986	AVG.
ARK	100	100	100
CALIF	99	99	99
COLO	97	95	93
GA	100	100	100
IDAHO	35	41	25
ILL	100	100	100
IND	100	100	100
KANS	100	100	100
MICH	100	98	95
MO	100	100	100
MONT	55	57	53
NEBR	100	100	100
N MEX	100	100	NA
N C	100	100	100
OHIO	100	100	100
OKLA	100	100	100
OREG	73	77	61
S DAK	100	97	93
TEX	100	100	100
WASH	66	49	53

20 STATES 94 93 NA

EXCL. STATES WITH NA 94 93 92

THESE 20 STATES PRODUCED 91% OF THE 1986 WINTER WHEAT CROP.

NA - NOT AVAILABLE.

**COTTON
% SETTING BOLLS**

	1987	1986	AVG.
ALA	99	97	94
ARIZ	99	98	98
ARK	100	100	98
CALIF	100	95	83
GA	98	91	95
LA	97	98	93
MISS	100	100	90
MO	100	98	95
N MEX	91	60	84
N C	94	88	85
OKLA	50	50	45
S C	91	89	93
TENN	98	90	87
TEX	76	68	67

14 STATES 86 81 77

THESE 14 STATES PRODUCED 100% OF THE 1986 COTTON CROP.

**COTTON
% BOLLS OPENING**

	1987	1986	AVG.
ALA	5	2	2
ARIZ	25	6	10
ARK	3	5	1
CALIF	5	2	0
GA	3	7	5
LA	4	27	7
MISS	1	10	NA
MO	12	0	0
N MEX	0	4	13
N C	0	0	0
OKLA	0	0	0
S C	0	0	0
TENN	2	1	1
TEX	9	11	9

14 STATES 7 9 NA

EXCL. STATES WITH NA 7 9 6

THESE 14 STATES PRODUCED 100% OF THE 1986 COTTON CROP.

NA - NOT AVAILABLE.

**SPRING WHEAT
% HARVESTED**

	1987	1986	AVG.
IDAHO	23	16	11
MINN	63	16	20
MONT	11	12	18
N DAK	25	11	15
S DAK	92	56	58

5 STATES 39 19 22

THESE 5 STATES PRODUCED 94% OF THE 1986 SPRING WHEAT CROP.

**RICE
% HEADED**

	1987	1986	AVG.
ARK	77	77	43
CALIF	15	15	13
LA	85	94	81
MISS	78	98	63
TEX	98	100	95

5 STATES 72 75 54

THESE 5 STATES PRODUCED 97% OF THE 1986 RICE CROP.

**RICE
% HARVESTED**

	1987	1986	AVG.
ARK	0	0	0
CALIF	0	0	0
LA	10	30	21
MISS	0	0	NA
TEX	18	40	36

5 STATES 4 11 NA

EXCL. STATES WITH NA 4 12 9

THESE 5 STATES PRODUCED 97% OF THE 1986 RICE CROP.

NA - NOT AVAILABLE.

	CORN % DOUGH		
	1987	1986	AVG.
COLO	25	24	25
GA	100	100	99
ILL	88	78	64
IND	92	65	45
IOWA	60	44	25
KANS	80	65	40
KY	74	62	35
MICH	45	10	15
MINN	57	13	8
MO	92	87	63
NEBR	45	48	27
N C	77	93	85
OHIO	85	74	47
PA	37	23	21
S DAK	48	23	15
TEX	94	90	85
WIS	41	29	21
17 STATES	67	52	37

THESE 17 STATES PRODUCED 94% OF THE 1986 CORN CROP.

	CORN % DENT		
	1987	1986	AVG.
COLO	3	1	0
GA	96	98	91
ILL	50	37	21
IND	33	9	3
IOWA	30	10	3
KANS	40	20	10
KY	42	36	22
MICH	5	0	0
MINN	11	0	0
MO	67	64	35
NEBR	6	8	2
N C	59	78	64
OHIO	26	16	13
PA	5	2	1
S DAK	9	0	0
TEX	71	76	68
WIS	8	0	0
17 STATES	29	18	11

THESE 17 STATES PRODUCED 94% OF THE 1986 CORN CROP.

	CORN % MATURE		
	1987	1986	AVG.
COLO	0	0	0
GA	68	92	74
ILL	0	NA	NA
IND	0	0	0
IOWA	0	0	0
KANS	25	5	2
KY	8	1	0
MICH	0	0	0
MINN	0	0	0
MO	0	0	0
NEBR	0	0	0
N C	23	34	29
OHIO	1	0	0
PA	0	0	0
S DAK	0	0	0
TEX	56	66	58
WIS	0	0	0
17 STATES	3	NA	NA

EXCL. STATES WITH NA 4 4 3

THESE 17 STATES PRODUCED 94% OF THE 1986 CORN CROP.

NA - NOT AVAILABLE.

	GRAIN SORGHUM % COLORING		
	1987	1986	AVG.
ARK	66	58	NA
ILL	22	NA	NA
KANS	10	5	2
LA	53	89	72
MISS	63	64	NA
MO	41	37	15
NEBR	5	4	0
OKLA	25	20	15
S DAK	4	0	0
TENN	40	50	30
TEX	59	64	65
11 STATES	31	NA	NA

EXCL. STATES WITH NA 29 29 24

THESE 11 STATES PRODUCED 96% OF THE 1986 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

	GRAIN SORGHUM % HEADED		
	1987	1986	AVG.
ARK	96	87	NA
ILL	95	78	NA
KANS	55	55	30
LA	94	100	95
MISS	97	94	87
MO	90	83	71
NEBR	85	77	52
OKLA	60	50	50
S DAK	77	49	47
TENN	93	85	85
TEX	87	79	79
11 STATES	76	70	NA

EXCL. STATES WITH NA 75 69 56

THESE 11 STATES PRODUCED 96% OF THE 1986 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

Crop Condition

FOR WEEK ENDING AUGUST 9, 1987

STATE	RICE				
	VP	P	F	G	EX
ARK	0	0	21	79	0
CALIF	0	0	0	75	25
LA	0	0	18	73	9
MISS	0	17	18	65	0
TEX	0	0	14	76	10

STATE	SPRING WHEAT				
	VP	P	F	G	EX
IDAHO	0	2	17	62	19
MINN	0	5	46	46	3
MONT	0	1	13	47	39
N DAK	0	0	28	67	5
S DAK	3	4	38	53	2

STATE	GRAIN SORGHUM				
	VP	P	F	G	EX
ARK	0	2	23	55	20
ILL	0	0	9	68	23
KANS	0	6	8	43	43
LA	0	2	42	56	0
MISS	0	4	33	63	0
MO	0	4	30	59	7
NEBR	0	0	36	64	0
OKLA	0	0	10	90	0
S DAK	0	2	39	49	10
TENN	2	3	41	54	0
TEX	0	0	17	66	17

(Continued to back cover)

State Summaries of Weather and Agriculture

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

ALABAMA: Rainfall totals ranged under 0.25 to 2.00 in.; isolated totals over 3.00 in. Temperatures averaged 3 to 5° above normal; near normal southwest.

Days suitable for fieldwork 5.4. Soil moisture 68% short, 32% adequate. Scattered showers relieved heat stressed crops, livestock some areas; more rain needed. Corn 93% dented, 95% 1986, 89% avg.; 75% mature, 81% 1986, 60% avg.; 24% harvested, 37% 1986, 18% avg.; 37% fair, 60% good, 3% excellent. Sorghum 11% harvested, 9% 1986, 4% avg.; 9% poor, 47% fair, 44% good. Cotton 99% setting bolls, 97% 1986, 94% avg.; 5% bolls opened, 2% 1986, 2% avg.; 3% poor, 35% fair, 62% good. Peanuts 100% pegging, 96% 1986, 99% avg.; 13% fair, 87% good. Soybeans 64% blooming, 66% 1986, 68% avg.; 35% setting pods, 42% 1986, 39% avg.; 6% turning color, 5% 1986, 1% avg.; 5% poor, 53% fair, 42% good. Pastures mostly fair; livestock mostly good. Primary activities: Harvesting corn, hay, summer vegetables; clipping pastures; applying fungicides to peanuts; spraying for insects on cotton, peanuts, vegetables, pecans; repairing harvest equipment; routine care of livestock, poultry.

ALASKA: NO DATA AVAILABLE.

ARIZONA: Monsoon active through 5th, especially northeast. Low pressure trough moved slowly across south, produced intense storms. Heaviest rainfall 4th, 2.00 in. Sierra Vista, Bisbee; over 1.50 in. Alpine. On 5th, Yuma received first measurable rains since May. Number, intensity of storms decreased 6th to 8th. Activity limited to central mountains, southeast. Rainfall 0.10 to 0.25 in. western one-third, 0.25 to 1.50 in. elsewhere, except locally 2.50 in. White Mountains, southeast. Average temperatures 10 below normal to 30 above.

Heavy hail storm 1st, 2nd damaged cotton southeast. Cotton in cut out phase earlier than 1986, fruiting presently at low level. Good crop expected. Bolls matured, cracked, opened rapidly west, central. Insect, mite populations monitored, sprayed as needed. Irrigation heavy. Limited alfalfa cutting central areas. Rain on cut hay south. Cutting minimal; quality good. Weed, insects light. Corn excellent southeast, crop matured rapidly. Corn silage harvested. Sorghum good, heading out. Apple deal began southeast; limited amount of early variety red delicious picked, stored for later packing. Carrots dug central areas. Green chili harvested southeast. Preliminary ground preparation fall vegetable crop continued west. Watermelon movement central area light; last shipments from west. Crop progressed southeast, few harvested. Honeydew, cantaloup movement light Aguila. New crop citrus sizing, developed satisfactorily; groves good.

ARKANSAS: Very warm despite cold front. Temperatures above normal. Rainfall very spotty, generally light. Temperature extremes 62°; 111°. Rainfall none to 1.74 in.

Days suitable for fieldwork 7.0. Soil moisture 90% short, 10% adequate. Rice, sorghum, corn harvest preparation. Scouting, insecticides applied cotton. Continual irrigation soybeans, cotton. Dry weather inhibited soybean pod set. Sudden death syndrome, root, stem diseases, soybeans. Sheath blight, blast diseases rice; treatment applied. Corn 3% fair, 90% good, 1% excellent. Alfalfa 8% poor, 64% fair, 28% good.

Other hay 10% poor, 85% fair, 5% good. Watermelons, peas, okra, tomato harvest continued. Forage production declining, dry conditions. Livestock fair condition.

CALIFORNIA: Warm high pressure area over west coast brought above normal temperatures most area prevented chances precipitation. Most areas cooled somewhat weekend as high weakened, sea breezes developed.

Warm, open weather, good summer crop progress. Early seeded rice headed. Wild rice harvest progressed. Harvest underway early seeded fields safflower, dry beans, field corn. Sugarbeet, alfalfa hay harvests active. Cotton progress good, early fields open bolls. Desiccant applied alfalfa seed, prepared for harvest. Burning, disking continued harvested small grain fields. Little acreage yet to harvest. Irrigation, pest control, other field activities about normal. Apple, table grape, nectarine, clingstone and freestone peach, asian and bartlett pear, plum, pomegranate harvests active. Avocado, valencia orange harvests slowed. Wine grape, prune, almond harvests started. Dates dusted for fungus, beetles. Artichokes light, good quality, Salinas. Harvesting also active Santa Cruz-San Mateo coast. Asparagus fields replanted, desert. Snap bean packing normal volume, south coast, desert. Broccoli moderate Salinas; fairly heavy, Santa Maria; good quality. Fall fields good progress Westside. Carrot fairly heavy Salinas, good quality. Production Kern-Tulare, fairly heavy declining, pulling continued from Cuyama Valley, good quality. Fields Westside being picked. Cauliflower moderate both Salinas, Santa Maria, good quality. Fall planting continued Westside. Celery moderate both Salinas-Watsonville, Santa Maria-Oceano, good quality but poor market conditions. Normal production continued as fall crop planted, transplanted, south coast. Sweet corn good supply, most producing areas. Harvesting light south coast. Fall fields made good progress Westside. Cucumber packing active Delta, Westside, south coast. Lettuce both Salinas, Santa Maria, moderate, variable weight, quality. Watermelon, cantaloup, honeydew, mixed melon harvests active, statewide. Watermelon harvest picked up, desert, as demand improved, while weak prices slowed production Kern-Tulare. Dry onion digging active desert. Dehydrator onion fields Tulelake-Butte Valley looked very good. Pepper picking very light Salinas, good quality. Production active central valley, south coast, good quality. Summer potato digging continued Hemet-San Jacinto. Fall fields Tulelake-Butte Valley continued to grow well, crop progress 2 weeks ahead. Tomatoes for processing, fresh market continued full production, good quality, statewide. Fresh pack harvesting Kern-Tulare essentially completed, while production south coast improved. Late fields for fresh market planted, Westside. Hot, dry weather caused range conditions to decline. Fire danger remained high, continued major concern of ranchers all elevations. Supplemental feeding increased. Stockwater supplies below normal.

COLORADO: Temperatures 10 below to 50 above normal. Warm summer weather; thundershower activity over most of State; none to 1.48 in. precipitation.

Days suitable for fieldwork 6.0. Soil moisture short. Winter wheat harvest final stages. Other small grains good. Corn good. Irrigation on going with adequate supplies. Sorghum 24% headed.

Barley 53% harvested. Summer potatoes 9% harvested. Early peach harvest underway on west slope. Livestock good. Pastures remained fair due to seasonal drying.

FLORIDA: Weak high pressure dominated with mainly afternoon, evening thunderstorms spreading variable amounts of rain over State. Most areas under 1.50 in. rain. Temperatures slightly above normal.

Soil moisture mostly adequate; some topsoils dry, upper half Peninsula. Tobacco harvest, haymaking active. Corn harvest increased. Soybeans, peanuts, cotton good progress. Sugarcane progress normal. Pastures varied from fair to excellent, generally good. Cattle mostly good. Record high temperatures citrus areas; very little rain most groves. Irrigation all sections. Abundant foliage well cared for groves. Caretakers cultivating, spraying, fertilizing. Typical summer weather vegetable producing areas. Land preparation, planting gained momentum. Quincy tomato planting complete. Limited supplies summer vegetables, melons continued north, Panhandle areas.

GEORGIA: Temperatures 3 to 50 above normal. Maximum temperatures upper 90s central, south; high of 100° Albany, Macon, Blakely, Jesup. Northern half 1.00 in. or more; local totals 2.00 to 5.00 in., particularly northeast mountains; over 6.00 in. Tallulah Falls. Rainfall over south under 0.25 in.

Days suitable for fieldwork 5.5. Soil moisture 13% very short, 52% short, 35% adequate. Corn 13% harvested, 29% 1986, 19% avg. Sorghum grain 3% poor, 45% fair, 52% good. Peanuts 5% poor, 21% fair, 74% good; 100% pegging, 95% 1986, 99% avg. Tobacco 50% fair, 46% good, 4% excellent; 63% harvested, 64% 1986, 69% avg. Watermelons 5% very poor, 10% poor, 68% fair, 17% good; 95% harvested, 98% 1986, 94% avg. Apples 15% fair, 85% good; 15% harvested, 27% 1986, 30% avg. Peaches 97% harvested, 100% 1986, 98% avg. Pecans 1% poor, 32% fair, 67% good. Pasture 2% very poor, 5% poor, 40% fair, 53% good. Hay 2% very poor, 7% poor, 36% fair, 55% good. Cattle 16% fair, 84% good. Hogs 12% fair, 83% good, 5% excellent. Main activities: Irrigating where available; spraying herbicides, insecticides; harvesting tobacco, watermelons, corn, apples, peaches.

HAWAII: Clear skies, light winds produced record temperatures. Irrigation, spraying heavy to combat heat, pest problems. Rainfall light, mostly nocturnal, in windward areas. Crops generally fair to good. Variable winds 5 to 15 mph. Temperatures low 70s to low 90s. Rainfall ranged none to 4.00 in.

Days suitable for fieldwork 7.0. Banana, papaya production moderate to heavy. Chinese cabbage output moderate, increased disease due to weather. Head cabbage production moderate. Watermelon supplies heavy.

IDAHO: Temperatures below normal. Precipitation below normal.

Days suitable for fieldwork 7.0. Winter wheat 35% harvested, 41% 1986, 25% avg. Spring wheat 23% harvested. Spring barley 29% harvested, 25% 1986, 16% avg. Oats 16% harvested. Potatoes good, 22% turning color. Dry peas 68% harvested, 66% 1986, 28% avg. Mint 61% harvested. Range, pastures good, grazing adequate. Second cutting alfalfa 65%. Livestock good.

ILLINOIS: Temperatures averaged near normal. Precipitation highly variable, ranging from about 3.50 in. southwest to none south, heaviest totals generally west.

Days suitable for fieldwork 6.0. Soil moisture 64% short, 36% adequate. Alfalfa hay 3rd crop 50% cut, 37% 1986, 32% avg.; 2% very poor, 18% poor,

43% fair, 33% good, 4% excellent. Pasture 9% very poor, 13% poor, 45% fair, 30% good, 3% excellent.

INDIANA: Temperatures averaged 2 to 40 above normal. Lows mid 50s, highs low 90s. Precipitation widespread. Rainfall varied from 0.50 south to 2.00 northeast.

Days suitable for fieldwork 5.5. Topsoil moisture 30% short, 67% adequate, 3% surplus. Subsoil moisture 28% short, 72% adequate. Corn, soybeans mostly good to excellent. Alfalfa 99% cut twice, 90% 1986, 93% avg. Pasture 1% very poor, 8% poor, 41% fair, 46% good, 4% excellent. Soil moisture became shorter lowering corn, soybean conditions.

IOWA: Precipitation spotty, moderate rainfall except east central, southeast. Temperatures cooled early week; 50° Clarion, 51° Keosauqua 5th.

Days suitable for fieldwork 6.3. Topsoil moisture 65% short, 35% adequate; subsoil moisture 40% short, 60% adequate. Hay 3% very poor, 13% poor, 23% fair, 51% good, 10% excellent. Second crop alfalfa 96% harvested, 95% 1986, 93% avg.; 3rd crop 20% harvested, 9% 1986, 7% avg. Second crop clover 80% harvested, 79% 1986, 76% avg. Corn 96% milk stage, 83% 1986, 62% avg. Livestock reported slow gains from heat stress, some death loss. Face flies consistent problem on cattle. Pastures 10% very poor, 17% poor, 35% fair, 32% good, 6% excellent.

KANSAS: Temperatures averaged mid 70s northwest to 80s east, southeast. Northeast, east central 40 above normal, elsewhere averages within 1 to 20 of normal. Precipitation varied considerable with high of 1.40 in. southwest. Elsewhere precipitation averaged 0.50 to 1.00 in.

Days suitable for fieldwork 6.0. Soil moisture 69% short, 31% adequate. Cool front lowered temperatures, caused rain scattered areas, relieved drought stress most crops. More rain needed to maintain current level progress. Corn well ahead of schedule, scattered infestations corn borer required treatment. Sorghum good progress, greenbug infestations noted, treatment necessary scattered localities. Farmers scouting fields for chinch bug during dry weather. Soybeans good progress, generally ahead schedule. Third cutting alfalfa 60% complete, some 4th cutting noted but regrowth very light. Range, pastures good, grazing adequate to abundant.

KENTUCKY: Continued hot, humid. Lows upper 60s to mid 70s, highs upper 80s to mid 90s. Scattered thundershowers throughout week with rainfall amounts 0.50 in. west to 1.00 in. east.

Days suitable fieldwork 5.3. Soil moisture 19% very short, 53% short, 27% adequate, 1% surplus. Corn developed well. Soybean development ahead of normal. Need rain during pod set. Tobacco 1% very poor, 5% poor, 52% fair, 40% good, 2% excellent. Barley 64% topped, 54% 1986, 46% avg. Cutting underway. Hay, pastures fair to good.

LOUISIANA: Temperature normal to 40 above normal. Temperature extremes 70°; 103°. Rainfall averaged 0.22 to 3.28 in.

Days suitable for fieldwork 5.0. Soil moisture 42% short, 40% adequate, 18% surplus. Corn good; 99% dough stage, 100% 1986, 98% avg.; 58% mature, 91% 1986, 77% avg.; 10% harvested, 35% 1986, 27% avg. Cotton: 97% setting bolls, 98% 1986, 93% avg.; 4% open bolls, 27% 1986, 7% avg. Rice 85% headed, 94% 1986, 81% avg.; 22% ripe, 41% 1986, 32% avg.; 10% harvested, 30% 1986, 21% avg. Sorghum 94% headed, 100% 1986, 95% avg.; 53% turning color, 89% 1986, 72% avg.; 11% ripe, 59% 1986, 33% avg.; 2% harvested, 21% 1986, 10% avg. Soybeans 78% blooming, 85% 1986, 76% avg.; 52% setting pods, 61% 1986, 50% avg. Hay final cutting 19%, 26% 1986,

10% avg. Sweetpotatoes good; 7% harvested, 12% 1986, 9% avg. Sugarcane, livestock good; pasture fair to good; vegetables fair. Main activities: Harvesting corn, rice, sweetpotatoes; cutting hay; weed, insect control. Irrigating cotton, soybeans northeast section.

MARYLAND & DELAWARE: Maryland: Temperatures averaged 80°, 76° normal; lowest temperature 58° Oakland; highest temperature 99°. Precipitation averaged 0.55 in., ranging from 0.07 in. Chestertown to 1.81 in. Oakland.

Days suitable for fieldwork 6.4. Topsoil moisture short. Subsoil moisture very short to short, mostly short. Corn fair. Corn 95% silked, 90% avg. Corn 65% dough, 55% avg. Corn 30% dent, 20% avg. Soybeans fair. Soybeans 60% bloomed, 50% avg. Soybeans 35% set pods, 25% avg. Tobacco poor to fair, mostly poor. Tobacco 55% bloomed, 60% avg. Pasture fair. Apples, peaches good. Peaches 45% harvested. Sweet corn 75% harvested, 70% avg.

Delaware: Temperatures averaged 79°, 76° normal. Precipitation averaged 1.23 in.

Days suitable for fieldwork 6.6. Topsoil, subsoil moisture very short to short, mostly short. Soybeans fair to good, mostly fair. Soybeans 50% bloomed, 60% avg. Soybeans 30% set pods, 30% avg. Corn poor to fair, mostly fair. Corn 50% dough, 60% avg. Corn 25% dent, 30% avg. Watermelons 40% harvested, 30% avg.

MICHIGAN: Temperatures ranged 10 below to 40 above normal. Temperature extremes 41°; 96°. Precipitation ranged from none to 2.30 in. across State.

Days suitable for fieldwork 6.0. Soil moisture 85% short, 15% adequate. Corn 98% silked, 90% 1986, 85% avg.; 45% dough, 10% 1986, 15% avg.; none dent, none 1986, none avg.; 5% very poor, 15% poor, 35% fair, 30% good, 15% excellent. Soybeans 98% bloomed, 85% 1986, 90% avg.; 65% setting pods, 30% 1986, 35% avg.; 2% very poor, 13% poor, 35% fair, 35% good, 15% excellent. Wheat 100% harvested, 98% 1986, 95% avg. Dry beans 95% bloomed, 90% 1986, 85% avg.; 60% setting pods, 25% 1986, 35% avg.; 10% very poor, 20% poor, 35% fair, 25% good, 10% excellent. Major activities: Oats harvesting, hay making, soil preparation for winter wheat planting, harvesting fruits, vegetables; spraying, mowing orchards.

MINNESOTA: Temperatures averaged near normal to 30° below normal for State. Extremes 41°; 99°. Precipitation averaged 2.12 in. above normal south central. Near normal central, east central, southeast, 0.11 to 0.64 in. below normal elsewhere.

Days suitable for fieldwork 5.5. Topsoil moisture 11% very short, 29% short, 56% adequate, 4% surplus. Spring wheat 83% cut, 34% 1986, 44% avg.; 63% combined, 16% 1986, 20% avg. Oats 97% cut, 73% 1986, 79% avg.; 88% combined, 52% 1986, 53% avg. Barley 97% cut, 46% 1986, 70% avg.; 70% combined, 21% 1986, 45% avg. Field corn 94% in milk, 64% 1986, 48% avg.; 57% in dough, 13% 1986, 8% avg. Soybeans 94% setting pods, 69% 1986, 58% avg. Sweet corn 45% harvested, 26% 1986, 15% avg. Winter wheat 95% harvested, 77% 1986, 75% avg. Rye 95% harvested, 77% 1986, 75% avg.

MISSISSIPPI: Temperatures 10 below to 60° above normal; extremes 63°; 103°. Hot, humid, wet due to upper level disturbance over deep south. Greatest weekly total rainfall 9.51 in. Greatest 24-hour total rainfall 5.34 in.

Days suitable for fieldwork 5.3, 6.3 1986, 4.6 avg. Soil moisture 24% very short, 37% short, 36% adequate, 3% surplus. Corn 98% dough stage, 99% 1986, 95% avg.; 90% dented, 88% 1986, 85% avg.; 38% mature, 53% 1986, 44% avg.; 2% very poor, 3% poor, 8% fair, 64% good, 23% excellent. Hay 74%

harvested, 73% 1986, 71% avg. Sorghum silage 33% harvested, 41% 1986, 35% avg. Watermelons 83% harvested, 79% 1986, 71% avg. Corn silage 49% harvested, 60% 1986, 43% avg. Peaches 99% harvested, 98% 1986, 89% avg. Peanuts 7% harvested, 18% 1986. Rice 78% headed, 98% 1986, 63% avg.; 17% poor, 18% fair, 65% good. Sorghum 97% headed, 94% 1986, 87% avg.; 63% coloring, 64% 1986; 9% mature, 25% 1986; 4% poor, 33% fair, 63% good. Cotton 100% set bolls, 100% 1986, 90% avg.; 1% open bolls, 10% 1986; 11% poor, 9% fair, 78% good, 2% excellent. Soybeans 67% blooming, 65% 1986, 72% avg.; 31% set pod, 36% 1986, 31% avg.; 10% poor, 42% fair, 48% good.

MISSOURI: Temperatures averaged 3 to 40° above normal. Precipitation 0.25 in. Bootheel, 3.00 in. St. Louis, scattered amounts up to 1.00 in. elsewhere.

Days suitable for fieldwork 6.1. Topsoil moisture 83% short, 17% adequate. Alfalfa hay 3rd cutting 88%, 68% 1986, 50% avg. Pasture 10% very poor, 34% poor, 47% fair, 9% good.

MONTANA: Temperatures averaged 3 to 40° below normal across State. Thunderstorms east 0.74 in.; west 0.50 in.

Days suitable for fieldwork 6.2. Topsoil moisture 15% short, 82% adequate, 3% surplus. Subsoil moisture 9% short, 91% adequate. Barley 1% poor, 11% fair, 58% good, 30% excellent. Barley 18% harvested, 16% 1986, 23% avg. Oats 14% harvested, 12% 1986, 22% avg. Second cutting alfalfa hay 46% harvested, 42% 1986, 42% avg. Wild hay 84% harvested, 82% 1986, 83% avg. Grasshopper infestation 1% none, 25% light, 60% moderate, 14% heavy. Stockwater supplies 11% short, 89% adequate.

NEBRASKA: Cooler temperatures across State. Precipitation averaged 2.00 in. for State. Temperatures averaged 20° below normal. Extremes 48°; 102°.

Days suitable for fieldwork 5.7. Topsoil moisture 81% short, 17% adequate, 2% surplus. Subsoil moisture 59% short, 41% adequate. Oats 99% harvested, 100% 1986, 99% avg. Severe hail, wind, water damage to field beans, corn, sugarbeets portions of Panhandle district from storms early week. Alfalfa hay fair to good. Third cutting 40%, 16% 1986, 17% avg. Spider mites, bean leaf beetles, grasshoppers major crop insect concerns. Pasture, range supplies mostly adequate to short. Some supplemental feeding drier areas. Reduced livestock stress from cooler weather.

NEVADA: Mostly hot, dry, temperatures averaged 50° above normal many areas. Heavy rain showers southern, eastern locations. Caliente most with 1.03 in., Ely 0.94 in., flash flooding some southern areas. Rainfall elsewhere only trace to few hundredths.

Small grain harvesting, haying operations favored by hot, dry weather. Garlic harvest about 50% complete. Ranges, pastures continued to deteriorate from hot, dry conditions.

NEW ENGLAND: Precipitation averaged 1.00 to 1.50 in. central, 0.50 to 1.00 in. north and south. Temperatures near normal ranged from low 60s northern Maine, upper 60s and low 70s central, mid 70s south.

Days suitable for fieldwork 6.0. Soil moisture 11% very short, 37% short, 47% adequate, 5% surplus. Grazing availability 6% very short, 38% short, 50% adequate, 6% surplus. Fieldwork progress 2.5 days ahead. Maine potatoes excellent. Field corn good to excellent. Sweet corn good; 30% harvested, 24% 1986, 25% avg. Shade tobacco good; 40% picked. Outdoor tobacco good; 10% picked. Second crop hay 55% cut, 42% 1986, 53% avg.; fair to good. Third crop hay 10% harvested, 12% 1986,

11% avg.; fair south, good north. Apples fair to good, size small to medium. Major farm activities: Haying, harvesting, irrigating, spraying.

NEW JERSEY: Temperatures averaged above normal. Extremes 550; 990. Rainfall averaged 3.05 in. north, 2.48 in. central, 1.98 in. south. Heaviest 24-hour total 3.28 in. on 5th, 6th. Estimated soil moisture percent field capacity averaged 79% north, 68% central, 58% south. Four inch soil temperatures averaged 720 north, 750 central, 780 south.

Some areas received heavy amounts of rain from thunderstorms on 9th. Summer vegetables generally moderate supply. Planting of fall vegetables near completion. Irish potato digging general as conditions permitted. Peach, summer variety apple harvest active. Fall varieties sizing well. Rain benefited sweetpotatoes, field corn, soybeans, hay, pastures. Third cutting of hay progressed, 2nd cutting complete. Oat combining active as conditions permitted.

NEW MEXICO: Temperatures over State slightly above normal. Low 430 Chama, high temperature 1030 Carlsbad. Two-three inch rain north central mountains, eastern plains; near 1.00 in. amounts scattered areas.

Days suitable for fieldwork 6.5. Soil moisture 44% short, 56% adequate. Some localized hail damage reported. Alfalfa 43% fair, 57% good. Third cutting 89% complete statewide. Cotton 100% good; 91% setting bolls, no bolls reported open. Irrigated grain sorghum 29% fair, 71% good; 36% heading. Dryland sorghum 50% fair, 50% good; 63% heading. No reports of wheat planting activity to date. Onion harvest continued Mesilla, Hatch Valleys, high plains, other scattered areas. Price poor, quality still above average, harvest conditions still very good. Potato harvest began, poor prices reported. Pecans 20% fair, 80% good. Chile 20% fair, 80% good; some light harvest activity. Range 13% poor, 74% fair, 13% good; additional rains needed to maintain condition. Cattle, sheep fair to good.

NEW YORK: Hot, humid weather early week changed to dry, cool conditions by 5th. Temperatures averaged near normal. Scattered thunderstorms statewide.

Days suitable for fieldwork 6.0. Soil moisture adequate. Pastures good. Corn excellent. Wheat 85% harvested, 67% 1986, 82% avg. Second cut alfalfa 66% complete, 46% 1986, 62% avg. Clo-tim harvest virtually complete. Oats 35% harvested, 12% 1986, 24% avg. Fruit good. Harvest of early apples, peaches continued. Sweet corn fields excellent.

NORTH CAROLINA: Temperatures averaged 3 to 50 above normal. Temperature extremes 550; 1010. Precipitation ranged from 0.15 to 5.64 in. across State. Storms scattered statewide.

Days suitable for fieldwork 5.9. Soil moisture 30% very short, 50% short, 19% adequate, 1% surplus. Pasture 8% very poor, 40% poor, 40% fair, 12% good. Tobacco 1% very poor, 11% poor, 68% fair, 20% good. Peanuts 3% poor, 67% fair, 30% good. Hay 4% very poor, 36% poor, 48% fair, 12% good. Sweetpotatoes 7% poor, 64% fair, 29% good. Fruit crops fair to good. Truck crops mostly fair. Peaches 78% harvested, 86% 1986, 85% avg. Major farm activities: Tobacco related topping, spraying for sucker control, irrigation, harvesting; cutting and baling hay; cultivating tobacco, soybeans, peanuts, cotton; harvesting hay, vegetables, peaches, corn silage; shearing Christmas trees; tending livestock; general farm maintenance.

NORTH DAKOTA: Cooler, drier week. Temperatures averaged normal to 30 below normal. Extremes 450

west central; 960 southeast. Scattered showers, thunderstorms early week, midweek. Precipitation heaviest northeast 2.45 in.

Days suitable for fieldwork 6.5. Topsoil moisture well above normal; 8% short, 90% adequate, 2% surplus. Subsoil moisture well above normal; 8% short, 92% adequate. Small grains ahead of average. Spring wheat 25% combined, 11% 1986, 15% avg.; durum wheat 10%, 6% 1986, 7% avg.; oats 31%, 22% 1986, 27% avg.; barley 49%, 25% 1986, 38% avg.; winter wheat 86%, 71% 1986, 68% avg. Row crop development mostly ahead of normal pace. Sunflower 79% bloom or beyond, 72% 1986, 56% avg.; corn 50% milk-dough and beyond, 41% 1986, 33% avg. Potatoes 5% vines killed, not dug, 3% 1986, 1% avg.; dry beans 52% fully podded and beyond, 62% 1986, 42% avg.; soybeans 39%, 69% 1986, 52% avg.; flax 40% turning to ripe, 25% 1986, 34% avg. Pasture improved; 23% fair, 74% good, 3% excellent. Second cutting alfalfa 69% complete. Scab, leaf diseases appeared in late wheat. White mold threat decreased due to cooler temperatures.

OHIO: Temperatures averaged up to 60 above normal; ranging from 50s to 90s. Base 50 GDD 165 to 195. Rainfall 1.00 in. north, southeast; 0.25 to 0.75 in. central, southwest.

Days suitable for fieldwork 6.1. Soil moisture 54% short, 45% adequate, 1% surplus. Corn developed rapidly; ears drooped as plants dried to maturity in driest areas. Later planted corn not filling cobs completely. Soybeans showed heat stress; some wilt, pod drop. Oat harvest almost complete. Land prepared for small grains, grasses, legumes. Grassland regrowth need moisture; fair to good. Vegetable harvest schedules compressed by heat. Fruit prospects good.

OKLAHOMA: Temperatures averaged 10 below normal north central to 40 above normal northeast. Precipitation averaged none north central, central to 1.27 in. southwest.

Days suitable for fieldwork 6.7. Topsoil moisture 85% short, 15% adequate. Subsoil moisture 35% short, 65% adequate. Wheat 100% harvested, 100% 1986, 100% avg. Pre-plant fertilizer applied. Sorghum 10% fair, 90% good; 60% heading, 50% 1986, 50% avg.; 25% turning color, 20% 1986, 15% avg. Moisture needed for grain head development. Cotton 45% fair, 55% good; 50% setting bolls, 50% 1986, 45% avg.; none open bolls, none 1986, none avg. Bollworm infestations moved north. Pastures, cattle good. Marketings down, prices up slightly.

OREGON: Temperatures near to above normal statewide. Highest departures from normal up to 100 above average south coast, Willamette Valley. No measurable precipitation recorded.

Soil moisture 61% short, 39% adequate. Barley 69% harvested, 78% 1986, 77% 1985. Grain, grass seed harvest continued; some areas winding down. Winter wheat yields mostly above average east. Some yields down due to shriveling west. Spring grain filling, turning color Klamath County. Barley in bloom central area. Straw baling, field burning activity. Clover, mint harvest underway; hop harvest expected next week Willamette Valley. Mint harvest nearly complete; alfalfa seed harvest started Malheur County. Sugarbeet seed harvest continued mid Willamette Valley. Third cutting alfalfa baled Jackson, Washington Counties. Bartlett pear harvest started southwest; quality excellent, size good. Peach harvest continued west; good size, color. Blueberry harvest nearly finished, only late varieties picked. Evergreen blackberry harvest underway Willamette Valley. Apples, pears good eastern growing districts. Fresh market, commercial sweet corn harvest started west of Cascades. Sweet corn over 50% harvested Malheur County. Boiler onion, beet, cucumber, broccoli harvest began; bean harvest continued

Willamette Valley. Garlic harvested, good yields Benton, Linn Counties. Onions sizing well, early tomato harvest underway southwest. Onion harvest full swing Malheur County. Early norgold potato harvest underway Hermiston area. Livestock fair to good; range, pastures mostly fair to poor except where irrigated. Higher elevation eastern range improved by recent rainfall, but begun to dry up again. Most yearlings sold or contracted; some weaner calves contracted. Fire danger reduced by rains.

PENNSYLVANIA: South central areas received first soaking rain since mid-June. Warm, wet overall. Average temperature 74°, 3° above normal. Temperature extremes 53°; 97°. Average precipitation 1.09 in., 0.24 in. above normal.

Days suitable for fieldwork 5.0. Soil moisture 65% short, 33% adequate, 2% surplus. Corn 89% silk, 90% 1986, 76% avg.; 37% dough, 23% 1986, 21% avg.; 5% dent, 2% 1986, 1% avg. Corn 2% very poor, 8% poor, 23% fair, 40% good, 27% excellent. Soybeans 1% very poor, 6% poor, 24% fair, 46% good, 23% excellent. Wheat 95% harvested, 93% 1986. Oats 81% harvested, 72% 1986. Potatoes 13% harvested, 18% 1986. Second cutting alfalfa 84%, 86% 1986. Third cutting alfalfa 33%, 36% 1986. Second cutting clover-timothy 58%, 60% 1986. Quality of hay good to fair. Amount of feed being obtained from pastures average to below average. Apples 9% harvested, 11% 1986. Peaches 42% harvested, 42% 1986. Activities: Harvesting small grains, hay, haylage, fruit, potatoes, other vegetables; machinery maintenance; caring for livestock.

PUERTO RICO: Island average rainfall 1.21 in., 0.25 in. below normal. Highest weekly total rainfall 3.37 in. Pico Del Este-Luquillo followed by 2.55 in. Rio Piedras Aes, 2.50 in. San Lorenzo. Highest 24-hour total 1.50 Lares. San Juan mean temperature 83°, 1° above normal. Total rainfall 1.09 in., 0.16 in. below normal. Divisional temperature averaged about 83° on coasts, 77 to 79° interior with mean station temperature ranging from 85° Roosevelt Roads to 69° Pico Del Este-Luquillo. Lowest minimum temperature 59° San Sebastian. Highest maximum temperature 96° Ponce Aes.

SOUTH CAROLINA: Scattered showers generally 1.00 to 2.00 in., 6.00 in. center of State. Temperatures 3 to 5° above normal.

Days suitable for fieldwork 5.5. Soil moisture 12% very short, 67% short, 21% adequate. Cotton 91% setting bolls, 89% 1986, 93% avg.; 2% very poor, 27% poor, 67% fair, 4% good. Soybeans 53% blooming, 47% 1986, 53% avg.; 28% setting pods, 20% 1986, 19% avg.; 1% very poor, 6% poor, 74% fair, 19% good. Tobacco fair to good; 47% harvested, 50% 1986, 55% avg. Corn fair to good; 97% dough stage, 95% 1986, 90% avg.; 56% mature, 70% 1986, 57% avg.; 5% harvested, 17% 1986, 9% avg. Pastures fair; livestock, hay fair to good. Peaches fair to good; 81% harvested, 90% 1986, 86% avg. Peanuts fair to good.

SOUTH DAKOTA: Average temperatures near to slightly above normal. Extremes 45°; 107°. Black Hills low 43°.

Days suitable for fieldwork 5.5. Topsoil moisture 18% critically short, 45% short, 37% adequate. Crop progress ahead of normal. Heat hurting crops some areas. Heat stress caused reduced gains for livestock. Most areas need additional rain.

TENNESSEE: Precipitation below normal except over plateau. Temperatures 3 to 5° above normal.

Days suitable for fieldwork 5.8. Soil moisture 29% very short, 61% short, 10% adequate. Corn 85% dough, 80% 1986, 70% avg. Corn 55% dent, 50% 1986,

35% avg. Corn 11% mature, 15% 1986, 6% avg. Corn 7% poor, 41% fair, 44% good, 8% excellent. Tobacco topped 65%, 45% 1986. Burley 10% harvested, 6% 1986, 5% avg. Dark fired 6% harvested, 7% 1986, 4% avg. Dark air-cured 4% harvested, 9% 1986, 4% avg. Tobacco 3% very poor, 21% poor, 59% fair, 17% good. Cattle mostly fair. Pastures fair to poor. Main activities: Tobacco topping, spraying insecticides, haying.

TEXAS: Hot conditions rule south central through north central, where afternoon temperature over 100° common. Unusual cold front edged through Panhandle, stalled across north, east, temperatures lower Panhandle, South Plains. Front triggered active thunderstorms. Temperatures above normal except far south below normal. Dry weather prevailed, only areas reporting slightly above normal precipitation far west, east, northwest.

Crops: Corn good progress Plains under steady irrigation. Harvesting increased Blacklands, central, east. Coastal Bend, Rio Grande Valley, Upper Coast, harvest full swing good yields. Corn 100% silked, 100% 1986, 99% avg.; 16% harvested, 51% 1986, 29% avg. Grain sorghum harvest winding down Valley, Coastal Bend, Upper Coast. Harvest increased rapidly south, central, Blacklands. Fields reached maturity Low Plains, Cross-Timbers. Some fields High Plains began to turn color. Some dryland fields stressed for moisture. Irrigated fields rapid progress. Sorghum 47% mature, 58% 1986, 54% avg. Sorghum 36% harvested, 49% 1986, 47% avg. Cotton loading up with bolls High, Low Plains. Irrigated fields insect problems. Cotton rapidly opening Blacklands, central. Harvest began Coastal Bend, full swing Valley. Early yields Valley good. Cotton 99% squaring, 97% 1986, 96% avg.; 3% harvested, 7% 1986, 4% avg. Rice harvest increased Upper Coast. Plant diseases lowered yields. Rice 88% turning color, 97% 1986, 83% avg. Soybeans continued good growth Plains. Irrigation steady. Good crop expected Upper Coast. Heavy grass populations problems some areas. Some early peanut harvest underway south. Fields Cross-Timbers good growth under heavy irrigation. Dryland fields began to stress. Some leaf spot showed up Plains, progress good.

Commercial Vegetables: Rio Grande Valley, irrigation continued pepper fields. Citrus continued good progress. Land preparation continued. East harvest winding down many vegetables. Sweetpotatoes need moisture. High Plains harvest potatoes, onions, carrots, cabbage continued. Trans-Pecos chili peppers some wilt from hot weather. Cantaloup harvest continued. Prices low. Pecans continued need some moisture many locations. Webworm problems some groves. Progress good. Some drop from recent dry weather.

Range and Pasture: Range, pasture condition continued to decline because hot, dry conditions. Growth grasses slowed, many grasses turning brown. Livestock not suffered too much from recent conditions, some broiler houses death losses from heat. Sheep shearing, drenching continued. Marketings sheep, cattle active.

UTAH: Precipitation none southwest, light north, moderate rest of State. Temperatures 2 to 4° above normal.

Days suitable fieldwork 6.5. Soil moisture 71% short, 29% adequate. Winter wheat 80% harvested, 67% 1986, 52% avg. Barley 53% harvested, 51% 1986, 39% avg. Spring wheat 76% ripe, 80% 1986, 58% avg.; 48% harvested, 40% 1986, 24% avg. Oats 64% ripe, 44% 1986, 33% avg. Oat harvest well along. Corn 78% tasseled, 67% 1986, 61% avg. Corn condition 89% avg., 11% much above avg. Alfalfa 2nd cutting 77%, 82% 1986, 70% avg. Potatoes mostly average. Apples, peaches, pears average to below average. Rains helped lower elevation

ranges. Higher elevation ranges holding up well. Cattle good to excellent.

VIRGINIA: Unseasonably warm, dry. Temperatures averaged 4 to 6° above normal. Several stations exceeded 100°. Widely scattered thunderstorms did not relieve drought. Precipitation averaged 0.50 to 0.75 in.

Days suitable for fieldwork 6.2. Topsoil moisture 93% short, 7% adequate. Drought persists most areas. Corn fair mountains, poor other areas. Corn 84% in or beyond silk stage, 83% 1986, 88% avg. Corn 54% in or beyond dough stage, 50% 1986, 59% avg. Corn 33% in or beyond dent stage, 30% 1986, 33% avg. Some silage cut. Soybeans poor to fair. Some soybeans helped by mid period thunderstorms. Soybeans 52% in or beyond bloom stage, 49% 1986, 58% avg.; 32% set pods, 24% 1986, 28% avg. Peanuts good. Tobacco fair to good. Non-irrigated tobacco poor to fair. Flue-cured tobacco 6% harvested, 6% 1986, 16% avg. Fire-cured harvest just begun. Peach harvest 50% complete. Early apple harvest active. Pastures poor, some feeding hay. Second hay cutting active, mostly poor. Some premature cattle marketing.

WASHINGTON: Dry weather continued. Temperatures early week 90s southeast, central, west; elsewhere 80s. Midweek cold front brought cooler temperatures, high temperatures returned by weekend. Precipitation light northwest; negligible elsewhere.

Days suitable for fieldwork 7.0. Soil moisture 30% short, 70% adequate. Dry weather allowed good progress fieldwork. Winter wheat 66% harvested, 49% 1986, 53% avg. Spring wheat, barley respectively 37%, 52% harvested. Alfalfa hay 2nd cutting in progress Kittitas Valley, northern Palouse. Third cutting underway Columbia Basin, Yakima Valley. Early potato harvest continued Benton, Grant, Yakima Counties. Pea, lentil harvest continued Palouse, yields good. Rapeseed planting began Adams County. Pear harvest continued in most pear producing areas. Harvest peaches, plums, nectarines also underway. Size, quality excellent. Grapes began to color Benton County. Blueberry harvest continued King, Pierce Counties. Storage onion harvest began Grant, Walla Walla Counties. Sweet corn tasseling Kittitas County; harvest underway Thurston, Grant, Yakima Counties. Squash, zucchini, peppers, tomatoes, other summer vegetables being picked. Cannery pea harvest began Thurston County. Carrot digging

continued Columbia Basin. Range, pastures 40% short, 60% adequate. Dry weather continued to cause pastures to deteriorate west. Hay, other roughage feed supplies 80% adequate, 20% surplus.

WEST VIRGINIA: Average temperature 77°, 4 to 7° above normal. Extremes 51° Weston; 99° Ripley, Martinsburg. Precipitation averaged 0.71 in., 0.20 in. above central, northeastern; 0.30 to 0.60 in. below elsewhere.

Days suitable for fieldwork 5.5. Soil moisture 57% very short, 43% short. Farm activities: Harvesting hay, farm maintenance, clipping pasture, gardening, harvesting peaches, topping tobacco. Oats, apples mostly fair to good. Corn mostly fair to poor. First cut hay 99% complete, 99% 1986. Second cut hay 59% complete, 41% 1986.

WISCONSIN: Temperatures averaged 72°, 1° above normal. Extremes 35°; 97°. Rainfall 0.60 to 2.10 in.

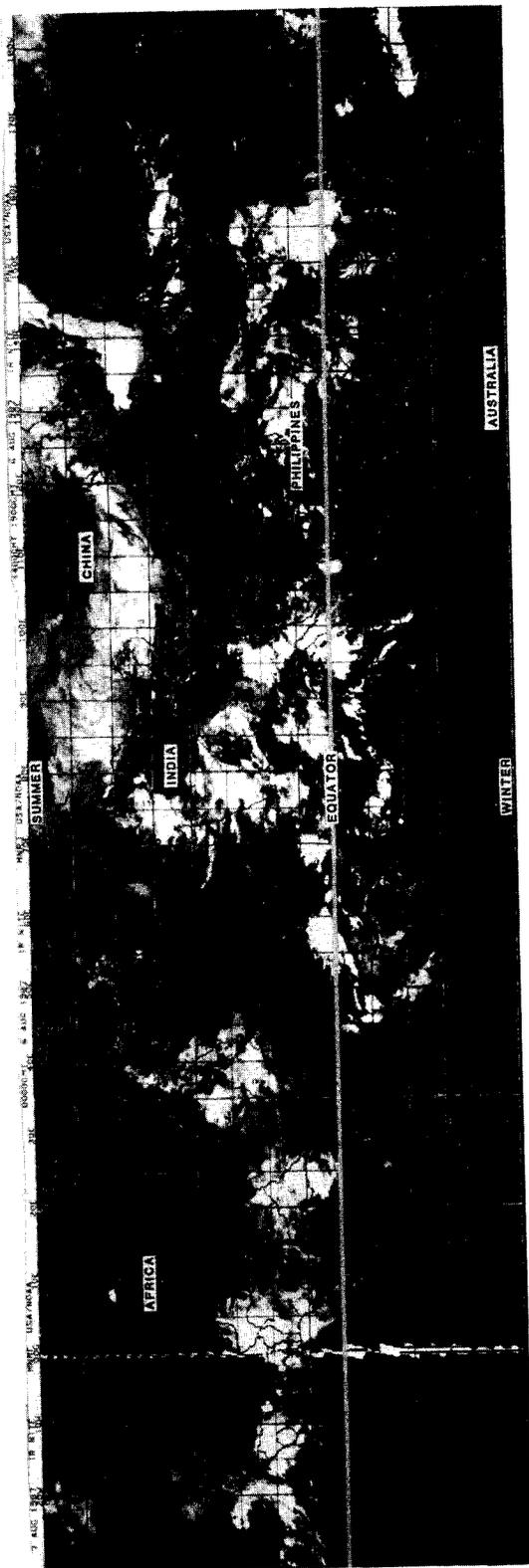
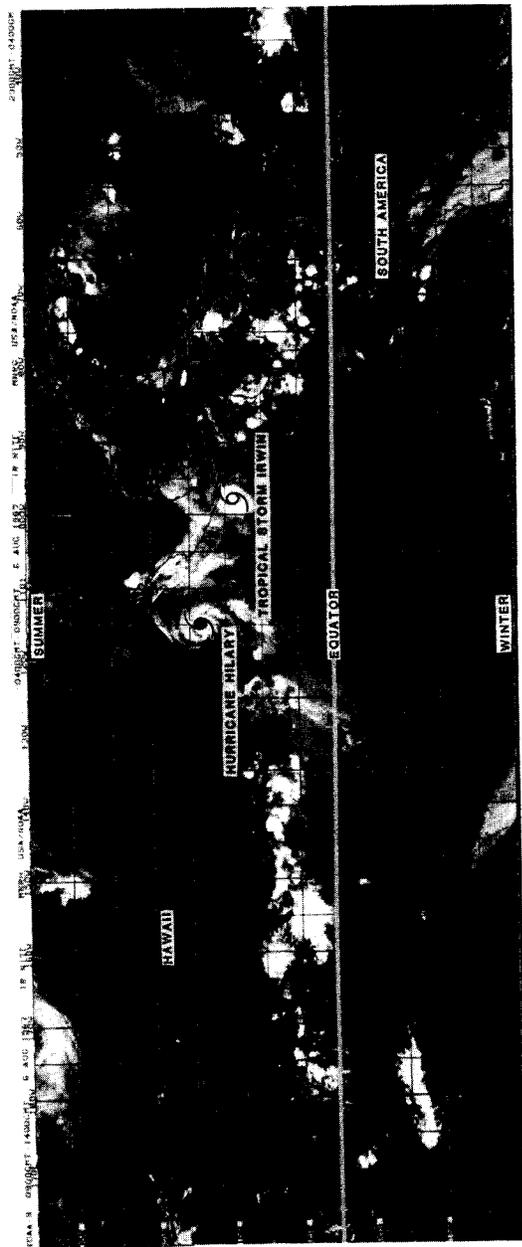
Days suitable for fieldwork 4.6. Soil moisture 36% short, 58% adequate, 6% surplus. Crops 27% fair, 66% good, 7% excellent. Best since June 15th. Corn 41% in dough, 29% 1986, 21% avg. Corn 8% in dent, none 1986, none avg. Oats 71% harvested, 50% 1986, 41% avg. Yields below average, bushel weights light. Winter wheat 95% harvested, 81% 1986, 72% avg. Yields poor to average. Second crop hay 73% cut, 75% 1986, 70% avg. Third crop 7% cut, 6% 1986, 3% avg. Third crop better than 2nd. Soybeans setting pods; number, beans per pod vary below to above average. Early apples being picked.

WYOMING: Temperatures above normal. Precipitation generally above normal.

Days suitable for fieldwork 6.0. Topsoil moisture 64% short, 36% adequate. Subsoil moisture 60% short, 37% adequate, 3% surplus. Winter wheat 15% mature, 10% 1986; 85% harvested, 85% 1986, 75% avg. Barley 5% headed, 5% 1986; 10% turning color, 20% 1986; 40% mature, 35% 1986; 45% harvested, 35% 1986, 30% avg. Spring wheat 20% turning color, 25% 1986; 35% mature, 45% 1986; 40% harvested, 30% 1986, 25% avg. Oats 10% headed, 5% 1986; 25% turning color, 30% 1986; 40% mature, 40% 1986, 40% avg.; 25% harvested, 25% 1986, 15% avg. Potatoes 95% bloom, 85% 1986. Dry beans 90% bloom, 75% 1986, 85% avg.; 70% setting pods, 70% 1986, 70% avg. Corn 85% tasseled, 90% 1986, 80% avg.; 55% silked, 65% 1986; 20% milk stage, 10% 1986. Alfalfa 2nd cutting 45% complete, 50% 1986, 35% avg. Other hay 80% harvested, 75% 1986, 70% avg. Ranges, pastures fair to good.

Global Weather Satellite Image

August 6, 1987



International Weather and Crop Summary

August 2-8, 1987

HIGHLIGHTS:

UNITED STATES ... Cooler temperatures and precipitation relieves crop stress in the central Great Plains, Corn Belt, and Southeast. Crop condition declines, despite moisture. Soil moisture remains short in most areas.

U.S.S.R. ... In Western U.S.S.R., showers benefit corn in the eastern Ukraine and North Caucasus. Heavy rain and strong winds lodge crops in the northwest. In the New Lands, dry weather in the south benefits maturing spring grains. Showers favor grain-filling in the north.

EUROPE ... Dry weather benefits maturing grains in western Europe. Wet, cool weather in the north is unfavorable for mature grains.

SOUTH ASIA ... Moderate to heavy showers cover central and southern India's summer crop region. Dry weather persists in the northwest.

SOUTHEAST ASIA ... Scattered showers continue over Thailand's rainfed grain areas. Variable rain covers Philippine crop areas.

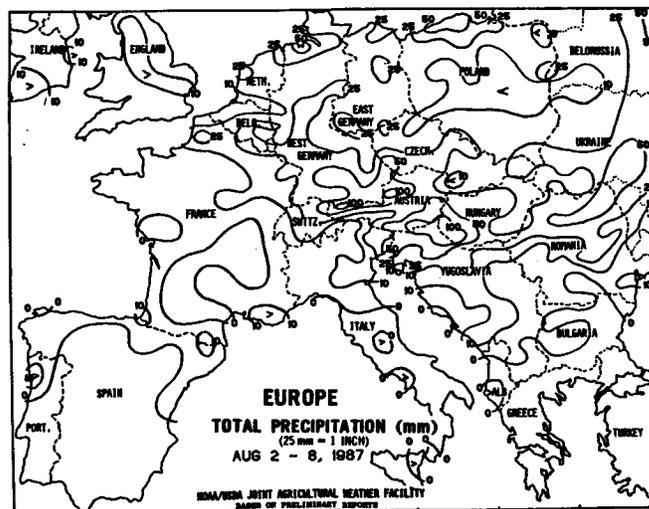
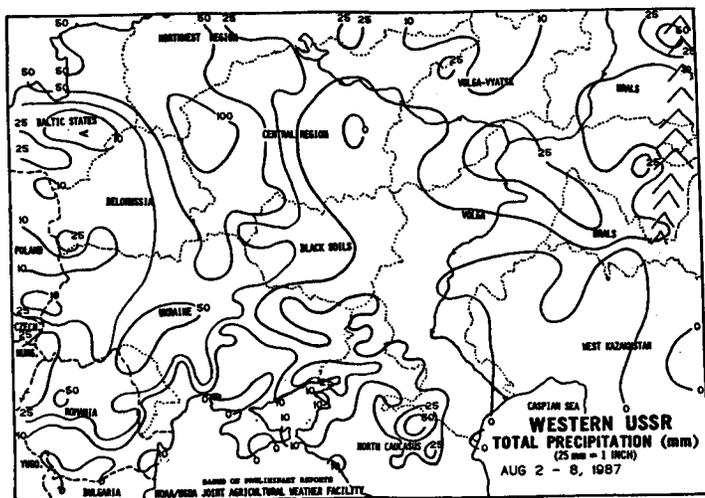
EASTERN ASIA ... Rain in the North China Plain and the Manchurian Valley benefits corn, cotton and soybeans.

CANADA ... Locally heavy showers cover the northwest but mostly dry weather in the south promotes early grain harvesting.

SOUTH AMERICA ... Showers benefit emerging wheat in Argentina. Widespread rain in Brazil keeps southern wheat unfavorably wet.

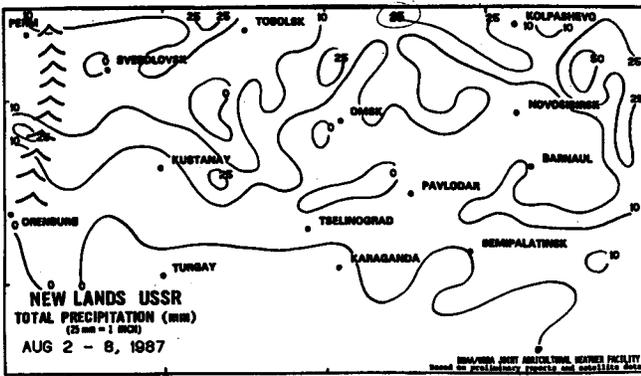
AUSTRALIA ... Light rain covers Australia's vegetative winter wheat.

MEXICO ... Widespread rain benefits immature crops in the corn belt and west coast.

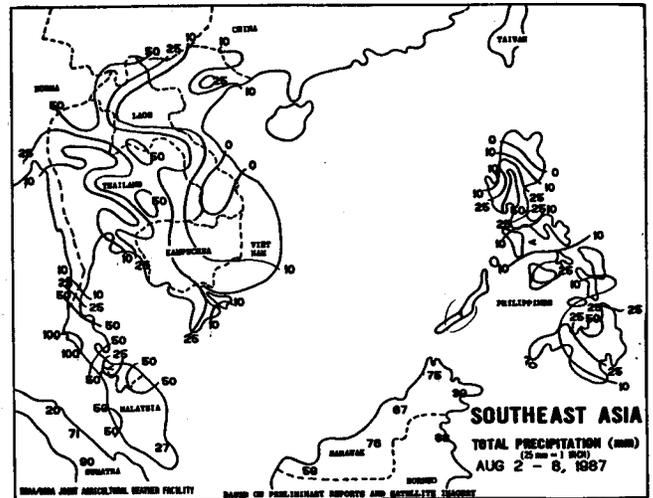


U.S.S.R. ... In Western U.S.S.R., a storm system centered over northern Moldavia on August 6 moved rapidly northward and intensified over the western half of the Central Region. The storm spread moderate to heavy rain (50-120mm) over northern Moldavia, the central Ukraine, the western portion of the Central Region, the Northwest Region, and the northern Baltic States. In addition, strong winds ranging from 30 to 40 knots accompanied the heavy rainfall over the Central Region, Northwest Region, and the northern Baltic States, likely causing crop lodging. Elsewhere, showers (10-43mm) in the eastern Ukraine and northern North Caucasus benefited corn entering the filling stage. Mostly dry weather over the southern Ukraine, eastern Black Soils, and the lower half of the Volga helped grain harvesting.

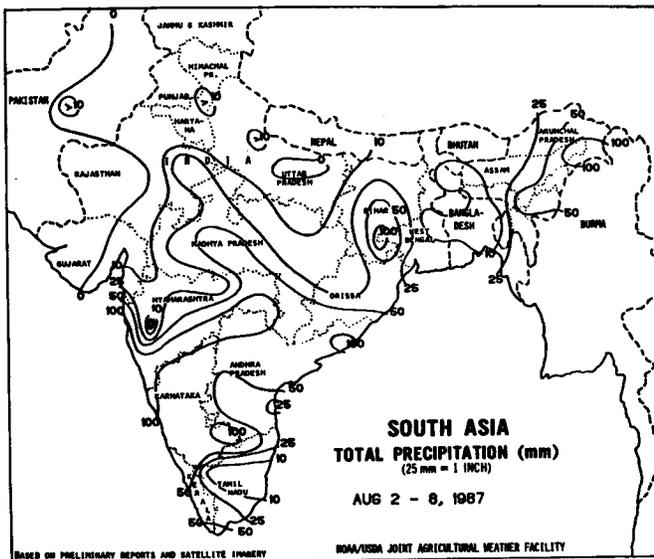
EUROPE ... Mostly dry weather over Italy, France, and England promoted harvesting that had been delayed by recent wet weather. Rainfall averaged less than 10mm in northern Belgium and southern Netherlands where recent periods of excessive rain had damaged mature grains. Moderate to heavy showers (10 to more than 50mm) continued in northern Europe from West Germany to Poland, reflecting this season's cool, wet weather pattern which has affected normal crop growth. Temperatures continued below normal in western and northern Europe. Moderate to heavy showers (10-51mm) covered Hungary, northern Romania and western Yugoslavia, increasing moisture levels for reproductive summer crops that had recently been stressed by hot, dry weather. Light rain (less than 10mm) persisted in southern Romania, eastern Yugoslavia, and Bulgaria.



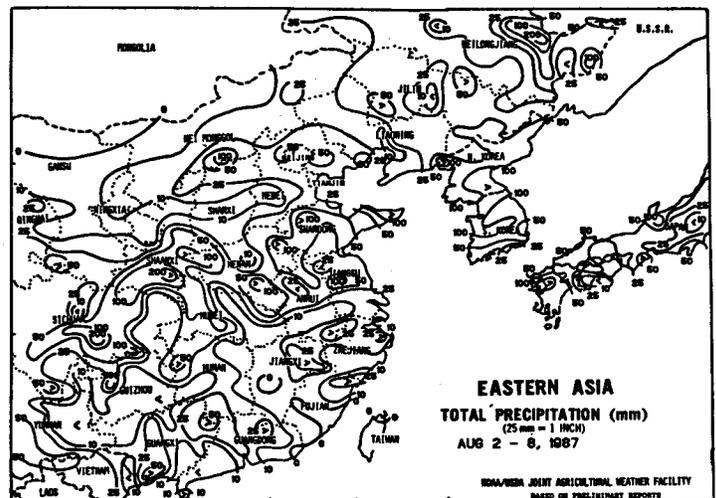
In the New Lands, early-week fair weather was followed by a cooling trend and scattered showers. Spring grains were maturing over the southern half of the region and filling across the north. Mostly dry weather across the south favored grain maturation, while light, scattered showers in the north benefited grain filling. Weekly average temperatures were above normal at most locations.



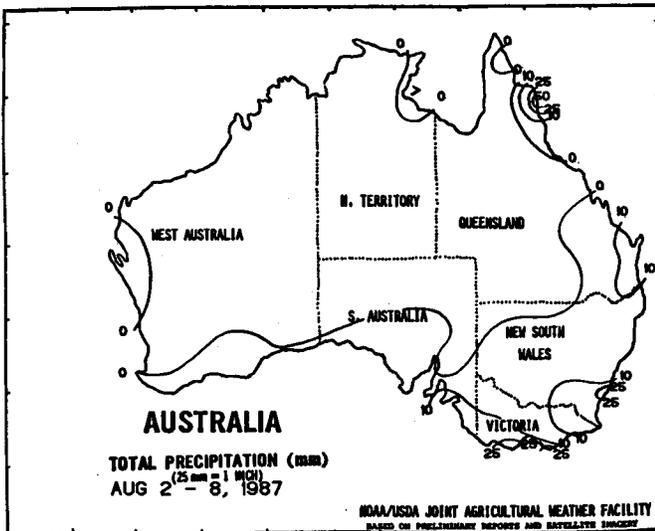
SOUTHEAST ASIA ... Scattered showers (10-86mm) continued in Thailand's rainfed grain regions, increasing moisture levels. Dry pockets persisted, however, in the northern hills region and to the north of Bangkok. Corn is normally filling in Thailand, and earlier periods of hot, dry weather had stressed reproductive corn. Minimal rain (less than 10mm) fell over central Vietnam and Laos, with moderate showers (10-43mm) falling elsewhere in Indochina. Light to moderate showers covered Malaysia and Indonesia, with dry weather continuing in Sumatra and Java. In the Philippines, dry weather covered grain areas of northern Luzon and sugarcane areas of the central islands but scattered showers benefited crops elsewhere.



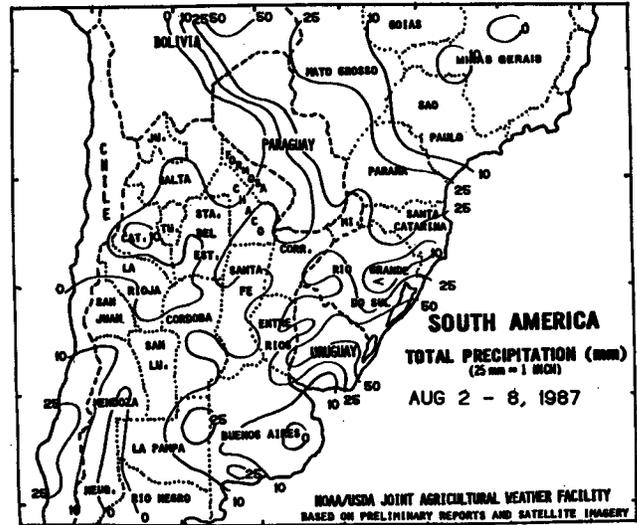
SOUTH ASIA ... Moderate to heavy showers (25-127mm) covered central and southern India from northwestern Madhya Pradesh to northern Tamil Nadu, stretching eastward to southern West Bengal. The rainfall in the southwest improved soil moisture levels in chronically dry groundnut and cotton regions, and brought some relief to vegetative cotton and groundnuts. Dry, warm weather over most of the growing season, however, had resulted in stressful growing conditions. Dry weather persisted in the northwest from Gujarat to northern Pakistan. Planting activities in rainfed crop areas in Gujarat have been minimal due to the persistent hot, dry weather. Mostly dry weather over eastern West Bengal and Bangladesh brought relief to flooded areas. Minimal rain (less than 10mm) returned to the northern states where irrigation reserves are low following the recent dry, warm weather.



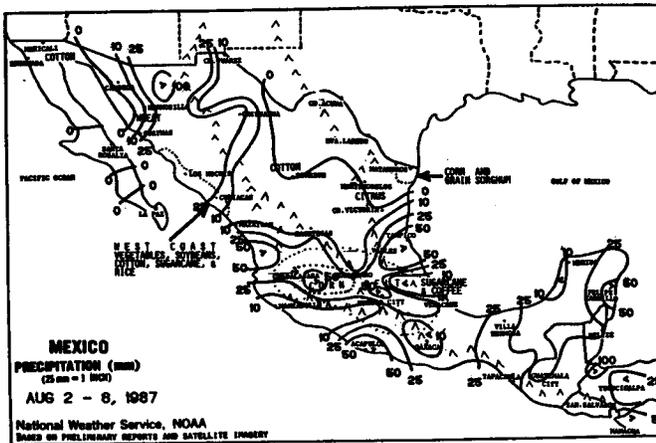
EASTERN ASIA ... Moderate to heavy rain fell in a band which stretched eastward from southern Shaanxi and northern Hubei, through Henan and Shandong, into the Korean peninsula. Rainfall amounts in these areas generally ranged from 50 to 100mm, with localized areas receiving rainfall in excess of 150mm. Rain in Hebei, Shandong, Henan, and eastern Jiangsu was mostly favorable for cotton entering the boll formation stage, corn in the silking and filling stages, and soybeans in the flowering and podfill stages. The southern third of China received mostly light rainfall which was welcomed, following last week's inundating rains in Guangxi and Guangdong. In the Manchurian Valley, widespread beneficial showers continued over most areas.



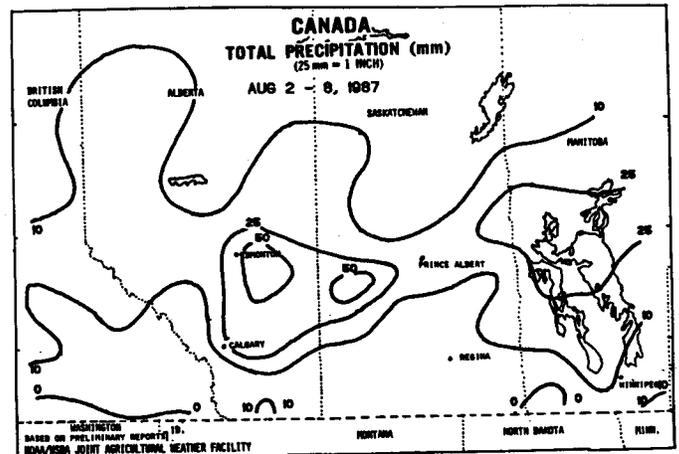
AUSTRALIA ... Light rain (1-10mm) covered eastern Australia's winter grain areas, maintaining mostly favorable moisture levels following last week's moderate to heavy showers. Rainfall averaged 2mm in southeastern Queensland, reflecting this season's dry pattern. Rainfall also averaged about 2mm in Western Australia's grain regions, but moisture reserves continued adequate for normal crop growth. Temperatures averaged 8-13 degrees C in the major grain areas.



SOUTH AMERICA ... In Argentina, substantial showers (10-40mm) covered major wheat areas of southern Santa Fe, southeastern Cordoba, eastern La Pampa, and northern and southwestern Buenos Aires. Light rain (1-9mm) covered the remaining wheat areas, providing favorable moisture for late wheat planting and crop establishment. Wheat planting has advanced to over 80 percent completion, slightly ahead of last year at this time. Rainfall diminished in southern Brazil, but showers (7-43mm) kept Rio Grande do Sul's wheat areas wet. Widespread rain (10-30mm) covered most of Parana and Mato Grosso do Sul. Light showers (1-10mm) fell over the coffee areas of northern Parana, Sao Paulo and Minas Gerais.



MEXICO ... Widespread rain covered the entire Southern Plateau corn belt, southern Mexico, and throughout the entire west coast region. In the corn belt, weekly rainfall averaged mostly 25-55mm, with lighter amounts along the southern fringe. In the south, 10-35mm of rain benefited corn development. Tropical storm activity was intense along the west coast, producing 10-50mm in the west coast farming region. Isolated heavy rain (50-100mm) benefited northwestern irrigation reserves, but may have caused localized flooding. Mostly dry weather in the northeast favored cotton and grain harvesting.



CANADA ... Locally heavy showers fell again in the northwest but mostly dry weather in the south promoted early harvesting. In northern crop areas of Alberta and extreme northwestern portions of Saskatchewan, weekly rainfall averaging 25-68mm kept maturing grains and oilseeds unfavorably wet following the previous week's abundant rain. Very light rain (5mm or less) fell over southern wheat areas where crops are maturing ahead of the normal pace. Early harvesting of cereal crops has begun in southwestern Saskatchewan. About 50 percent of Saskatchewan's grain crops and 15 percent of the oilseeds crops are maturing. Heavier showers (10-21mm) covered northern grain areas of Manitoba and Saskatchewan.

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(Continued from p.15)
preparation continued in Texas. Artichokes, snap beans, celery, lettuce, broccoli, carrots, sweet corn, and melon were harvested in California. Fall vegetables were planted and transplanted along the south coast. Preliminary growth preparation for fall vegetables continued in western Arizona.

PASTURES AND LIVESTOCK: Pastures continued declining in most areas of the Nation. Rain provide moisture for some new growth but did little good in the Southeast. Cooler temperatures eased livestock stress. The heat slowed weight gains and caused some death loss in Iowa. Overall, livestock was mostly good.

(Continued from p.17)

SOYBEANS						COTTON						CORN					
STATE	VP	P	F	G	EX	STATE	VP	P	F	G	EX	STATE	VP	P	F	G	EX
ALA	0	5	53	42	0	ALA	0	3	35	62	0	COLO	0	1	27	56	16
ARK	0	4	27	69	0	ARIZ	0	0	0	65	35	GA	1	2	22	70	5
GA	0	11	44	44	1	ARK	0	0	32	54	14	ILL	0	1	27	55	17
ILL	0	1	23	67	9	CALIF	0	0	0	40	60	IND	0	0	14	61	25
IND	0	0	13	73	14	GA	0	19	25	55	1	IOWA	1	5	16	56	22
IOWA	1	4	25	57	13	LA	0	0	29	69	2	KANS	0	6	15	35	44
KANS	0	0	4	70	26	MISS	0	11	9	78	2	KY	1	2	21	59	17
KY	1	0	33	58	8	MO	0	0	0	89	11	MICH	5	15	35	30	15
LA	0	4	50	46	0	N MEX	0	0	0	100	0	MINN	0	1	23	58	18
MICH	2	13	35	35	15	N C	0	12	67	21	0	MO	2	4	30	58	6
MINN	2	2	21	62	13	OKLA	0	0	45	55	0	NEBR	0	5	24	60	11
MISS	0	10	42	48	0	S C	2	27	67	4	0	N C	11	31	42	15	1
MO	0	3	54	42	1	TENN	0	5	23	59	13	OHIO	1	4	17	52	26
NEBR	0	0	53	46	1	TEX	0	1	37	54	8	PA	2	8	23	40	27
N C	1	20	59	20	0							S DAK	0	4	26	59	11
OHIO	1	5	23	52	19							TEX	0	3	15	61	21
S C	1	6	74	19	0							WISC	0	0	11	56	33
S DAK	0	4	19	60	17												
TENN	0	5	44	51	0												

VP - VERY POOR P - POOR F - FAIR G - GOOD EX - EXCELLENT

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