

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

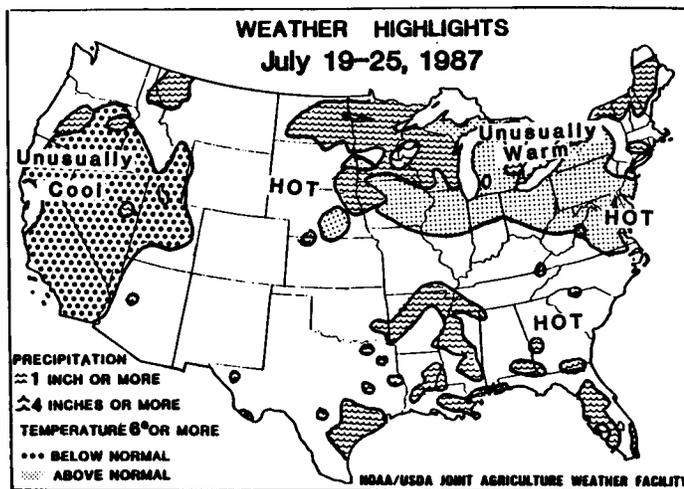
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National Weather Summary

July 19 to 25, 1987



HIGHLIGHTS: Showers and thunderstorms were widespread from the northern Great Plains through the Great Lakes to New York and New England. Severe weather and heavy rain recurred frequently west of the Lakes. Severe weather was also 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 greatest departure from normal was in the central Great Lakes. The West was cooler than normal.

SUNDAY...Showers were scattered from the Pacific Northwest across the northern Great Plains to western New York. Moderate to heavy precipitation fell in western New York and parts of the northern Plains. Isolated showers fell throughout the West and were scattered all along the Gulf of Mexico coast. The cool air over the East caused record-low temperatures in parts of the Southeast, and a later cool surge set record lows in parts of the southern Rockies.

MONDAY...Heavy thunderstorms developed through the upper Mississippi Valley with less intense storms reaching through the Northeast. The intensity of thunderstorms increased along the gulf coast, and the frequency increased in the West. Cool nights continued in the Southeast and West, but afternoon highs were very warm in the central Plains and parts of the Midwest.

TUESDAY...Severe weather pounded an area from northwestern Utah into Idaho, while scattered storms covered much of the Intermountain region and Rockies. Moderate to heavy storms developed from North Dakota through Minnesota. Thunderstorms spread from the gulf coast into the Southern States.

WEDNESDAY...Thunderstorms spread from the central gulf coast into the lower Mississippi Valley. Elsewhere showers and thunderstorms reached from Washington and Oregon eastward to northern Minnesota. Temperatures were cool in the West and unusually warm in parts of the northern Plains and the East Coast States south of Maryland.

THURSDAY...Thundershowers were light and scattered across the northern Plains and through the Rockies, but heavy showers fell in the upper Mississippi Valley. Light thundershowers fell along the western gulf coast and lower Mississippi Valley, but a few moderate showers fell in western Tennessee. Hot weather continued from Pennsylvania southward and in the central Plains.

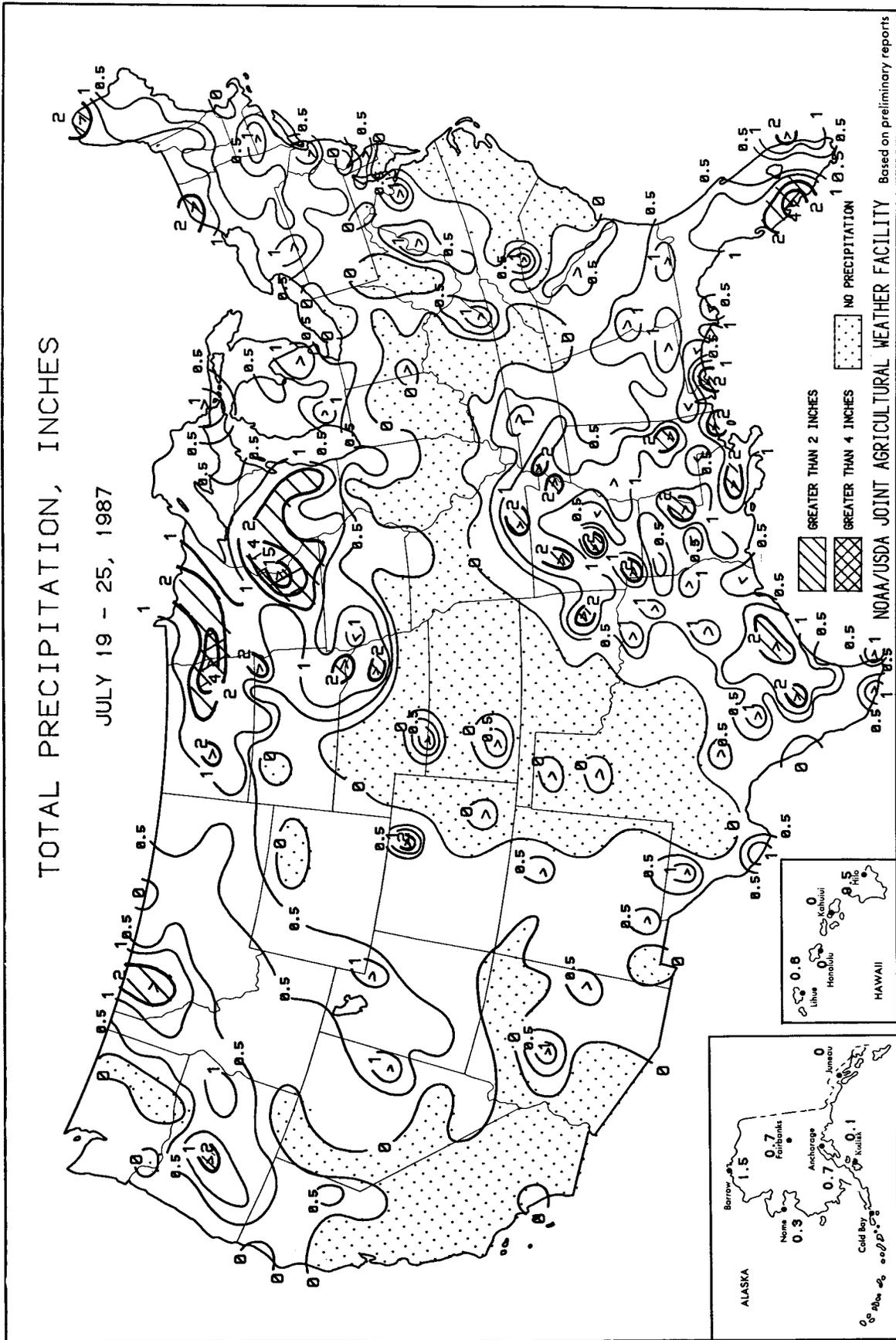
FRIDAY...Thunderstorms covered isolated areas over much of the Nation. There was flooding in the Cascades of the Northwest, severe weather in the Plains and South, and heavy rain showers in the St. Lawrence Valley. A heat wave continued in the East from central Pennsylvania and New Jersey southward, and it was unusually hot from parts of the central Plains into the western Corn Belt.

SATURDAY...Showers and thundershowers were widespread along a line from central Minnesota through southern Michigan to Pennsylvania, New Jersey, and southern New York. Severe weather also reached from central Oklahoma through Arkansas and southern Missouri, across the South, and through the Appalachians. Showers were scattered through the West.

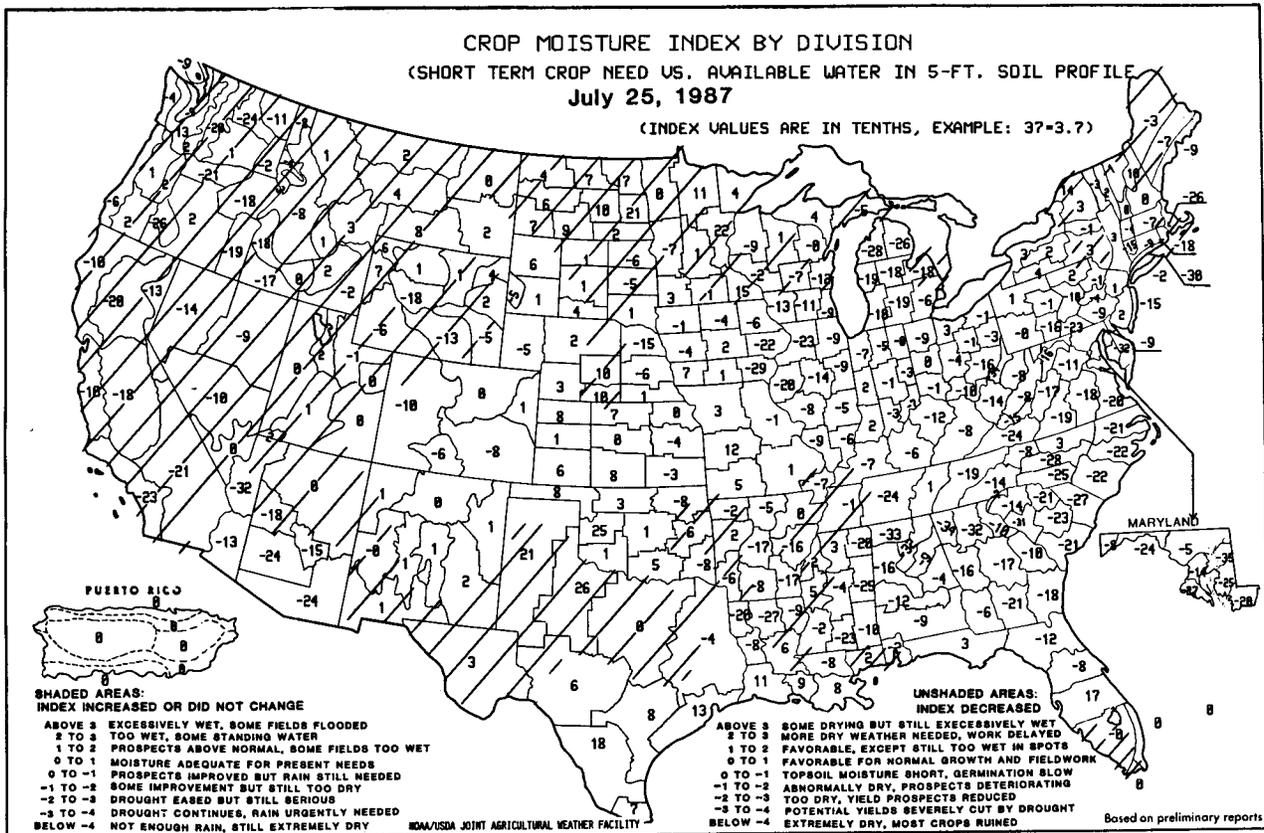
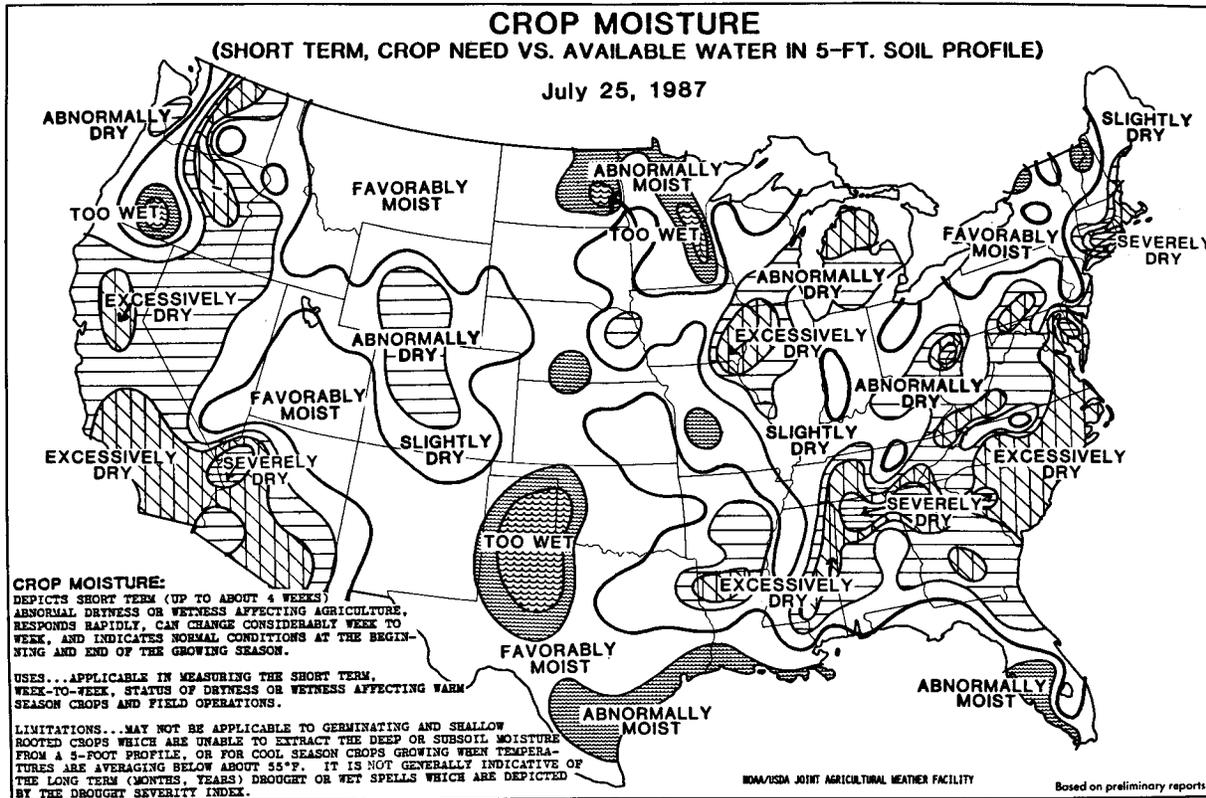
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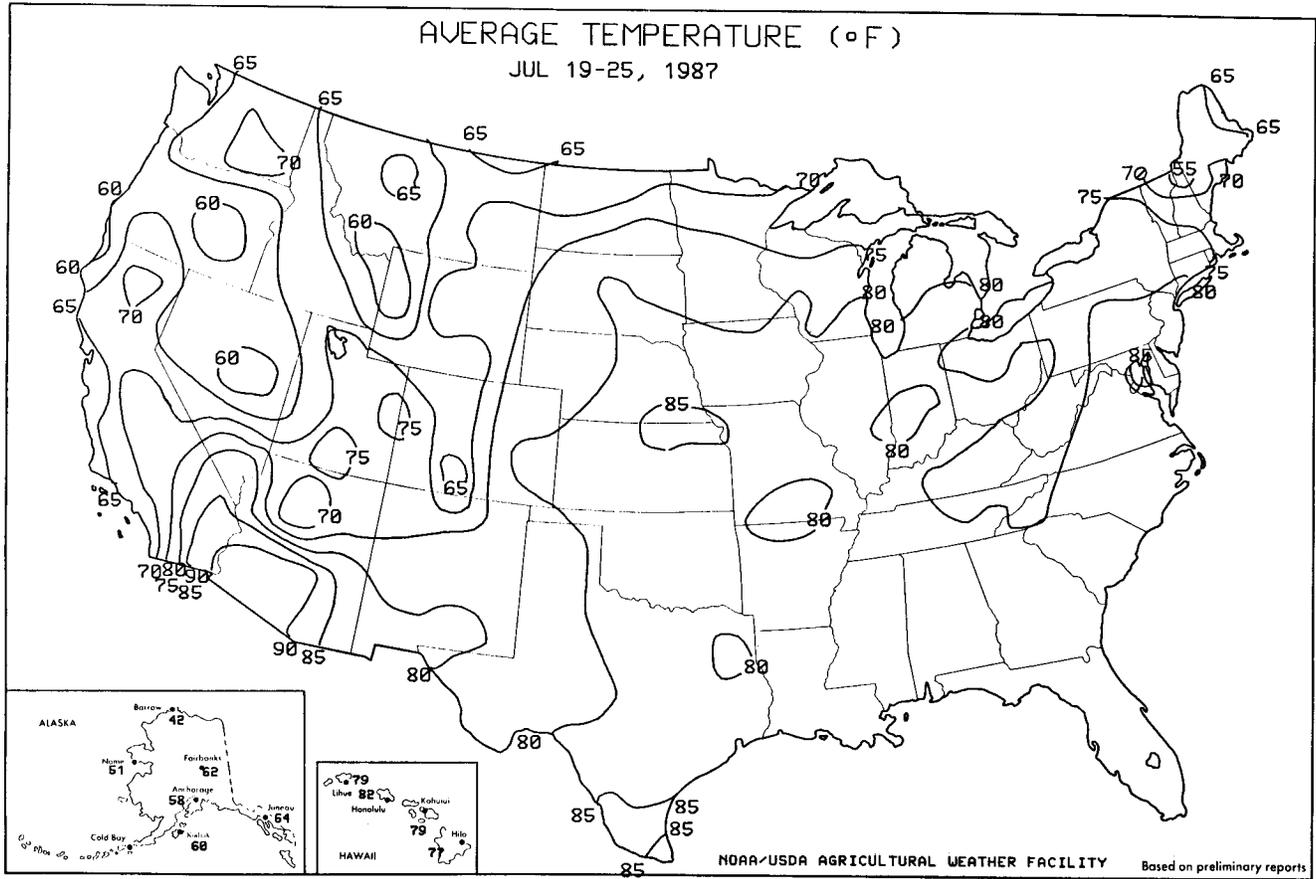
TOTAL PRECIPITATION, INCHES

JULY 19 - 25, 1987

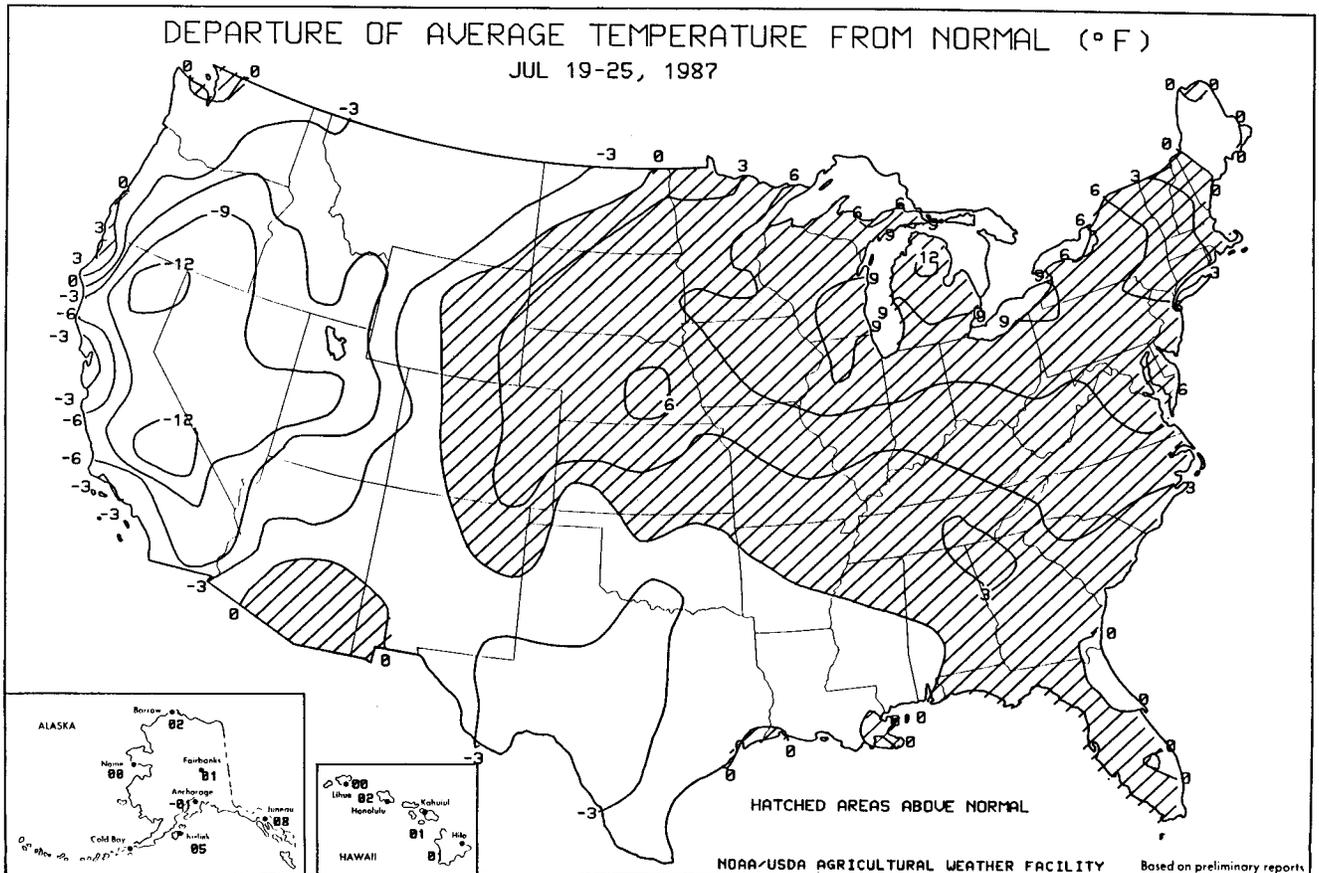


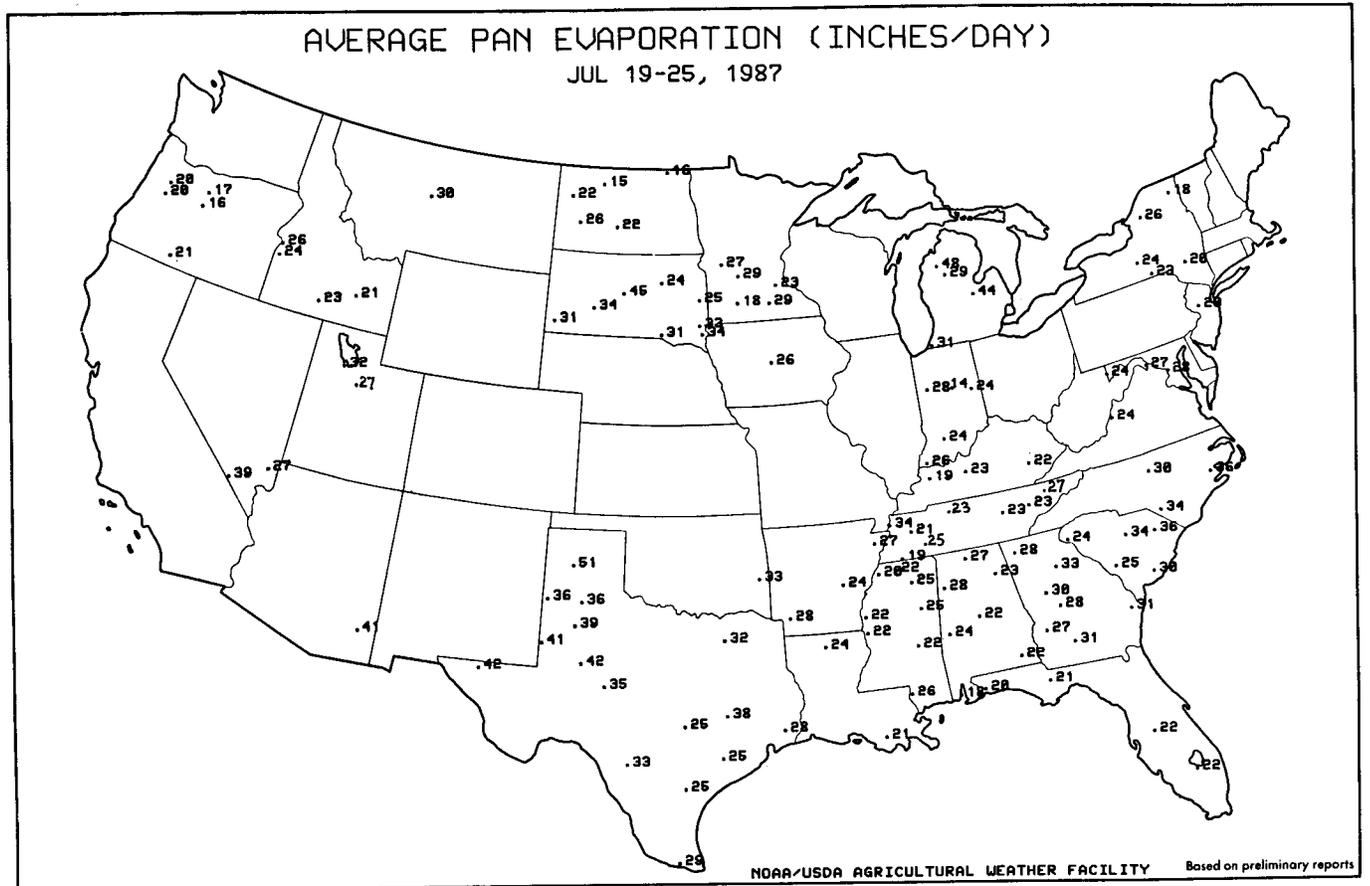
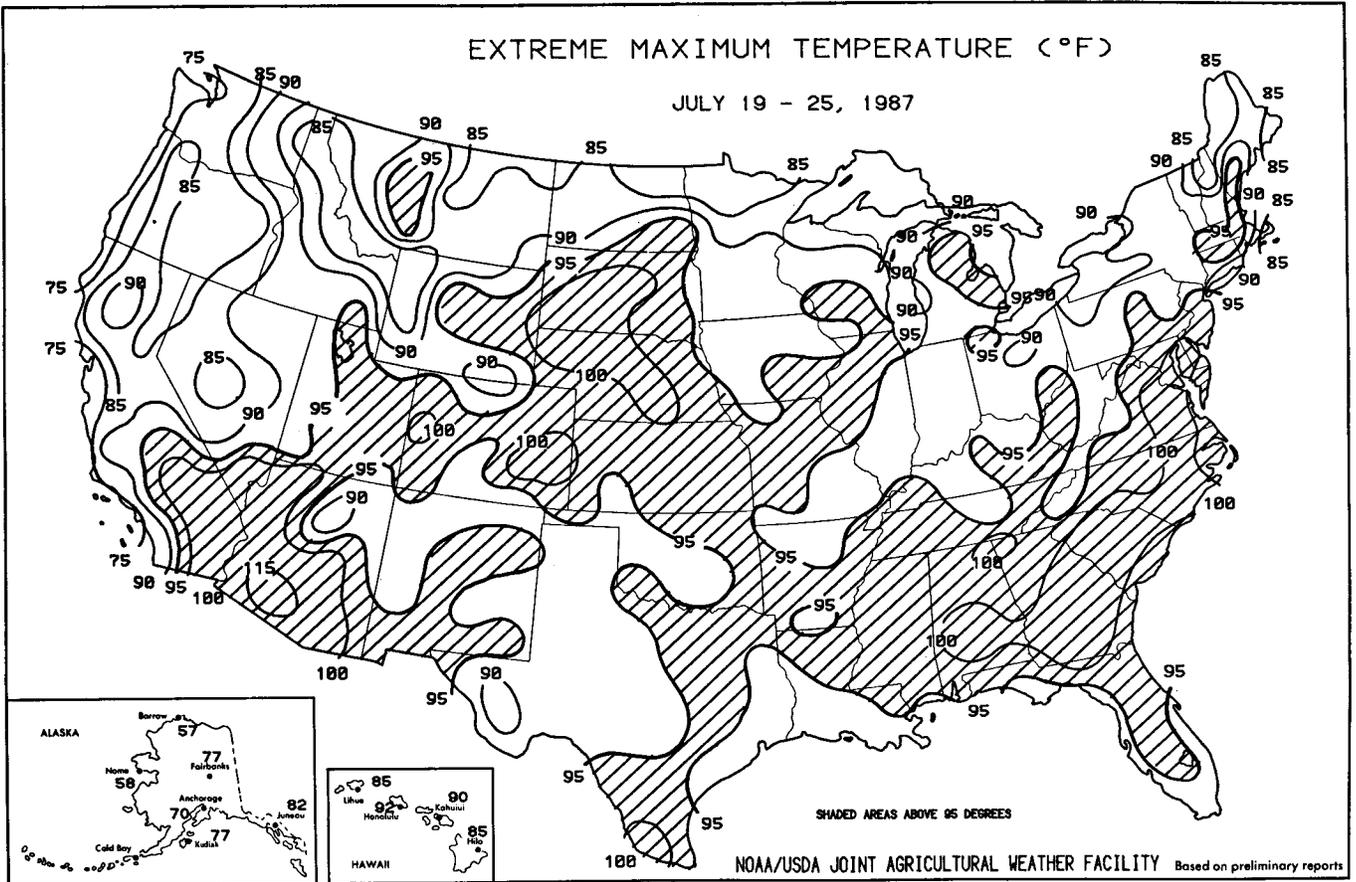
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

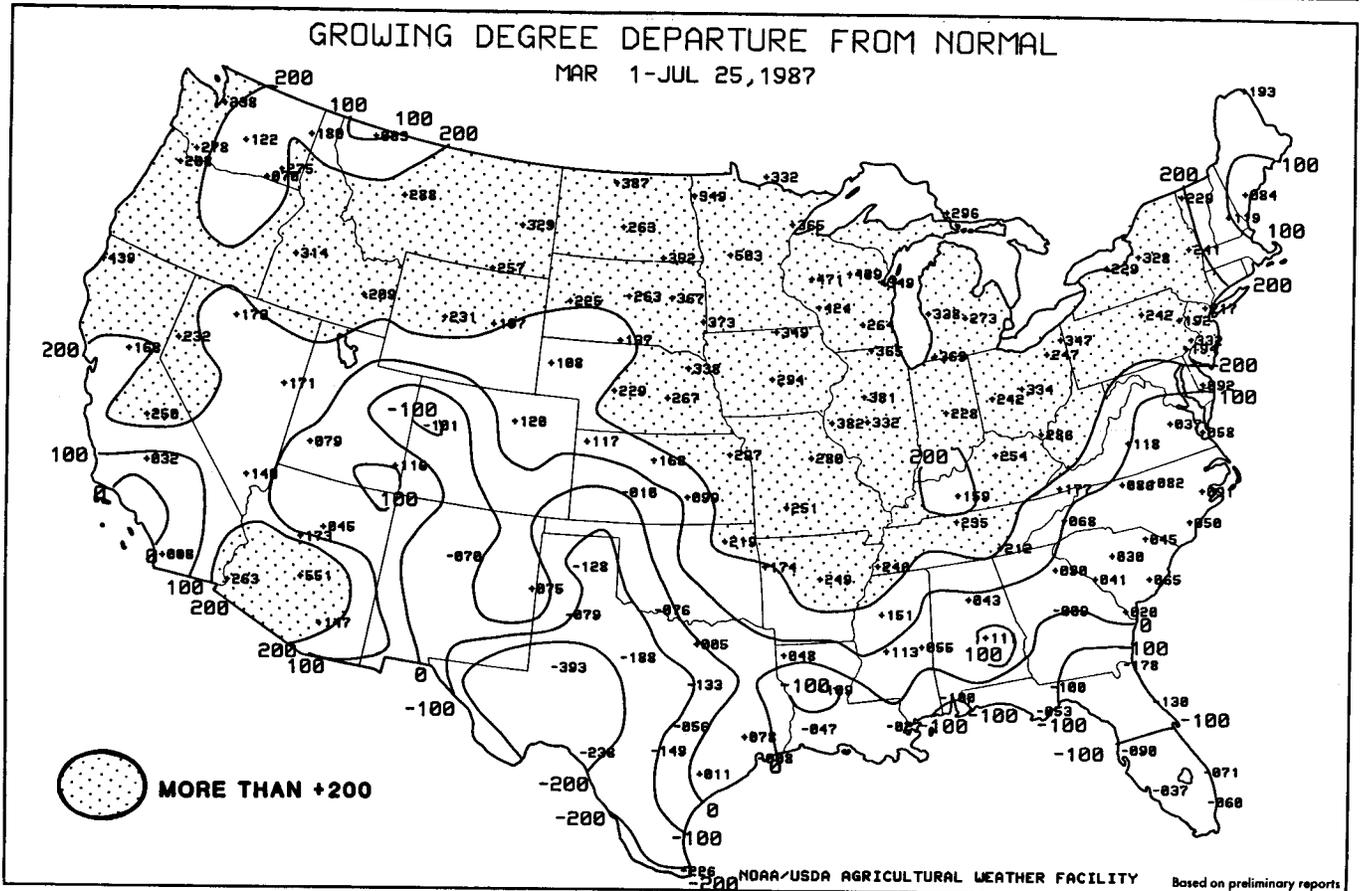
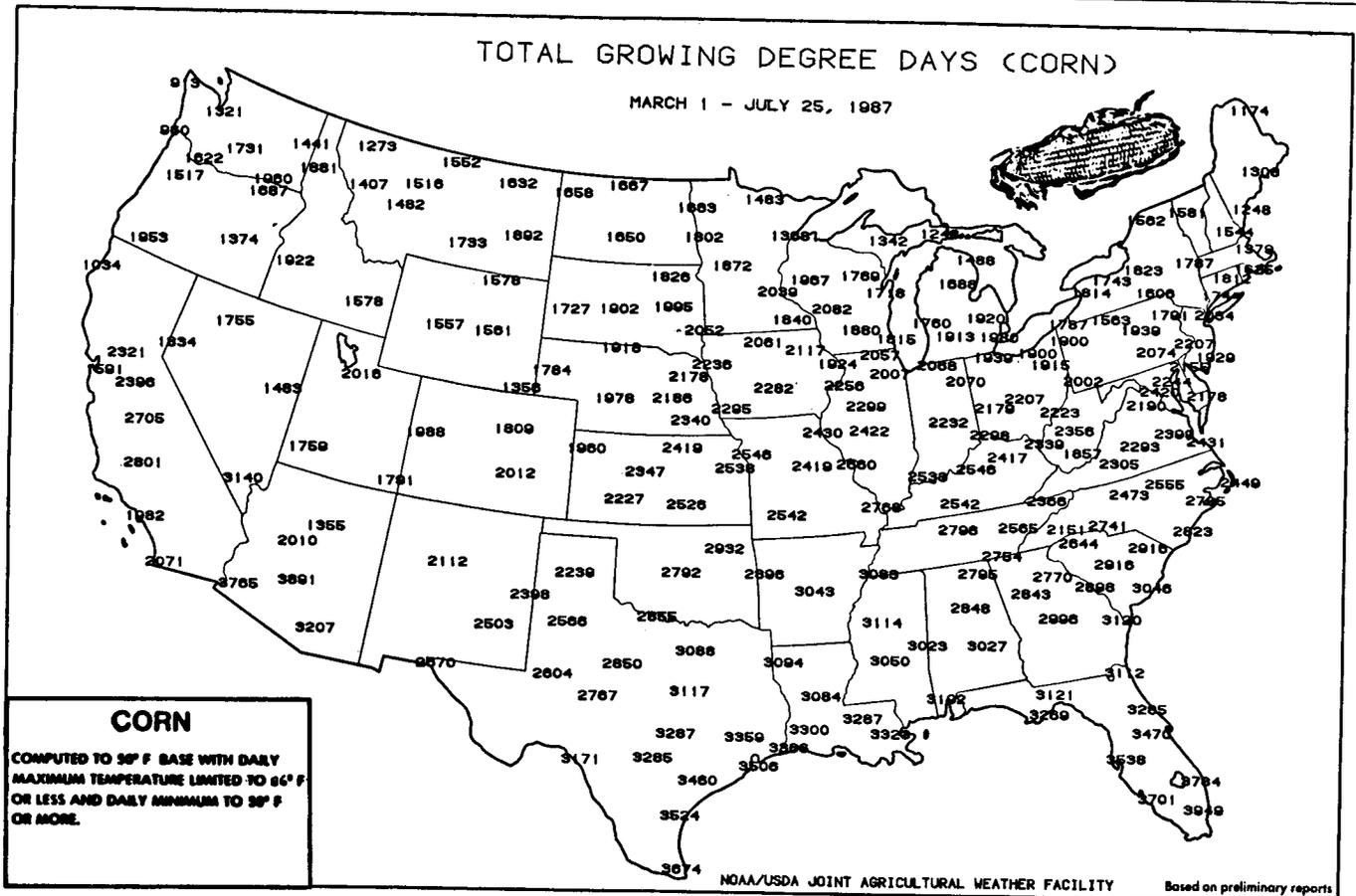




Point values may differ on these computerized maps from the reported values in the tables.







National Weather Data for Selected Cities

Weather Data for the Week Ending July 25, 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		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
AL BIRMINGHAM	94	70	98	67	82	2	.1	-1.2	.1	5.5	70	26.1	77	93	40	7	0	1	0	
MOBILE	91	72	97	69	81	-1	.9	-1.0	.4	11.2	100	43.5	115	97	51	4	0	3	0	
MONTGOMERY	95	70	101	65	83	1	.1	-1.0	.1	9.6	131	36.9	122	93	41	6	0	2	0	
AK ANCHORAGE	64	52	70	48	58	0	.7	.2	.4	2.3	89	6.0	99	94	60	0	0	2	0	
BARROW	48	36	57	34	42	2	1.5	1.3	1.2	2.0	198	2.4	127	99	84	0	0	4	1	
FAIRBANKS	70	55	77	50	62	1	.7	.3	.5	2.2	80	3.2	65	91	48	0	0	5	1	
JUNEAU	75	53	82	50	64	8	0	-1.0	0	7.4	120	21.9	95	85	48	0	0	0	0	
KODIAK	68	51	77	46	60	5	.1	-1.7	.1	18.0	260	47.2	155	90	55	0	0	2	0	
NOME	54	48	58	44	51	0	.3	.3	.1	1.5	54	4.0	68	97	79	0	0	4	0	
AZ PHOENIX	108	82	113	74	95	2	0	.2	0	T	1	3.2	100	34	14	7	0	0	0	
PRESCOTT	90	55	96	47	73	-1	1.3	.5	1.0	1.6	55	6.2	69	54	15	3	0	2	1	
TUCSON	106	74	109	67	91	4	T	-6	T	.3	15	4.9	105	45	14	7	0	1	0	
YUMA	106	78	111	70	92	-3	0	0	0	T	0	.4	44	46	15	7	0	0	0	
AR FORT SMITH	94	71	96	68	82	0	0	.9	.3	0	9	23.1	99	96	46	7	0	0	1	
LITTLE ROCK	93	72	97	70	83	0	0	.5	.3	4.3	65	21.6	73	78	51	6	0	3	0	
CA BAKERSFIELD	87	57	92	53	72	-13	0	0	0	.3	517	4.0	103	74	26	1	0	0	0	
EUREKA	65	56	67	52	61	4	0	0	0	.5	75	17.9	80	89	68	0	0	0	0	
FRESNO	87	59	92	57	73	-8	0	0	0	T	14	6.6	95	70	20	2	0	0	0	
LOS ANGELES	72	59	73	58	66	-4	0	0	0	.2	2	3.0	36	94	62	0	0	0	0	
REDDING	87	57	93	54	72	-12	0	0	0	.2	21	19.3	78	69	20	2	0	0	0	
SACRAMENTO	84	53	89	49	69	-7	0	0	0	T	0	8.8	82	89	27	0	0	0	0	
SAN DIEGO	72	62	74	59	67	-4	T	0	T	T	75	5.1	83	85	65	0	0	0	0	
SAN FRANCISCO	70	56	72	53	63	0	T	0	T	T	0	8.5	69	88	52	0	0	0	0	
CO DENVER	94	61	96	55	77	3	.4	0	.4	4.2	135	13.1	135	59	17	7	0	1	0	
GRAND JUNCTION	93	60	100	54	77	-3	.1	0	.1	.8	111	6.2	152	53	17	5	0	2	0	
PUEBLO	100	59	105	52	80	2	0	-.4	0	1.5	59	6.3	102	58	12	7	0	0	0	
CT BRIDGEPORT	88	72	94	70	80	6	.1	-.7	-.1	2.6	47	18.6	81	89	55	3	0	1	0	
HARTFORD	90	69	96	65	80	6	1.1	.4	1.0	5.8	99	24.3	101	95	46	5	0	2	1	
DC WASHINGTON	98	77	100	71	87	8	.3	-.7	.3	6.1	95	19.4	90	83	38	7	0	1	0	
FL APALACHICOLA	90	73	93	71	82	0	.2	-1.4	.2	7.0	67	29.9	108	94	56	3	0	2	0	
DAYTONA BEACH	89	71	96	66	80	-1	.6	-.6	.4	5.9	54	25.6	103	99	61	2	0	2	0	
JACKSONVILLE	91	69	99	67	80	-2	.6	-.9	.4	6.4	59	24.2	86	98	55	4	0	2	0	
KEY WEST	89	80	91	78	85	0	.1	-.7	.1	7.3	92	21.0	119	83	62	2	0	2	0	
MIAMI	90	76	91	73	83	0	.6	-.7	.5	10.3	74	23.1	78	90	56	5	0	3	0	
ORLANDO	92	74	96	71	83	0	1.5	-.3	.6	11.3	83	27.6	98	94	50	5	0	3	0	
TALLAHASSEE	94	71	99	68	82	1	.8	-1.3	.7	17.2	126	45.7	120	95	44	6	0	3	1	
TAMPA	92	73	96	71	83	0	1.4	-.3	1.3	9.4	85	29.5	119	95	56	7	0	2	1	
WEST PALM BEACH	88	76	90	72	82	-1	1.1	-.2	.9	10.6	82	29.0	96	91	61	1	0	3	1	
GA ATLANTA	94	71	98	68	83	4	.5	-.6	.5	11.5	160	32.6	106	80	34	7	0	1	0	
AUGUSTA	98	65	102	60	82	1	.7	-.3	.7	6.7	91	29.4	108	99	31	7	0	1	1	
MACON	96	68	102	62	82	1	.3	-.8	.2	6.5	88	28.1	98	96	32	7	0	2	0	
SAVANNAH	94	70	99	65	82	1	.1	-1.6	.1	12.3	106	34.9	118	93	42	7	0	1	0	
HI HILO	82	71	85	69	77	1	9.5	7.4	4.0	26.5	206	69.7	97	95	71	0	0	5	4	
HONOLULU	91	74	92	72	83	3	T	-.1	T	.7	80	3.3	25	81	48	7	0	0	0	
KAHULUI	88	70	90	68	79	1	T	-.1	T	.1	21	12.4	105	87	54	3	0	0	0	
LIHUE	84	75	85	72	79	1	.6	-.1	.5	3.0	91	13.7	57	89	70	0	0	2	0	
ID BOISE	85	52	93	46	68	-7	.7	.3	.2	1.0	86	6.1	85	73	23	2	0	2	0	
LEWISTON	83	59	91	52	71	-4	.3	.7	.6	3.6	197	7.2	93	77	32	2	0	2	1	
POCATELLO	83	48	95	39	66	-7	.8	.8	.8	2.1	148	7.1	108	91	27	2	0	1	1	
IL CHICAGO	93	72	96	67	83	9	.8	.1	.8	4.8	68	13.5	70	88	49	7	0	1	1	
MOLINE	96	73	99	70	84	9	T	-1.1	T	2.9	35	12.2	55	89	42	7	0	0	0	
PEORIA	95	72	99	69	84	8	0	-.9	0	4.2	59	12.0	58	92	42	7	0	0	0	
QUINCY	92	72	97	68	82	5	0	-1.0	0	4.8	64	13.5	62	90	51	6	0	0	0	
ROCKFORD	94	70	95	67	82	9	T	-1.0	T	4.5	55	13.9	65	94	49	7	0	0	0	
SPRINGFIELD	93	72	95	69	83	6	0	-.8	0	7.8	122	15.2	76	90	50	7	0	0	0	
IN EVANSVILLE	92	69	94	66	81	2	0	-.9	0	8.1	120	20.6	80	100	49	7	0	0	0	
FORT WAYNE	92	68	93	66	80	6	0	-.8	0	7.9	124	17.5	86	94	50	7	0	0	0	
INDIANAPOLIS	90	68	91	66	79	4	0	-1.0	0	11.7	156	20.8	89	98	51	5	0	0	0	
SOUTH BEND	91	72	94	67	81	8	.3	-.5	.3	5.9	86	16.9	80	91	52	7	0	1	0	
IA DES MOINES	92	73	96	70	82	6	T	-.7	T	7.2	107	18.6	103	91	50	6	0	0	0	
SIOUX CITY	90	70	92	65	80	4	.9	-.1	.9	6.2	92	17.5	111	92	61	4	0	1	1	
WATERLOO	91	72	93	68	81	8	.4	-.7	.3	7.8	96	16.2	82	92	58	5	0	2	0	
KS CONCORDIA	96	74	99	72	85	5	0	-.7	0	7.0	100	25.8	156	78	35	7	0	0	0	
DODGE CITY	92	68	94	65	80	-1	.4	-.3	.4	7.9	144	17.7	136	84	38	5	0	1	0	
GOODLAND	95	65	99	60	80	4	0	-.5	0	8.4	179	16.2	155	78	25	7	0	0	0	
TOPEKA	92	69	95	65	80	1	0	-.9	0	7.6	90	23.7	120	92	49	5	0	0	0	
WICHITA	95	72	98	67	83	1	T	-.8	T	6.6	95	24.1	144	89	38	7	0	0	0	
KY BOWLING GREEN	90	67	92	65	79	0	0	-1.0	0	10.5	130	26.4	87	100	51	5	0	0	0	
LEXINGTON	93	68	94	67	80	4	0	-1.1	0	9.8	119	21.9	78	90	40	7	0	0	0	
LOUISVILLE	93	71	95	69	82	4	0	-.9	0	7.9	114	20.1	76	94	42	7	0	0	0	
LA ALEXANDRIA	92	70	95	68	81	-2	.2	-.9	.2	5.0	67	31.6	98	93	54	6	0	2	0	
BATON ROUGE	90	72	94	71	81	-1	.6	-1.1	.4	7.4	84	34.0	102	96	55	5	0	3	0	
LAKE CHARLES	91	73	93	71	82	0	.8	-.4	.7	18.9	228	39.9	138	97	57	6	0	2	1	
NEW ORLEANS	90	73	94	71	82	0	.5	-1.1	.5	21.2	212	47.5	138	97	57	3	0	3	0	

Based on 1951-80 normals.

Weather Data for the Week Ending July 25, 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	TEMPERA- TURE		PRECIPI- TATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
SHREVEPORT	94	71	97	69	82	-1	T	-8	T	6.2	97	24.8	92	95	41	7	0	0	0	
ME CARIBOU	75	57	88	45	66	1	2.1	1.1	1.5	6.2	97	15.0	80	95	58	0	0	3	2	
PORTLAND	79	61	95	56	78	1	1.4	1.1	1.4	6.6	124	25.1	106	97	62	1	0	3	0	
MD BALTIMORE	96	73	98	68	85	7	7	-2	4	7.8	114	22.8	98	93	46	7	1	1	1	
SALISBURY	95	71	99	68	83	6	6	-1.1	4	3.5	52	21.9	90	96	45	7	0	0	0	
MA BOSTON	83	66	95	61	75	1	1	-6	4	3.4	68	26.9	112	92	55	2	0	0	0	
CHATHAM	74	62	77	61	68	0	T	-7	T	2.8	55	29.1	116	95	78	0	0	3	0	
MI ALPENA	93	64	97	61	79	12	12	-2	1	4.5	80	10.1	64	97	40	6	0	2	0	
DETROIT	92	71	93	69	81	9	9	-3	4	9.0	154	18.7	105	89	47	7	0	1	0	
FLINT	94	69	98	65	81	11	11	-7	9	3.8	69	10.9	67	98	49	7	0	3	1	
GRAND RAPIDS	91	70	93	66	80	8	8	-5	8	6.1	100	11.7	63	95	49	5	0	2	1	
HOUGHTON LAKE	91	68	98	62	79	12	12	-2	2	2.2	40	7.2	47	88	40	3	0	1	0	
LANSING	92	70	94	65	81	10	10	-4	1	5.6	94	10.9	66	89	47	7	0	2	0	
MARQUETTE	85	61	89	50	73	6	6	-2	-1	6.7	120	18.0	110	95	52	0	0	2	0	
MUSKOGON	87	71	89	66	79	8	8	-4	-2	2.3	53	11.4	69	93	59	0	0	2	0	
SAULT ST. MARIE	82	59	89	55	70	6	6	1.8	1.1	1.0	107	13.0	78	100	62	0	0	3	2	
MN ALEXANDRIA	87	66	98	62	76	5	5	1.5	-9	1.2	4.5	69	11.2	78	92	52	1	0	3	1
DULUTH	84	61	89	53	72	6	6	-4	-5	3.3	6.2	88	11.9	74	98	52	0	0	3	0
INT'L FALLS	81	57	83	51	69	3	3	2.2	1.3	1.0	5.4	79	10.3	77	97	53	0	0	5	2
MINNEAPOLIS	89	68	94	67	79	5	5	14.5	13.7	9.0	18.2	264	21.7	141	96	51	3	0	6	5
ROCHESTER	87	67	90	63	77	6	6	2.5	1.7	1.6	10.0	147	15.3	95	98	64	2	0	3	2
MS GREENWOOD	93	72	97	69	82	0	0	1.1	-1	1.1	6.5	91	29.0	87	93	49	6	0	2	1
JACKSON	94	69	96	66	81	-1	-1	1.9	-2	1.8	7.2	106	33.8	105	96	45	7	0	2	1
MERIDIAN	94	69	98	65	81	0	0	1.3	-9	2	8.8	112	39.4	117	97	44	6	0	2	0
MO CAPE GIRARDEAU	92	71	94	67	81	-1	-1	1.3	-6	3	11.0	168	23.1	86	90	49	5	0	1	0
COLUMBIA	93	71	96	68	82	3	3	0	-7	0	7.0	112	16.4	76	90	46	7	0	0	0
KANSAS CITY	94	73	97	71	83	3	3	0	-9	0	7.6	95	20.4	98	86	46	6	0	0	0
SAINT LOUIS	93	75	95	72	84	5	5	0	-8	0	8.6	129	17.9	86	85	48	7	0	0	0
SPRINGFIELD	92	70	96	69	81	2	2	0	-7	0	8.4	110	27.3	118	95	50	6	0	1	0
MT BILLINGS	82	57	87	49	69	-4	-4	1.6	-4	1.6	3.2	118	9.3	96	88	32	0	0	1	1
GLASGOW	78	54	88	49	66	-5	-5	1.6	-3	4	2.8	71	6.4	90	93	40	0	0	3	0
GREAT FALLS	79	53	96	48	66	-4	-4	1.8	-6	5	4.4	120	9.7	95	87	32	1	0	3	1
HAVRE	78	53	90	46	66	-5	-5	1.8	-3	4	3.3	99	5.9	77	88	41	1	0	0	0
HELENA	80	50	97	42	66	-3	-3	1.1	-2	2	4.4	152	8.2	111	90	29	1	0	4	0
KALISPELL	75	51	86	41	63	-3	-3	3.1	2.9	2.0	4.9	165	11.1	120	94	46	0	0	4	2
MILES CITY	87	59	89	51	73	-3	-3	1.3	0	3	2.3	57	7.5	79	87	32	0	0	2	0
MISSOULA	76	48	86	40	62	-6	-6	1.8	1.7	1.5	4.0	157	7.6	94	99	41	0	0	3	1
NE GRAND ISLAND	98	71	100	70	84	7	7	0	-6	0	2.7	45	16.4	109	84	34	7	0	0	0
LINCOLN	96	72	99	67	84	6	6	0	-7	0	6.0	93	19.4	116	84	38	7	0	0	0
NORFOLK	93	71	96	65	82	6	6	1.1	-4	1.1	4.5	65	19.1	122	84	46	7	0	1	1
NORTH PLATTE	93	64	95	58	78	3	3	0	-6	0	6.7	108	14.3	107	90	39	7	0	0	0
OMAHA	93	72	95	68	82	4	4	0	-8	0	6.8	96	20.2	114	85	54	7	0	0	0
SCOTTSDUFF	96	63	100	57	79	5	5	-2	-2	2	5.1	110	16.6	158	84	24	7	0	1	0
VALENTINE	92	66	100	63	79	4	4	0	-6	0	6.0	121	14.2	127	81	36	5	0	0	0
NV ELY	78	41	88	36	60	-9	-9	1.2	1.1	1.1	1.5	116	6.5	116	79	20	0	0	2	1
LAS VEGAS	99	68	107	60	84	-7	-7	0	-1	0	1.2	46	3.3	159	28	8	7	0	0	0
RENO	80	45	89	37	62	-8	-8	0	-1	0	1.2	221	6.0	132	62	15	0	0	0	0
WINNEMUKCA	83	43	90	33	63	-10	-10	1.1	-1	1	1.6	60	6.9	144	65	12	2	0	1	0
NH CONCORD	86	63	94	60	75	5	5	1.5	-2	5	9.2	174	21.5	110	99	51	3	0	1	0
NJ ATLANTIC CITY	92	71	97	69	82	6	6	1.3	-6	3	7.0	119	27.0	118	95	49	5	0	1	0
NM ALBUQUERQUE	93	64	98	60	78	-1	-1	1.2	-1	1	1.4	26	3.3	92	66	22	6	0	2	0
CLOVIS	90	66	93	64	78	0	0	0	-7	0	4.7	96	10.0	108	83	33	4	0	0	0
ROSWELL	92	67	95	63	79	-1	-1	1.4	-4	4	4.2	182	8.5	183	80	27	6	0	1	0
NY ALBANY	90	67	94	63	78	7	7	1.1	-6	1	5.6	99	17.9	92	98	49	5	0	1	0
BINGHAMTON	86	66	90	63	76	7	7	1.9	-1	6	7.9	124	19.0	94	94	54	1	0	3	1
BUFFALO	88	72	90	70	80	9	9	1.8	-1	6	10.3	207	22.5	117	89	56	1	0	4	1
NEW YORK	90	74	94	72	82	5	5	1.5	-3	3	10.7	178	27.3	117	94	60	4	0	2	0
ROCHESTER	87	67	90	61	77	5	5	1.6	-1	6	9.5	199	18.8	110	94	53	1	0	1	1
SYRACUSE	89	69	93	66	79	8	8	1.1	-8	1	7.1	108	17.4	81	88	47	2	0	1	0
NC ASHEVILLE	90	61	93	58	75	1	1	0	-9	0	10.8	160	28.9	114	97	36	4	0	0	0
CHARLOTTE	98	72	101	67	85	6	6	0	-9	0	3.9	59	21.1	81	81	30	7	0	0	0
GREENSBORO	95	70	97	66	82	5	5	1.2	-8	2	6.9	95	29.2	119	91	38	7	0	1	0
HATTERAS	90	73	93	60	81	3	3	0	-1.3	0	5.2	61	35.4	124	93	58	4	0	0	0
NEW BERN	94	72	99	63	83	3	3	0	-1.6	0	10.9	103	31.7	107	91	46	7	0	0	0
RALEIGH	97	70	99	65	83	5	5	0	-1.0	0	3.5	49	24.3	100	89	36	7	0	0	0
WILMINGTON	94	70	100	60	82	1	1	0	-1.7	0	7.6	65	25.1	84	95	45	6	0	0	0
ND BISMARCK	85	60	91	55	73	1	1	1.6	1.2	5	5.1	109	12.5	125	98	50	1	0	3	0
FARGO	87	64	95	59	76	4	4	2.0	1.3	1.3	3.4	59	8.6	74	95	45	1	0	4	2
GRAND FORKS	83	61	87	55	72	2	2	1.2	1.5	7	6.4	122	12.2	116	99	56	0	0	5	1
WILLISTON	78	56	84	50	67	-4	-4	1.7	1.3	7	5.4	130	9.9	113	93	48	0	0	3	1
OH AKRON-CANTON	90	69	91	66	79	7	7	0	-9	0	6.0	93	17.8	84	96	48	5	0	0	0
CINCINNATI	92	67	93	65	80	4	4	0	-9	0	8.8	116	21.5	87	93	43	6	0	0	0
CLEVELAND	91	71	94	68	81	8	8	0	-7	0	11.3	183	23.0	113	93	52	6	0	0	0
COLUMBUS	93	69	94	66	81	7	7	0	-9	0	6.5	89	15.1	67	99	48	7	0	0	0

Based on 1951-80 normals.

Weather Data for the Week Ending July 25, 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		PRECIPITATION			
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE		
DAYTON	90	69	91	67	80	5	0	-7	0	7.4	113	17.6	82	92	48	6	0	0	0		
TOLEDO	93	68	96	65	80	8	0	-2	0	7.1	118	15.4	84	97	52	7	0	1	1		
YOUNGSTOWN	91	69	92	66	80	9	0	-8	0	9.8	145	21.0	97	97	48	6	0	1	0		
OK OKLAHOMA CITY	91	72	94	71	82	-1	0	-7	0	9.5	150	30.7	162	88	46	4	0	0	0		
TULSA	93	74	96	72	84	0	0	-7	0	6.5	87	26.5	116	85	43	7	0	0	0		
OR ASTORIA	66	53	74	50	60	-1	0	-2	0	1.6	47	32.4	88	97	72	0	0	3	0		
BURNS	75	45	81	38	60	-9	0	8	0	1.8	184	6.9	106	***	***	0	0	2	1		
MEDFORD	80	54	85	49	67	-6	0	8	0	1.5	170	9.4	90	93	34	0	0	3	0		
PENDLETON	83	55	88	50	69	-6	0	-1	0	1.7	81	5.6	81	82	27	0	0	2	0		
PORTLAND	80	59	88	54	69	-1	0	-1	0	1.0	58	19.0	96	85	40	0	0	0	0		
SALEM	79	54	87	50	66	-1	0	-3	0	2.8	185	21.7	100	93	47	0	0	1	0		
PA ALLENTOWN	93	71	94	68	82	0	0	-8	0	7.9	118	21.7	89	92	44	7	0	3	0		
ERIE	86	73	88	70	79	9	0	-8	0	9.0	136	20.1	97	86	56	0	0	1	0		
HARRISBURG	97	72	98	67	85	8	0	0	0	7.5	85	18.7	84	89	36	7	0	2	1		
PHILADELPHIA	95	73	97	70	84	7	0	-8	0	6.9	98	20.6	88	92	46	7	0	1	0		
PITTSBURGH	92	70	94	66	81	9	0	-9	0	8.7	133	21.9	99	89	41	7	0	2	1		
SCRANTON	89	67	91	64	78	6	0	0	0	9.7	158	20.8	108	93	49	3	0	2	0		
RI PROVIDENCE	85	65	94	62	75	2	0	-5	0	3.2	62	22.6	92	95	52	2	0	2	0		
SC CHARLESTON	94	71	99	64	82	1	0	-1.7	0	8.1	65	29.1	96	95	43	6	0	0	0		
COLUMBIA	87	67	101	61	83	1	0	-1.2	0	8.7	100	29.3	99	93	34	7	0	0	0		
FLORENCE	97	70	100	61	83	2	0	-1.3	0	5.1	55	21.9	82	87	34	7	0	0	0		
GREENVILLE	97	67	100	63	82	3	0	-1.0	0	9.5	119	30.1	98	91	34	7	0	0	0		
SD ABERDEEN	90	64	99	60	77	4	0	-3	0	2.7	51	8.0	68	94	47	3	0	3	0		
HURON	92	66	97	62	79	4	0	4	0	3.7	72	12.6	103	96	48	6	0	2	1		
RAPID CITY	95	62	105	54	78	5	0	-2	0	1.9	39	8.2	71	91	28	6	0	2	0		
SIoux FALLS	91	68	95	66	80	5	0	-2	0	4.9	84	11.8	82	93	51	6	0	3	0		
TN CHATTANOOGA	96	69	100	67	83	4	0	-1.0	0	6.7	96	32.0	101	97	32	7	0	0	0		
KNOXVILLE	94	66	97	64	80	2	0	-1.0	0	7.3	98	26.4	90	98	36	7	0	0	1		
MEMPHIS	93	74	97	70	83	1	0	-3	0	4.9	72	22.5	71	87	47	7	0	2	0		
NASHVILLE	93	70	95	66	82	2	0	-8	0	4.3	63	17.3	58	98	45	7	0	2	0		
TX ABILENE	91	70	93	68	81	-4	0	-5	0	3.8	89	14.8	116	86	36	7	0	0	0		
AMARILLO	90	66	92	65	78	-1	0	-6	0	4.1	73	12.0	106	80	35	3	0	0	0		
AUSTIN	92	73	94	71	82	-3	0	9	0	1.3	9	14.3	312	152	98	52	6	0	2	1	
BEAUMONT	93	73	94	73	83	0	0	-1.1	0	1.3	15.7	165	37.1	124	98	53	7	0	3	0	
BROWNSVILLE	93	74	95	71	84	0	0	-2	0	1	5.0	128	13.2	122	96	48	7	0	1	0	
CORPUS CHRISTI	92	74	95	73	83	-2	0	-4	0	1.1	6.1	106	20.1	135	95	53	6	0	3	0	
DEL RIO	92	73	93	69	82	-4	0	-4	0	6.8	219	17.2	192	85	39	7	0	0	0		
EL PASO	94	69	99	67	82	-1	0	-4	0	2.5	138	4.1	123	76	29	6	0	1	0		
FORT WORTH	95	73	96	71	84	-2	0	-4	0	1	5.1	125	17.8	96	88	39	7	0	1	0	
GALVESTON	88	79	90	76	84	0	0	-4	0	4	12.8	195	26.0	130	79	59	1	0	2	0	
HOUSTON	93	73	94	72	83	-1	0	-2	0	4	14.2	194	27.6	109	97	50	7	0	3	0	
LUBBOCK	90	67	91	65	78	-2	0	-5	0	6.8	145	12.6	125	93	45	4	0	0	0	0	
MIDLAND	92	66	94	64	79	-3	0	-4	0	3.3	119	11.4	161	87	33	7	0	0	0	0	
SAN ANGELO	92	66	93	62	79	-5	0	-3	0	3.5	125	22.9	247	90	37	7	0	0	0	0	
SAN ANTONIO	91	73	93	70	82	-3	0	2	0	8.9	196	30.2	194	95	47	6	0	2	1	0	
VICTORIA	91	74	94	71	82	-2	0	3.7	0	3.1	2.0	16.6	249	149	97	55	5	0	5	2	
WACO	97	71	99	68	84	-2	0	-4	0	7.3	182	19.7	108	96	38	7	0	1	0	0	
WICHITA FALLS	95	71	97	69	83	-3	0	-4	0	5.2	116	23.5	152	88	36	7	0	0	0	0	
UT BLANDING	88	56	95	50	72	-2	0	-1	0	1.6	132	6.5	118	67	26	3	0	1	0	0	
CEDAR CITY	84	53	94	46	69	-6	0	5	0	1.1	87	5.9	105	68	22	2	0	2	0	1	
SALT LAKE CITY	88	58	98	53	73	-6	0	6	0	1.0	63	8.6	90	64	23	2	0	2	1	0	
VT BURLINGTON	85	65	95	61	75	5	0	1.3	0	1.1	7.2	113	15.0	85	96	52	2	0	3	1	
VA NORFOLK	96	74	99	70	85	6	0	-1.2	0	5.0	67	26.9	108	90	41	7	0	0	0	0	
RICHMOND	97	71	101	66	84	6	0	-7	0	7.5	98	27.5	115	88	36	7	0	0	0	0	
ROANOKE	97	67	99	62	82	6	0	1	0	3.3	55	30.6	137	94	32	7	0	1	0	0	
WA COLVILLE	82	55	90	48	68	-1	0	0	0	2.5	118	10.8	112	83	44	2	0	3	0	0	
QUILLAYUTE	67	52	73	48	59	0	0	-6	0	3.0	60	54.1	97	98	67	0	0	2	0	0	
SEATTLE-TACOMA	75	55	83	54	65	0	0	-1	0	1	5	27	19.1	97	95	50	0	0	1	0	0
SPOKANE	78	54	85	50	66	-5	0	6	0	2.6	164	9.2	97	94	37	0	0	0	0	0	
YAKIMA	84	54	89	47	69	-2	0	0	0	5	65	4.3	97	87	31	0	0	0	0	0	
WV BECKLEY	89	62	91	55	75	5	0	-1.1	0	5.9	75	24.7	98	93	39	4	0	0	0	0	
CHARLESTON	94	66	97	60	80	5	0	-1.3	0	7.4	98	21.9	87	97	37	6	0	0	0	0	
HUNTINGTON	93	66	95	61	79	3	0	-1.1	0	5.7	78	22.3	90	100	46	7	0	0	0	0	
PARKERSBURG	95	67	97	62	81	6	0	-9	0	3.4	48	13.9	60	96	40	7	0	0	0	0	
WI GREEN BAY	90	69	93	63	79	10	0	4	0	1.1	4.0	70	11.3	72	95	54	4	0	3	1	
LACROSSE	92	71	96	68	82	8	0	6	0	1.1	5.9	82	16.4	94	92	52	6	0	2	1	
MADISON	91	68	95	65	80	8	0	9	0	7	3.4	50	13.0	74	94	51	6	0	3	1	
MILWAUKEE	90	72	94	65	81	9	0	4	0	8.6	86	17.8	99	87	57	4	0	1	0	0	
WAUSAU	87	68	91	64	78	8	0	1.1	0	2.0	1.1	7.0	99	94	57	1	0	6	1	0	
WY CASPER	92	56	97	50	74	2	0	-1	0	1	1.6	75	7.6	99	85	13	6	0	1	0	
CHEYENNE	89	58	92	55	74	4	0	-4	0	3.4	96	10.7	120	63	18	3	0	1	0	0	
LANDER	87	55	95	48	71	-1	0	0	0	1.6	81	10.2	112	61	17	1	0	1	0	0	
SHERIDAN	84	55	88	48	69	-2	0	-1	0	3.5	114	9.2	91	91	39	0	0	2	0	0	
PR SAN JUAN	89	76	91	75	83	1	0	-6	0	4	9.1	103	38.4	151	92	77	2	0	3	0	

Based on 1951-80 normals.

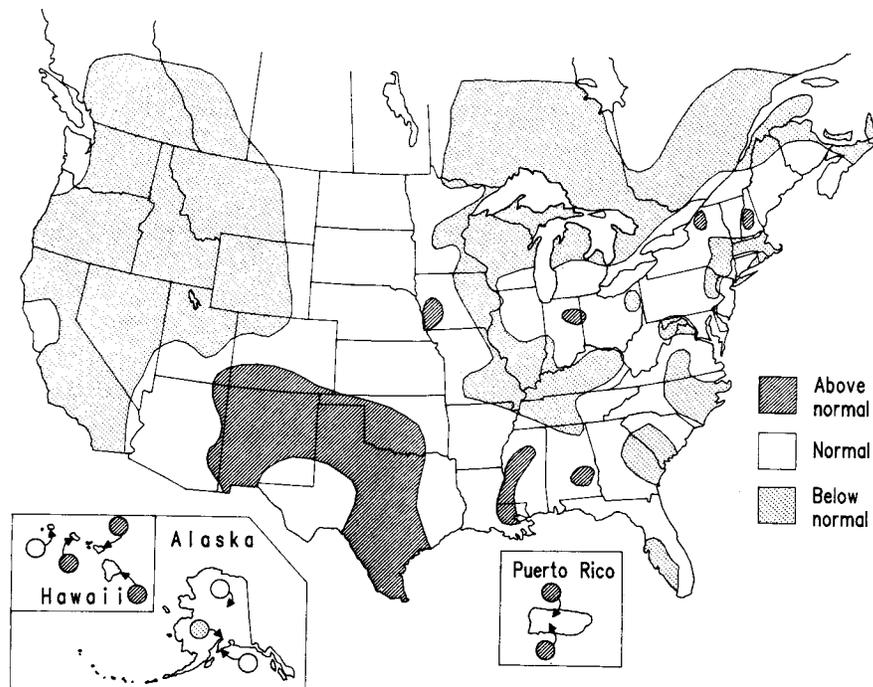
National Water Conditions

UNITED STATES
Department of the Interior
Geological Survey

CANADA
Department of the Environment
Water Resources Branch

JUNE 1987

STREAMFLOW DURING JUNE



Heavy rains from late May through early June caused significant flooding in Texas. A San Antonio resident drowned when her car was swept off a road by flood waters. A flood-ruptured pipeline northeast of Wichita Falls dumped an unknown volume of crude oil into the Red River.

Streamflow was in the normal to above-normal range at about 58 percent of the 191 reporting index stations in southern Canada, the United States, and Puerto Rico, about the same percentage of stations with flow in the normal to above-normal range as June and May 1986. Total June flow was 2,083,780 cubic feet per second (cfs), about 22 percent below median, about 12 percent below June's total flow, and the lowest for June in the last 5 years. Some areas in which flows had been persistently above normal have now had 2 or more consecutive months of below-normal flows. New minimums occurred at 10 index stations, and new maximums occurred at three index stations as flow generally decreased in most of southern Canada and the United States.

January through June temperatures were well above normal over most of southern Canada and the United States for the first 6 months of 1987. Precipitation was below normal on much of the same area in the United States where temperatures were above normal (Weekly Weather and Crop Bulletin).

The level of Utah's Great Salt Lake fell 0.40 foot during June, reaching 4,211.20 feet above National Geodetic Vertical Datum (NGVD) of June 30, 1929. Lake levels have fallen 0.65 foot since the record equaling March 30, 1987, seasonal high of 4,211.85 feet above NGVD.

Contents of 81 percent of reporting reservoirs were near or above average for the end of June, compared with 85 percent for the end of May.

The combined flow of the 3 largest rivers in the lower 48 States (Mississippi, St. Lawrence, and Columbia) averaged a below-normal level 1,051,400 cfs during June, 22.3 percent below median and 16.3 percent below June's flow.

National Agricultural Summary

July 19 to 26, 1987

HIGHLIGHTS: Heat and inadequate moisture stressed crops in the central Great Plains, Corn Belt, and Southeast. Crops began dropping fruit in some Southeast States. Despite the dryness, crops remained mostly good in the central Great Plains and Corn Belt. Soil moisture dwindled in the central and southern Great Plains, Corn Belt, and Southeast. Soil moisture was becoming critically short in the Southeast.

Winter wheat harvest reached 85-percent (%) completion, 4 percentage points above the 5-year average. Harvest was nearing end in the Corn Belt and central Great Plains. Spring wheat was 6% harvested, compared with 3% normally. Harvest had not begun in Idaho and Montana. Corn reached the dent stage in Illinois and Missouri. In the 17 major producing States, 29% of the acreage had ears in the dough stage, 17 points above the average. Harvest was underway in Georgia, Louisiana, and Texas. Soybeans were blooming on 76% of the acreage, and 42% were setting pods. Blooming was 20 points above the average, and pod setting was 23 points above normal. Inadequate moisture stressed soybeans in the Southeast. Sorghum was 46% headed, compared with the 33% average. Harvest was underway in Texas, and sorghum turned color in Louisiana and Mississippi. Cotton setting bolls reached 60% completion, 13 points above normal. Bolls were opening in Arizona, California, and Texas. Heat caused stress in the Southeast and fruit droppage in South Carolina. Rice was 36% headed, which was slightly ahead of normal. Harvest was underway in Texas. Livestock was mostly good. Heat caused stress in some areas.

SMALL GRAINS: Winter wheat was 85% harvested, 1 point above 1986 and 4 points above normal. Harvest was finished or virtually finished except in Colorado, Idaho, Montana, Oregon, South Dakota, and Washington. Harvest climbed 20 points or more from the previous week in Colorado, Michigan, Oregon, and South Dakota. Rain stalled harvest in Idaho.

Spring wheat was 6% combined, doubling the 5-year average and 4 points above 1986. Harvest was 20 points ahead of normal at 32% completion in South Dakota. This was 12 points greater than the previous week. Harvest was just getting underway in North Dakota but had not begun in Idaho and Montana. Eight percent of Minnesota's spring wheat turned color, and 7% was combined.

CORN: Corn development continued surging ahead of normal. Corn reached the dent stage as far North as Illinois. Hot, dry weather pushed corn to maturity in the Delta and Southeast. Crop condition was mostly fair in the Southeast. In the 17 major producing States, silking was 88% finished but approached completion in the Southeast and most Corn Belt States. Twenty-nine percent of the acreage reached the dough stage, more than doubling the average. Harvest was underway in Georgia, Louisiana, and Texas. Corn showed stress in Indiana.

SOYBEANS: Soybeans were mostly good through the Corn Belt and central and northern Great Plains. Despite the shortage of moisture, soybeans were mostly good to fair in the Delta and fair to good in the Southeast. Soybeans were under severe drought stress and insect pressures in Georgia. Soybeans were under heat and drought stress in Indiana, Kentucky, Nebraska, South Carolina, and Virginia. In the 19 major producing States, 76%

reached the blooming stage, 20 points above normal. Nearly all the acreage reached the blooming stage in the Corn Belt. Pods were setting on 42% of the area, more than doubling the average. Blooming and setting pods were ahead of normal in virtually all major-producing States.

SORGHUM: Sorghum was 46% headed, compared with 45% headed in 1986 and 33% normally. Heading surpassed the average and 1986 in all states except Louisiana. Twenty-three percent of Louisiana's sorghum turned color, and 1% was ripe. Thirty-three percent of Mississippi acreage was turning color. Sorghum progressed ahead of normal in Kansas, and some fields were treated for greenbug infestations. Sorghum was 11% harvested in Texas, 20 points behind normal. Harvest expanded in the southern Blacklands but was restricted by precipitation and high-moisture grain.

COTTON: Cotton was mostly good except in the Southeast, where condition was fair to good. Cotton continued setting bolls at a rapid pace and was 13 points ahead of the 47% average and 15 points above the previous week. Boll setting was ahead of normal in nearly all States and by as much as 30 points in California, Mississippi, and Tennessee. Hot, dry weather stressed cotton in Georgia and South Carolina. The heat caused fruit droppage in South Carolina. Cotton progressed well in Texas. Bolls were opening, and defoliation expanded in the Blacklands. Cotton was mostly squaring and blooming in the Plains. California's cotton progressed well. Most cotton was setting bolls, but bolls began opening in a few southern areas. Bolls were maturing and opening rapidly in Arizona.

OTHER CROPS: Rice was 36% headed, 11 points below 1986 but 4 points above the average. Heading was underway in all States but lagged behind normal in Louisiana, Mississippi, and Texas. Rice harvest got underway in Texas, but most fields were just beginning to turn color. Harvest began in Louisiana.

Peanuts were mostly good, but the lack of moisture began stressing peanuts in Georgia. Pegging continued lagging behind normal in Alabama and Georgia. Peanut growth was excellent in Texas, but additional moisture is needed. Blooming and pegging began in some areas.

Flue-cured tobacco harvest continued trailing behind normal in Georgia and South Carolina. Harvest had not begun in North Carolina. Early tobacco cutting was underway in Kentucky.

FRUIT AND NUTS: Citrus growers irrigated heavily to combat hot, dry conditions in Florida. New growth was abundant, and new crop fruit progressed well. Peach harvest continued lagging behind normal in the Southeast and Delta. Clingstone peach harvest was active in New Jersey. Peach harvest was underway in Oregon. Apples, table grapes, pears, stonefruit, and Valencia oranges were harvested in California. Pecans sized well, and fruit set was good in most areas of Texas. Some nut droppage occurred.

VEGETABLES: Heavy rain slowed fall vegetable land preparation in many southern and some northern areas of Florida. Panhandle growers prepared land and began planting fall crops. Fall vegetable land preparation and planting continued in the Rio

(continued to back cover)

Crop Progress

FOR WEEK ENDING JULY 26, 1987

SOYBEANS
% BLOOM

	1987	1986	AVG.
ALA	42	46	42
ARK	36	32	23
GA	48	31	42
ILL	96	87	77
IND	95	75	63
IOWA	92	77	68
KANS	65	60	30
KY	62	44	37
LA	47	63	48
MICH	75	45	45
MINN	88	79	67
MISS	40	33	42
MO	82	64	47
NEBR	75	85	66
N C	23	15	20
OHIO	90	76	68
S C	22	21	21
S DAK	84	49	61
TENN	40	40	40

19 STATES 76 65 56

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

	1987	1986	AVG.
ALA	12	21	19
ARK	10	20	9
GA	15	8	14
ILL	73	52	36
IND	50	20	12
IOWA	60	31	27
KANS	30	25	10
KY	22	14	10
LA	22	34	21
MICH	25	10	5
MINN	49	15	8
MISS	16	17	12
MO	47	37	21
NEBR	30	35	18
N C	0	0	0
OHIO	46	26	20
S C	8	7	5
S DAK	25	17	10
TENN	17	14	9

19 STATES 42 28 19

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

	1987	1986	AVG.
ARK	100	100	100
CALIF	98	98	96
COLO	86	88	81
GA	100	100	100
IDAHO	6	26	7
ILL	100	100	100
IND	100	100	97
KANS	100	100	99
MICH	95	80	60
MO	100	100	98
MONT	9	11	9
NEBR	99	96	85
N MEX	100	100	NA
N C	100	100	100
OHIO	99	93	95
OKLA	100	100	100
OREG	43	18	17
S DAK	70	66	56
TEX	100	100	100
WASH	26	22	18

20 STATES 85 85 NA

EXCL. STATES WITH NA 85 84 81

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

NA - NOT AVAILABLE.

CORN
% SILKING

	1987	1986	AVG.
COLO	39	45	35
GA	100	100	99
ILL	98	95	83
IND	99	85	60
IOWA	97	80	59
KANS	80	85	50
KY	93	87	70
MICH	85	55	45
MINN	84	50	32
MO	97	93	68
NEBR	85	77	48
N C	91	96	93
OHIO	76	83	59
PA	61	44	37
S DAK	62	28	27
TEX	91	96	93
WIS	72	47	31

17 STATES 88 75 57

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

	1987	1986	AVG.
COLO	2	12	4
GA	92	97	93
ILL	65	42	24
IND	55	20	5
IOWA	12	6	2
KANS	40	25	10
KY	30	35	10
MICH	10	4	1
MINN	0	1	0
MO	62	56	32
NEBR	15	12	3
N C	63	77	68
OHIO	24	17	11
PA	0	0	0
S DAK	5	0	0
TEX	69	76	72
WIS	1	0	1

17 STATES 29 20 12

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

	1987	1986	AVG.
ARK	83	75	NA
ILL	75	53	NA
KANS	20	25	5
LA	80	97	86
MISS	75	73	59
MO	74	54	43
NEBR	35	32	12
OKLA	40	30	25
S DAK	22	7	9
TENN	70	70	65
TEX	72	70	70

11 STATES 49 46 NA

EXCL. STATES WITH NA 46 45 33

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

NA - NOT AVAILABLE.

RICE
% HEADED

	1987	1986	AVG.
ARK	26	32	14
CALIF	5	0	1
LA	54	80	65
MISS	35	68	34
TEX	81	95	88

5 STATES 36 47 32

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

	1987	1986	AVG.
IDAHO	0	0	0
MINN	7	2	1
MONT	0	0	0
N DAK	1	0	1
S DAK	32	10	18

5 STATES 6 2 3

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

	COTTON				COTTON		
	% SQUARING				% SETTING BOLLS		
	1987	1986	AVG.	1987	1986	AVG.	
ALA	99	98	96	ALA	83	77	68
ARIZ	100	100	100	ARIZ	89	95	92
ARK	100	100	99	ARK	95	94	82
CALIF	100	100	96	CALIF	90	70	60
GA	100	97	98	GA	87	68	78
LA	98	100	96	LA	80	92	76
MISS	100	100	99	MISS	95	93	65
MO	100	100	96	MO	100	84	73
N MEX	95	95	96	N MEX	41	45	64
N C	97	97	87	N C	81	65	65
OKLA	70	65	50	OKLA	20	20	10
S C	98	98	96	S C	74	86	89
TENN	99	95	95	TENN	80	60	50
TEX	90	80	77	TEX	35	32	29
14 STATES	94	89	85	14 STATES	60	55	47

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

Crop Condition

FOR WEEK ENDING JULY 26, 1987

RICE						GRAIN SORGHUM						SPRING WHEAT					
STATE	VP	P	F	G	EX	STATE	VP	P	F	G	EX	STATE	VP	P	F	G	EX
ARK	0	0	23	77	0	ARK	0	0	33	52	15	IDAHO	0	3	23	56	18
CALIF	0	0	0	75	25	ILL	0	0	9	74	17	MINN	0	8	50	38	4
LA	0	0	25	64	11	KANS	0	7	2	37	54	MONT	0	3	25	55	17
MISS	0	0	19	77	4	LA	0	2	32	65	1	N DAK	0	1	31	62	6
TEX	0	0	14	76	10	MISS	2	3	27	67	1	S DAK	1	8	36	51	4
						MO	0	0	18	74	8						
						NEBR	0	0	15	69	16						
						OKLA	0	0	10	87	3						
						S DAK	0	0	35	62	3						
						TENN	0	1	42	55	2						
						TEX	1	1	15	60	23						

CORN						COTTON						SOYBEANS					
STATE	VP	P	F	G	EX	STATE	VP	P	F	G	EX	STATE	VP	P	F	G	EX
COLO	0	1	27	49	23	ALA	0	5	18	70	7	ALA	0	0	26	74	0
GA	0	3	30	64	3	ARIZ	0	0	0	80	20	ARK	0	0	30	66	4
ILL	0	3	19	55	23	ARK	0	6	4	61	29	GA	0	14	44	42	0
IND	0	0	11	55	34	CALIF	0	0	0	40	60	ILL	0	2	17	71	10
IOWA	0	1	9	54	36	GA	0	6	54	40	0	IND	0	0	14	71	15
KANS	0	0	8	19	73	LA	0	0	16	82	2	IOWA	0	1	11	61	27
KY	0	0	18	60	22	MISS	0	3	13	78	6	KANS	0	0	2	25	73
MICH	5	15	25	40	15	MO	0	0	0	50	50	KY	0	0	41	52	7
MINN	1	4	20	48	27	N MEX	0	0	29	71	0	LA	0	13	28	59	0
MO	0	0	16	63	21	N C	3	6	37	48	6	MICH	1	9	25	50	15
NEBR	0	0	20	69	11	OKLA	0	10	30	45	15	MINN	1	3	20	54	22
N C	9	25	40	23	3	S C	0	13	73	14	0	MISS	1	2	52	42	3
OHIO	1	3	12	52	32	TENN	0	2	26	51	21	MO	0	0	30	64	6
PA	0	5	13	37	45	TEX	1	1	39	52	7	NEBR	0	0	28	67	5
S DAK	0	1	9	63	27							N C	1	19	54	25	1
TEX	2	3	10	57	28							OHIO	1	4	20	51	24
WISC	1	2	20	54	23							S C	0	14	66	20	0
												S DAK	0	0	3	71	26
												TENN	0	8	34	58	0

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

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 averaged under 0.50 in.; local areas 1.00 to 2.00 in. Temperatures averaged 1 to 3° above normal.

Days suitable for fieldwork 6.0. Soil moisture 68% short, 32% adequate. Scattered rainfall benefited some areas; weed problem for peanut crop. Corn 68% dented, 76% 1986, 68% avg.; 40% mature, 51% 1986, 39% avg.; 23% fair, 70% good, 7% excellent. Cotton 99% squaring, 98% 1986, 96% avg.; 83% setting bolls, 77% 1986, 68% avg.; 5% poor, 18% fair, 70% good, 7% excellent. Peanuts 86% pegging, 84% 1986, 90% avg.; 21% fair, 79% good. Soybeans 42% blooming, 46% 1986, 42% avg.; 12% setting pods, 21% 1986, 19% avg.; 26% fair, 74% good. Livestock, pastures mostly good. Primary activities: Harvesting hay, fruits, vegetables; cultivating row crops; applying fungicides to peanuts; spraying for insects cotton, pecans, fruits, vegetables; fertilizing fish ponds; general care of livestock, poultry.

ALASKA: All areas of Railbelt received rain ranging from 0.11 in. Kodiak to 0.94 in. Palmer. Temperature lows ranged from normal to 6° above normal; highs ranged from 5° below normal to 4° above normal. Precipitation totals ranged from 10.18 in. above normal to 1.11 in. drier than normal.

Days suitable for haymaking 2.0. Topsoil moisture 93% adequate, 7% surplus. Subsoil moisture 99% adequate, 1% surplus. Barley for grain 35% poor, 42% fair, 24% good. Barley development 35% headed; 65% dough stage, 85% 1986. Crop growth moderate to rapid by weekend. First cutting hay harvest averaged less than 75% complete, 90% 1986. Potato hilling nearly finished Tanana Valley, 85% Matanuska Valley. Commercial harvest head lettuce, leaf lettuce, radishes, greens, broccoli.

ARIZONA: Southwesterly flow continued 20th bringing clouds, moisture statewide. Cold front 23rd brought gusty winds 20 to 40 mph, setting off scattered showers, thunderstorms east. Southeasterly winds brought monsoon moisture to central, southeast portions 24th. Show Low received 1.22 in. rainfall, 0.25 in. hail. North, west remained very dry, hot; temperatures 110 to 115° lower western deserts, upper 90s 5,000 ft., upper 80s mountains. Monsoon firmly established 25th, moisture covered majority of east. Precipitation mostly under 0.50 in., locally over 1.00 in. White Mountains, none extreme west. Average temperatures 7° below normal to 4° above.

Cotton progress good. Bolls maturing, opening rapidly; boll set good. Insect infestations unusually light; isolated reports of pink bollworms, mites, Texas root rot. Irrigation active; fertilization, insect controls applied as needed. Alfalfa harvest progressed, most hay stacked for later sale due to poor market conditions. Sudan grass growth good since previous cuttings. Sorghum good; flea beetles active west, controls applied. Crop mostly between jointing, heading stages. Table grape season complete; final packing thompsons, flame seedless Harquahala. Market conditions poor, some fruit left in field. Some grapes diverted to raisin production. Citrus groves good, new crop prospects favorable. Fig harvest complete. Apple deal to commence August 10th to 15th. Carrots, green onions dug. Green chili harvest slowed southeast; crop good. Preliminary land preparations early fall vegetables

underway west. Watermelon movement central area limited. Crop sizing well southeast. Honeydew, cantaloup movement moderate Aguila.

ARKANSAS: Area of clouds, showers passed through State midweek, held temperatures at or slightly below normals. Rainfall all sections with mostly light to occasional moderate amounts. Temperature extremes 61°; 103°. Rainfall none to 2.93 in.

Days suitable for fieldwork 7.0. Major activities: Cutting, baling hay; applying fungicides, insecticides; fertilizing, irrigating crops; scouting fields for insects, diseases. Livestock good.

CALIFORNIA: Low pressure area brought temperatures well below normal all over State. Also brought precipitation to northern Sierra Nevada. Inland temperatures warmed somewhat as low moved north.

Cooler weather slowed crop progress somewhat. Showers northern counties lodged late grain. Early rice headed. Seeding 2nd crop dry beans virtually completed. Early fields irrigated. Cotton progress good. Most fields bolls set, few southern area open bolls. Irrigation, pest control, other field activities normal. Wild rice, safflower harvests underway. Alfalfa harvest hay, greenchop normal. Apple, table grape, pear, stonefruit, valencia orange harvests active. Bagging dates, spraying grapes, walnuts active. Artichokes light, good quality, Salinas. Snap beans packed Westside, desert. Broccoli moderate Salinas; fairly light Santa Maria; good quality. Planting fall crop started Huron District. Carrot fairly heavy Salinas; heavy Kern-Tulare; good quality. Harvest continued Westside. Cauliflower fairly light both Salinas, Santa Maria; good quality. Growers started planting fall crop Huron District. Celery moderate both Salinas-Watsonville, Santa Maria-Oceano, good quality. Sweet corn harvesting continued statewide, excellent availability of quality, varieties. Cucumber packing active Westside, south coast. Lettuce packing both Salinas, Santa Maria moderate, variable quality. Growers preparing to plant fall crop Westside. Watermelon, cantaloup harvests going strong, Merced-Atwater. Watermelon production light south coast; nearly over Kern-Tulare. Sacramento Valley honeydew melon packing continued, mixed melon picking started. Harvest going on cantaloups, honeydews, watermelons, Westside. Dry onion digging active desert, Kern-Tulare. Pepper picking light but increased Salinas, good quality. Summer potato digging continued, Hemet-San Jacinto. Rainfall, Tullake-Butte Valley, halted irrigation activity, caused growers to be concerned about fungus diseases, inability to spray, danger from frost. Tomatoes for processing, fresh market, full production statewide. Cannery tomato harvest underway, Merced-Atwater; completed Palo Verde Valley. Recent rains northern, mountain areas improved pastures, lowered fire danger. Lower elevations remained extremely dry, high fire danger. Supplemental feeding necessary some foothill, valley areas. Stockwater supplies adequate summer grazing districts, short most other areas. Livestock movement continued light.

COLORADO: Temperatures 4° below to 4° above normal. Hot, dry weather throughout State. Isolated thunderstorms; very little precipitation. Denver 0.42; none to 0.42 rest of State.

Days suitable for fieldwork 6.2. Soil moisture short. Small grains progressed well. Harvesting good progress under high temperatures, low humidity. Corn good. First cutting alfalfa complete, 2nd cutting 47% complete. Oats 23% harvested. Barley 25% harvested. Summer potato harvest underway. Livestock remained good; ranges undergoing seasonal decline.

FLORIDA: Strong downward motion in high pressure center statewide. Daytime temperatures 1 to 5° above normal. Heavy haze, localized air pollution alert resulted some areas. Suppressed rainfall most areas, especially late week.

Topsoil moisture generally adequate Panhandle, short some extreme upper Peninsula areas, mostly surplus lower Peninsula, variable remainder of Peninsula but mostly adequate. Haymaking, tobacco harvest very active. Corn, peanuts, soybeans good progress, however, fields in some localities needed rain. Sugarcane continued good. Pastures mostly good. Some upper Peninsula localities need rain. Cattle generally good to excellent. Citrus groves hot, some dry; much irrigation. Abundant new growth. Very good new crop fruit progress. Caretakers busy with normal activities. Tomato harvest, sales ended Quincy area. Limited northern, Panhandle vegetable harvests decreased. Heavy rain slowed fall vegetable land preparation, many southern areas; some northern, Panhandle growers preparing land, planting fall crops.

GEORGIA: Temperatures 3 to 5° above normal north, 1 to 3° above normal south. Maximums mid 90s or above 22nd through weekend; several stations 100°. Hottest 103° Waycross. Widely scattered thunderstorms most numerous 24th, weekend. Rain averaged 0.05 in. or less, few 1.00 to 2.00 in. Daily pan evaporation near 0.30 in.

Days suitable for fieldwork 6.4. Soil moisture 47% very short, 49% short, 4% adequate, lowest this year. Corn 81% dent, 84% 1986, 76% avg.; 25% mature, 66% 1986, 45% avg.; 1% harvested, 11% 1986, 6% avg. Cotton drought stress and insect pressure; 87% setting bolls, 68% 1986, 78% avg.; 2% bolls open, 3% 1986, 1% avg. Sorghum grain 10% poor, 42% fair, 48% good. Peanuts some drought stress; 1% poor, 21% fair, 78% good; 100% blooming, 96% 1986, 98% avg.; 91% pegging, 82% 1986, 93% avg. Soybeans severe drought stress, insect pressure. Tobacco 24% fair, 76% good; 39% harvested, 39% 1986, 46% avg. Watermelons 24% poor, 55% fair, 21% good; 91% harvested, 91% 1986, 82% avg. Apples concern over sizing due to drought; 27% fair, 73% good; 3% harvested, 19% 1986, 17% avg. Peaches 1% poor, 79% fair, 19% good, 1% excellent; 90% harvested, 95% 1986, 93% avg. Pecans 21% fair, 79% good. Pasture 1% very poor, 10% poor, 48% fair, 41% good. Hay 2% very poor, 6% poor, 50% fair, 42% good. Cattle 22% fair, 76% good, 2% excellent. Hogs 15% fair, 74% good, 11% excellent. Main activities: Coping with hot, dry conditions; irrigating where available; stress on livestock, poultry higher. Control measures on weeds, insects, diseases. Harvesting tobacco, fruit, vegetables. Corn harvest underway.

HAWAII: Weather hot, humid. Tropical disturbance caused heavy showers, flooding windward areas some islands. Temperatures above average, record high several days. Hot, dry conditions leeward farming areas. Irrigation moderate to heavy. Crops mostly fair to good. Light winds 5 to 15 mph. Temperatures ranged mid 70s to low 90s. Rainfall ranged none to 11.80 in.

Days suitable for fieldwork 7.0. Sugarcane harvesting active all islands. Pineapple harvesting peak seasonal period. Increased spraying for insect, disease control necessary vegetable, melon crops. Watermelon supplies continued heavy.

IDAHO: Temperatures 8° below normal. Showers over most of State through midweek. Warmer, clear late week.

Days suitable for fieldwork 5.0. Rains during week stalled fieldwork. Winter wheat 6% harvested, 26% 1986, 7% avg. Spring wheat 69% turning. Spring barley 62% turning. Harvest of small grains progressed slowly. Corn, sugarbeets, dry beans progressed well. Onions benefited by recent rains. Mint harvest began. Potatoes good, 4% turning. Second cutting alfalfa, 24% complete. Insects building, damage limited. Livestock good.

ILLINOIS: Temperatures averaged 1 to 3° above normal south, 5 to 9° above normal north. Precipitation generally under 0.50 in. Isolated northeastern areas 0.50 to 1.50 in.

Days suitable for fieldwork 6.8. Soil moisture 73% short, 27% adequate. Corn 15% dented, 8% 1986, 3% avg. Oats 95% harvested, 78% 1986, 58% avg. Alfalfa hay 2nd crop 93% cut, 72% 1986, 82% avg.; 3rd crop 30% cut, 8% 1986, 8% avg.; 16% poor, 37% fair, 42% good, 5% excellent. Pasture 11% very poor, 17% poor, 38% fair, 31% good, 3% excellent.

INDIANA: Temperatures 2 to 7° above normal. Lows mid 50s, highs mid 90s. Precipitation light, most areas little or no rain.

Days suitable for fieldwork 6.8. Topsoil moisture 57% short, 43% adequate. Subsoil moisture 27% short, 71% adequate, 2% surplus. Corn, soybeans showed signs of heat stress. Corn 11% fair, 55% good, 34% excellent. Soybeans 14% fair, 71% good, 15% excellent. Oats 90% combined, 72% 1986, 55% avg. Alfalfa 90% cut twice, 72% 1986, 80% avg. Pastures 12% poor, 50% fair, 37% good, 1% excellent.

IOWA: Hot, humid week. Subnormal precipitation, thundershowers northwest, northeast. Temperatures 7° above normal.

Days suitable for fieldwork 5.9. Topsoil moisture 28% short, 65% adequate, 7% surplus; subsoil moisture 18% short, 75% adequate, 7% surplus. Oats 1% very poor, 14% poor, 47% fair, 33% good, 5% excellent; 90% harvested, 81% 1986, 57% avg. Winter wheat 98% harvested, 94% 1986, 83% avg. Hay 1% very poor, 4% poor, 31% fair, 55% good, 9% excellent. Second crop alfalfa 85% harvested, 76% 1986, 72% avg. Second crop clover 56% harvested, 49% 1986, 43% avg. Corn milk stage 42%, 23% 1986, 9% avg. Livestock mostly good. Many reports of heat stress on cattle, especially confined hogs. Pastures 3% very poor, 10% poor, 31% fair, 46% good, 10% excellent.

KANSAS: Temperatures averaged 80° southwest, 85° elsewhere. Temperatures 3 to 6° above normal central and northern thirds, 1° below normal to 2° above normal southern third. Precipitation averaged less than 0.50 in. southwest, zero elsewhere.

Days suitable for fieldwork 6.5. Soil moisture 35% short, 65% adequate. No surplus moisture. Corn developed ahead normal. Corn borers laying eggs and hatching, growers watching closely. Sorghum progressed ahead normal. Checking fields for greenbugs, some treatments necessary. Soybeans developed ahead normal. Alfalfa 2nd cutting virtually complete, 3rd cutting about 30%. Range, pastures good to excellent.

KENTUCKY: Hot and dry. Average highs 90 to 95°, lows 65 to 70°, 5° warmer than normal. Rainfall almost non-existent. Rainfall averaged nearly 1.00 in. below normal.

Days suitable fieldwork 5.9. Soil moisture 14% very short, 60% short, 26% adequate. Extreme heat stressed crops, livestock. Corn rapidly developing. Double crop soybeans showed effects of heat, dry weather. Tobacco 1% poor, 39% fair, 57%

good, 3% excellent. Earliest tobacco cutting underway, expected starting date August 8. Pastures showed seasonal decline; 1% very poor, 9% poor, 41% fair, 44% good, 5% excellent.

LOUISIANA: Temperature normal to 2° below normal. Temperature extremes 62°; 98°. Rainfall averaged none to 3.10 in.

Days suitable for fieldwork 4.8. Soil moisture 20% short, 61% adequate, 19% surplus. Corn good; 95% dough stage, 100% 1986, 92% avg.; 30% mature, 52% 1986, 48% avg.; 2% harvested, 9% 1986, 8% avg. Cotton 98% squaring, 100% 1986, 96% avg.; 80% setting bolls, 92% 1986, 76% avg. Rice 54% headed, 80% 1986, 65% avg.; 6% ripe, 15% 1986, 12% avg.; 1% harvested, 8% 1986, 5% avg. Sorghum 80% headed, 97% 1986, 86% avg.; 23% turning color, 59% 1986, 43% avg.; 1% ripe, 9% 1986, 5% avg. Soybeans 99% planted, 100% 1986, 100% avg.; 97% emerged, 100% 1986, 99% avg.; 47% blooming, 63% 1986, 48% avg.; 22% setting pods, 34% 1986, 21% avg. Peaches 95% harvested, 100% 1986, 87% avg. Hay 1st cutting 97%, 100% 1986, 100% avg. Sweetpotatoes good; 1% harvested, 3% 1986, 3% avg. Sugarcane, pasture, livestock good; vegetables fair to good. Main activities: Harvesting hay, vegetables; insect, weed control.

MARYLAND & DELAWARE: **Maryland:** Temperatures averaged 82°, 76° normal; lowest temperature 49°; highest temperature 101°. Precipitation averaged 0.05 in.

Days suitable for fieldwork 7.0. Topsoil moisture very short to short. Subsoil moisture short. Corn fair. Corn 80% silked, 70% avg. Corn 35% dough, 25% avg. Soybeans fair to good. Soybeans 45% bloomed, 30% avg. Soybeans 10% set pods, 10% avg. Tobacco fair. Pasture fair. Wheat 98% harvested, 98% avg. Barley 100% harvested, 100% avg. Apples, peaches mostly good to excellent. Peaches 15% harvested. Sweet corn 50% harvested, 40% avg.

Delaware: Temperatures averaged 83°, 77° normal; lowest temperature 61°; highest temperature 101°. Precipitation averaged 0.26 in., most areas received none.

Days suitable for fieldwork 7.0. Topsoil moisture short. Subsoil moisture short. Soybeans fair. Soybeans 15% bloomed, 25% avg. Corn fair to good. Corn 90% silked, 75% avg. Corn 10% dough, 20% avg. Sweet corn 35% harvested, 40% avg.

MICHIGAN: Temperatures ranged 6 to 13° above normal. Temperature extremes 54°; 100°. Precipitation ranged from none to 1.60 in. across State.

Days suitable for fieldwork 6.5. Soil moisture 85% short, 15% adequate. Corn 85% silked, 55% 1986, 45% avg.; 10% in dough, 4% 1986, 1% avg.; 5% very poor, 15% poor, 25% fair, 40% good, 15% excellent. Soybeans 75% bloomed, 45% 1986, 45% avg.; 25% setting pods, 10% 1986, 5% avg.; 1% very poor, 9% poor, 25% fair, 50% good, 15% excellent. Wheat 95% harvested, 80% 1986, 60% avg. Dry edible beans 65% blooming, 40% 1986, 40% avg. Oats 40% harvested, 10% 1986, 3% avg. Major activities: Wheat, oats combining, hay making. Worst crop conditions northern Thumb. Fruits, vegetables developed ahead of normal. Irrigation active. Severe windstorm hit northwest area, damaged unharvested tart cherries. Majority of crop statewide harvested before storm.

MINNESOTA: Temperatures averaged 3 to 8° above normal. Temperature extremes 51°; 97°. Precipitation averaged 0.11 in. below normal northeast, 2.58 to 6.00 in. above normal southeast and east central, 0.29 to 0.96 in. above normal elsewhere. Greatest weekly total 15.12 in.

Days suitable for fieldwork 4.2. Topsoil moisture 3% very short, 18% short, 59% adequate, 20% surplus. Spring wheat 80% turning ripe, 52% 1986, 59% avg.; 22% cut, 3% 1986, 4% avg.; 7% combined, 2% 1986, 1% avg. Oats 98% turning ripe, 78% 1986, 79% avg.; 74% cut, 17% 1986, 18% avg.; 44% combined, 10% 1986, 9% avg. Barley 90% turning ripe, 63% 1986, 74% avg.; 41% cut, 8% 1986, 15% avg.; 15% combined, 2% 1986, 5% avg. Field corn 95% tasseling, 78% 1986, 60% avg.; 30% in milk, 4% 1986, 2% avg. Soybeans 88% blooming, 79% 1986, 67% avg.; 49% setting pods, 15% 1986, 8% avg. Field corn 1% very poor, 4% poor, 20% fair, 48% good, 27% excellent. Soybeans 1% very poor, 3% poor, 20% fair, 54% good, 22% excellent. Spring wheat 8% poor, 50% fair, 38% good, 4% excellent. Winter wheat 65% harvested, 20% 1986, 16% avg. Rye 72% harvested, 25% 1986, 16% avg.

MISSISSIPPI: Temperatures 2° below to 3° above; extremes 62°; 101°. Hot, humid most of week. Greatest weekly total rainfall 2.82 in. Greatest 24-hour total rainfall 1.72 in.

Days suitable for fieldwork 5.7, 6.2 1986, 5.3 avg. Soil moisture 8% very short, 50% short, 40% adequate, 2% surplus. Corn 99% silking, 97% 1986, 92% avg.; 79% dough stage, 78% 1986, 72% avg.; 49% dented, 46% 1986, 51% avg.; 15% mature, 19% 1986, 18% avg.; 2% poor, 11% fair, 72% good, 15% excellent. Hay 66% harvested, 64% 1986, 63% avg. Sorghum silage 12% harvested, 21% 1986, 22% avg. Watermelons 66% harvested, 60% 1986, 55% avg. Corn silage 25% harvested, 33% 1986, 22% avg. Peaches 97% harvested, 85% 1986, 75% avg. Rice 35% headed, 68% 1986, 34% avg.; 19% fair, 77% good, 4% excellent. Sorghum 75% headed, 73% 1986, 59% avg.; 33% coloring, 30% 1986, 30% avg.; 2% very poor, 3% poor, 27% fair, 67% good, 1% excellent. Cotton 100% set bolls, 93% 1986, 65% avg.; 3% poor, 13% fair, 78% good, 6% excellent. Soybeans 40% blooming, 33% 1986, 42% avg.; 16% set pod, 17% 1986, 12% avg.; 1% very poor, 2% poor, 52% fair, 42% good, 3% excellent.

MISSOURI: Temperatures averaged 5° above normal north, 1 to 3° above normal south, central sections. Precipitation none north, 0.50 in. or less south.

Days suitable for fieldwork 6.3. Topsoil moisture 42% short, 57% adequate, 1% surplus. Corn 22% dent stage, 18% 1986, 10% avg. Alfalfa hay 3rd cutting 48%, 45% 1986, 25% avg. Other hay 93% harvested, 90% 1986, 89% avg. Pasture 10% poor, 54% fair, 34% good, 2% excellent.

MONTANA: Temperatures 3 to 4° below normal all locations. Warming last 2 days. Rainfall above normal most of State, amounts 1.00 to 2.00 in. west.

Days suitable for fieldwork 2.2. Topsoil moisture 6% short, 80% adequate, 14% surplus. Subsoil moisture 22% short, 76% adequate, 2% surplus. Barley 4% poor, 22% fair, 58% good, 16% excellent. Barley 10% ripe or beyond, 7% 1986, 11% avg.; 1% harvested, 2% 1986, 1% avg. Oats 10% ripe, 6% 1986, 9% avg. Second cutting alfalfa 21% harvested, 14% 1986, 12% avg. Wild hay 69% harvested, 72% 1986, 71% avg. Grasshopper infestation 1% none, 30% light, 49% moderate, 20% heavy.

NEBRASKA: Hot, dry weather across State. Isolated thunderstorms midweek. Precipitation varied up to 1.00 in. northeast. Temperatures ranged 4 to 7° above normal. Extremes 56°; 104°.

Days suitable for fieldwork 6.9. Topsoil moisture 71% short, 29% adequate, 2% surplus. Subsoil moisture 29% short, 69% adequate, 2% surplus. Winter wheat 100% ripe, 99% 1986, 97% avg. Harvest neared completion. Russian wheat aphids reduced yields in un-sprayed western fields with light to significant

infestations. Oats 85% harvested, 83% 1986, 67% avg. Row crops experienced some heat stress along with minor insect problems. Alfalfa hay mostly good to fair. Second cutting 94%, 89% 1986, 75% avg. Third cutting 8%, none 1986, none avg. Pasture, range supplies adequate. Livestock gains slowed by heat, increased fly numbers.

NEVADA: Cool, low pressure system dominated weather pattern first half of week slowly gave way to high pressure, temperatures rebounded toward normal values. Several record morning lows across northern portions. Statewide temperatures 5 to 15° below normal. Precipitation spotty, light. Central, eastern sections some heavy amounts, Ely 1.23 in., Wendover 1.01 in., brisk winds through midweek.

Weather favorable for haying, small grain harvest. Potato condition, growth generally good. Ranges, pastures slowly deteriorating.

NEW ENGLAND: Precipitation averaged 1.00 to 1.50 in. northern Maine, New Hampshire, Vermont, 0.50 in. and less remainder. Temperatures averaged 65 to 70° Maine, northern New Hampshire and Vermont, 70 to 75° Massachusetts, southern Vermont and New Hampshire, 75 to 80° Rhode Island, Connecticut.

Days suitable for fieldwork 6.5. Soil moisture 24% very short, 41% short, 29% adequate, 6% surplus. Grazing availability 8% very short, 31% short, 54% adequate, 8% surplus. Fieldwork 1 day ahead. Maine potatoes excellent. Elsewhere potatoes good. Field corn excellent north, good south. Sweet corn harvest began south; excellent north, good south. First crop hay 94% harvested, 94% 1986, 94% avg. Second crop hay 49% cut, 30% 1986, 31% avg. Shade tobacco harvest began. Early apples being harvested. Major farm activities: Harvesting vegetables, haying, cultivating, picking raspberries, blueberries, applying herbicides, fungicides.

NEW JERSEY: Temperatures averaged below normal. Extremes 45°; 95°. Rainfall averaged 1.97 in. north, 1.72 in. central, 0.99 in. south. Heaviest 24-hour total 2.80 in. on 14th, 15th. Estimated soil moisture percent field capacity averaged 88% north, 81% central, 66% south. Four inch soil temperatures averaged 73° north, 75° central, south.

Heavy thunderstorms caused localized flooding, hail, wind damage to crops. Cooler temperatures, lower humidity beneficial. Summer vegetables good supply. Irish potato harvest very light. Blueberry harvest past peak. Clingstone peach picking continued active. Early summer cooking apple harvest began. Wheat, oat combining delayed again by weather. Early field corn in tassel. Some soybean fields poor. Pasture growth responded to showers.

NEW MEXICO: Temperatures over State near to slightly below normal. Low temperature 32°, high temperature 100°. Showers, thundershowers over most of State during week.

Days suitable for fieldwork 6.9. Soil moisture 67% short, 33% adequate. Alfalfa 29% fair, 71% good. Cotton 29% fair, 71% good. Corn 17% fair, 83% good. Irrigated grain sorghum 33% fair, 67% good. Dryland sorghum 80% fair, 20% good; some areas started to show stress from lack of precipitation. Onions continued good; harvest still in progress. Pecans 67% fair, 33% good. Cattle 22% fair, 78% good. Sheep 100% good. Ranges 22% poor, 34% fair, 33% good, 11% excellent; some localities need rain soon to make winter feed. Tank water supplies short.

NEW YORK: Temperatures averaged much above normal for entire week, uncomfortably high humidities. Recorded high 96°, lows in lower 60s. Rainfall

from scattered thundershowers light most areas, 0.10 to 0.50 in. Few areas Catskills, Adirondacks 1.50 to 1.75 in. Most rain late week.

Days suitable for fieldwork 6.5. Soil moisture adequate. Pastures fair to good. Corn good to excellent. Wheat 60% harvested, 19% avg. Yields fair to good. Oats 5% harvested, 1 to 2 weeks ahead of normal. Second cutting alfalfa 35% complete, 19% avg. Clo-tim harvest 91% complete, 85% 1986. Dry beans making good growth. Early summer apple harvest began. Tart cherry harvest neared completion.

NORTH CAROLINA: Temperatures averaged normal to 6° above normal. Temperature extremes 54°; 103°. Precipitation ranged from none to 1.27 in. across State. Storms scattered.

Days suitable for fieldwork 6.4. Soil moisture 49% very short, 42% short, 9% adequate. Irish potatoes 14% poor, 48% fair, 38% good. Irish potatoes 91% harvested, 96% 1986, 92% avg. Pasture 3% very poor, 35% poor, 41% fair, 21% good. Tobacco 10% poor, 52% fair, 37% good, 1% excellent. Peanuts 13% poor, 39% fair, 45% good, 3% excellent. Hay 23% poor, 46% fair, 30% good, 1% excellent. Sweetpotatoes 15% poor, 50% fair, 35% good. Fruit crops fair to mostly good. Truck crops good to mostly fair. Peaches 59% harvested, 75% 1986, 74% avg. Major farm activities: Tobacco related topping, spraying for sucker control, irrigation, harvesting; cutting, baling hay; cultivating tobacco, soybeans, corn, peanuts, cotton; herbicide applications; harvesting Irish potatoes, hay, vegetables, peaches; shearing Christmas trees; tending livestock; general farm maintenance.

NORTH DAKOTA: Heavy rains, thunderstorms statewide. Precipitation ranged from 1.00 to 7.01 in. Temperatures normal to above normal, cool early warming later. Extremes 49° southwest; 95° southeast.

Days suitable for fieldwork 4.2. Topsoil moisture well above normal; 12% short, 78% adequate, 10% surplus. Subsoil moisture above normal; 13% short, 81% adequate, 6% surplus. Small grain crops well ahead of 1986 and average. Spring wheat 54% turning to ripe and beyond, 28% 1986, 30% avg.; durum 38%, 16% 1986, 17% avg.; oats 64%, 40% 1986, 40% avg.; barley 78%, 48% 1986, 55% avg.; winter wheat 70% swathed or combined, 39% 1986, 32% avg. Row crops ahead of normal development. Potatoes 96% bloom or beyond, 81% 1986, 70% avg.; flax 77%, 77% 1986, 74% avg.; dry beans 69%, 77% 1986, 60% avg.; soybeans 87%, 83% 1986, 68% avg.; sunflower 17%, 12% 1986, 6% avg.; corn tasseling-silking and beyond 75%, 65% 1986, 46% avg. Pastures fair to good. Second cutting alfalfa 37% complete, 1st cutting other hay 90% complete.

OHIO: Temperatures 4 to 8° above normal; ranged from middle 50s to middle 90s. Precipitation ranged from trace to 1.00 in.

Days suitable for fieldwork 6.9. Soil moisture 37% short, 62% adequate, 1% surplus. Corn good to excellent; stress starting to show from heat, lack of precipitation. Soybeans good, but signs of heat stress began to show. Winter wheat harvest virtually complete. Grasslands good; still more damage to alfalfa by potato leafhoppers. Tobacco fair to good, some aphids, some stands topped. Vegetables harvest included processing cucumbers, staked tomatoes, cabbage.

OKLAHOMA: Temperatures averaged 1° above normal northeast to 3° below normal southeast. Most areas no significant rain. East central district 0.75 in. above normal with 1.45 in. precipitation.

Days suitable for fieldwork 6.3. Topsoil moisture 15% short, 80% adequate, 5% surplus. Subsoil moisture 8% short, 92% adequate. Wheat 100% harvested, 100% 1986, 100% avg. Stubble 90%

tilled. Sorghum 10% fair, 87% good, 3% excellent; 40% heading, 30% 1986, 25% avg. Cotton 10% poor, 30% fair, 45% good, 15% excellent; 70% squaring, 65% 1986, 50% avg.; 20% setting bolls, 20% 1986, 10% avg. Hot, dry weather dwindled topsoil moisture. Pastures, cattle good to excellent; prices below last weeks level.

OREGON: Temperatures near normal northwest, coast. Other areas ranged up to 11° below normal. All areas received at least trace amounts of precipitation. Southwest received 1.00 to 1.75 in.; central area up to 2.60 in.; northeast up to 1.50 in.; other areas mostly less than 0.40 in.

Soil moisture 41% short, 47% adequate, 12% surplus. Barley 58% harvested, 48% 1986, 50% avg. Rain interrupted grass seed, grain harvest statewide. Showers caused some seed loss in western grass fields; shattering, lodging in eastern grain fields. Grass seed, grain harvest continued weather permit. Rain helped red clover, new grass seedings mid-Willamette Valley. Some severe hail damage to crops Wasco County. Field corn showed good growth Jackson County. Mint, garlic harvest near Jefferson County. Rains damaged alfalfa fields, delayed harvest, east of Cascades. Late cherries for freezing picked Hood River Valley. Peaches picked Willamette Valley, Medford area, Hood River, Milton-Freewater. Early Italian prune harvest neared completion Willamette Valley. Evergreen blackberry harvest started. Blueberry harvest continued, yields very good. Cranberry fruit development mostly good south coast. Filbert orchards good west. Potato harvest underway Hermiston-Boardman area. Onion harvest started Malheur County; crop sizing well Jackson County. Green pea harvest winding down west. Broccoli, snap bean, squash harvests continued; cooler weather improved quality. Sweet corn harvest continued Medford area. Melons harvested Hermiston. Livestock mostly good statewide. Range, pasture fair to good. Rains improved condition, lowered fire damage. Stockwater short southeast ranges.

PENNSYLVANIA: Hottest weather of season occurred. Dry condition first 4 days. Showers, thunderstorms by weekend brought cooler temperatures. Average temperature 80°, 9° above normal. Temperature extremes 53°, 98°. Average precipitation 0.27 in., 0.59 in. below normal.

Days suitable for fieldwork 6.0. Soil moisture 58% short, 42% adequate. Corn 61% silked, 44% 1986, 37% avg. Corn 5% poor, 13% fair, 37% good, 45% excellent. Average corn height 69 in., 63 in. 1986, 58 in. avg. Soybeans 5% poor, 26% fair, 42% good, 27% excellent. Barley 6% turning yellow, none 1986; 7% ripe, 12% 1986; 87% harvested, 88% 1986. Wheat 9% turning yellow, 2% 1986; 21% ripe, 30% 1986; 70% harvested, 68% 1986. Wheat 1% poor, 17% fair, 52% good, 30% excellent. Oats 7% heading or headed, 9% 1986; 27% turning yellow, 30% 1986; 34% ripe, 40% 1986; 32% harvested, 21% 1986. Oats 1% poor, 14% fair, 43% good, 42% excellent. Second cutting alfalfa 61% complete, 70% 1986. First cutting clover-timothy 97% complete, 100% 1986. Hay stands mostly good to fair. Feed from pastures average to below average. Activities: Harvesting small grains, hay, haylage, fruit, vegetables; spraying corn, soybeans; machinery maintenance; caring for livestock.

PUERTO RICO: NO DATA AVAILABLE.

SOUTH CAROLINA: Temperatures 100° or higher several days. No rainfall most locations.

Days suitable for fieldwork 6.1. Soil moisture 44% very short, 50% short, 6% adequate. Cotton 98% squaring, 98% 1986, 96% avg.; 74% setting bolls, 86% 1986, 89% avg.; 13% poor, 73% fair, 14% good. Crop shedding fruit due to heat, dry stress.

Soybeans 22% blooming, 21% 1986, 21% avg.; 8% setting pods, 7% 1986, 5% avg.; 14% poor, 66% fair, 20% good; dry weather stress evident. Corn fair to good; 81% dough stage, 86% 1986, 80% avg.; 27% mature, 47% 1986, 30% avg. Tobacco good; 20% harvested, 25% 1986, 32% avg. Peanuts fair to good. Pastures deteriorated to fair.

SOUTH DAKOTA: Average temperatures normal to 7° below normal. Extremes 47°, 106°. Black Hills low 40°.

Days suitable for fieldwork 5.2. Topsoil moisture mostly short; 9% critically short, 42% short; 45% adequate, 4% surplus. Some hail damage from storms past week. Crop progress ahead of normal.

TENNESSEE: Locally heavy showers west; little to none middle, east. Temperatures above normal. Extremes 61°, 100°.

Days suitable for fieldwork 6.0. Soil moisture 14% very short, 62% short, 24% adequate. Corn 92% tasseling, 90% 1986, 80% avg. Corn 55% dough, 50% 1986, 35% avg. Corn 25% dent, 20% 1986, 11% avg. Corn 2% poor, 26% fair, 51% good, 21% excellent. Tobacco 23% topped, 20% 1986. Tobacco 36% fair, 62% good, 2% excellent. Alfalfa 2nd cutting 98%, 100% 1986, 99% avg. Hay 1% very poor, 5% poor, 35% fair, 55% good, 4% excellent. Cattle mostly good. Pastures mostly fair. Tobacco topping, weed control, haying main activities.

TEXAS: Warm, humid weather persisted across State. Strong upper level high pressure combined with moist, southeasterly winds produce more warm weather, scattered thunderstorm activity east, southeast. Temperatures averaged below normal all areas. Rainfall below normal Plains, north central, east, far west. South, Rio Grande Valley above normal.

Crops: Corn harvest expanded Coastal Bend, south. Scattered showers, high humidity limited progress. Early yields excellent. High Plains irrigation continued. Much corn roasting ear stage. Corn 60% dented, 64% 1986, 61% avg.; 17% mature, 56% 1986, 41% avg.; 2% harvested, 16% 1986, 8% avg. Grain sorghum harvest expanded southern Blacklands, excellent yields. Progress limited by scattered showers, high moisture grain. Continued dry weather, harvest rapidly expand next 2 weeks. Crop later than usual Plains, looking very good. Sorghum 50% turning color, 59% 1986, 58% avg.; 25% mature, 54% 1986, 43% avg.; 11% harvested, 36% 1986, 31% avg. Cotton continued excellent progress. Plains cotton squaring, blooming. Crop later than normal, good progress. Insects problem, spraying necessary. Rio Grande Valley, bolls opening, defoliation expanded. Blacklands, fruit set continued. Cotton 4% open bolls, 7% 1986, 5% avg. Rice harvest underway with 1st fields cut. Crop later than normal, many fields just began to turn color. Water being drained from more advanced fields. Rice 42% turning color, 71% 1986, 58% avg.; none harvested, 9% 1986, 8% avg. Soybeans making excellent growth. Crop benefited from warm, humid weather. Peanuts excellent growth. Blooming, pegging started. Fields missed by showers need rain. Other crops planted: Peanuts 100%, 100% 1986, 100% avg. Other crops harvested: Oats 100%, 96% 1986, 99% avg.

Commercial Vegetables: Rio Grande Valley land preparation fall planting continued. Bell peppers planted, up to good stands. San Antonio-Winter Garden watermelon harvest continued. Some tomato transplants put in fields. Harvest onions, potatoes High Plains continued. Some potato rot problems occurred. Some cucumbers available. Trans-Pecos cantaloup harvest started. Onion harvest nearly complete El Paso. Tomatoes doing well. East supplies greens, beets, turnips,

squash, tomatoes, okra available. Some vegetables about finished. Harvest watermelons active. Pecans continued to size well with good crop set most areas. Some droppage occurred. Spraying continued some areas.

Range and Pasture: Forage growth ranges, pastures plentiful; some browning started. Scattered showers helped, more moisture needed soon. Livestock remained good, minor insect problems. Cutting, baling hay continued with 2nd cuttings underway some areas.

UTAH: Precipitation heavy to very heavy, light southeast. Scattered hail. Temperatures 4 to 10° below normal.

Days suitable for fieldwork 5.5. Soil moisture 41% short, 59% adequate. Winter wheat 93% ripe, 88% 1986, 70% avg.; 58% harvested, 28% 1986, 18% avg. Barley 73% ripe, 70% 1986, 36% avg.; 29% harvested, 25% 1986, 14% avg. Spring wheat 79% ripe, 52% 1986, 22% avg.; 10% harvested, 9% 1986, 3% avg. Oats 61% turning color, 55% 1986, 47% avg.; 37% ripe, 14% 1986, 9% avg. Corn 64 in. high, 56 in. 1986, 50 in. avg. Alfalfa 2nd cutting 73% complete, 53% 1986, 32% avg. Range feed 67% fair, 33% good. Grasshopper damage light. Hail damage tart cherries, apricots, apples Utah County. Major farm activities: Haying, grain harvest, fruit harvest, livestock care.

VIRGINIA: Very hot, dry. Temperature reached 103°, mid to high 90s most days. Most areas no rain, maximum amount 0.49 in. one location.

Days suitable for fieldwork 6.3. Topsoil moisture 98% short, 2% adequate. Soil moisture, crop condition declined sharply under intense heat, little rain. Thunderstorms in small areas of some counties maintained good conditions, but statewide conditions declined to fair. Corn fair, late planted worst condition. Corn 68% in or beyond silk stage, 74% 1986, 76% avg.; 30% in or beyond dough stage, 34% 1986, 36% avg. Soybeans fair to good, 20% in or beyond bloom stage, 34% 1986, 26% avg.; 5% set pods, 8% 1986, 7% avg. Peanuts good. Tobacco good, some excellent. Cultivated burley. Irrigated, topped, controlled suckers flue-cured tobacco. Flue-cured harvest just began, 2% 1986, 6% avg. Apples, peaches good to excellent. Pastures fair, some poor. Some areas feeding hay. Second cutting hay active, yields reduced. Potatoes 90% harvested, 93% 1986, 80% avg. Livestock good to excellent.

WASHINGTON: Scattered showers, cool temperatures prevailed. Lows in 40s, highs upper 80s. Precipitation above normal. Gusty winds, east central area.

Days suitable for fieldwork 5.4. Soil moisture 40% short, 60% adequate. Winter wheat 26% harvested, 22% 1986, 18% avg. Spring wheat harvest started Grant, Yakima Counties. Barley harvest 21% finished. Dryland, irrigated barley both being harvested. Grain yields vary poor to good; most areas reported good. Rapeseed harvest continued, eastern area; yields, test weights good. Early

potato harvest began Yakima County. Second cutting alfalfa continued. Peach, nectarine harvest continued ahead of normal. Pear growers prepared for harvest. Apricots ripe Spokane County. Raspberry harvest nearly completed Pierce, King Counties. Blackberry, blueberry harvest continued western area. Leafy, summer vegetable harvest continued, some cannery corn showed moisture stress. First cutting of mint completed, Adams County. Range, pasture 40% short, 60% adequate. Hay, other roughage feed supply 70% adequate, 30% short. Dairymen prepared milk cows for slaughter. Cows, yearling cattle in good flesh.

WEST VIRGINIA: Average temperature 78°, 6 to 10° above normal. Extremes 52° Weston, Greenbank; 101° Creston. Precipitation averaged 0.23 in., well below normal.

Days suitable for fieldwork 5.8. Soil moisture 63% very short, 33% short, 4% adequate. Feed supplies adequate. Farm activities: Harvesting hay, clipping pastures, combining grain, farm maintenance, gardening. Wheat, barley, oats, corn fair to good. Apples good to fair. Peaches poor to good, harvest continued. First cut hay 95% complete, equal to 1986. Second cut hay 35% complete, 30% 1986. Tobacco fair to poor. Gardens fair to good.

WISCONSIN: Temperatures averaged 79°, 7° above normal. Extremes 50°; 100°. Rainfall 0.90 to 1.50 in. Hot, humid week.

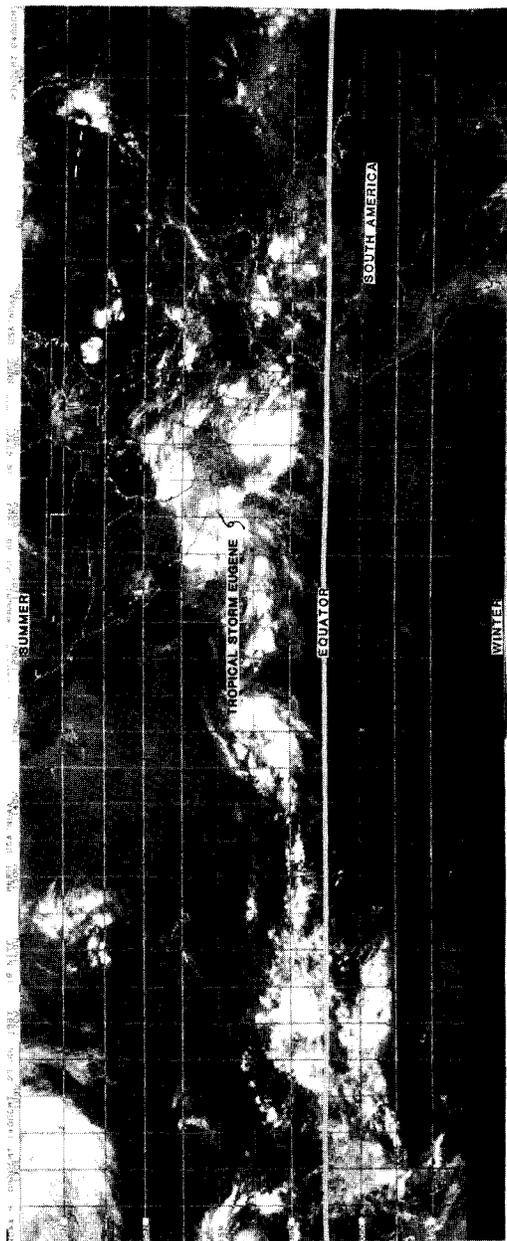
Days suitable for fieldwork 5.0. Soil moisture 53% short, 46% adequate, 1% surplus. Crops 3% very poor, 4% poor, 38% fair, 53% good, 2% excellent. Corn better; average height 75 in., 71 in. 1986, 61 in. avg. Corn in silk 72%, 47% 1986, 31% avg. Oats 28% harvested, 13% 1986, 9% avg. Light bushel weights. Winter wheat 66% harvested, 33% 1986, average unavailable. Yields lower than average. Second crop hay 56% cut, 48% 1986, 43% avg. Yields low. Rain aided 3rd crop prospects. Soybeans good. Sweet corn some ears uneven due to heat, dry weather. Potatoes good. Pickle harvest started.

WYOMING: Temperatures above normal most areas. Rainfall below normal eastern, central area.

Days suitable for fieldwork 6.0. Topsoil moisture 64% short, 36% adequate. Winter wheat 5% turning color, 10% 1986; 65% mature, 45% 1986; 30% harvested, 45% 1986, 25% avg. Barley 10% headed, 25% 1986; 45% turning color, 35% 1986; 40% mature, 35% 1986; 5% harvested, 5% 1986, 5% avg. Spring wheat 5% headed, 30% 1986; 55% turning color, 30% 1986; 40% mature, 30% 1986; small amount harvested, 10% 1986, 5% avg. Oats 35% headed, 45% 1986; 45% turning color, 30% 1986, 35% avg.; 20% mature, 20% 1986, 15% avg.; small amount harvested, 5% 1986. Dry beans 65% bloom, 60% 1986, 65% avg. Potatoes 70% bloom, 65% 1986, 70% avg. Corn 35% tasseled, 40% 1986, 35% avg.; 5% silked, 15% 1986. Alfalfa hay 1st cutting 95% complete, 95% 1986, 90% avg.; 2nd cutting 15% complete, 10% 1986, 10% avg. Other hay 70% harvested, 60% 1986, 50% avg. Livestock mostly good. Range, pastures fair to good. Stockwater adequate most areas. Fall, winter grazing prospects fair to good.

Global Weather Satellite Image

July 23, 1987



International Weather and Crop Summary

July 19-25, 1987

HIGHLIGHTS:

UNITED STATES ... Heat and inadequate moisture stress crops in the central Great Plains, Corn Belt, and Southeast. Crops drop fruit in some Southeast States. Despite the dryness, crops remain mostly good in the central Great Plains and Corn Belt.

U.S.S.R. ... Weather conditions are mostly favorable for crops, except for those in the southern Ukraine and parts of central Kazakhstan, where soil moisture is limited.

EUROPE ... Hot, dry weather stresses summer crops in or nearing reproduction in southeastern Europe. Cool, wet weather in the west and north maintains adequate moisture levels but slows crop growth.

SOUTH ASIA ... Monsoon showers benefit jointing to heading rice in eastern India, but hot, dry weather persists in southern India's summer crop regions.

SOUTHEAST ASIA ... Showers bring some relief to filling Thai corn, but temperatures continue above normal, increasing moisture demands.

EASTERN ASIA ... Dry weather covers flowering cotton in the North China Plain. Moderate to heavy rain benefits rice. Showers continue over crop areas in the Manchurian Valley.

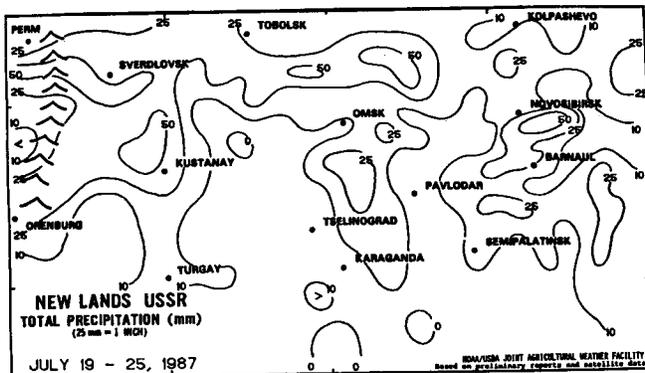
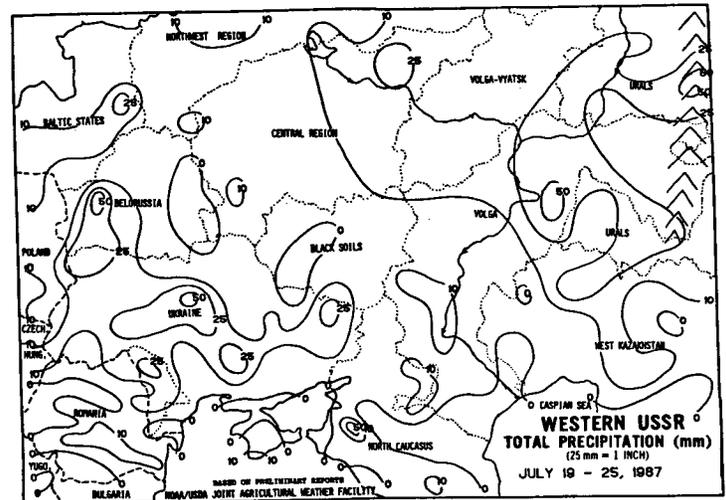
CANADA ... Showers and mild weather improve growing conditions for filling grains and oilseeds.

SOUTH AMERICA ... Beneficial showers in Argentina favor wheat planting and early growth. In Brazil, showers continue in the south; mild, dry weather promotes wheat development and coffee harvesting further north.

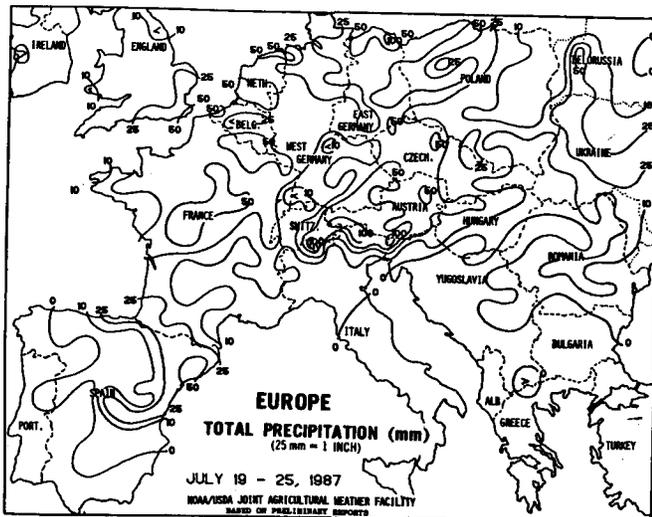
AUSTRALIA ... Light rain maintains adequate moisture levels for vegetative wheat in most grain areas.

MEXICO ... Widespread rain covers most of the country.

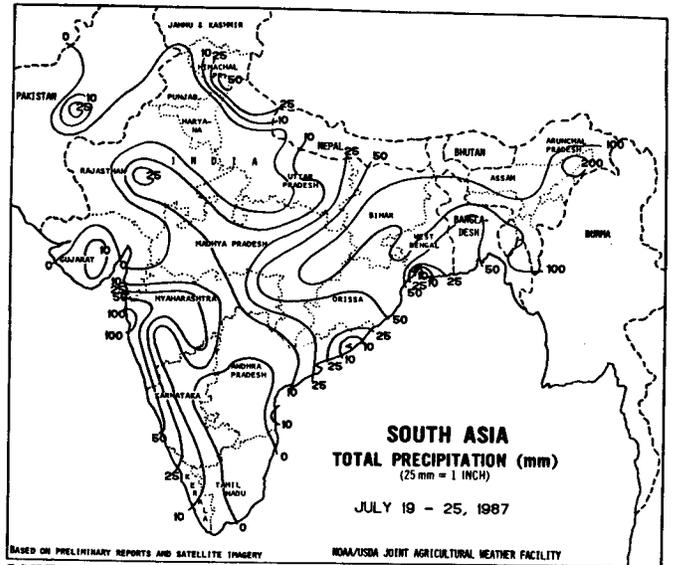
U.S.S.R. ... In Western U.S.S.R., winter grain harvesting progressed northward, spring grains were maturing in the south, and corn entered the reproductive phase. Showers and thunderstorms produced variable amounts of precipitation over central areas of the Ukraine. The rain benefited corn, sugarbeets, and sunflowers and caused minor delays in winter grain harvesting. The fifth consecutive week of below-normal precipitation covered corn areas in the southern Ukraine, where soil moisture is becoming limited. Showers continued to benefit spring grains in the Volga Vyatsk, upper Volga, and western Urals. Weekly average temperatures were near to below normal in most areas, except in the southern Ukraine, where temperatures were 3 degrees C above normal.



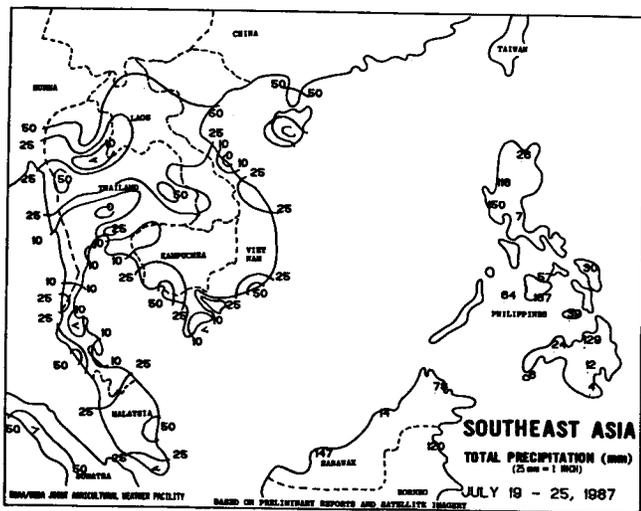
In the New Lands, spring grains were mostly in the reproductive and filling stages. Shower activity increased during the week, producing variable amounts of rain. Abundant rains (20-69mm) covered western Kazakhstan and crop areas surrounding the Ural mountains. Widespread showers (10-33mm) and mild weather over Western Siberia benefited spring grains advancing through reproduction. Below-normal precipitation continued to cover spring grains in central Kazakhstan, and soil moisture is becoming limited for crops in the grain filling stage. Weekly average temperatures were near normal in the west and above normal in the east.



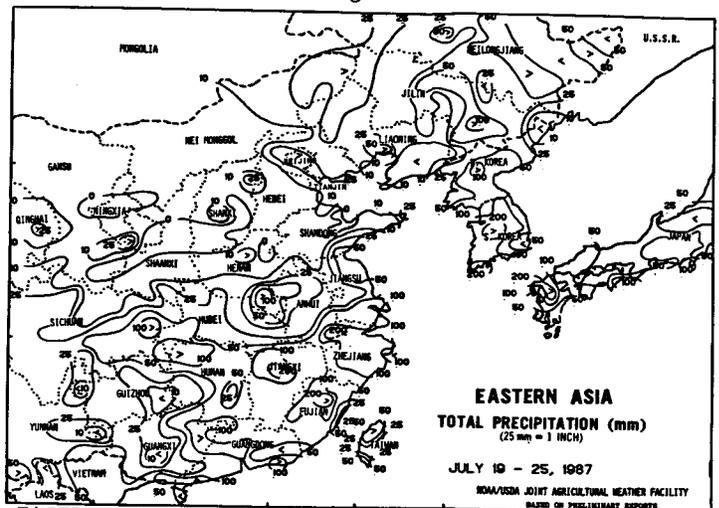
EUROPE ... Hot, dry weather stressed summer crops in or nearing the reproductive stage of development in southeastern Europe from Hungary and Yugoslavia southward and further reduced moisture levels. The dryness, however, favored maturing winter wheat in the southeast, Italy, and parts of southern France. By week's end, rain (10-24mm) brought relief to some areas of Hungary and Romania. Scattered showers (10-77mm) swept through western, central, and northern Europe, benefiting reproductive French corn and maintaining moisture levels for filling wheat. Temperatures were below normal, however, slowing crop development.



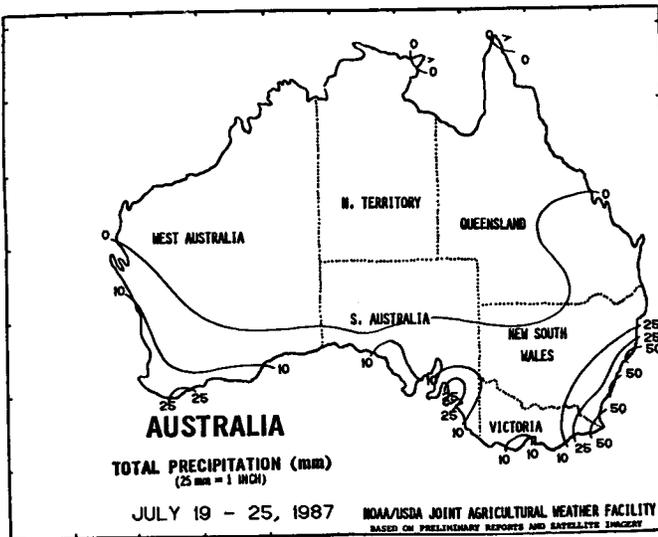
SOUTH ASIA ... Hot, dry weather continued in summer crop areas throughout southern India, further reducing moisture reserves and stressing vegetative groundnuts, cotton, and rice. Pockets of moderate rain (25-40mm), however, relieved summer crops in western Maharashtra, and lighter rain (10-19mm) helped prepare fields for late planting in Gujarat. Moderate to heavy monsoon showers (25 to more than 100mm) continued in the east from eastern Madhya Pradesh and eastern Uttar Pradesh through Bangladesh to the eastern states, improving conditions for jointing to heading rice but possibly causing localized flooding. Mostly dry, warm weather continued in northern India and northern Pakistan, where cotton is normally flowering to boll forming.



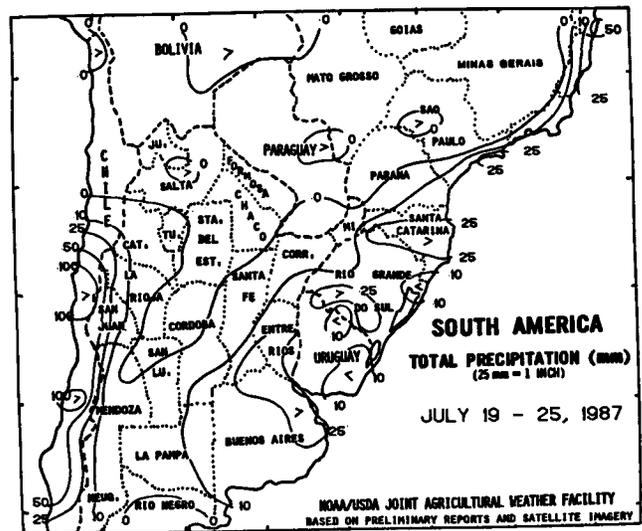
SOUTHEAST ASIA ... Light to moderate showers (10-67mm) brought relief to the northern half of Thailand's major corn regions. Light rain (less than 10mm) continued to the south and over part of the northern hills region, where moisture continues to be limited for filling corn. Temperatures in all crop areas reached 35 degrees C, increasing the moisture demand of reproductive to filling corn and rice. Light to moderate showers fell elsewhere in Indochina. Tropical showers (25-147mm) covered Malaysia, but dry pockets persisted in southern Indonesia. In the Philippines, the passing of Tropical Storm Vernon and Typhoon Alex generated scattered showers throughout the islands, possibly flooding parts of western Luzon. Light rain (less than 10mm), however, persisted in southern Mindanao.



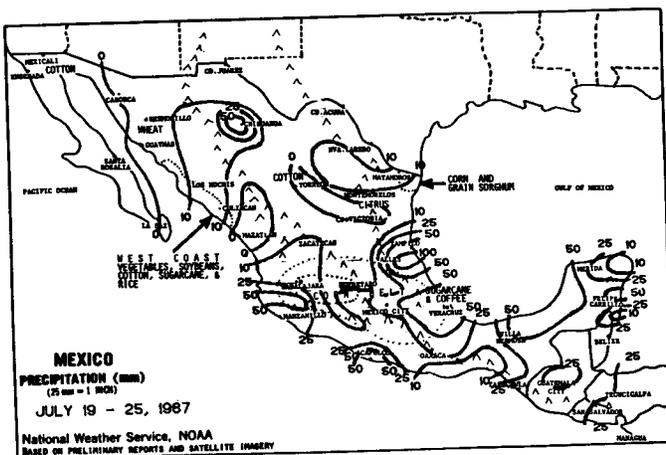
EASTERN ASIA ... The second consecutive week of dry weather covered crop areas in Shandong, Hebei, and northern Henan. Rain is needed in these areas for cotton, corn, and soybeans in the reproductive phase. Following 2 weeks of minimal rain, moderate to heavy precipitation benefited rice in Zhejiang, Jiangxi, and Hunan. Above-normal precipitation covered rice in Fujian, Guangdong, and eastern Guangxi. Rainfall amounts in these areas ranged from 50-100mm, with isolated areas receiving rainfall in excess of 200mm. Inundating rain (100-200mm) continued to cause widespread flooding over the western two-thirds of South Korea. In the Manchurian Valley, widespread showers (21-56mm) benefited summer crops in the reproductive phase.



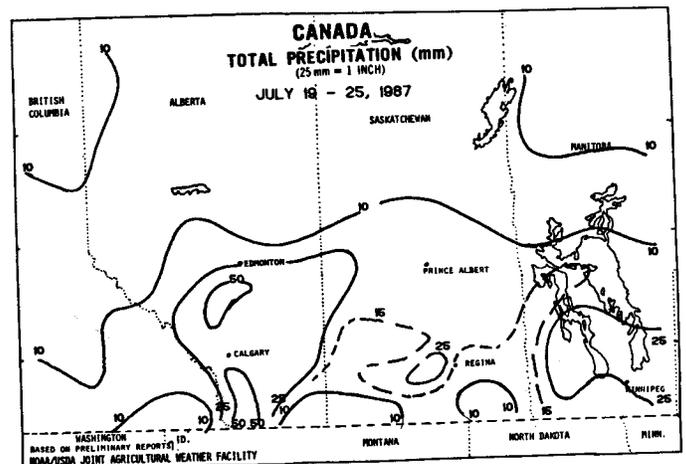
AUSTRALIA ... Mostly light rain (less than 10mm) covered Australia's winter grain regions, with heavier rain (10-42mm) falling in some south coastal areas. Moisture is adequate in Western Australia and southern New South Wales and continued adequate to abundant for normal vegetative growth of wheat in South Australia and Victoria. Moisture continued too low in northern New South Wales and southern Queensland for normal crop development. Temperatures, however, averaged 8-14 degrees C throughout the major grain areas, maintaining a seasonably slow growth pace. Dry weather covered sugarcane regions of Queensland.



SOUTH AMERICA ... In Argentina, substantial showers covered the wheat areas of Buenos Aires, eastern La Pampa, southern Córdoba, and southern Santa Fe. Weekly rainfall generally averaged 10-35mm, but amounts diminished in northern wheat areas of Córdoba and Santa Fe. Wheat planting has advanced to about 60 percent completion. Planting and early growth conditions have improved following the recent beneficial rains. In Brazil, showers covered Rio Grande do Sul and Santa Catarina again with weekly rainfall averaging 5-34mm in the southern states. Mostly dry, mild weather continued from Paraná northward into the coffee areas of Minas Gerais, promoting wheat development and coffee harvesting.



MEXICO ... Some rain fell over nearly all of the country as tropical storm activity increased over the region. In the Southern Plateau corn belt, locally heavy showers (35-90mm) in both eastern and western extremes, and light to moderate showers (4-35mm) in the center favored corn development. Rain fell along the west coast farming region as a tropical storm brushed the west coast before dissipating into the general circulation pattern over northern Mexico. Consequently, substantial showers (20-60mm) covered the northwestern mountains. Locally heavy rain (50-127mm) also fell along the east coast, near Tampico and along the southeast coast to the Yucatan.



CANADA ... Widespread showers and mild weather covered the Prairie grain belt. Weekly rainfall generally averaged 10-45mm throughout the crop areas of Manitoba, Saskatchewan, and Alberta. Lighter rain (less than 10mm) fell in Alberta's far north and extreme southeast and some scattered areas of extreme southern Saskatchewan. The recent moisture and favorable temperatures improved growing conditions for grain filling cereals and podding oilseeds. Early-seeded crops are beginning to reach the maturation stage, when dry, warm weather favors ripening.

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(continued from p. 11)

Grande Valley. Broccoli, snapbeans, cauliflower, carrots, lettuce, sweet corn, celery, and other mixed vegetables were harvested in Arizona and California.

PASTURES AND LIVESTOCK: Pastures declined in the Corn Belt, central and southern Great Plains, and Southeast. Farmers began feeding hay to cattle in some States because of slow forage growth. Livestock was mostly good. Heat caused stress, especially with livestock confined to pens.

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