

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

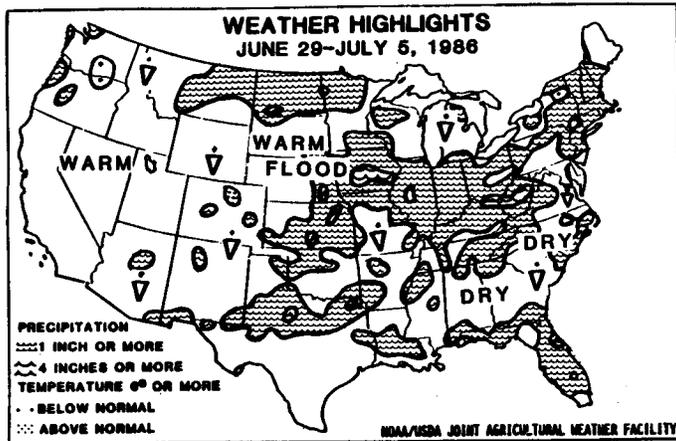
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July 8, 1986

National Weather Summary

June 29 to July 5, 1986



WEDNESDAY... Showers and thunderstorms were isolated from Arizona through most of Texas but widespread from the lower Mississippi Valley through New England and to the Atlantic Coast. Moderate showers fell in southern New England, in isolated parts of the east coast, and in the eastern Tennessee Valley. The unusually warm weather in the central and southern Intermountain region began to spread into the northern High Plains and into parts of the central Plains.

THURSDAY... Showers lingered in New England and Florida, but most of the East was clear and dry. A few thunderstorms developed along the central gulf coast and from Arizona and New Mexico to Colorado. Showers fell from the Northwest across the northern States to the western Great Lakes. Afternoon high temperatures rose to near 100 degrees in much of Nebraska and South Dakota.

FRIDAY... A strong storm system spread showers and thunderstorms from the Northwest into the northern Plains and through the Rockies. Showers were mostly light from the Great Lakes through New England and in Florida. Hot weather covered Kansas and Nebraska, and temperatures in the nineties spread to Illinois.

SATURDAY... Showers and thunderstorms moved along a line from western Oklahoma to the upper Mississippi Valley. Showers also fell in upper New York and New England, and thunderstorms covered Florida. Record-cold morning temperatures were in parts of the Northwest, but afternoon highs neared the century mark in parts of the central and southern Plains. Temperatures in the nineties pushed through Illinois into the central Great Lakes.

HIGHLIGHTS: Thunderstorms brought showers to nearly all of the Nation except the extreme Southwest and southern Texas. Beneficial showers fell in much of the previously dry areas in the East, but some parts remained dry. Torrential rain caused local flooding in parts of northern Texas, from northeastern Kansas through eastern Nebraska, and in central Iowa. Moderate to heavy showers fell through most of the Appalachians and in New England. Temperatures were cooler than normal in the Northeast early in the week and much cooler in the Northwest late in the week. Afternoon high temperatures rose to over 100 degrees in the central Great Plains late in the week, and 90 degree readings spread into the Corn Belt.

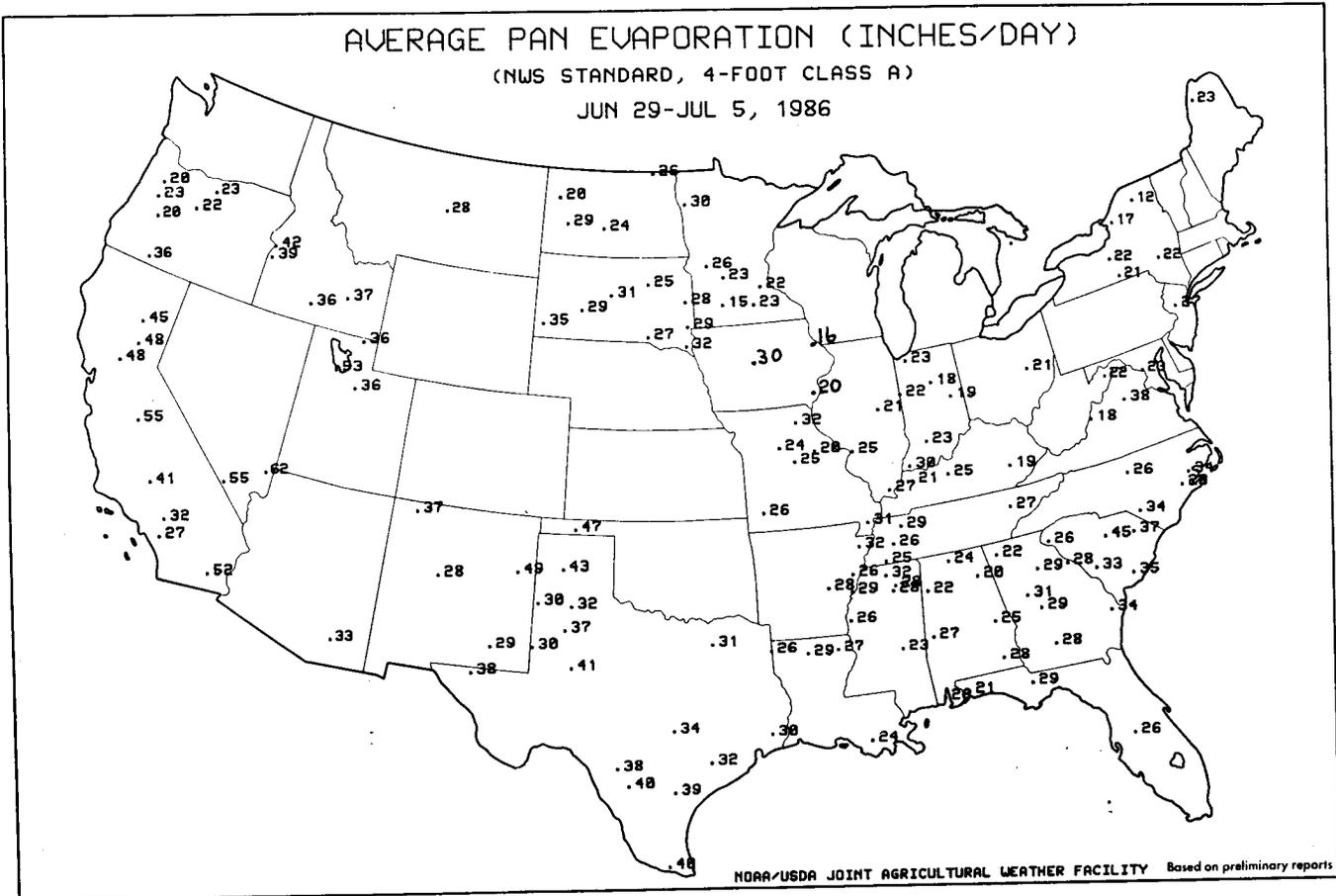
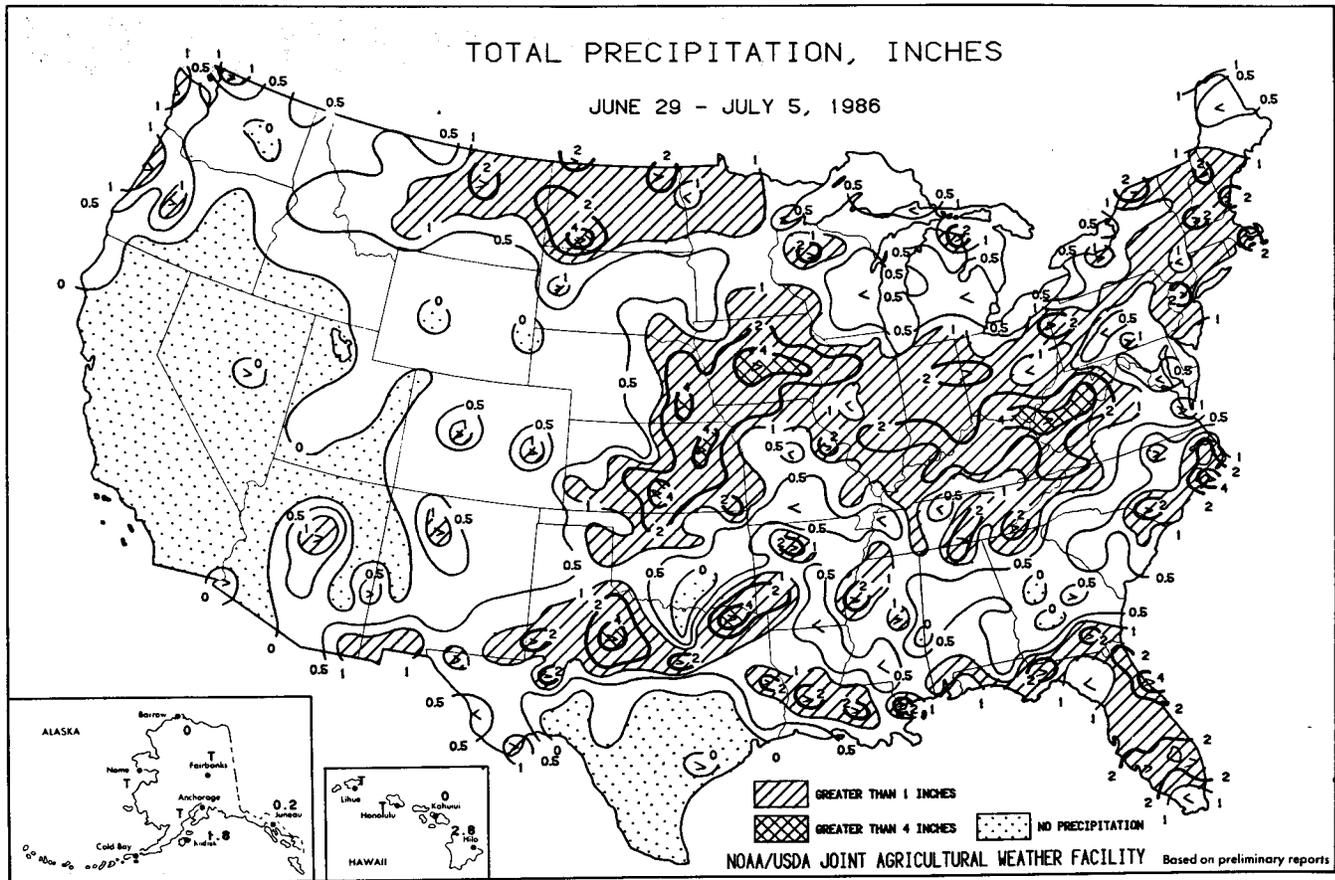
SUNDAY... Thunderstorms were scattered along the eastern slopes of the Rockies but were more widespread from Montana through North Dakota. Heavy thunderstorms developed late in the day from northeastern Kansas to southeastern South Dakota and eastward to the lower Great Lakes. Local flooding occurred through these areas. Thunderstorms were also scattered from the lower Mississippi Valley to New England.

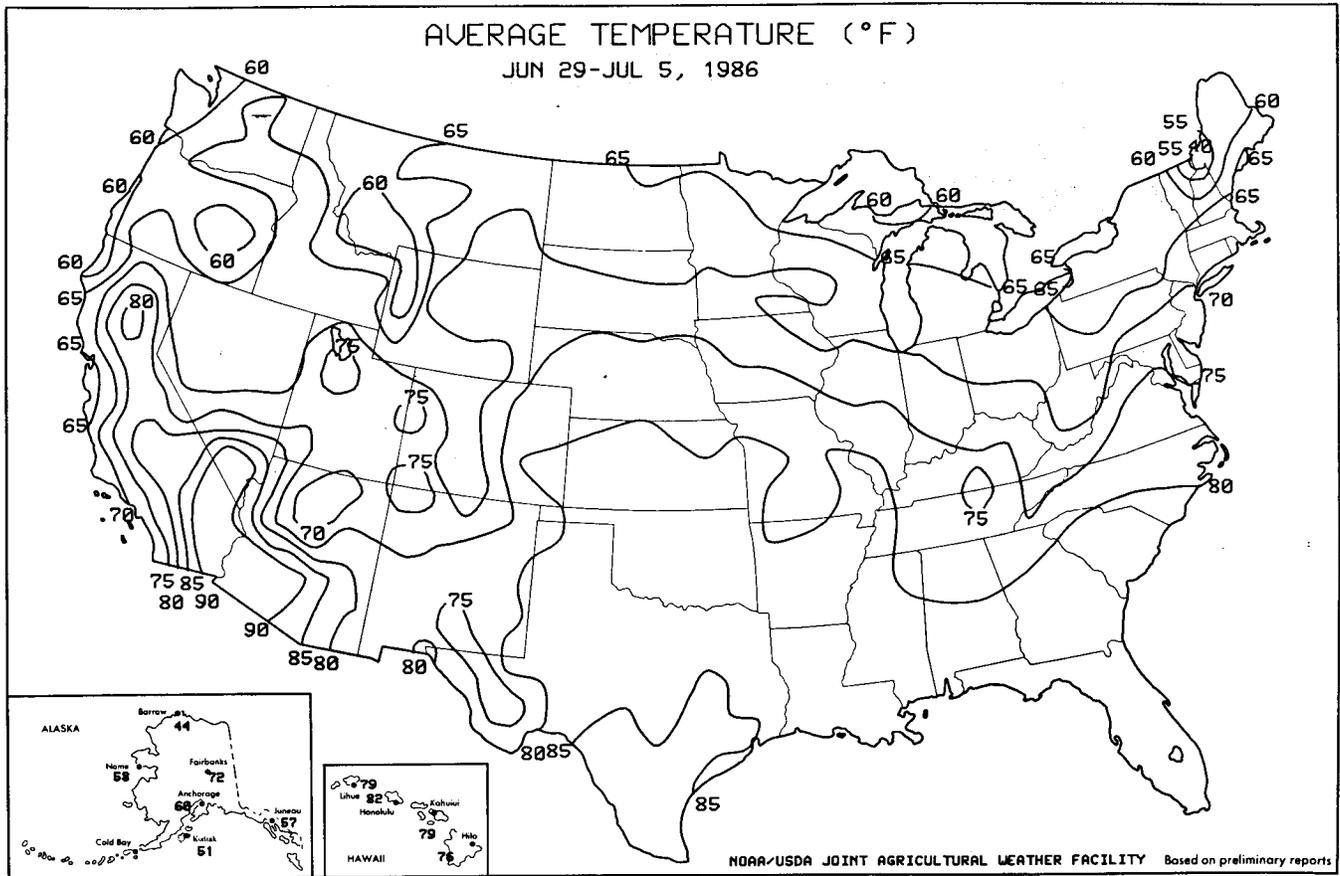
MONDAY... Thunderstorms continued through the central and northern Plains and spread eastward to the upper Ohio Valley. Thunderstorms were also scattered from Mississippi to Florida and northward to southern Pennsylvania. Temperatures were cool in the Northeast and Northwest. Warm weather spread across the South.

TUESDAY... Thunderstorms were widespread throughout eastern United States. Heavy showers fell from west-central Texas through central Oklahoma and from Illinois to Pennsylvania and southern New England. Isolated moderate showers fell through the rest of the East Coast States. Unusually warm weather spread through the Intermountain region.

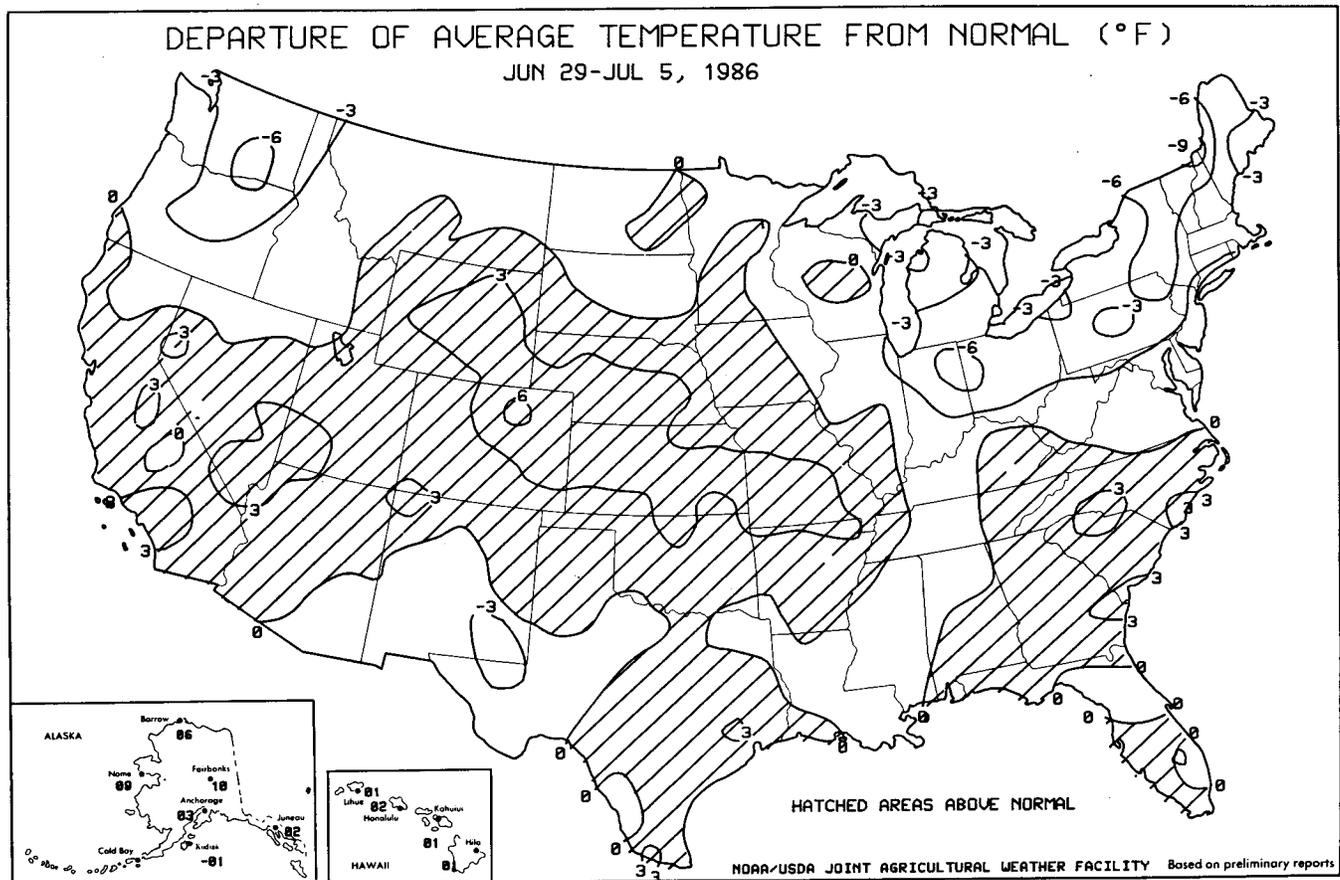
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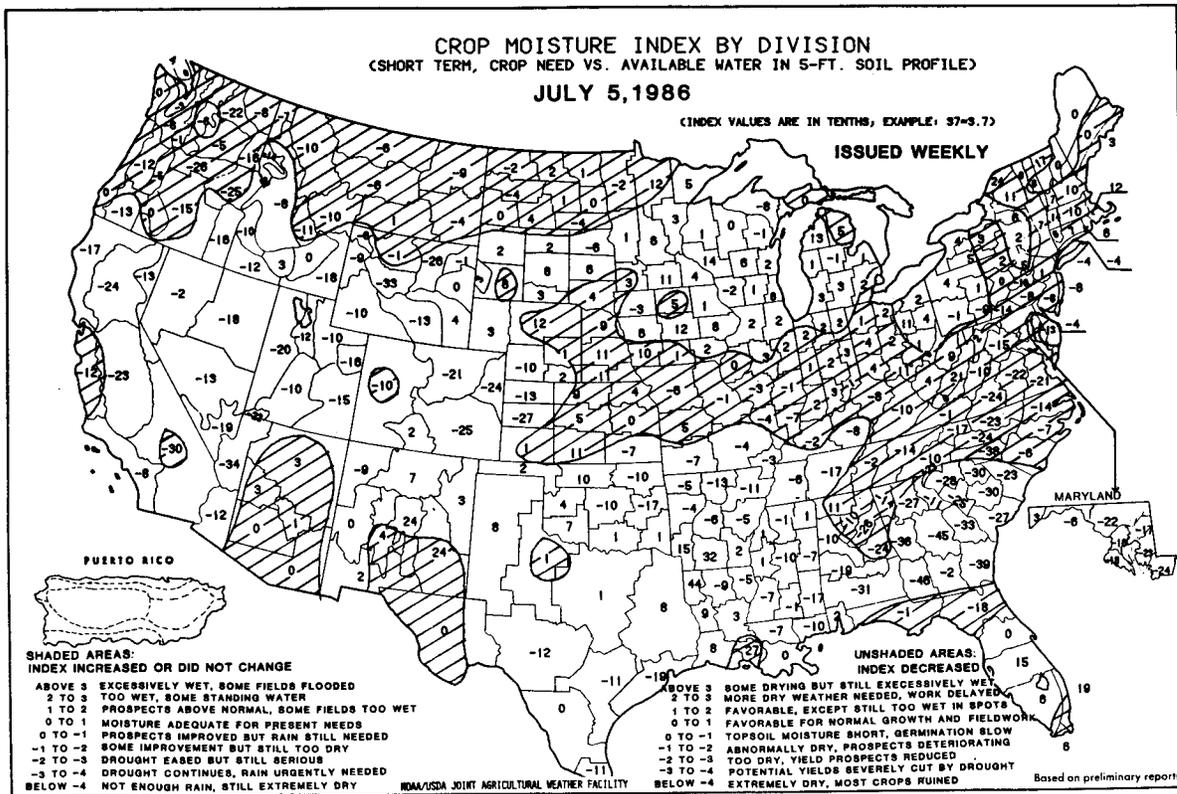
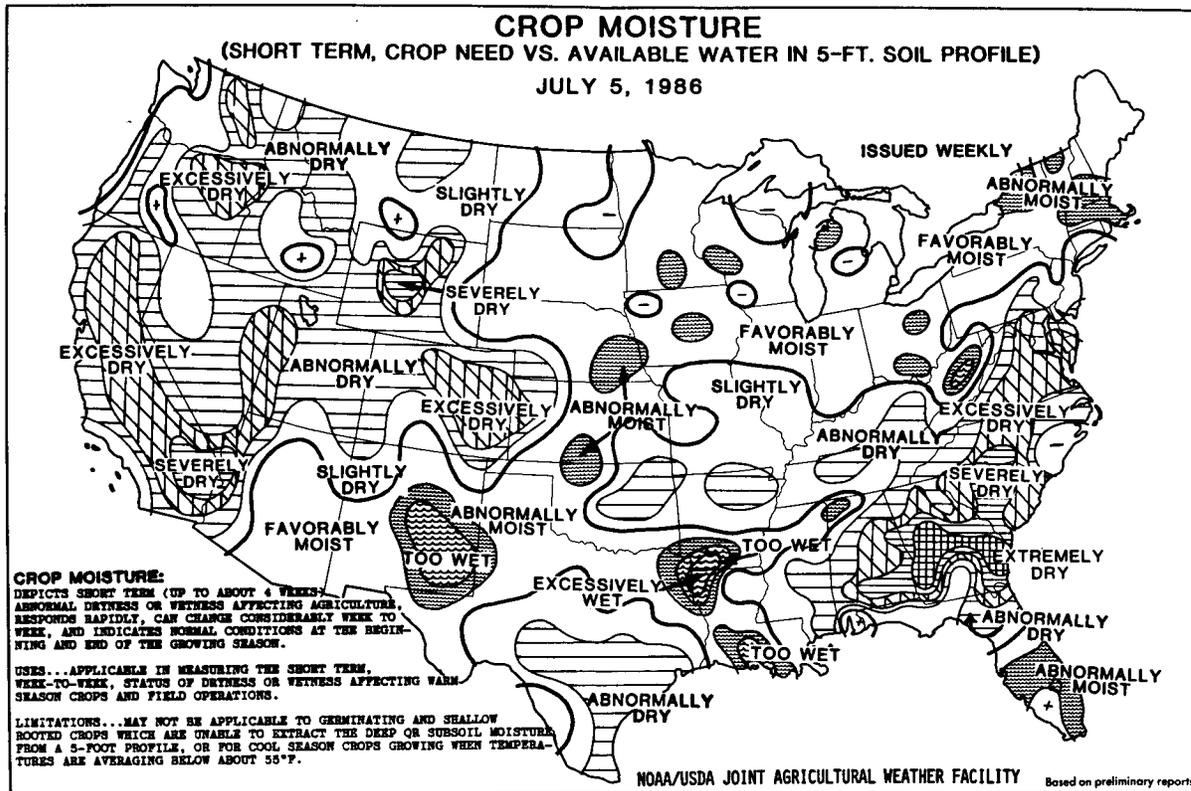
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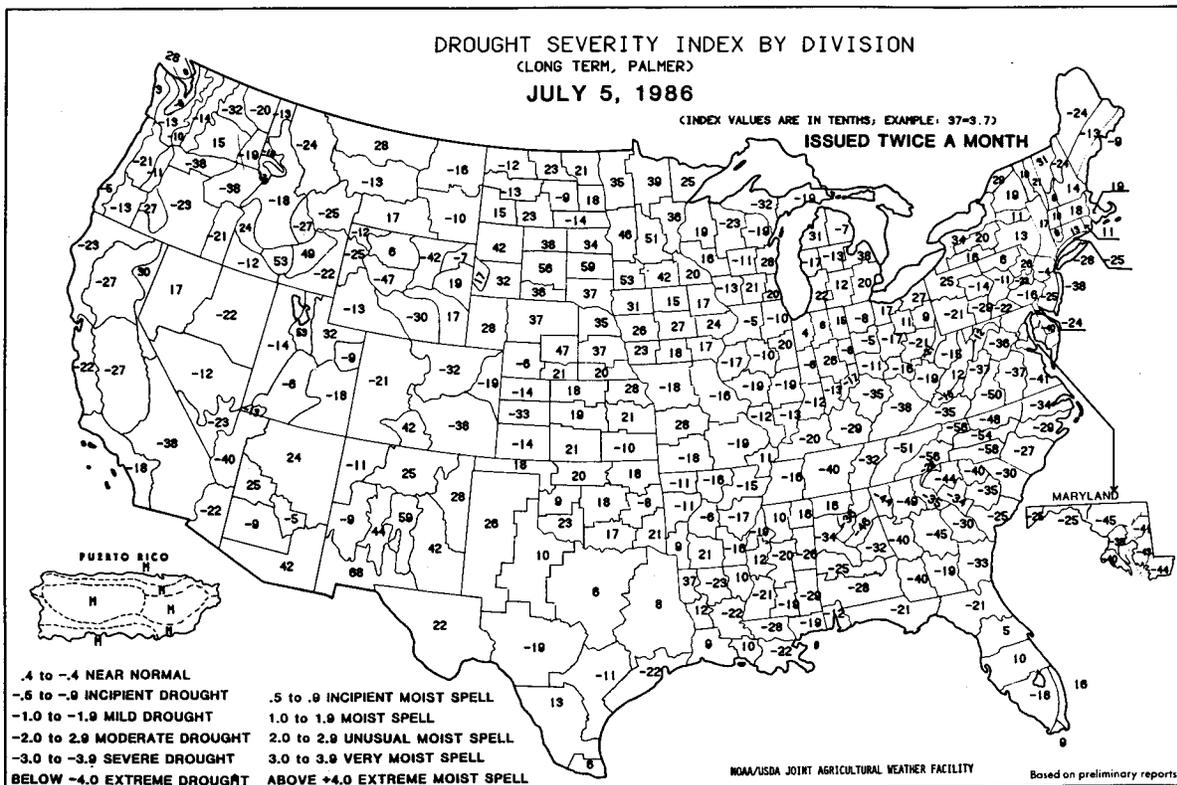
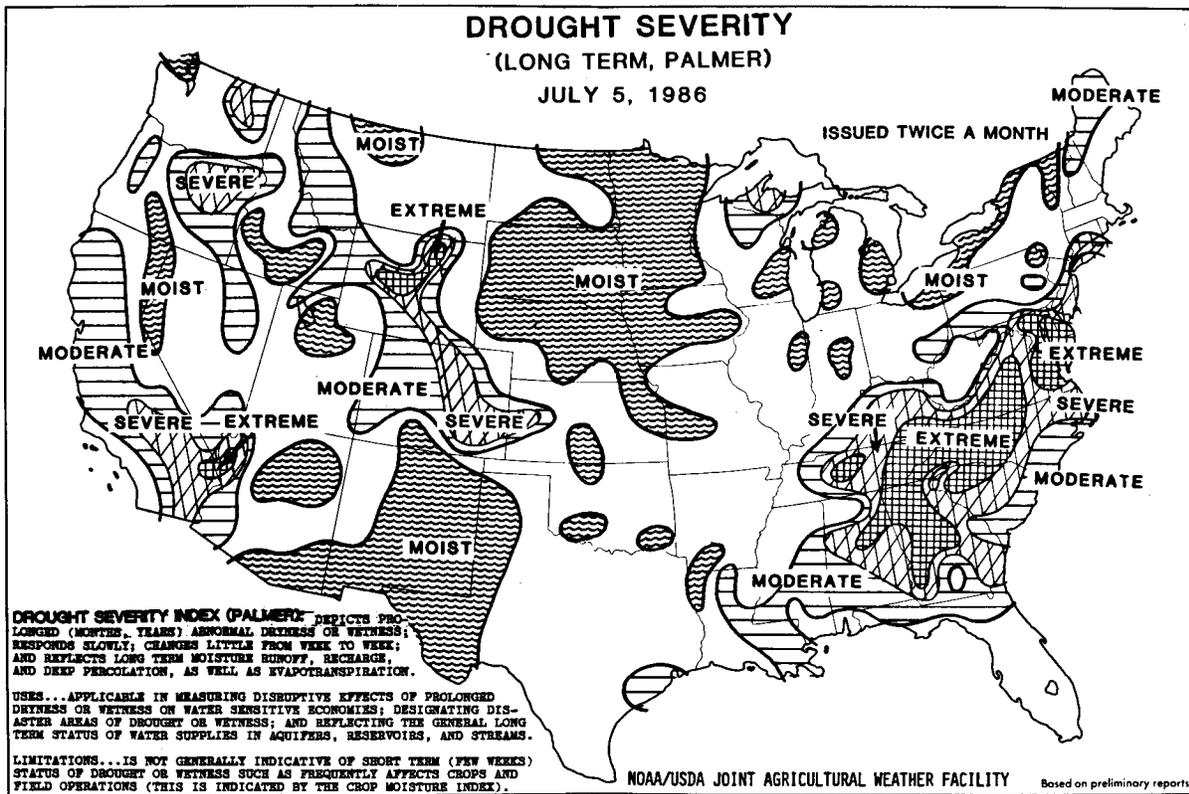


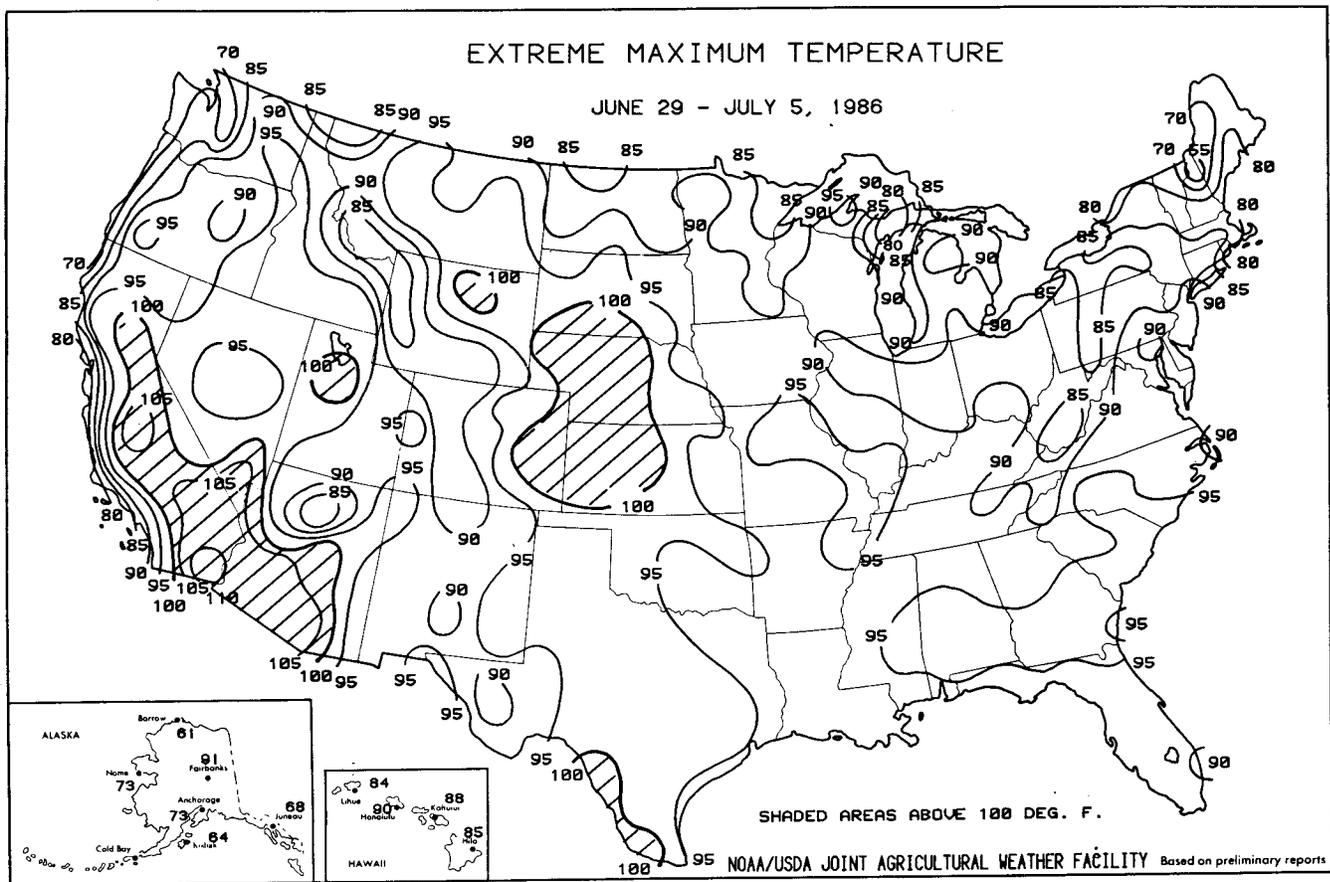
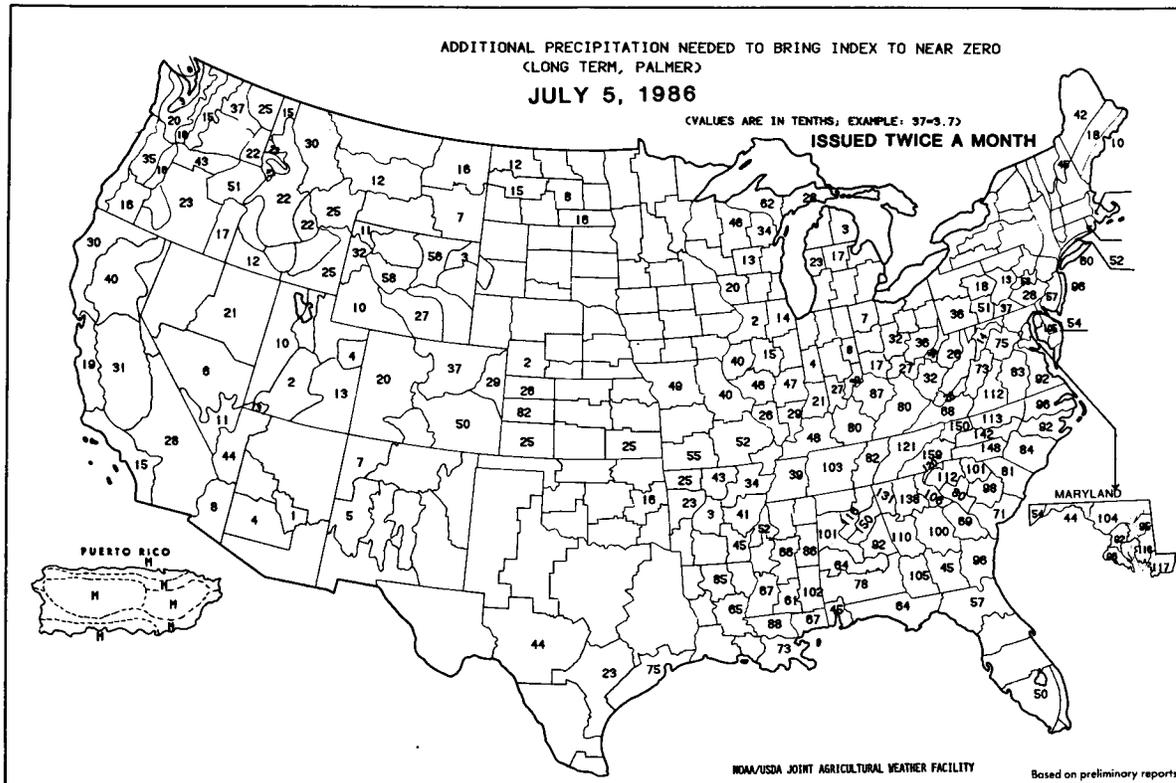


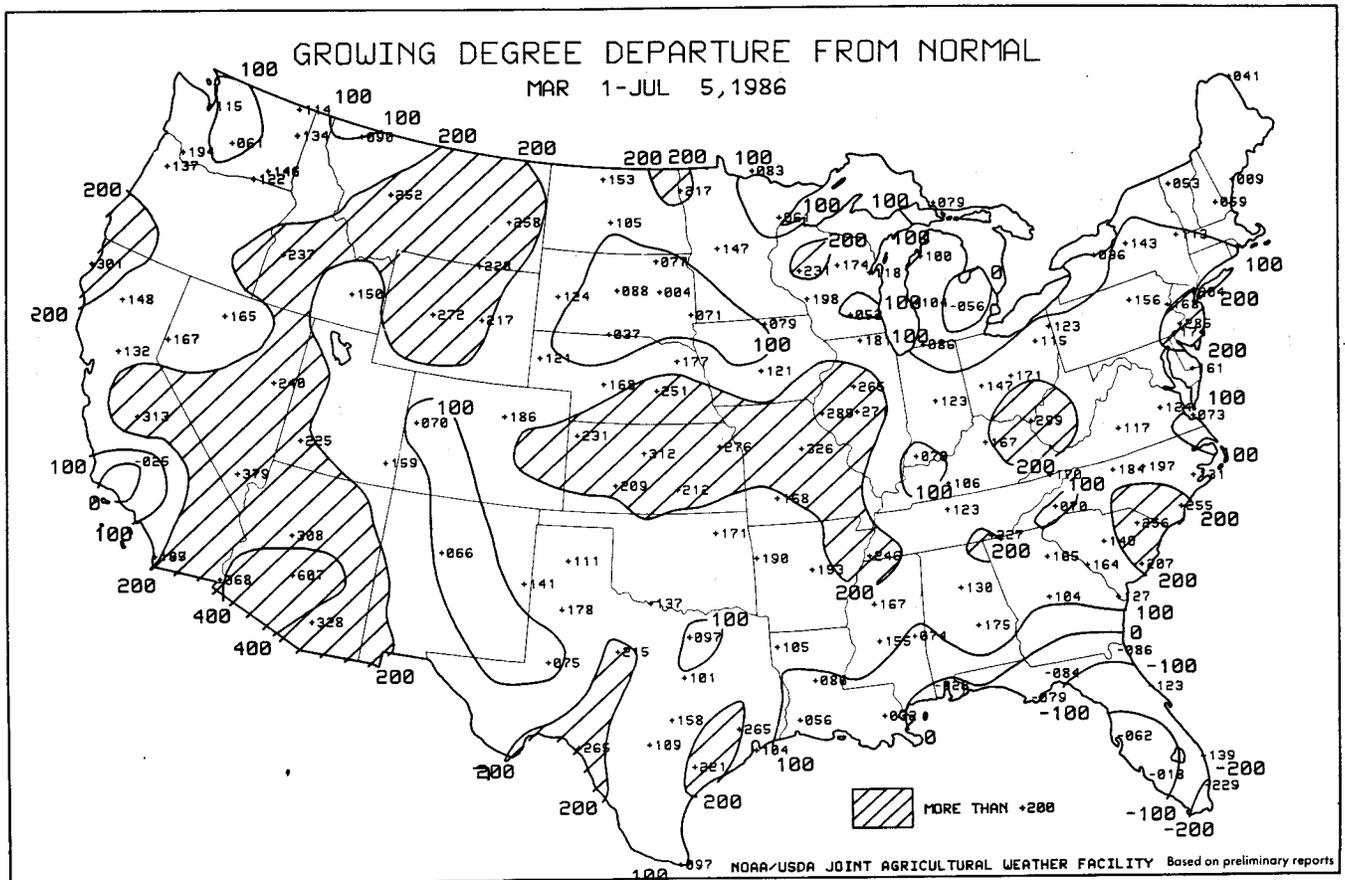
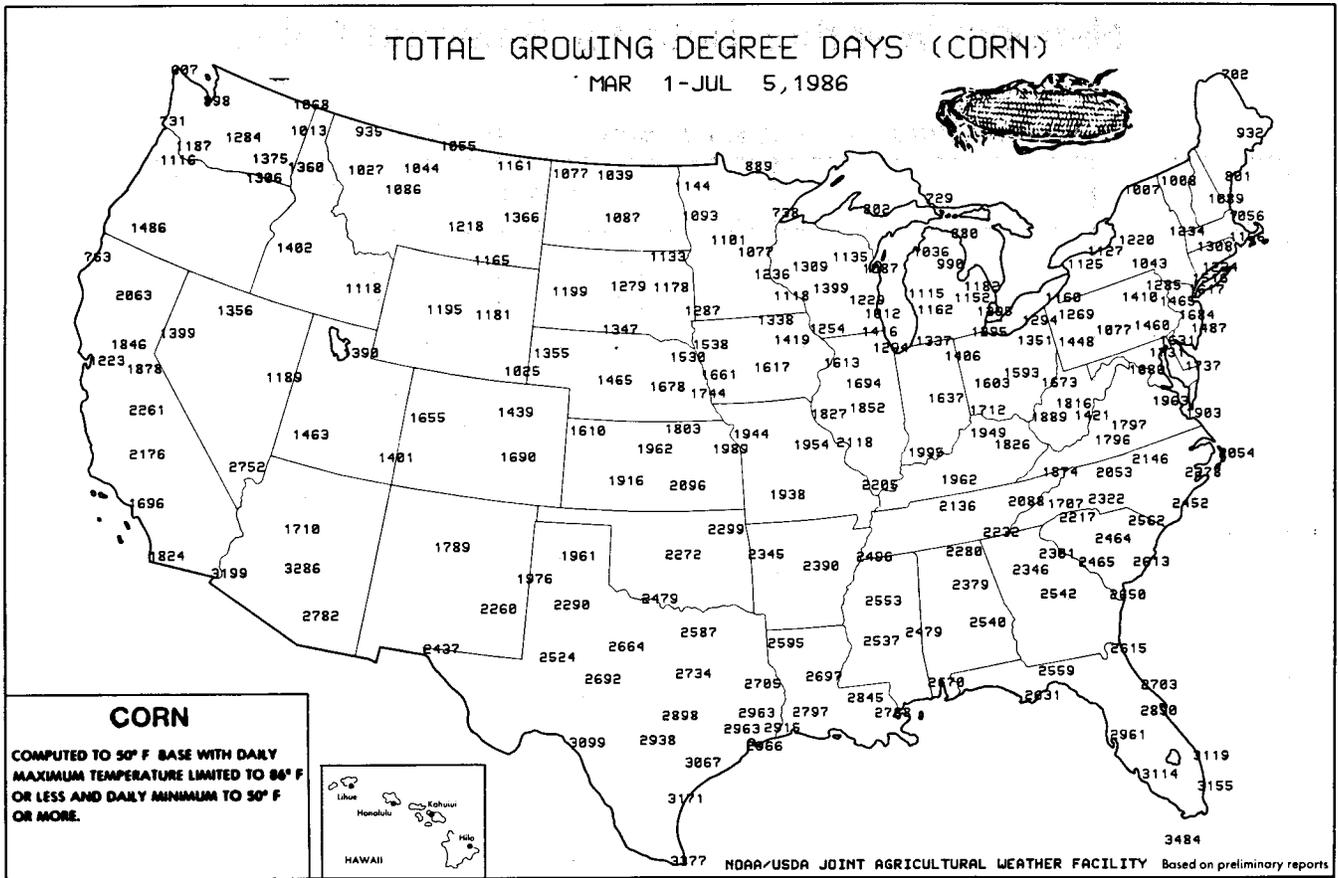
Point values may differ on these computerized maps from the reported values in the tables.











National Weather Data for Selected Cities

Weather Data for the Week Ending July 5, 1986

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 1	PCT. NORMAL SINCE JUNE 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE OF		PRECIPI- TATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	88	67	94	61	78	-1	0	.1	1.6	36	11.1	36	92	44	3	0	1	0	
MOBILE	91	73	94	71	82	0	1.6	.8	7.8	125	25.5	77	96	54	5	0	3	2	
MONTGOMERY	92	72	98	69	82	1	.5	-.6	5.1	42	23.5	86	91	43	6	0	2	0	
AK ANCHORAGE	68	51	73	48	60	2	2	-.4	1.8	25	3.7	74	85	50	0	0	1	0	
BARROW	53	36	61	32	45	7	7	-.1	1.1	15	.6	43	97	69	0	2	0	0	
FAIRBANKS	87	57	91	54	72	10	10	-.3	.9	58	2.2	58	73	21	1	1	1	0	
JUNEAU	65	49	68	45	57	2	2	-.6	2.7	79	25.0	121	88	55	0	0	1	1	
KODIAK	57	46	64	41	51	-1	1.2	1.1	13.6	350	39.5	113	98	74	0	0	4	1	
NCME	70	45	73	42	58	9	9	-.4	.3	18	2.0	43	86	41	0	0	1	0	
AZ PHOENIX	101	79	105	76	90	0	0	-.7	.8	316	3.6	129	65	23	7	7	4	4	
PRESCOTT	86	61	95	56	74	2	2	-.4	1.7	201	5.2	75	82	35	2	2	4	4	
TUCSON	96	74	101	71	85	-1	-1	-.2	.2	48	4.1	132	75	29	7	7	3	0	
YUMA	103	82	108	78	92	0	0	-.1	.1	1	.6	60	65	28	7	7	1	1	
AR FORT SMITH	93	71	96	67	82	1	1	-.1	.1	79	21.1	98	98	49	7	7	1	1	
LITTLE ROCK	92	74	94	71	83	2	2	-.7	5.1	139	22.1	85	85	50	6	6	2	0	
CA BAKERSFIELD	96	66	101	62	81	-2	2	0	0	0	4.3	110	60	20	7	7	0	0	
EUREKA	65	52	67	47	58	2	2	-.1	.2	36	27.4	122	93	71	7	7	0	0	
FRESNO	99	67	106	62	83	4	4	0	0	0	9.7	137	55	17	5	5	0	0	
LOS ANGELES	78	63	82	63	71	3	3	0	0	0	12.9	154	91	56	0	0	0	0	
RED BLUFF	93	65	99	61	79	-1	1	-.1	0	0	21.9	168	55	17	5	5	0	0	
SACRAMENTO	94	60	100	56	77	3	3	-.1	0	0	16.3	151	73	22	6	6	0	0	
SAN DIEGO	77	65	82	62	71	3	3	0	0	0	7.6	123	93	53	0	0	0	0	
SAN FRANCISCO	73	53	77	52	63	1	1	0	0	0	18.6	149	91	49	0	0	0	0	
CO DENVER	91	62	98	55	77	5	5	-.2	.2	1.3	69	6.5	76	58	18	5	5	3	
GRAND JUNCTION	91	65	97	60	78	1	1	-.2	.2	.5	94	2.9	74	63	21	5	5	3	
PUEBLO	97	59	102	53	78	3	3	-.3	1.5	104	3.5	69	73	17	7	7	3		
CT BRIDGEPORT	78	61	87	52	70	-2	2	-.7	4.2	124	14.5	70	89	47	0	0	1	1	
HARTFORD	79	56	88	49	67	-5	5	1.1	8.7	225	23.7	107	91	42	0	0	2	2	
DC WASHINGTON	86	67	94	59	77	-1	1	-.2	.9	2.3	58	11.6	60	87	39	2	2	3	
FL APALACHICOLA	91	74	93	72	82	1	1	-.1	1.2	3.5	59	19.5	84	91	60	7	7	5	
DAYTONA BEACH	89	71	93	67	80	-1	1	3.7	2.1	8.2	111	19.9	93	100	62	3	3	6	
JACKSONVILLE	91	72	95	68	82	0	0	1.1	4.4	69	21.9	88	94	52	6	6	5		
KEY WEST	90	79	90	73	84	1	1	2.0	2.0	7.5	130	13.6	88	87	64	5	5	3	
MIAMI	89	74	90	73	82	0	0	-.4	1.2	11.1	107	37.4	144	94	61	4	4	5	
ORLANDO	90	72	93	70	81	-1	1	-.4	1.9	11.0	127	24.0	105	96	56	4	4	5	
TALLAHASSEE	92	70	95	66	81	0	0	1.2	1.2	12.0	152	28.5	88	100	48	6	6	3	
TAMPA	90	75	92	71	83	1	1	-.3	.7	6.0	94	17.4	86	92	61	5	5	4	
WEST PALM BEACH	89	72	90	71	80	-1	1	1.3	.9	12.0	132	27.2	103	96	65	2	2	7	
GA ATLANTA	90	70	91	65	80	2	2	-.8	2.3	56	13.3	48	88	43	5	5	1	1	
AUGUSTA	93	71	96	66	82	2	2	0	.7	2.1	46	53	94	40	4	4	2	0	
MACON	94	72	95	68	83	2	2	-.9	.1	2.3	50	13.4	52	89	37	0	0	1	
SAVANNAH	93	74	98	72	84	3	3	-.1	3.1	46	15.7	64	90	45	6	6	2	2	
HI HILO	84	69	85	67	76	1	1	1.3	10.0	137	83.9	127	93	64	0	0	7	2	
HONOLULU	89	74	90	71	81	1	1	0	.3	61	3.2	24	81	46	2	2	1	0	
KAHULUI	86	72	88	67	79	1	1	0	.2	66	10.2	81	82	54	0	0	0	0	
LIHUE	84	75	84	74	79	1	1	-.4	1.4	72	8.8	39	85	66	0	0	1	0	
ID BOISE	84	54	97	35	69	-3	3	-.2	.5	50	9.9	138	66	21	2	2	1	1	
LEMISTON	80	55	98	48	68	-4	4	-.1	.4	27	5.8	78	69	26	1	1	0	0	
POCATELLO	84	61	99	41	68	-1	1	-.1	.4	30	9.4	145	71	20	1	1	1	1	
IL CHICAGO	81	50	91	52	69	-3	3	-.7	3.5	75	13.0	76	92	57	1	1	2	1	
MOLINE	82	64	91	57	72	-2	2	1.1	2.0	5.2	102	18.2	96	93	63	2	2	3	
PEORIA	82	65	90	60	73	-2	2	-.7	.5	6.7	148	14.0	77	97	67	1	1	0	
QUINCY	85	68	90	62	76	0	0	-.4	.8	5.9	125	16.0	85	95	64	2	2	2	
ROCKFORD	79	62	91	53	70	-2	2	-.8	3.8	70	14.7	79	93	59	1	1	1	1	
SPRINGFIELD	84	67	91	61	76	0	0	-.7	.7	6.9	160	14.3	79	94	63	2	2	1	
IN EVANSVILLE	88	67	95	61	77	0	0	.8	1.6	5.4	130	20.2	87	95	45	3	3	2	
FORT WAYNE	78	57	88	51	68	-5	5	1.0	6.0	144	18.7	103	94	53	0	0	3	2	
INDIANAPOLIS	81	62	87	55	72	-3	3	.3	4.7	99	23.8	114	93	58	0	0	2	1	
SOUTH BEND	76	59	90	52	68	-4	4	.2	6	123	16.8	88	92	57	1	1	2	2	
IA DES MOINES	85	66	92	59	75	0	0	3.4	3.3	7.7	162	22.5	139	91	56	0	0	3	3
SIoux CITY	86	66	93	61	76	2	2	1.9	1.8	5.5	119	18.3	135	94	59	3	3	1	
WATERLOO	80	63	92	54	71	-1	1	0	.6	7.2	141	20.6	122	93	62	0	0	3	2
KS CONCORDIA	91	67	98	63	79	2	2	2.8	2.0	1.2	8.0	165	127	97	46	4	4	3	2
DODGE CITY	97	67	103	65	82	3	3	1.5	.8	1.3	6.1	172	91	32	6	6	3	1	
GOODLAND	92	66	102	63	79	5	5	-.1	-.4	.1	3.9	125	81	28	4	4	0	0	
TOPEKA	89	70	95	62	80	2	2	1.6	.5	1.1	3.6	61	93	57	4	4	2	2	
WICHITA	93	72	99	65	83	3	3	3.7	2.8	2.0	7.0	148	99	41	6	6	0	0	
KY BOWLING GREEN	88	65	92	56	76	-1	1	-.7	-.4	4	2.7	51	98	47	4	4	3	2	
LEXINGTON	86	65	93	58	75	0	0	2.1	1.0	1.2	3.4	67	92	46	2	2	0	2	
LOUISVILLE	86	66	93	57	76	-1	1	.7	1.5	3.8	90	16.7	70	93	49	2	2	3	1
LA ALEXANDRIA	90	73	94	70	82	0	0	1.5	5	8.0	172	19.4	61	86	60	5	5	1	1
BATON ROUGE	90	74	93	72	81	0	0	1.3	.6	6.1	151	25.2	88	94	56	4	4	4	1
LAKE CHARLES	91	75	92	73	83	0	0	-.9	6	6.7	135	21.1	83	97	62	6	6	2	1
NEW ORLEANS	89	73	92	71	83	-1	1	-.9	-.4	.7	9.1	163	99	62	6	6	3	1	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS.

Weather Data for the Week Ending July 5, 1986

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 1	PCT. NORMAL SINCE JUNE 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	92	73	93	70	82	0	T	-4	T	14.9	359	29.6	119	97	55	7	0	0	0
ME CARIBOU	71	49	76	43	60	-4	.4	-4	.2	2.8	73	15.4	95	94	45	0	0	1	0
PORTLAND	73	53	84	46	63	-3	1.6	.9	1.1	5.5	156	24.9	113	92	52	0	0	5	1
MD BALTIMORE	86	64	95	53	75	-1	.5	-3	.5	2.0	46	11.9	57	92	40	2	0	2	0
SALISBURY	84	64	90	54	74	-1	.8	-1	.4	1.8	42	12.8	60	97	51	1	0	3	0
MA BOSTON	77	60	86	54	68	-4	1.7	1.1	1.4	9.5	284	22.0	98	81	42	0	0	3	1
CHATHAM	72	59	78	55	65	0	1.3	.7	1.3	4.4	141	16.7	72	—	—	0	0	1	1
MI ALPENA	76	48	93	37	62	-2	2.4	1.7	1.8	5.8	157	14.4	104	97	44	1	0	3	2
DETROIT	78	57	91	52	68	-3	.3	-5	0	5.8	146	16.9	106	95	52	1	0	3	0
FLINT	78	55	91	49	66	-3	.1	-6	0	5.7	154	14.3	97	92	48	1	0	3	0
GRAND RAPIDS	77	55	91	47	66	-4	.1	-7	.1	7.2	163	20.4	121	91	51	1	0	3	0
HOUGHTON LAKE	76	52	87	44	64	-4	.4	-3	.4	4.1	114	14.1	105	89	45	0	0	1	1
LANSING	77	55	90	47	66	-4	.4	-6	.4	9.7	241	18.6	124	92	54	1	0	2	0
MARQUETTE	73	46	92	36	60	-6	.2	-6	.2	2.6	60	14.0	75	92	43	1	0	0	0
MUSKEGON	77	56	89	46	67	-2	.3	-2	.2	2.0	67	11.3	74	83	48	0	0	2	0
SAULT STE. MARIE	73	47	87	41	60	-2	.4	-4	.4	5.8	154	15.5	103	97	54	0	0	0	0
MN ALEXANDRIA	80	59	89	54	69	0	.5	-4	.4	3.9	86	16.5	134	90	56	0	0	2	0
DULUTH	74	53	84	48	64	0	.4	-5	.3	8.5	183	17.5	127	95	60	0	0	3	0
INT'L FALLS	76	53	85	45	65	0	1.9	1.0	.9	5.4	125	11.0	99	97	48	0	0	5	1
MINNEAPOLIS	79	61	89	57	70	-2	.7	-2	.4	5.8	123	18.9	142	92	55	0	0	3	0
ROCHESTER	76	59	88	53	68	0	1.1	.2	1.0	6.1	127	16.6	119	95	62	0	0	4	0
MS GREENWOOD	91	72	93	68	81	0	.9	-1	.9	2.8	69	16.9	56	96	48	7	0	2	1
JACKSON	92	70	95	65	81	-1	.3	-6	.2	3.9	111	21.3	72	97	52	5	0	2	0
MERIDIAN	92	69	96	65	80	0	0	-1	0	2.2	51	20.2	67	99	51	4	0	0	0
MO CAPE GIRARDEAU	92	71	95	67	82	0	.5	-3	.5	3.0	74	24.2	99	90	44	5	0	1	1
COLUMBIA	89	68	95	61	78	2	.4	-4	.4	2.4	55	15.7	81	94	56	4	0	1	0
KANSAS CITY	89	70	94	65	80	2	1.0	-1	.7	3.2	58	12.3	69	90	57	4	0	2	1
SAINT LOUIS	91	70	98	66	80	2	1.9	1.0	1.4	6.0	136	15.6	84	88	49	4	0	3	1
SPRINGFIELD	90	69	93	62	79	3	T	-1	T	3.2	61	14.3	68	95	54	4	0	1	0
MT BILLINGS	82	55	97	50	68	-1	.5	-2	.3	2.6	113	10.4	112	86	28	1	0	3	0
GLASGOW	76	56	95	51	66	-2	1.7	1.2	.7	2.6	92	6.6	99	89	38	1	0	3	2
GREAT FALLS	77	53	98	45	65	-2	.9	.5	.4	2.3	75	8.3	86	83	27	1	0	4	0
HAVRE	77	54	97	48	66	-2	.1	-3	.1	.3	13	6.5	98	86	32	1	0	2	0
HELENA	77	49	99	43	63	-2	.7	.4	.7	2.3	103	6.2	91	81	25	1	0	1	1
KALISPELL	70	51	84	45	61	-2	.4	0	.3	2.4	96	10.1	115	91	42	0	0	3	0
MILES CITY	86	58	98	52	72	0	.7	.2	.3	2.4	79	8.2	96	88	29	2	0	3	0
MISSOULA	76	51	93	47	63	-1	.7	.4	.6	3.3	160	9.1	118	94	37	1	0	2	1
NE GRAND ISLAND	90	67	98	63	79	3	.7	0	.6	3.6	86	11.7	87	91	48	4	0	2	1
LINCOLN	90	68	96	65	79	2	4.0	3.2	1.7	6.0	136	17.7	121	92	52	4	0	4	3
NORFOLK	87	66	94	63	77	2	2.1	1.2	2.0	5.4	108	17.0	123	91	56	3	0	3	1
NORTH PLATTE	91	62	101	57	77	4	.2	-6	.2	1.7	40	10.1	87	89	35	3	0	2	0
OMAHA	87	67	93	62	77	2	2.0	1.2	1.0	4.3	89	19.1	123	91	59	3	0	4	2
SCOTTSBLUFF	91	59	101	54	75	3	T	-6	T	5.6	168	12.4	135	84	26	4	0	1	0
VALENTINE	90	60	102	53	75	2	.4	-2	.3	2.2	63	10.3	106	85	36	3	0	2	0
NV ELY	89	48	94	42	68	3	T	-2	T	.6	4	4.4	85	48	13	4	0	0	0
LAS VEGAS	104	80	109	74	92	4	0	-1	0	T	0	1.1	58	32	14	7	0	0	0
RENO	90	50	96	43	70	0	0	-1	0	.3	82	7.5	167	62	15	4	0	0	0
WINNEMUCCA	89	48	98	40	68	-1	.8	-1	.1	.1	12	3.5	73	45	14	3	0	0	0
NH CONCORD	76	50	84	43	63	-3	1.8	1.1	1.3	6.5	192	20.6	118	98	47	0	0	5	1
NJ ATLANTIC CITY	83	62	92	51	72	-1	.7	0	.7	3.1	94	17.4	85	85	40	2	0	3	1
NM ALBUQUERQUE	87	64	92	62	76	-2	.8	.6	.4	3.0	455	5.8	200	89	29	1	0	4	0
CLOVIS	92	68	97	65	80	3	.3	-4	.3	3.4	112	7.7	101	74	34	5	0	1	1
ROSWELL	90	67	96	63	78	-3	.9	.7	.6	6.0	554	8.8	293	92	42	5	0	3	1
NY ALBANY	77	54	89	46	65	-5	1.1	.4	1.1	6.5	172	21.1	119	95	42	0	0	2	1
BINGHAMTON	71	53	84	47	62	-3	1.2	.3	.8	5.6	134	20.9	114	91	46	0	0	2	1
BUFFALO	76	57	86	51	67	-3	.3	-4	.2	4.2	131	18.9	108	90	41	0	0	3	0
NEW YORK	82	64	92	58	73	-2	1.1	.3	1.0	2.5	68	16.7	79	81	39	1	0	4	1
ROCHESTER	76	54	86	47	65	-5	1.1	.5	.5	4.9	155	16.4	105	93	42	0	0	3	1
SYRACUSE	76	57	89	48	66	-4	.8	-1	.5	5.7	133	19.2	101	92	47	0	0	5	0
NC ASHEVILLE	84	61	87	51	72	0	.3	-7	.3	1.6	32	11.4	45	97	48	0	0	1	0
CHARLOTTE	92	71	96	66	82	4	.2	-6	.1	.6	15	8.4	36	89	41	6	0	2	0
GREENSBORO	87	67	93	61	77	1	1.0	0	.9	2.1	45	8.1	37	95	50	2	0	2	1
HATTERAS	85	70	87	63	78	1	1.0	-1	.5	3.5	70	17.0	68	97	62	0	0	4	1
NEW BERN	91	69	95	64	80	2	1.3	-1	1.1	5.6	94	19.2	77	99	53	5	0	4	1
RALEIGH	89	67	94	60	78	5	.5	-5	.2	2.3	52	12.9	60	95	47	3	0	3	0
WILMINGTON	91	73	95	66	82	7	1.6	0	.5	6.8	99	23.0	92	94	51	4	0	4	1
ND BISMARCK	77	56	92	50	67	-2	1.7	1.1	1.3	4.1	120	11.6	132	92	55	1	0	3	1
FARGO	79	57	87	52	68	-1	1.1	.4	1.0	5.1	142	12.6	131	95	52	0	0	4	1
GRAND FORKS	80	58	91	50	69	-2	.6	-1	.6	1.6	48	6.7	77	90	41	0	0	5	1
WILLISTON	76	55	86	52	66	-2	1.6	1.0	.7	2.9	96	10.6	136	93	47	0	0	5	1
OH AKRON-CANTON	76	57	87	51	66	-5	1.2	.3	1.0	4.1	105	14.6	78	97	52	0	0	3	1
CINCINNATI	82	62	89	51	72	-2	1.5	.4	1.3	2.7	57	14.8	67	93	49	0	0	2	0
CLEVELAND	76	57	88	51	67	-4	.5	-2	.3	3.4	83	19.3	105	93	52	0	0	3	0
COLUMBUS	79	58	88	51	68	-5	1.5	.6	.9	6.5	139	17.4	87	96	54	0	0	3	2

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS.

Weather Data for the Week Ending July 5, 1986

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 1	PCT. NORMAL SINCE JUNE 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	PRECIPITATION	
																		.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	78	60	87	53	69	-5	1.6	.8	1.1	7.8	177	22.1	115	94	55	0	0	2	2
TOLEDO	77	57	88	49	67	-4	.9	.1	.4	5.8	142	16.8	102	96	57	0	0	0	0
YOUNGSTOWN	75	54	87	47	64	-5	2.8	1.9	2.6	13.4	321	23.6	124	98	54	0	0	3	4
OK OKLAHOMA CITY	93	73	97	70	83	3	.1	-.7	.1	3.2	72	18.2	106	88	50	6	0	0	0
TULSA	92	75	96	72	84	2	.2	-.7	.2	4.4	85	20.0	97	88	50	6	0	1	0
OR ASTORIA	65	51	67	44	58	-1	.6	-.2	.4	1.5	58	34.5	95	96	54	0	0	4	0
BURNS	77	50	90	25	64	-2	.2	-.1	.3	34	7.1	209	—	—	2	1	1	0	0
MEDFORD	85	53	95	42	69	-1	.1	-.1	.1	.3	34	7.1	—	—	2	1	1	0	0
PENDLETON	77	54	91	47	65	-1	.4	.4	.5	63	10.2	98	75	23	2	0	0	0	0
PORTLAND	76	55	84	49	65	-6	.4	.4	.5	63	7.4	110	67	27	2	1	0	0	0
SALEM	75	49	84	42	62	-2	1.0	.3	.7	42	17.3	88	92	41	0	0	2	2	
PA ALLENTOWN	81	57	90	50	69	-4	1.2	.3	1.0	1.5	114	22.3	103	92	40	0	0	0	1
ERIE	76	58	89	51	67	-1	.4	-.3	.9	3.7	90	20.4	94	89	37	0	0	2	2
HARRISBURG	82	58	92	50	70	-5	.8	-.3	.7	8.1	188	23.2	125	87	52	1	0	3	1
PHILADELPHIA	86	62	94	52	74	-1	1.4	.5	1.3	3.3	72	17.2	82	94	39	2	0	3	1
PITTSBURGH	77	57	87	49	67	-4	.8	0	.5	5.9	152	16.8	86	84	43	0	0	3	0
SCRANTON	76	53	86	46	64	-6	.9	.2	.7	7.7	193	22.3	130	93	45	0	0	3	1
RI PROVIDENCE	79	58	87	51	68	-2	1.9	1.2	1.5	5.1	157	21.3	94	88	47	0	0	3	1
SC CHARLESTON	93	74	97	71	83	4	.8	-.9	.8	3.2	42	13.8	53	95	47	5	0	2	1
COLUMBIA	94	71	98	63	83	2	.3	-.8	.3	1.2	22	8.4	32	88	33	7	0	1	0
FLORENCE	93	72	98	66	82	3	1.9	.6	1.4	4.6	83	12.5	55	95	39	5	0	0	0
GREENVILLE	91	68	94	64	80	3	.2	-.8	.2	1.1	20	13.7	48	91	42	6	0	1	0
SD ABERDEEN	80	58	92	51	69	-1	.1	-.6	.1	2.4	66	14.7	143	93	48	6	0	0	0
HURON	82	59	92	53	71	-2	.1	-.6	.1	2.5	65	13.1	120	91	54	2	0	1	0
RAPID CITY	85	58	97	53	72	1	.8	.1	.6	4.5	122	13.1	126	91	39	0	0	2	1
SIoux FALLS	83	63	94	57	73	1	.5	-.3	.3	4.1	98	14.0	109	87	56	3	0	2	0
TN CHATTANOOGA	88	68	92	60	78	0	.5	-.4	.5	2.1	53	12.6	44	96	49	2	0	1	0
KNOXVILLE	90	66	92	59	78	1	1.1	.1	1.0	1.7	37	13.0	49	94	44	6	0	2	1
MEMPHIS	92	74	95	71	83	1	.6	-.3	.6	4.5	106	17.8	61	90	48	6	0	1	0
NASHVILLE	88	67	93	59	78	-1	.3	-.6	.2	2.6	60	12.5	46	94	44	4	0	2	1
TX ABILENE	93	73	96	69	83	0	3.2	2.7	2.9	7.6	266	14.7	128	82	40	6	0	2	1
AMARILLO	93	68	97	66	81	3	.2	-.5	.1	3.7	93	8.8	90	90	37	5	0	3	0
AUSTIN	96	75	96	74	86	2	0	-.5	0	2.2	64	13.0	79	92	41	7	0	0	0
BEAUMONT	91	76	93	74	84	1	.5	-.6	.5	11.7	246	29.2	121	96	57	7	0	2	0
BROWNSVILLE	93	76	95	74	85	1	0	-.5	0	3.8	125	8.8	88	94	51	7	0	0	0
CORPUS CHRISTI	92	75	94	72	84	0	0	-.6	0	3.1	83	11.8	92	97	56	7	0	0	0
DEL RIO	95	76	97	74	86	0	0	-.4	0	3.6	178	11.2	142	67	33	7	0	0	0
EL PASO	92	70	96	67	81	-2	.1	-.3	.1	3.1	399	4.7	196	78	33	6	0	1	0
FORT WORTH	94	76	97	74	85	0	0	-.5	0	3.9	133	18.3	109	85	42	6	0	0	0
GALVESTON	89	80	90	78	84	1	0	-.8	0	4.3	105	12.2	70	81	59	1	0	0	0
HOUSTON	96	77	97	75	87	4	0	-.8	0	6.3	136	18.2	80	89	47	7	0	0	0
LUBBOCK	91	71	97	67	81	1	1.0	.5	.8	6.0	185	9.8	113	92	46	5	0	3	1
MIDLAND	91	69	94	65	80	-1	1.0	.6	.9	4.4	262	8.6	141	94	48	5	0	2	1
SAN ANGELO	94	72	97	69	83	-1	.1	-.3	.1	3.3	156	12.0	140	83	35	7	0	1	0
SAN ANTONIO	95	76	96	74	85	1	0	-.5	0	12.0	354	22.5	155	90	37	7	0	0	0
VICTORIA	93	76	96	75	85	1	.1	-.7	.1	7.5	148	17.4	99	94	49	7	0	1	0
WACO	97	75	98	74	86	1	.4	-.1	.4	4.3	150	19.0	111	92	44	7	0	1	0
WICHITA FALLS	93	75	97	71	84	-1	.5	0	.5	8.0	251	17.1	120	85	48	4	0	1	0
UT BLANDING	87	61	92	55	74	2	.3	.2	.2	1.3	281	5.8	121	71	36	2	0	2	0
CEDAR CITY	91	60	94	54	76	4	.1	-.1	.1	.3	57	4.4	90	55	25	5	0	1	0
SALT LAKE CITY	89	61	100	50	75	1	.1	-.2	.1	.4	38	12.8	139	50	17	4	0	0	0
VT BURLINGTON	72	51	79	44	61	-7	2.0	1.2	1.4	6.1	146	19.8	126	97	52	0	0	5	1
VA NORFOLK	85	68	91	62	77	0	.7	-.3	.3	1.6	39	12.2	56	93	52	1	0	3	0
RICHMOND	86	65	93	56	76	-1	.9	-.1	.4	1.6	37	12.4	60	93	47	2	0	4	0
ROANOKE	87	63	94	52	75	0	.7	-.1	.5	1.2	31	12.2	60	94	43	3	0	3	1
WA COLVILLE	72	52	87	46	62	-4	.7	.5	.3	2.0	121	13.9	151	89	61	0	0	4	0
QUILLAYUTE	63	48	67	40	56	-2	1.7	1.1	1.3	3.1	91	62.4	116	98	63	0	0	3	1
SEATTLE-TACOMA	69	53	75	49	61	-3	.4	.2	.2	1.1	70	19.8	102	85	43	0	0	4	0
SPOKANE	73	51	90	46	62	-5	.3	.1	.2	.7	53	9.8	105	85	32	1	0	3	0
YAKIMA	78	48	89	38	63	-6	.1	0	.1	.2	28	5.1	113	86	29	0	0	3	0
WV BECKLEY	78	58	84	49	68	0	2.9	1.9	1.7	4.6	102	17.7	78	99	59	0	0	5	2
CHARLESTON	84	62	89	51	73	-1	4.0	2.9	2.1	6.2	151	20.7	95	99	53	0	0	3	2
HUNTINGTON	84	63	90	52	74	-1	4.2	3.2	2.0	7.0	164	17.9	82	97	53	0	0	3	3
PARKERSBURG	80	59	88	51	70	-4	1.1	.1	.5	6.9	132	17.6	74	100	60	0	0	3	1
WI GREEN BAY	79	57	92	44	68	-4	.1	-.7	.1	5.1	110	11.4	83	92	49	1	0	1	0
LA CROSSE	80	62	94	53	71	-1	1.7	.8	1.4	4.4	113	13.5	88	94	54	2	0	2	1
MADISON	78	59	91	49	69	-1	.1	-.8	.1	3.2	71	12.7	84	92	57	1	0	1	0
MILWAUKEE	75	59	91	52	67	-2	.1	-.8	.1	4.5	108	15.6	99	89	61	1	0	2	0
WAUSAU	78	58	91	44	68	0	.3	-.6	.2	3.6	78	10.6	71	91	46	1	0	2	0
WY CASPER	88	55	95	49	72	4	.1	-.2	.1	4.1	287	9.0	127	82	23	3	0	2	0
CHEYENNE	86	58	92	53	72	5	.2	-.2	.2	2.5	107	6.8	88	78	23	2	0	2	0
LANDER	87	58	94	45	73	5	.1	-.2	.1	.3	17	6.0	68	58	19	3	0	0	0
SHERIDAN	86	53	99	48	70	3	.2	-.2	.2	3.4	141	9.0	96	85	23	2	0	3	0
PR SAN JUAN	88	76	99	75	82	0	.4	-.7	.2	1.8	33	28.4	130	93	64	0	0	4	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS.

Cooling Degree Day Data Weekly Summary

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

LAST DATE OF DATA COLLECTION PERIOD IS 7-4-1986
ACCUMULATIONS ARE FROM JANUARY 1
** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

STATE CITY	CALL	WEEK	WEEK	WEEK	CUM	CUM	CUM	CUM	CUM	STATE CITY	CALL	WEEK	WEEK	WEEK	CUM	CUM	CUM	CUM	CUM	
		TOTAL	DEV	DEV	TOTAL	DEV	DEV	DEV	DEV			TOTAL	DEV	DEV	TOTAL	DEV	DEV	DEV	DEV	
			FROM	FROM		FROM	FROM	FROM	FROM				FROM	FROM		FROM	FROM	FROM	FROM	
			NORM	NORM		NORM	NORM	NORM	NORM				NORM	NORM		NORM	NORM	NORM	NORM	
			L YR	L YR		L YR	L YR	L YR	L YR				L YR	L YR		L YR	L YR	L YR	L YR	
AL BIRMINGHAM	BHM	91	-8	22	745	65	48	10	10	MT KALISPELL	FCA	12	7	-10	107	92	78	67	**	**
AL MOBILE	MOB	119	0	24	975	-66	-21	-6	-2	MT MILES CITY	MLS	60	8	-5	317	140	108	79	**	**
AL MONTGOMERY	MGM	119	7	28	910	54	-13	6	-1	MT MISSOULA	MSO	22	8	-46	138	108	37	**	**	**
AK ANCHORAGE	ANC	0	0	-1	0	0	-1	**	**	NE GRAND ISLAND	GRI	99	27	45	403	93	89	30	28	**
AK BARROW	BRW	0	0	0	0	0	0	**	**	NE LINCOLN	LNK	99	20	49	444	99	157	29	55	**
AK FAIRBANKS	FAT	47	42	46	76	57	66	**	**	NE NORTH PLATTE	NBF	93	34	53	270	54	88	25	48	**
AK JUNEAU	JNU	0	0	0	0	0	0	**	**	NE OMAHA	ONB	89	9	33	412	23	106	6	35	**
AK KODIAK	KDK	0	0	0	0	0	0	**	**	NE SCOTTSBLUFF	BFF	84	29	27	219	30	15	16	7	**
AK NOME	OME	0	0	0	4	4	4	**	**	NE VALENTINE	VTN	83	23	36	254	55	49	28	24	**
AZ FLAGSTAFF	FLG	8	-4	-10	18	-10	-36	**	**	NJ ELY	ELY	34	21	15	63	38	-2	**	**	
AZ PHOENIX	PHX	187	8	-34	2039	700	100	52	5	NJ LAS VEGAS	LAS	99	37	12	1386	358	63	35	5	**
AZ PRESCOTT	PRC	71	27	-10	300	149	1	99	0	NJ RENO	RNO	40	15	-2	200	130	7	**	**	
AZ TUCSON	TUS	148	1	-33	1376	375	119	37	9	NJ WINNEBUCCA	WMC	36	-1	-12	214	95	23	80	12	**
AZ WINSLOW	INW	99	16	21	585	56	-8	17	-2	NH CONCORD	CON	12	-17	-9	75	-7	11	**	**	
AZ YUMA	YUM	195	9	-30	1995	477	128	31	7	NJ ATLANTIC CITY	ACY	52	-2	9	309	102	-24	49	-7	
AR FORT SMITH	FSM	120	10	42	733	71	104	11	17	NM ALBUQUERQUE	ABQ	79	-12	3	339	-55	-46	-14	-12	
AR LITTLE ROCK	LRI	121	8	50	793	67	58	9	8	NM CLOVIS	CVS	104	22	40	438	46	110	12	34	
CA BAKERSFIELD	BFL	117	-6	-10	695	-68	-85	-9	-11	NM ROSWELL	ROW	97	-15	5	631	-75	14	-1	2	
CA EUREKA	EKA	0	0	0	0	0	-13	**	**	NY ALBANY	ALB	16	-20	-6	117	-12	30	-9	34	
CA FRESNO	FAT	128	31	-17	809	249	-63	50	-7	NY BINGHAMTON	BUM	7	-14	-11	79	2	0	**	**	
CA LOS ANGELES	LAX	41	17	-29	158	15	5	10	3	NY BUFFALO	BUF	18	-17	-10	104	-19	-3	-15	-3	
CA RED BLUFF	RBL	104	-4	-8	636	52	-160	9	-20	NY NEW YORK	LGA	54	-14	14	347	72	85	26	32	
CA SACRAMENTO	SAC	81	16	-14	648	19	-80	5	-18	NY ROCHESTER	ROC	12	-23	-10	98	-37	11	-27	13	
CA SAN DIEGO	SAN	52	21	-34	183	24	-54	15	-23	NY SYRACUSE	SYR	13	-19	-12	114	-12	25	-9	27	
CA SAN FRANCISCO	SFO	0	-3	-24	15	4	-47	**	**	NC ASHEVILLE	AVL	59	10	43	283	22	57	11	25	
CA STOCKTON	SCK	79	-1	-7	404	-12	3	-3	1	NC CAPE HATTERAS	HAT	94	3	13	554	115	-70	24	-11	
CO DENVER	DEN	94	45	53	255	82	66	47	35	NC CHARLOTTE	CLT	122	34	64	807	269	247	50	44	
CO GRAND JUNCTION	GJT	101	18	19	387	42	20	12	5	NC GREENSBORO	GSD	95	19	54	591	137	138	30	30	
CO PUEBLO	PUB	91	18	38	280	-14	14	-5	5	NC NEW BERN	EBN	115	20	19	707	105	-172	17	-20	
CT BRIDGEPORT	BDP	35	-12	14	174	22	50	14	40	NC RALEIGH DURHAM	RDU	104	23	54	653	183	141	39	28	
CT HARTFORD	HFD	32	-2	3	176	-4	76	-2	76	NC WILMINGTON	ILM	126	28	34	848	189	-63	28	-7	
DE WILMINGTON	DLG	55	-14	12	378	103	15	37	4	ND BISMARCK	BIS	27	-3	-6	140	32	69	30	97	
DC WASHINGTON	DCA	85	-4	24	545	121	87	27	18	ND FARGO	FAR	29	-6	9	191	60	100	46	110	
FL APALACHICOLA	AQC	124	12	21	962	-22	-17	-2	-2	ND GRAND FORKS	GFK	39	3	15	208	74	120	64	59	
FL DAYTONA BEACH	DAB	108	-2	-1	1011	-117	-260	-10	-20	ND WILLISTON	WSN	18	-15	-20	137	33	52	32	61	
FL FORT MEYER	FMY	124	5	-3	1585	41	-193	3	-11	OH AKRON-CANTON	CAK	19	-21	1	187	4	64	3	52	
FL JACKSONVILLE	JAX	125	15	26	1010	59	-100	6	-9	OH CLEVELAND	CLE	20	-20	6	182	13	45	8	33	
FL KEY WEST	KEY	193	0	-5	1964	-146	-229	-7	-10	OH COLUMBUS	CMH	30	-26	-9	310	40	99	15	47	
FL MIAMI	MIA	117	-2	2	1563	-216	-210	-12	-12	OH CINCINNATI	CVG	56	-8	-1	378	51	30	16	9	
FL ORLANDO	MCO	114	-3	1	1287	-124	-117	-9	-8	OH DAYTON	DAY	32	-31	-4	329	26	103	9	46	
FL TALLAHASSEE	TLH	112	0	13	930	-37	-118	-4	-11	OH TOLEDO	TOL	22	-22	-12	165	-24	-7	-13	-4	
FL TAMPA	TPA	128	9	5	1330	-50	-283	-4	-18	OH YOUNGSTOWN	YNG	15	-19	3	145	1	29	1	25	
FL WEST PALM BEACH	PBI	109	-7	-7	1534	-34	-113	-2	-7	OK OKLAHOMA CITY	OKC	131	23	52	725	103	115	17	19	
GA ATLANTA	ATL	107	16	38	805	210	106	35	15	OK TULSA	TUL	129	14	44	754	81	104	12	16	
GA AUGUSTA	AGS	129	24	30	895	197	-30	28	-3	OR ASTORIA	AST	0	0	0	2	2	-12	**	**	
GA MACON	MGN	127	15	25	986	138	58	16	6	OR BURNS	BBW	24	-2	5	128	63	79	**	**	
GA SAVANNAH	SAV	143	36	40	1111	239	35	27	3	OR MEDFORD	MFR	40	0	-6	303	171	109	130	56	
HI HILO-HAWAII	ITO	83	13	19	1749	350	593	25	51	OR PENDELTON	PDT	31	-18	-26	293	137	123	88	72	
HI HONOLULU-OAHI	HNL	115	10	6	2184	244	257	13	13	OR PORTLAND	PDX	12	-6	-23	138	80	35	**	**	
HI KAHULUI-HAUI	HKG	95	4	15	1716	49	263	3	18	OR SALEM	SLE	6	-6	-6	98	66	59	**	**	
HI LIHUE-HAWAII	LHI	101	10	2	1806	200	114	12	7	PA ALLENTOWN	ABE	31	-22	0	248	65	55	32	24	
ID BOISE	BOI	57	10	-27	379	227	169	149	80	PA ERIE	ERI	16	-11	-9	139	47	12	**	**	
ID LEWISTON	LWS	42	-5	-45	338	191	101	130	43	PA HARRISBURG	HRY	38	-29	-2	274	-21	-3	-7	-1	
ID POCATELLO	PIH	42	14	-4	155	79	48	**	**	PA PHILADELPHIA	PHL	67	-2	30	434	134	172	45	66	
IL CHICAGO	MDW	27	19	1	191	-24	4	-11	3	PA PITTSBURGH	PIT	21	-21	3	231	51	102	28	79	
IL MOLINE	MLI	48	-16	-8	332	33	-6	11	-2	PA SCRANTON	AVP	13	-27	0	175	25	70	17	47	
IL PEDIARIA	PIA	56	-10	11	373	55	82	17	28	RI PROVIDENCE	PVD	32	-7	13	159	42	41	36	35	
IL QUINCY	UIN	77	2	30	463	97	139	27	43	SC CHARLESTON	CHS	134	33	40	1029	246	32	28	3	
IL ROCKFORD	RFD	40	-9	3	230	7	5	3	2	SC COLUMBIA	CHS	133	28	48	933	170	116	22	14	
IL SPRINGFIELD	SPI	72	-5	28	494	83	145	20	42	SC FLORENCE	FLO	131	30	54	961	217	153	29	19	
IN EVANSVILLE	EVV	93	5	23	584	91	104	18	22	SC GREENVILLE	GSP	111	27	55	695	171	118	33	20	
IN FORT WAYNE	FWA	23	-30	-22	226	-25	-82	-10	-27	SD ABERDEEN	ABR	34	-8	11	176	19	46	12	35	
IN INDIANAPOLIS	IND	51	-14	-5	359	20	5	6	1	SD HURON	HON	46	-9	18	194	0	36	0	23	
IN SOUTH BEND	SNB	19	-29	-27	205	-19	-45	-8	-18	SD RAPID CITY	RAP	53	9	9	173	33	11	24	7	
IA DES MOINES	DSM	71	1	21</																

June Weather Summary

HIGHLIGHTS: Seasonal flow of moisture into the Southwest left the western part of that area drier than normal, but heavy thunderstorms dropped well above-normal precipitation from New Mexico along the eastern slopes of the Rockies. Above-normal precipitation also accumulated from the western end of the Corn Belt and the western Great Lakes, through the upper Ohio Valley and New York, to southern New England. Thunderstorms were frequent across central Texas and the lower Mississippi Valley. Hurricane Bonnie moved into southeastern Texas and spread heavy rain through eastern Texas, northern Louisiana, southern Arkansas, and then from north central Mississippi into western Tennessee. Precipitation was much less than normal from Alabama to New Jersey and to the Atlantic Coast. A few welcome showers fell along the coast, but inland areas remained very dry. Temperatures were cooler than normal in the Northeast and in the southern Rockies and western Texas.

FIRST WEEK...Most of the Nation experienced showers and thunderstorms. The area west of the Rockies saw only isolated showers, as did the central Great Lakes region and the interior East Coast States from central Maryland southward. Severe weather was prolific from the central and southern Great Plains and northeastward to southern New England. Some moderate showers fell in the northern Rockies and in Minnesota's Red River Valley. Temperatures were much warmer than normal in the northern Plateau region but quite cool from the Great Lakes through the Northeast.

SECOND WEEK...Thunderstorms were widespread from the Rocky Mountains through the east coast. Parts of the mid-Atlantic States, from western Maryland through most of Virginia into North Carolina, saw only isolated, light showers. Severe weather included moderate to heavy rain in much of the very dry parts of the Southeast. Moderate to heavy showers caused local flooding in parts of the High Plains in western South Dakota and Nebraska. Heavy showers also fell in the upper Ohio Valley and the Great Lakes region, and from northern Pennsylvania to western New York. Temperatures were warmer than normal in most areas, but it was cooler in the central and southern High Plains.

THIRD WEEK...Showers and thunderstorms were widespread in most of Eastern United States. However, the area from central Maryland and Virginia, through the interior of the Carolinas and the southern Appalachians, to central Georgia had little or no rain. Severe weather was widespread through much of Texas, parts of the central and northern Great Plains, and the upper Mississippi Valley. Heavy showers fell throughout the Great Lakes region, the Northeast, along the gulf coast, and through Florida. Temperatures were cool in the Northeast but much warmer than normal in parts of the central and northern Great Plains.

FOURTH WEEK...The seasonal flow of moisture into the Southwest brought thunderstorms to that area. Heavy thunderstorms developed throughout New Mexico, but the most intense storms were in the southeastern part of the State. These storms spread along a line from southeastern New Mexico to the Great Lakes. Showers were welcomed in eastern North Carolina, central South Carolina, and parts of Georgia, but much of the Southeast from Virginia to Alabama remained dry. Tropical Storm Bonnie developed in the Gulf of Mexico and intensified to hurricane strength on Thursday. Hurricane Bonnie went ashore in southeastern Texas and spread high winds, heavy rain, and intense thunderstorms all along the eastern Texas border. Remnants of the storm triggered heavy rain across southern Arkansas

and northern Louisiana and then spread into north central Mississippi. Temperatures were cooler than normal in the Northeast and much cooler in New Mexico and southwestern Texas.

Showers and thunderstorms were widely scattered in the Southwest during the last two days of the month. However, heavy thunderstorms were widespread from the western end of the Corn Belt to the upper Ohio Valley. Thunderstorms were scattered from the lower Mississippi Valley to New England. High temperatures in the upper nineties pushed northward through the Plains into Nebraska.

JUNE CROP PROGRESS

Dry weather persisted in the Southeast during most of June. The inadequate moisture hampered seeding, germination, and slowed growth but forced rapid maturity of small grains. Early in the month, dry weather came to the northern Great Plains which allowed farmers to catch up on seeding. The warm temperatures spurred crop development. The Corn Belt was wet the first half of the month but drier weather the second half pushed wheat harvest ahead of normal and slowed the spread of disease. However, small grain disease was widespread throughout most of the Corn Belt as the month ended.

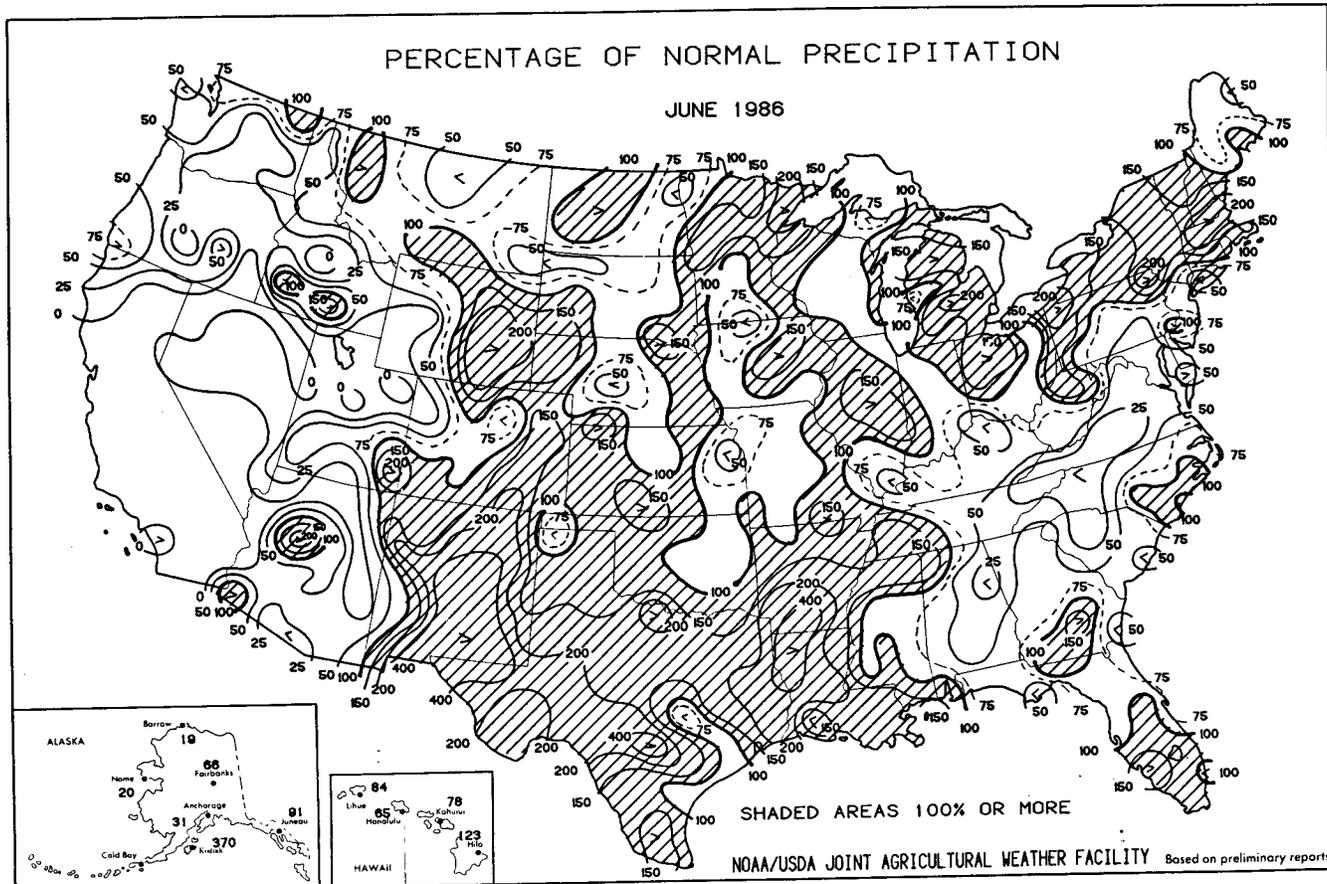
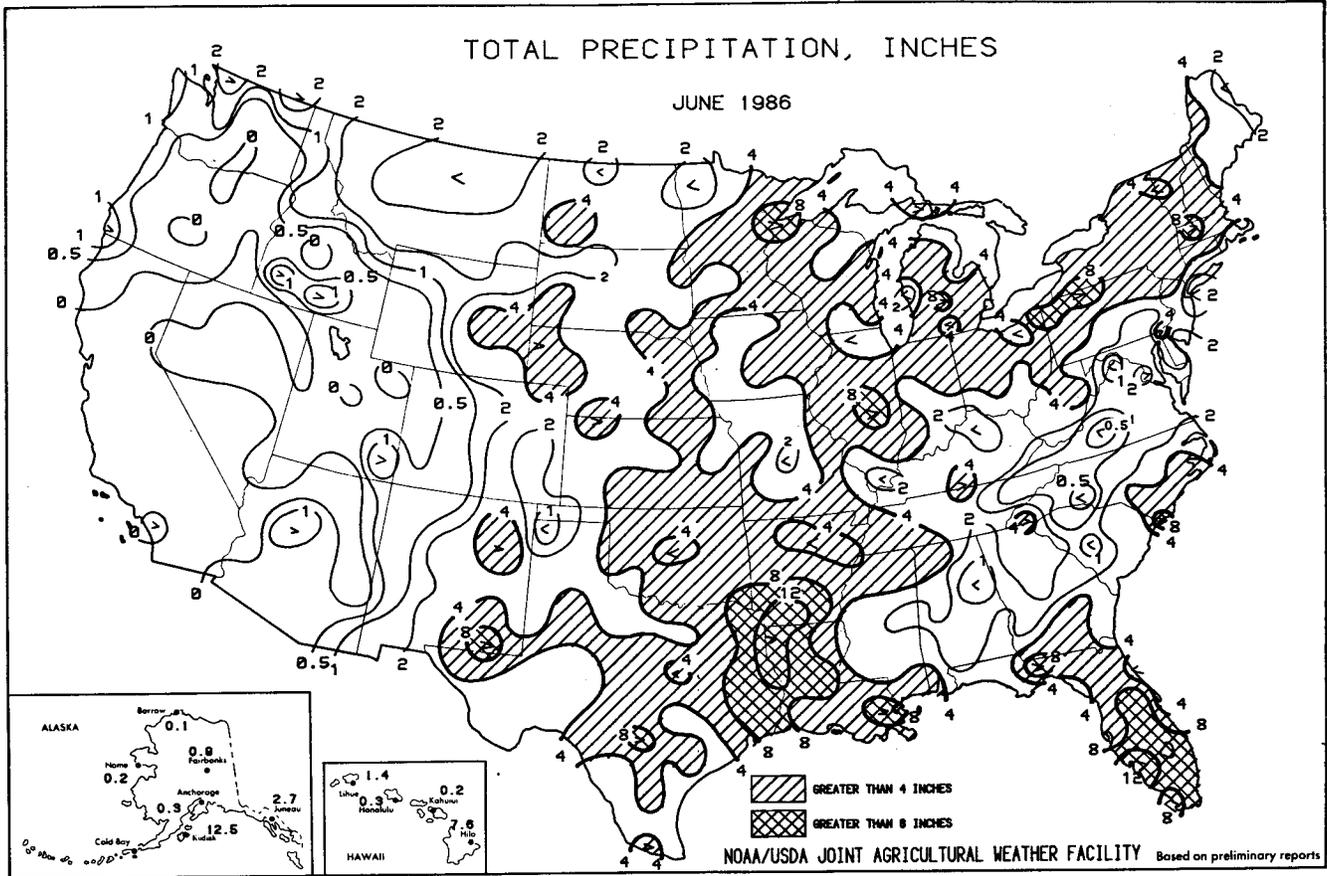
Corn planting was virtually complete by June 1. All major producing States were at least 92 percent seeded except Minnesota and South Dakota. Corn was 62 percent planted in South Dakota compared with 84 percent normally. By June 29, 5 percent of the corn acreage was silking, 3 points ahead of normal. Corn was silking in 7 of the major producing States and as far north as Illinois. At the end of June, corn was mostly good to fair in the Corn Belt and central and northern Great Plains. Crop conditions declined rapidly in the Southeast to mostly poor to fair. Hot, dry weather from the Appalachian States to Georgia stressed corn as it entered the critical pollination stage the last week of June. Corn development was further along in the Southeast. Sixty percent of Georgia's corn was in the dough stage and 18 percent had reached dent. In Texas, 11 percent was mature and in Louisiana, 6 percent was mature.

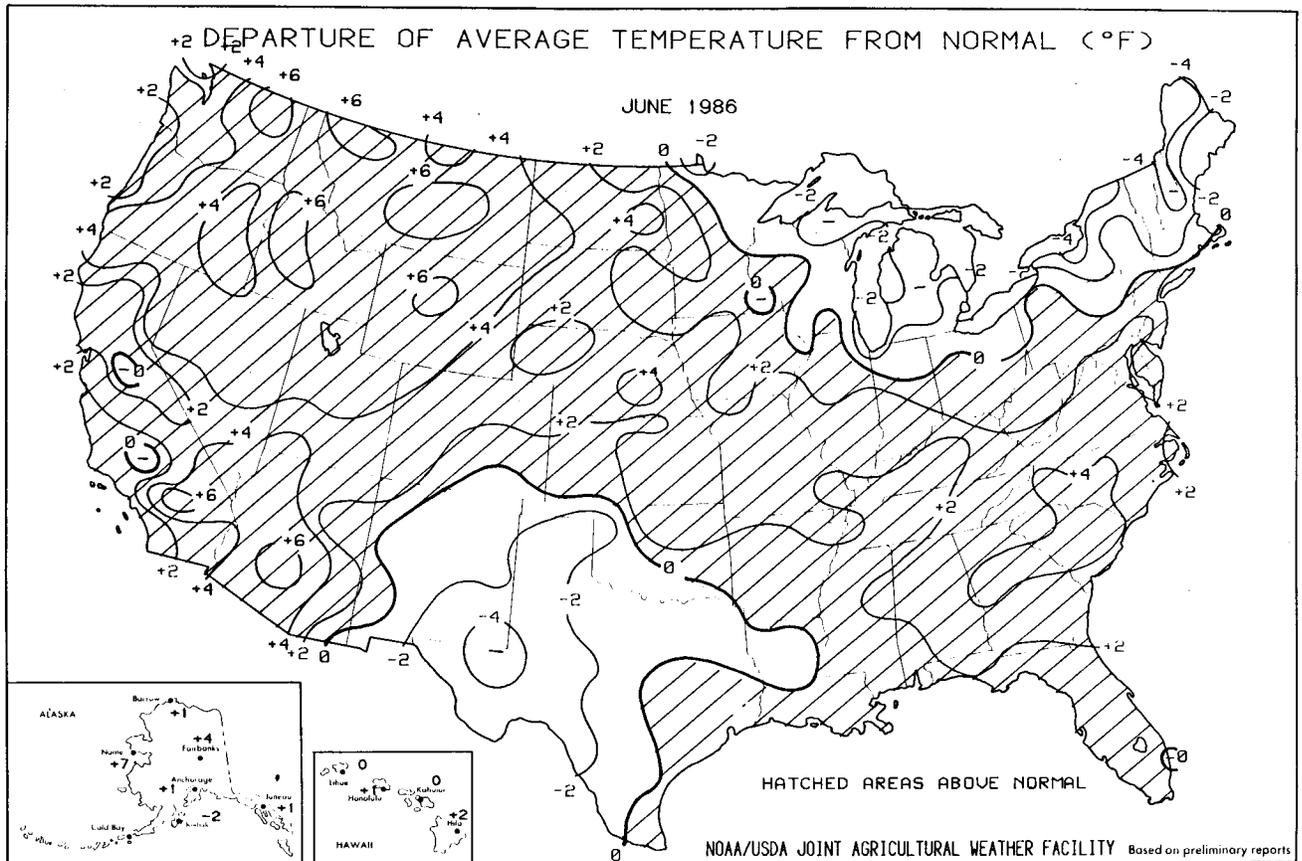
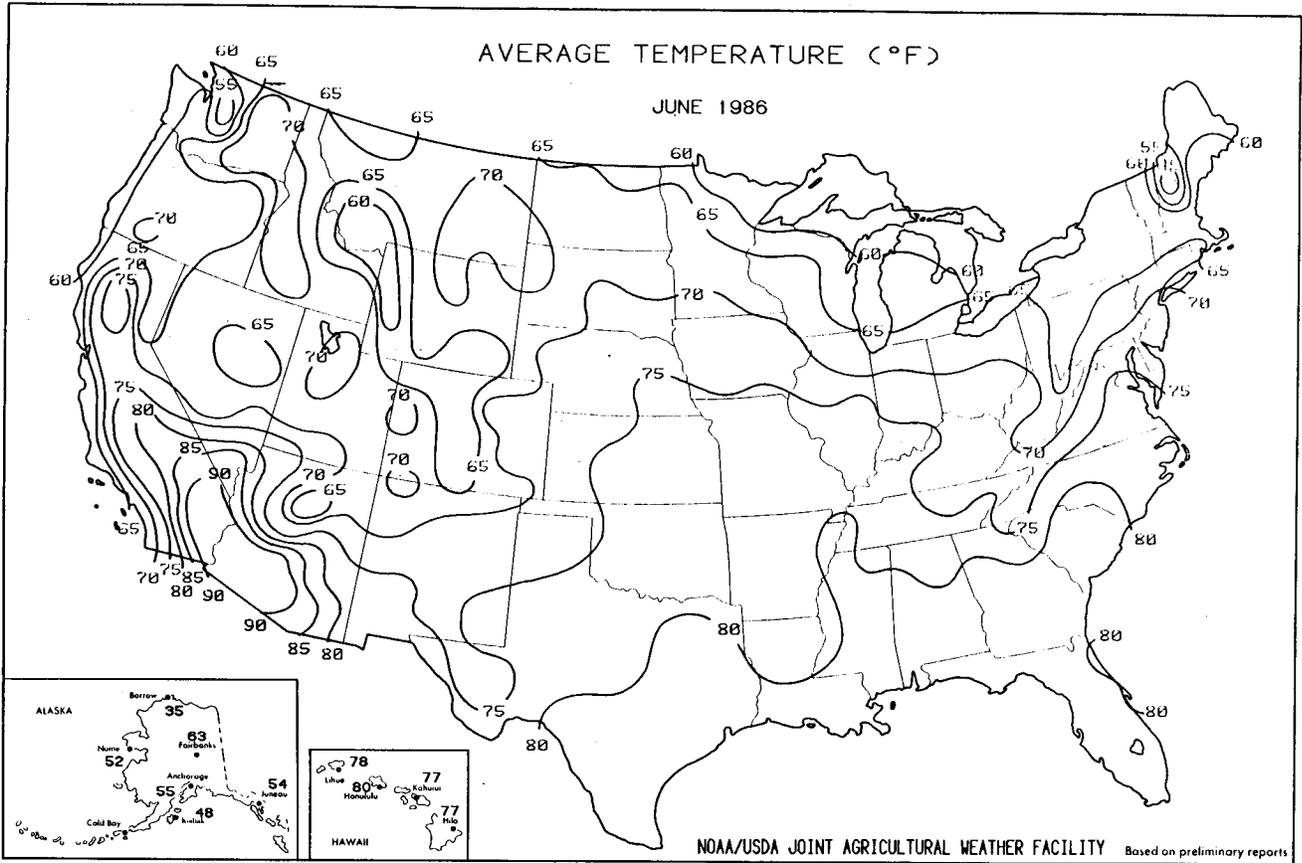
By the end of June, soybeans were mostly planted except in the Southeast. Dryness hampered planting, germination, and growth in the Southeast. Seeding lagged behind normal in Georgia, North Carolina, and South Carolina. Soybeans were blooming and setting pods in Illinois and blooming in Louisiana.

By mid-June cotton planting was finished in all States except Georgia, Oklahoma, Tennessee, and Texas. However, planting was virtually complete in Georgia and Tennessee. As June ended, planting was nearly finished in Texas but only 85 percent of Oklahoma's cotton acreage had been planted. In the major producing States, bolls were present on 9 percent of the acreage, equaling the average but 4 points behind last year. Forty-four percent of the cotton acreage was squaring compared with 38 percent normally.

In the 11 major producing States, sorghum was 95 percent planted by the end of June. This compares with 95 percent planted in 1985 and 92 percent normally. Sorghum was 58 percent headed and 4 percent harvested in Texas. Louisiana's sorghum was 55 percent headed.

(Continued to back cover)





Temperature and Precipitation Data for June 1986

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
AL BIRMINGHAM	79	2	1.5	-2.1	LA ALEXANDRIA	79	-2	8.0	4.1	COLUMBUS	70	0	5.5	1.5
MOBILE	81	0	7.5	2.5	BATON ROUGE	82	1	6.1	3.0	DAYTON	71	0	6.7	2.9
MONTGOMERY	81	2	1.3	-2.2	LAKE CHARLES	81	1	5.8	1.7	TOLEDO	66	-2	5.3	1.8
AK ANCHORAGE	55	0	0.3	-0.8	NEW ORLEANS	81	1	8.9	4.3	YOUNGSTOWN	65	-1	10.7	7.2
BARROW	35	1	0.1	-0.3	SHREVEPORT	80	0	14.7	11.2	OK OKLAHOMA CITY	79	2	3.1	-0.8
FAIRBANKS	63	4	0.9	-0.5	ME CARIBOU	57	-3	2.0	-1.2	TULSA	80	2	4.2	-0.3
JUNEAU	54	1	2.7	-0.3	PORTLAND	61	-1	3.9	0.9	OR ASTORIA	59	2	0.9	-1.5
KODIAK	48	-2	12.5	9.1	MD BALTIMORE	74	2	1.5	-2.3	BURNS	63	2	0.3	-0.3
NOME	52	7	0.2	-1.0	MA SALTSBURY	73	1	1.3	-2.2	MEDFORD	70	5	0.5	-0.2
AZ FLAGSTAFF	61	2	1.2	0.6	BOSTON	66	-2	7.7	4.8	PENDLETON	70	4	T	-0.7
PHOENIX	93	6	T	-0.2	CHATHAM	66	0	3.3	0.6	PORTLAND	66	4	0.2	-1.2
PRESCOTT	72	5	1.1	0.6	MI ALPENA	58	-3	3.4	0.2	SALEM	64	3	0.5	-0.7
TUCSON	87	4	0.1	-0.2	DETROIT	67	-1	5.8	2.4	PA ALLENTOWN	69	0	2.5	-0.9
WINSLOW	73	1	0.3	-0.1	FLINT	65	-1	5.1	1.9	ERIE	65	0	7.7	4.0
YUMA	91	4	0.1	0.1	GRAND RAPIDS	64	-3	7.1	3.3	HARRISBURG	71	0	1.5	-2.1
AR FORT SMITH	79	2	4.4	0.7	HOUGHTON LAKE	61	-2	5.4	2.3	PHILADELPHIA	74	2	2.0	-2.0
LITTLE ROCK	79	1	5.0	1.9	LANSING	64	-2	10.2	6.7	PITTSBURGH	68	0	5.2	1.9
CA BAKERSFIELD	78	-1	0.0	-0.1	MARQUETTE	56	-3	2.4	-1.4	SCRANTON	66	-2	6.8	3.4
EUREKA	59	4	0.2	-0.4	MUSKOGON	64	-1	1.8	-0.8	RI PROVIDENCE	66	-1	3.3	0.5
FRESNO	79	4	0.0	-0.1	SAULT STE. MARI	55	-3	5.1	1.8	SC CHARLESTON	81	4	2.5	-4.1
LOS ANGELES	66	1	0.0	0.0	MN ALEXANDRIA	68	3	3.8	-0.2	COLUMBIA	82	4	0.9	-3.6
RED BLUFF	77	1	0.0	-0.4	DULUTH	59	-1	8.0	4.1	FLORENCE	81	3	3.1	-1.5
SACRAMENTO	72	0	0.0	-0.1	INT'L FALLS	60	-1	3.7	0.0	GREENVILLE	79	4	0.9	-3.7
SAN DIEGO	67	1	0.0	-0.1	MINNEAPOLIS	69	1	5.3	1.3	SD ABERDEEN	68	2	2.5	-0.7
SAN FRANCISCO	63	2	0.0	-0.1	ROCHESTER	66	-1	5.0	0.9	HURON	69	1	2.5	-0.9
STOCKTON	73	0	0.0	-0.1	ST. CLOUD	65	0	4.0	-0.5	RAPID CITY	68	3	4.5	1.3
CO DENVER	70	3	1.1	-0.5	MS GREENWOOD	81	1	1.9	-1.4	SIOUX FALLS	70	1	3.9	0.2
GRAND JUNCTION	74	2	0.2	-0.3	JACKSON	80	1	3.9	0.9	TN CHATTANOOGA	78	3	1.6	-1.7
PUEBLO	71	0	2.2	1.0	MERIDIAN	80	1	2.2	-1.3	KNOXVILLE	77	3	0.7	-3.2
CT BRIDGEPORT	67	-1	3.2	0.3	COLUMBIA	76	3	2.0	-1.8	MEMPHIS	81	2	3.9	0.3
HARTFORD	66	-3	6.8	3.4	MO KANSAS CITY	77	3	2.5	-2.2	NASHVILLE	77	1	2.3	-1.4
DC WASHINGTON	77	2	1.3	-2.1	SAINT LOUIS	78	4	4.4	0.7	TX ABILENE	79	-1	4.4	1.9
FL APALACHICOLA	81	2	2.0	-2.8	SPRINGFIELD	76	2	3.2	-1.4	AMARILLO	73	-2	3.7	0.2
DAYTONA BEACH	80	1	3.4	-3.0	MT BILLINGS	70	6	2.1	0.1	AUSTIN	81	0	2.2	-0.9
FT. MYERS	82	2	13.9	5.2	BILGOW	69	6	1.6	-0.9	BEAUMONT	81	0	11.2	7.3
JACKSONVILLE	81	2	2.5	-2.9	GREAT FALLS	66	4	1.7	-1.1	BROWNSVILLE	83	1	3.8	1.1
KEY WEST	83	1	5.4	0.3	HAVRE	66	4	1.0	-1.1	CORPUS CHRISTI	82	-1	3.1	-0.3
MIAMI	81	0	9.1	-0.1	HELENA	66	6	1.6	-0.5	DEL RIO	81	-3	4.5	2.8
ORLANDO	82	0	9.5	2.2	KALISPELL	64	6	2.1	-0.2	EL PASO	78	-3	3.1	2.5
TALLAHASSEE	81	1	9.2	2.7	MILES CITY	72	6	2.1	-0.7	FORT WORTH	81	-1	3.9	1.3
TAMPA	82	1	4.9	-0.4	MISSOULA	66	6	2.7	0.8	GALVESTON	81	0	4.3	0.8
WEST PALM BEACH	81	0	9.8	1.9	NE GRAND ISLAND	75	4	3.1	-0.7	HOUSTON	82	1	6.3	2.3
GA ATLANTA	80	4	2.1	-1.3	LINCOLN	75	3	5.1	1.3	LUBBOCK	76	-2	4.9	2.1
AUGUSTA	81	4	1.4	-2.5	NORFOLK	73	2	5.3	1.0	MIDLAND	77	-3	3.5	2.0
MACON	82	3	2.2	-1.6	NORTH PLATTE	71	3	1.7	-2.0	SAN ANGELO	78	-3	3.2	1.4
SAVANNAH	82	4	3.1	-2.6	OMAHA	74	3	3.2	-1.0	SAN ANTONIO	81	-1	12.0	8.9
HI HILO	77	2	9.1	3.0	SCOTTSDUFF	70	2	5.6	2.7	VICTORIA	82	0	7.5	2.9
HONOLULU	80	1	0.4	-0.1	VALENTINE	70	2	2.2	-0.8	WACO	81	0	4.0	1.4
KAHULUI	77	0	0.8	0.5	NV ELKO	66	5	0.4	-0.5	WICHITA FALLS	80	-1	7.6	4.7
LIHUE	78	0	1.9	0.3	ELY	64	5	T	-0.8	UT BLANDING	69	2	1.0	0.6
ID BOISE	72	6	0.4	-0.6	LAS VEGAS	88	4	T	-0.1	CEDAR CITY	70	4	0.3	-0.2
LEWISTON	71	5	0.4	-1.0	RENO	68	5	0.3	0.0	MILFORD	69	3	0.3	-0.1
POCATELLO	67	5	0.3	-0.7	WINNEMUCCA	69	5	0.1	-0.8	SALT LAKE CITY	74	5	0.4	-0.5
IL CAIRO	79	1	2.7	-1.7	NH CONCORD	61	-4	5.0	2.0	VT BURLINGTON	62	-3	4.4	0.8
CHICAGO	66	-2	3.5	-0.6	NJ ATLANTIC CITY	70	1	2.4	-0.4	VA NORFOLK	76	2	1.5	-2.0
MOLINE	72	1	5.2	0.8	NM ALBUQUERQUE	73	-2	2.7	2.2	RICHMOND	76	2	1.3	-2.3
PEORIA	72	1	6.5	2.7	CLOVIS	74	0	3.2	0.6	ROANOKE	74	2	0.7	-2.7
QUINCY	75	2	5.1	1.1	ROSWELL	76	-3	5.1	4.2	WA COLVILLE	67	5	1.6	0.1
ROCKFORD	69	0	3.8	-0.8	NY ALBANY	64	-2	5.4	2.1	QUILLAYUTE	58	2	1.5	-1.6
SPRINGFIELD	75	2	6.2	2.5	BINGHAMTON	62	-2	4.8	1.2	SEATTLE-TACOMA	63	3	0.7	-0.7
IN EVANSVILLE	77	2	3.8	0.3	BUFFALO	64	-2	4.1	1.4	SPOKANE	67	5	0.5	-0.8
FORT WAYNE	69	-1	5.0	1.4	NEW YORK	71	0	1.5	-1.7	WALLA WALLA	73	5	0.4	-0.5
INDIANAPOLIS	73	1	3.6	-0.4	ROCHESTER	63	-4	4.2	1.4	YAKIMA	68	3	0.1	-0.5
SOUTH BEND	68	-1	5.0	1.1	SYRACUSE	64	-2	4.9	1.3	WV BECKLEY	68	2	2.2	-1.6
IA DES MOINES	73	2	7.1	2.9	NC ASHEVILLE	72	2	1.3	-2.9	CHARLESTON	72	1	2.4	-1.0
DUBUQUE	67	-1	5.7	1.5	CHARLOTTE	80	5	0.4	-3.2	ELKINS	65	0	7.8	3.4
SIOUX CITY	73	2	5.4	1.4	GREENSBORO	77	4	1.1	-2.8	HUNTINGTON	73	1	3.6	0.1
WATERLOO	70	1	7.1	2.8	HATTERAS	76	2	3.2	-1.1	PARKERSBURG	71	0	6.3	1.8
KS CONCORDIA	75	1	5.7	1.4	NEW BERN	78	2	4.5	-0.5	WI GREEN BAY	64	-1	4.1	0.9
DODGE CITY	75	1	4.7	1.7	RALEIGH	78	4	1.8	-1.8	LA CROSSE	69	1	4.0	-0.1
GOODLAND	72	2	3.8	1.1	WILMINGTON	79	3	5.6	0.0	MADISON	66	0	3.2	-0.7
TOPEKA	77	3	2.5	-2.6	ND BISMARCK	66	2	4.0	0.9	MILWAUKEE	63	-2	4.5	0.9
WICHITA	79	3	5.3	1.2	FARGO	67	2	4.0	0.9	WAUSAU	65	0	3.3	-0.6
KY BOWLING GREEN	74	0	2.2	-2.3	GRAND FORKS	68	4	1.1	-1.8	WY ASPER	68	5	4.1	2.8
JACKSON	74	3	2.2	-1.6	WILLISTON	67	3	2.2	-0.5	CHEYENNE	65	3	2.4	0.4
LEXINGTON	74	2	1.3	-3.0	OH AKRON-CANTON	67	-1	3.1	-0.2	LANDER	68	6	0.3	-1.2
LOUISVILLE	76	2	2.3	-1.3	CINCINNATI	73	1	1.5	-2.6	SHERIDAN	67	5	3.2	1.1
PADUCAH	77	2	1.5	-3.0	CLEVELAND	67	-1	3.0	-0.5	PR SAN JUAN	81	-1	1.5	-3.1

Based on 1951-80 normals.

Heating Degree Days (Base 65° F.)

June 1986

ALA. Birmingham	0	MAINE, Caribou	246	OKLA. Okla. City	0
Mobile	0	Portland	138	Tulsa	0
Montgomery	0	MD. Baltimore	6	OREG. Astoria	194
ALASKA, Anchorage	307	MASS. Boston	66	Burns	95
Barrow	-	Chatham	-	Medford	29
Fairbanks	-	MICH. Alpena	209	Pendleton	24
Nome	-	Detroit	48	Portland	43
ARIZ. Flagstaff	119	Flint	69	Salem	82
Phoenix	0	Grand Rapids	75	PA. Allentown	20
Tucson	0	Houghton Lake	149	Erie	74
Winslow	0	Lansing	77	Harrisburg	9
Yuma	0	Marquette	250	Philadelphia	6
ARK. Fort Smith	0	S. Ste. Marie	285	Pittsburgh	37
Little Rock	0	MINN. Duluth	196	Scranton	61
CALIF. Bakersfield	0	Internatl Falls	161	R.I. Providence	57
Eureka	169	Minneapolis	30	S.C. Charleston	0
Fresno	0	Rochester	60	Columbia	0
Los Angeles	7	St. Cloud	82	Greenville	0
Red Bluff	0	MISS. Jackson	0	S. DAK. Aberdeen	32
Stockton	0	Meridian	0	Huron	20
San Diego	0	MO. Columbia	0	Rapid City	35
San Francisco	78	Kansas City	0	Sioux Falls	17
COLO. Denver	22	St. Louis	0	TENN. Chattanooga	0
Grand Junction	3	Springfield	0	Knoxville	0
Pueblo	21	MONT. Billings	18	Memphis	0
CONN. Bridgeport	41	Glasgow	18	Nashville	0
Hartford	63	Great Falls	48	TEX. Abilene	0
D.C. Washington	3	Havre	39	Amarillo	0
FLA. Apalachicola	0	Helena	42	Austin	0
Ft. Myers	0	Kalispell	65	Beaumont	0
Jacksonville	0	Miles City	10	Brownsville	0
Key West	-	Missoula	53	Corpus Christi	0
Miami	0	NEBR. Grand Island	0	Del Rio	0
Orlando	0	Lincoln	0	El Paso	0
W. Palm Beach	0	Norfolk	3	Fort Worth	0
Tallahassee	0	North Platte	2	Galveston	0
Tampa	0	Omaha	1	Houston	0
GA. Atlanta	0	Valentine	20	Lubbock	0
Augusta	0	NEV. Ely	75	Midland	0
Macon	0	Las Vegas	0	San Angelo	0
Savannah	0	Reno	32	San Antonio	0
IDAHO, Boise	15	Winnemucca	40	Victoria	0
Lewiston	25	N.H. Concord	140	Waco	0
Pocatello	35	N.J. Atlantic City	25	Wichita Falls	0
ILL. Cairo	0	N. MEX. Albuquerque	8	UTAH, Milford	0
Chicago	74	N.Y. Albany	75	Salt Lake City	14
Moline	9	Binghamton	114	VT. Burlington	113
Peoria	7	Buffalo	80	VA. Lynchburg	2
Rockford	35	New York	12	Norfolk	1
Springfield	1	Rochester	100	Richmond	3
IND. Evansville	0	Syracuse	76	Roanoke	1
Fort Wayne	28	N.C. Asheville	2	WASH. Colville	52
Indianapolis	7	Charlotte	0	Quillayute	223
South Bend	46	Greensboro	0	Seattle-Tacoma	90
IOWA, Des Moines	2	Hatteras	0	Spokane	67
Dubuque	45	Raleigh	0	Walla Walla	10
Soux City	1	Wilmington	0	Yakima	45
KANS. Concordia	0	N. DAK. Bismarck	44	W. VA. Beckley	26
Dodge City	0	Fargo	45	Charleston	7
Goodland	9	Williston	36	Huntington	3
Topeka	0	OHIO. Akron-Canton	53	WIS. Green Bay	90
Wichita	0	Cincinnati	3	Madison	73
KY. Lexington	2	Cleveland	52	Milwaukee	128
Louisville	0	Columbus	19	WYO. Casper	37
LA. Baton Rouge	0	Dayton	15	Cheyenne	71
Lake Charles	0	Toledo	54	Lander	26
New Orleans	0	Youngstown	86	Sheridan	41
Shreveport	0				

Based on 1951-80 normals.

National Agricultural Summary

June 30 to July 6, 1986

HIGHLIGHTS: Rain across most of the eastern half of the Nation provided additional moisture and boosted crop development in most areas. Crops improved in the Southeast, but additional moisture is badly needed. Soil moisture was generally adequate throughout the northeast quadrant. Moisture was short in the Southeast and adequate to short in the Delta States. In some Rocky Mountain States, moisture began declining. Rain slowed fieldwork, but most farmers were able to work 3 to 5 days.

Wheat harvest advanced 11 points from last week despite rain. Harvest was 68 percent (%) complete, 20 points above the 5-year average. Harvest was virtually finished from Kansas through the Delta and southern Great Plains and in the Southeast. Spring wheat was 59% headed, compared with 74% last year and the 61% average. Corn was good to excellent in the Corn Belt and across the central Great Plains. Crop conditions improved in the Southeast. Silking was 13% finished, 8 points ahead of normal. Soybean planting neared completion. Mostly soybeans following wheat were left to be planted. Soybeans were 12% bloomed, 2 points ahead of last year and doubled the average. Sorghum was heading slightly ahead of normal. Cotton squaring equaled the average with 54% of the acreage forming squares. Fifteen percent of acreage was setting bolls, equaling the average. Rain improved cotton in the Southeast. Bolls were opening in Texas. Rice was 13% headed, 2 points below normal. Rice was not heading in Arkansas and California. Pastures were good except where moisture shortages existed. Livestock was mostly good.

SMALL GRAINS: Rain slowed wheat harvest in the eastern half of the Nation, but harvest increased 11 points from the previous week. Wheat was 68% harvested, compared with 65% last year and 48% normally. Winter wheat harvest neared completion from Kansas to the southern Great Plains and across the Delta and in the Southeast. Harvest was underway in Oregon and Washington but had not begun in Idaho, Montana, South Dakota, and Michigan. Producers harvested more than a fourth of Nebraska's wheat in 1 week. Harvest was 35% complete, 20 points ahead of schedule. Colorado's wheat harvest was 20 points higher than the previous week, and Missouri's was up 16 points. Harvest increased 15 points each in Illinois and Indiana. Heavy rain and wind gusts lodged wheat in Nebraska.

Spring wheat was mostly good to fair. Heading was 59% finished, 15 points behind 1985 and 2 points behind normal. Development ranged from 8 to 23 points behind 1985 and 15 points behind to 5 points ahead of the average in the 5 major producing States.

CORN: Moisture boosted corn condition in the major producing areas of the Nation. Corn was mostly good to excellent in the Corn Belt and across the central and northern Plains. Crop conditions were mostly good in the Delta States. Corn improved in the Southeast and was fair to poor. Moisture still remained short in the Southeast. Silking was 13% finished in 16 of the 17 major producing States, surpassing 1985 by 4 points and the average by 8 points. Corn was silking in 10 major producing States, and 9 were ahead of the normal pace. Corn was maturing rapidly in Georgia and Texas.

SOYBEANS: Soybeans were 98% planted, equaling last year but 1 point below average. Planting was lagging behind normal in most Southeastern States but equaled or exceeded the average in most States this week. Mostly soybeans following wheat were left to be planted. Soybeans were blooming in 18 of the 19 major producing States at 12% completion. Soybeans blooming doubled the average and was 2 points ahead of last year. Pods were forming in Illinois and Louisiana. Soybeans were mostly good except in the Southeast where conditions were fair.

SORGHUM: Sorghum was 21% headed, compared with 21% last year and the 20% average. Heading was limited mostly to the Delta and Southeast, but fields were heading in Illinois, Kansas, and Oklahoma. Nine percent of Texas' sorghum was harvested and 11% was turning color in Louisiana.

COTTON: Cotton was mostly good in the Delta and good to excellent in the western States. Crop conditions improved a little in the Southeast to mostly fair. In the 14 major producing States, squares were present on 54% of the acreage, slightly ahead of last year and equaling the average. Nine percent of the acreage was setting bolls, compared with 20% last year and 15% normally. In Oklahoma, cotton was not setting bolls. Hot, dry winds hurt cotton in southern Oklahoma. Cotton suffered from excessive moisture in the Blacklands and Trans-Pecos areas of Texas. In California, cotton progressed rapidly.

OTHER CROPS: Rice was 13% headed, 1 point ahead of 1985 but 2 points behind the average. Rice progressed well along the Upper Coast in Texas. Farmers applied topdressing and fertilizer in California.

Peanut planting increased in Texas, but planting was only 80% finished, 13 points behind normal. Stands were good with minor disease problems. Georgia peanuts were 75% bloomed and 39% pegged. The crop was fair to good.

Tobacco harvest was active in Florida. Harvest was 11% finished in Georgia, 4 points below normal. Tennessee tobacco was fair. Tobacco was fair to good in Kentucky.

FRUIT AND NUTS: Peach harvest began in New Jersey. New York peach set was heavy. Georgia peaches were 76% harvested, compared with the 63% average. Harvest was half finished in South Carolina. Peach harvest was 33 and 58% complete in Mississippi and North Carolina, respectively. Sweet cherry harvest gained momentum in New York and began in Michigan.

In Florida's citrus groves, new growth was abundant and new crop fruit progressed well. Valencia harvest slowed. Grapefruit movement was very slow and almost finished for the season. California Valencia harvest declined.

VEGETABLES: Vegetable harvest declined across the south but increased in the northern producing areas. Fall vegetable land preparation was underway in Texas. Artichokes, broccoli, cauliflower, celery, sweet corn, lettuce, and melons were harvested in California.

PASTURES AND LIVESTOCK: Pastures were mostly good except in the Southeast. Rain improved pastures a little, but conditions were poor to fair in the Southeast. Livestock was mostly good.

CROP PROGRESS

FOR WEEK ENDING JULY 6, 1986

**SOYBEANS
% PLANTED**

	1986	1985	AVG.
ALA	97	96	95
ARK	95	97	94
GA	94	97	92
ILL	100	100	100
IND	100	100	100
IOWA	100	100	100
KANS	98	90	85
KY	95	90	88
LA	98	99	97
MICH	100	100	100
MINN	99	99	99
MISS	93	97	92
MO	99	97	90
NEBR	100	100	100
N C	93	96	92
OHIO	100	100	99
S C	94	97	94
S DAK	95	100	100
TENN	98	94	94
19 STATES	98	98	97

THESE 19 STATES PRODUCED 96% OF THE 1985 SOYBEANS CROP.

**SOYBEANS
% BLOOM**

	1986	1985	AVG.
ALA	8	10	10
ARK	6	10	3
GA	6	17	7
ILL	39	18	15
IND	5	10	8
IOWA	5	14	7
KANS	15	10	5
KY	10	7	2
LA	16	10	10
MICH	1	2	3
MINN	1	5	3
MISS	9	7	6
MO	20	10	5
NEBR	9	8	5
N C	3	0	0
OHIO	0	4	0
S C	1	2	0
S DAK	7	7	7
TENN	5	6	6
19 STATES	12	10	6

THESE 19 STATES PRODUCED 96% OF THE 1985 SOYBEANS CROP.

**GRAIN SORGHUM
% HEADED**

	1986	1985	AVG.
ARK	37	NA	NA
ILL	5	0	0
KANS	1	0	0
LA	71	60	49
MISS	28	47	21
MO	0	0	0
NEBR	0	0	0
OKLA	5	5	5
S DAK	0	0	0
TENN	0	3	NA
TEX	60	61	62
11 STATES	21	NA	NA
EXCL. STATES WITH NA	21	21	20

THESE 11 STATES PRODUCED 94% OF THE 1985 GRAIN SORGHUM CROP.

**CORN
% SILKING**

	1986	1985	AVG.
COLO	0	0	0
GA	95	98	87
ILL	31	18	8
IND	9	5	1
IOWA	0	0	0
KANS	25	15	5
KY	43	30	22
MICH	0	1	0
MINN	0	0	0
MO	44	23	6
NEBR	6	3	1
N C	74	84	61
OHIO	5	6	0
PA	0	0	0
S DAK	0	0	1
TEX	72	72	NA
WIS	0	0	0
17 STATES	14	11	NA

EXCL. STATES WITH NA 13 9 5
THESE 17 STATES PRODUCED 93% OF THE 1985 CORN CROP.

**RICE
% HEADED**

	1986	1985	AVG.
ARK	0	0	1
CALIF	0	0	0
LA	34	37	33
MISS	2	15	7
TEX	44	27	60
5 STATES	13	12	15

THESE 5 STATES PRODUCED 97% OF THE 1985 RICE CROP.

**WINTER WHEAT
% HARVESTED**

	1986	1985	AVG.
ARK	95	97	97
CALIF	75	70	70
COLO	27	22	7
GA	99	99	96
IDAHO	0	0	0
ILL	85	72	62
IND	50	65	20
KANS	99	90	55
MICH	0	1	1
MO	93	82	52
MONT	0	0	0
NEBR	35	35	15
N MEX	95	NA	NA
N C	99	100	91
OHIO	10	26	10
OKLA	98	99	90
OREG	2	0	0
S DAK	0	1	1
TEX	97	98	85
WASH	1	0	0
20 STATES	68	NA	NA

EXCL. STATES WITH NA 68 65 48

THESE 20 STATES PRODUCED 91% OF THE 1985 WINTER WHEAT CROP.

**SPRING WHEAT
% HFADED**

	1986	1985	AVG.
IDAHO	56	64	71
MINN	62	84	76
MONT	55	55	50
N DAK	53	70	51
S DAK	77	100	84
5 STATES	59	74	61

THESE 5 STATES PRODUCED 95% OF THE 1985 SPRING WHEAT CROP.

**COTTON
% SQUARING**

	1986	1985	AVG.
ALA	89	94	78
ARIZ	97	98	96
ARK	94	90	79
CALIF	85	85	61
GA	74	95	83
LA	87	80	71
MISS	86	89	85
MO	73	80	67
N MEX	55	65	62
N C	80	82	61
OKLA	15	15	5
S C	82	96	91
TENN	80	70	70
TEX	23	20	35
14 STATES	54	53	54

THESE 14 STATES PRODUCED 100% OF THE 1985 COTTON CROP.

**COTTON
% SETTING BOLLS**

	1986	1985	AVG.
ALA	18	28	NA
ARIZ	75	65	60
ARK	24	34	14
CALIF	15	20	8
GA	18	52	33
LA	23	37	20
MISS	13	15	14
MO	11	1	3
N MEX	20	35	30
N C	12	24	17
OKLA	0	0	0
S C	46	65	53
TENN	5	5	4
TEX	10	13	13
14 STATES	15	20	NA
EXCL. STATES WITH NA	15	20	15

THESE 14 STATES PRODUCED 100% OF THE 1985 COTTON CROP.

WEEKLY CROP WEATHER CONDITION PERCENT REPORT
FOR WEEK ENDING JULY 6, 1986

WINTER WHEAT

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
ARK	0	19	31	50	0
COLO	4	10	27	48	11
GA	7	32	44	17	0
IDAHO	0	0	18	78	4
IND	NA	20	51	27	2
MICH	3	12	30	45	10
MONT	0	0	8	76	16
NEBR	0	3	29	51	17
N MEX	0	0	83	17	0
OHIO	0	5	59	35	1
OREG	0	0	60	40	0
S DAK	0	0	9	70	21
TEX	2	19	54	23	2
WASH	NA	5	20	75	0

SPRING WHEAT

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
IDAHO	0	4	25	67	4
MINN	0	2	29	62	7
MONT	0	1	32	65	2
N DAK	0	0	27	71	2
S DAK	0	0	18	65	17

RICE

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
ARK	0	0	22	68	10
CALIF	NA	0	0	75	25
LA	0	0	18	75	7
MISS	14	0	14	72	0
TEX	0	0	30	60	10

CORN

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
COLO	0	2	14	70	14
GA	11	24	50	14	1
ILL	0	0	4	33	63
IND	NA	1	18	66	15
IOWA	0	0	5	65	30
KANS	0	0	9	20	71
KY	0	2	28	63	7
MICH	3	12	20	45	20
MINN	0	6	17	61	16
MO	0	18	44	35	3
NEBR	0	1	7	57	35
N C	NA	41	35	24	0
OHIO	0	1	7	68	24
PA	1	5	28	52	14
S DAK	2	2	16	65	15
TEX	0	5	17	52	26
WISC	0	1	9	65	25

GRAIN SORGHUM

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
ARK	0	5	16	71	8
ILL	0	0	22	67	11
KANS	0	0	10	23	67
LA	0	0	33	62	5
MISS	0	0	28	65	7
MO	0	4	35	54	7
NEBR	0	0	17	62	21
OKLA	0	0	15	81	4
S DAK	0	0	12	79	9
TENN	0	3	42	54	1
TEX	0	0	23	61	16

COTTON

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
ALA	0	0	69	31	0
ARIZ	0	0	0	70	30
ARK	0	0	12	88	0
CALIF	NA	0	0	75	25
GA	0	17	53	30	0
LA	0	0	19	66	15
MISS	0	0	28	64	8
MO	0	13	74	13	0
N MEX	0	0	44	56	0
N C	NA	24	48	19	9
OKLA	0	0	50	50	0
S C	1	33	43	23	0
TENN	0	9	18	66	7
TEX	0	17	35	42	6

SOYBEANS

STATE	VERY-POOR	POOR	FAIR	GOOD	EXCELLENT
ALA	0	5	50	45	0
ARK	0	8	45	46	1
GA	2	23	58	17	0
ILL	0	0	12	55	33
IND	NA	0	28	62	10
IOWA	0	0	19	70	11
KANS	0	0	12	15	73
KY	0	5	29	65	1
LA	0	3	46	51	0
MICH	3	7	30	45	15
MINN	0	9	32	55	4
MISS	0	20	76	4	0
MO	0	2	27	65	6
NEBR	0	0	14	76	10
N C	NA	27	54	19	0
OHIO	2	1	20	69	8
S C	11	18	46	25	0
S DAK	5	0	17	65	13
TENN	0	3	55	41	1

NA - NOT ASKED

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: Temperatures averaged 1 to 2° above normal. Rainfall totals under 0.50 in.

Days suitable for fieldwork 5.5. Soil moisture 68% short, 32% adequate. Rain needed to improve crop conditions. Primary activities: Controlling insects on fruits and vegetables; spraying cotton; apply fungicides to peanuts; cultivating row crops; cutting hay and harvesting wheat; general care of livestock and poultry.

ALASKA: Rain midweek, although most areas continued dry. Temperatures ranged 5° below normal to 16° above normal. Precipitation ranged 1.82 in. wetter than normal to 2.27 in. drier than normal.

Days suitable for fieldwork 6.0. Topsoil moisture 62% short, 38% adequate. Subsoil moisture 26% short, 74% adequate. Oats, barley grain heights averaged 22 in. Barley for grain 33% poor, 31% fair, 21% good, 15% excellent. First cutting of hay 60% complete. Commercial vegetables and potatoes showed excellent growth on irrigated acreage; nonirrigated fields stressed due to hot, dry conditions.

ARIZONA: Monsoon beginning of week produced showers, thunderstorms. Most activity eastern two-thirds. Precipitation varied greatly. Weekly values between 0.50 to 1.50 in., except over 2.00 in. central basins, Mogollon Rim, White Mountains, Drier air 4th to 7th. Average temperatures from 3° below normal to 2° above.

Cotton development advanced. Central, southeast received rainfall; no damage reported. Bolls setting rapid pace, virtually all acreage squaring. Irrigations, insect controls continued. Isolated hot spots of pink bollworms, boll weevils, Texas Root Rot. Alfalfa cutting moderate to active. Good quality available, movement slow. Crop good to excellent. Corn good, tasseling central, denting west; late crop planted west. Sorghum good. Planting continued southeast, west. Safflower harvested. Sesame planting advanced. Sudan grass for hay developing. Small grains 99% harvested, 99% 1985. Grape, peaches harvested. Citrus groves good. Harvest of honeydews, cantaloups, sharply, crenshaws, watermelons advanced. Mixed vegetables shipped central valley. Potatoes dug central. Safford-Willcox district dry onion deal completed.

ARKANSAS: Hot, dry week with isolated showers. Temperature extremes 59°; 99°. Rainfall none to 2.36 in.

Days suitable for fieldwork 6.0. Soil moisture 38% short, 53% adequate, 9% surplus. Crop growth moderate. Major activities: Baling hay; planting soybeans; cultivating, irrigating crops; fertilizing rice, bermuda grass; controlling weeds. Squash, pea, watermelon, tomato, peach harvest active. Rainfall needed for soybean germination. Scouting rice diseases, European corn borer, sorghum midge. Fungicide, insecticide application to watermelon crop. Spraying livestock.

CALIFORNIA High aloft weakened as two cool troughs moved through Pacific northwest bringing cooler temperatures coastal sections, little effect inland areas. Precipitation 0.01 in. Alturas July 4th.

Wheat, barley harvest active. Most fields mature except northern districts. Fields being prepared for planting second crop; corn, beans. Rice stands good. Top dressing fertilizer. Cotton making

rapid progress. Early fields showed bloom. Early safflower started to mature. Early corn tasseled. Thinning sugarbeets. Blackeyes blooming, setting fruit. Alfalfa quality, yields good. Avocado, fig, nectarine, Clingstone peach, Freestone, peach, plum harvests active. Central valley Table Grape picking beginning -- 10 to 14 days ahead of normal. Valencia orange harvest slowed -- competition from stonefruits. Artichoke harvest peak, fairly light variable quality. Freezer strawberry harvest wind down south coast. Broccoli fairly heavy good quality Salinas; variable quality Santa Maria. Carrot moderate Salinas; good quality. Active digging Fresno, winding down Kings. Cauliflower fairly light variable quality; Santa Maria. Harvest finished Los Angeles, Orange County. Celery moderate good quality; Santa Maria. Light harvest Los Angeles, Orange County. Sweet corn harvest active Delta, Fresno, south coast; good quality. Cucumber for pickles harvest Madera. Lettuce fairly heavy variable weight, quality; Salinas. Cantaloup harvest started Westside, Tulare very good quality. First shipments watermelons Delta limited south coast; good quality. Melon harvest desert nearly finished except cantaloups, honeydews Blythe. Red, yellow onion digging Kern-Tulare, Westside, Delta, Kings; harvest winding down. Dehydrator onion harvest Westside. Summer potatoes harvested Kern-Tulare, growers defoliating Delta. Fall potato plantings Tulelake-Butte Valley good growth. Fresh market, processing tomato harvest continued central valley, south coast. Processing tomato harvest Sacramento Valley; start early varieties July 11. Summer feed, water supplies very good high ranges. Lower elevation dry, high fire danger. Movement livestock summer pastures neared completion. Beehives moved safflower fields.

COLORADO: Temperatures averaged 3° to 6° above normal. Precipitation totals averaged none to 0.47 in.

Days suitable for fieldwork 5.9. Soil moisture 4% very short, 68% short, 28% adequate. Winter wheat fair to mostly good. Sorghum planting mostly complete. Barley ripe 20%, 26% 1985, 9% avg. Livestock good; range, pasture fair to mostly good.

FLORIDA: Typical summer weather entire period; showers, thunderstorms almost any time, day or night, prevailed over State. Unofficial accumulations of rain exceeded 3.00 in. each day some locations.

Soil moisture adequate except dry pockets Panhandle, northern areas. Corn harvest for silage under way. Tobacco harvest active. Peanuts, soybeans good progress. Cotton good; early acreage squaring. Haymaking continued. Sugarcane good. Central, southwest coast grazing good, fair to poor elsewhere. Cattle varied poor to good depending generally on soil moisture, forage supplies. Rain welcomed several days, citrus areas. New growth abundant, new crop making good progress. Valencia harvest slowed, grapefruit movement very slow, almost complete for season. Caretakers very active all areas. Hot days, mild nights prevailed over vegetable producing areas. Temperature highs mid 90s, lows mid 60s. Shipments decreasing for all vegetables.

GEORGIA: Hot little rain except local areas. Rainfall mostly under 0.50 in. at almost all reporting stations but local amounts over 1.00 in.

few locations. Temperatures 1 to 3° above normal over most of State.

Days suitable for field work 5.9. Soil moisture 39% very short, 48% short, 13% adequate. Corn 66% dough, 84% 1985, 62% avg.; 35% dent, 50% 1985, 29% avg.; 8% mature, 15% 1985, 4% avg. Sorghum grain 2% very poor, 8% poor, 71% fair, 19% good; 95% planted, 97% 1985, 87% avg. Peanuts 10% poor, 55% fair, 35% good; 75% blooming, 94% 1985, 87% avg.; 39% pegging, 66% 1985, 56% avg. Tobacco 10% poor, 50% fair, 40% good; 11% harvested, 20% 1985, 15% avg. Watermelons 8% poor, 53% fair, 39% good; 56% harvested, 64% 1985, 35% avg. Apples 4% very poor, 17% poor, 55% fair, 24% good. Peaches 21% poor, 51% fair, 28% good; 76% harvested, 74% 1985, 63% avg. Pasture 14% very poor, 44% poor, 34% fair, 8% good. Hay 15% very poor, 43% poor, 39% fair, 3% good. Cattle 3% very poor, 16% poor, 56% fair, 25% good. Hogs 6% poor, 43% fair, 51% good. Main activities: Harvesting tobacco, peaches, watermelons; baling hay; spraying.

HAWAII: Conditions favorable. Most days hot, sunny, some light showers. Northeast winds 10 to 25 mph. Temperatures ranged upper 60s to lower 90s. Rainfall ranged none to 6.00 in.

Days suitable for fieldwork 7.0. Weather favorable for crop development, harvesting operations. Pineapple harvesting reaching seasonal peak. Sugarcane harvesting active. Truck crops fair to good, some vegetables seasonal decline. Fruit and nut orchards mostly good condition, soil moisture ample. Papaya output declined.

IDAHO: Above normal temperatures during week, high winds low temperatures 4th and 5th. Precipitation below normal.

Days suitable for fieldwork 7.0. Small grains maturing rapidly due to hot, dry conditions. Winter wheat good. Spring wheat good. Irrigation needs heavy. Potatoes developing well, may be slowed by frost on the 5th. Cutting of alfalfa hay active, 2nd cutting growth slow. Range and pastures dry, grazing adequate. Livestock good. Grasshopper, other insect infestation remains light.

ILLINOIS: Temperatures averaged 4° below normal to 1° above normal. Precipitation 0.17 to 2.94 in. lightest extreme south.

Days suitable for fieldwork 3.5. Soil moisture 17% short, 68% adequate, 15% surplus. Corn average height 65 in., 58 in. 1985, 47 in. avg. Soybeans blooming 39%, 18% 1985, 15% avg.; setting pods 10%, 4% 1985, 2% avg. Winter wheat ripe 98%, 97% 1985, 93% avg. Oats 13% fair, 61% good, 26% excellent; turning yellow 80%, 77% 1985, 54% avg; ripe 30%, 30% 1985, 16% avg.; harvested 10%, 8% 1985, 4% avg. Alfalfa 1% poor, 10% fair, 61% good, 28% excellent; alfalfa 2nd crop cut 50%, 51% 1985, 43% avg. Red clover 20% fair, 70% good, 10% excellent; red clover crop cut 85%, 96% 1985, 94% avg. Pasture 2% poor, 27% fair, 44% good, 27% excellent. Major farm activities: Harvesting wheat and hay, hoeing soybeans, mowing grass and weeds, repairing farm machinery.

INDIANA: Temperatures cooler than normal central and north, near normal south. Weekend highs in the 90s. Precipitation widespread, most reports 1.00 in. plus.

Fieldwork averaged 2.7 days. Topsoil moisture 3% short, 59% adequate, 38% surplus. Subsoil moisture 5% short, 68% adequate, 27% surplus. Widely scattered showers slowed fieldwork. Corn 56 in. high, 48 in. 1985, 39 in. avg. Corn fair to mostly good. Soybeans 11 in. tall, 12 in. 1985, 9 in. avg. Soybeans fair to mostly good. Wheat mostly fair to good, widespread disease problems affecting yields. Wheat harvest slowed by rain. Oats 3%

combined, 6% 1985, 2% avg. Clover 95% cut, 97% 1985, 92% avg. Pastures fair to mostly good.

IOWA: Early week rains ended 1st, 2nd followed by hot, humid weather 4th, 5th. Substantial weekend rains extending southwest to north central, south central to southeast.

Days suitable for fieldwork 3.3. Topsoil moisture 78% adequate, 22% surplus; subsoil moisture 85% adequate, 15% surplus. Oats 18% fair, 67% good, 15% excellent; oats headed 97%, 100% 1985, 94% avg.; oats turning color 50%, 80% 1985, 25% avg. Winter wheat mostly good to fair; 10% harvested, 24% 1985, 10% avg. Hay 2% poor, 13% fair, 54% good, 31% excellent. Second crop alfalfa harvested 15%, 38% 1985, 16% avg.; first crop clover harvested 82%, 100% 1985, 84% avg. Some corn borer problems, farmers spraying; corn cultivated first time 97%, 100% 1985, 92% avg.; corn tasseled 5%, 9% 1985, 3% avg.; avg. corn height 45 in. Some uneven soybean stands, root rot problems; soybeans cultivated first time 75%, 91% 1985, 84% avg. Livestock mostly good, no major disease problems. Pastures good to excellent.

KANSAS: Precipitation averaged 0.10 to 0.30 in. west central, northwest, 1.00 to 2.25 in. elsewhere. Local heavy rains of 5.00 to over 7.00 in. central and east. Temperatures averaged 79° east central, 80 to 82° elsewhere; 5° above normal northwest, 1 to 3° above normal elsewhere.

Days suitable for fieldwork 4.0. Topsoil moisture 11% short, 74% adequate, 15% surplus. Wheat harvest nearing completion, only few scattered fields left. Corn excellent growth, development, silking ahead schedule. Rains beneficial to dryland stands. Corn borer infestation light, scattered. Sorghum excellent growth, good moisture insure continued development. Some replanting necessary following heavy rains. Early fields heading. Soybeans growth, development ahead schedule, planting nearing completion. Range, pasture furnished good to excellent grazing all areas except southwest, west central. Second alfalfa hay cutting nearly complete. Third cutting started some areas. Good moisture will boost growth.

KENTUCKY: Hot temperatures early and again over weekend. Midweek saw pleasant temperatures and low humidity. Cold front crossed region July 1st, 2nd bringing substantial rain and a refreshing surge cooler and drier air. Rainfall amounts averaged an 1.00 in., but variable. High temperatures low to mid 90s; low readings mid 50s to lower 60s. Overall temperatures averaged near normal.

Days suitable fieldwork 4.4. Soil moisture 9% very short, 40% short, 51% adequate. Rain beneficial, most areas need more. Corn developing rapidly, generally good condition. Tobacco 10% 3 ft. or greater, over 50% under 2 ft. Tobacco 7% poor, 55% fair, 36% good, 2% excellent. Final double crop soybeans being planted as 92% wheat harvested. Pastures 5% very poor, 24% poor, 46% fair, 24% good, 1% excellent.

LOUISIANA: Temperature 1° below north to 10° above normal southwest. Temperature extremes 67°; 96°. Rainfall averaged none to 4.24 in.

Days suitable for fieldwork 3.6. Soil moisture 6% short, 55% adequate, 39% surplus. Corn good; 87% dough stage, 77% 1985, 67% avg.; 8% mature, 11% 1985, 16% avg. Sorghum 11% turning color, 8% 1985, 7% avg. Soybeans 94% emerged, 96% 1985, 94% avg. Sweetpotatoes fair to good; 99% planted, 99% 1985, 97% avg. Hay first cutting 94% complete, 98% 1985, 94% avg. Sugarcane, pasture, livestock good; vegetables fair to good. Main activities: Planting soybeans, baling hay, applying pesticides and herbicides.

MARYLAND & DELAWARE: Maryland: Temperature departures from normal ranged from near normal Northern Eastern shore and Southern counties west of bay; 2° above normal North Central; 1° above normal Lower Shore; and 2° below normal far West. Maximum temperatures high 80s to mid 90s. Lows ranged from mid 40s to high 50s. Precipitation averaged 0.96 in. ranging from 0.41 to 2.44 in.

Days suitable for fieldwork 6.5. Topsoil, subsoil moisture very short to short in spite of rains, except extreme west where topsoil, subsoil mostly adequate. Remaining small grains good. Wheat 79% harvested, 89% 1985, 55% avg. Rye 72% harvested, 85% 1985, 66% avg. Oat harvest continued in full swing as other small grains harvested. Field corn 14% silked. Soybeans 95% planted; 100% 1985, 96% avg. Soybeans 4% in bloom. Tobacco 96% planted, 100% 1985, 99% avg. Tobacco 3% bloomed. Green pea harvest 100% complete; sweet corn and tomato harvest 2 and 3% respectively. Cucumber and snap bean harvest continued full swing. Second cutting alfalfa hay 79% completed, 77% 1985, 54% avg. Third cutting alfalfa hay 2%. Other hay 36% cut twice, 60% last year, 29% avg.

Delaware: Temperature departures ranged from near normal to 3° below normal. Maximums high 80s to low 90s. Low temperatures low to mid 50s. Precipitation averaged 0.93 in., range 0.47 to 1.75 in.

Days suitable for fieldwork 6.5. Topsoil, subsoil moisture very short to short. Remaining small grains good. Wheat 85% harvested, 88% 1985, 64% avg. Rye 79% harvested 31% avg. Corn 14% silked in mostly fair condition. Soybeans still being planted but in poor to fair condition. Second cutting alfalfa hay 97% cut, 66% 1985, 62% avg. Second cutting other hay 90% completed, 44% 1985, 36% avg. Sweet corn 10% harvested, lima bean 10% harvested. Apple, peach crops fair to good condition.

MICHIGAN: Temperatures ranged 1 to 4° below normal. Temperature extremes 36°; 94°. Precipitation ranged from 0.10 to 2.40 in.

Days suitable for fieldwork 5.2. Soil moisture 5% short, 65% adequate, 30% surplus. Corn 3% very poor, 12% poor, 20% fair, 45% good, 20% excellent. Dry beans 98% planted, 100% 1985, 98% avg. Soybeans 3% very poor, 7% poor, 30% fair, 45% good, 15% excellent. Wheat 70% turning, 95% 1985, 65% avg.; 3% very poor, 12% poor, 30% fair, 45% good, 10% excellent. Major farm activities: Haying, cultivating, sidedressing. Strawberry harvest 95% done. Sweet cherry harvest began statewide.

MINNESOTA: Temperatures averaged 2° above normal. Temperature extremes 44°; 96°. Precipitation averaged near normal. Greatest weekly total 2.46 in.

Days suitable for fieldwork 4.9. Topsoil moisture 1% very short, 9% short, 74% adequate, 16% surplus. Hot and humid weeks end. Excellent crop growth. Spring wheat 62% heading, 84% 1985, 76% avg. Oats 82% heading 89% 1985, 82% avg. Barley 63% heading, 87% 1985, 81% avg. Field corn height 36 in., 32 in. 1985, 27 in. avg. Soybean height 10 in., 9 in. 1985, 9 in. avg.

MISSISSIPPI: Temperatures near normal, extremes 60°; 98°. Cool front moved in on 2nd. Greatest 24-hour total 1.30 in.

Days suitable for fieldwork 4.4, 6.0 1985, 5.1 avg. Soil moisture 15% short, 62% adequate, 23% surplus. Corn 3% poor, 10% fair, 74% good, 13% excellent; 78% silking, 77% 1985, 69% avg.; 46% dough stage, 47% 1985, 39% avg.; 17% dented; 3% mature. Wheat 96% harvested, 100% 1985, 93% avg. Sweetpotatoes 94% planted, 100% 1985. Peanuts 98% planted, 100% 1985, 100% avg. Watermelons 10% harvested, 28% 1985. Hay 42% harvested, 52% 1985,

52% avg. Peaches 33% harvested, 49% 1985, 45% avg. Corn silage 6% harvested, 2% 1985, 2% avg. Sorghum silage 4% harvested.

MISSOURI: Temperatures averaged 2° above normal, for the week and month. Rainfall averaged 1.75 in. across north, 0.50 in. over southern areas.

Days suitable for fieldwork 4.4. Soil moisture 34% short, 62% adequate, 4% surplus. Oats harvested 51%, 43% 1985, 23% avg. Alfalfa second cutting 63%, 66% 1985, 44% avg. Other hay cut 77%, 79% 1985, 70% avg. Pasture 4% poor, 53% fair, 38% good, 5% excellent. Double-crop soybeans planted 85%, 78% 1985, 61% avg.

MONTANA: Moderate to heavy rains across most of State. Central, northeast received most averaging over 1.33 in., north central received 0.75 in. Temperatures cool, but peaked mid 90s midweek, overall averaged 1 to 2° below normal.

Days suitable for fieldwork 5.5. Topsoil moisture 57% short, 40% adequate, 3% surplus. Crops in generally good to excellent condition. Winter wheat turning color 35%, 25% 1985, 20% avg.; spring wheat headed 55%, 55% 1985, 50% avg.; barley headed 50%, 50% 1985, 50% avg.; oats headed 45%, 50% 1985, 40% avg. First cutting alfalfa 80% harvested, 75% 1985, 55% avg.; wild hay 50% cut, 45% 1985, 25% avg. Grasshoppers causing considerable damage to crops many areas.

NEBRASKA: Over 1.00 in. east, none to 0.75 in. west. Temperatures above normal. Temperature extremes 51°; 102°.

Days suitable for fieldwork 3.8. Topsoil moisture 18% short, 61% adequate, 21% surplus. Subsoil moisture 12% short, 76% adequate, 12% surplus. Wheat good to fair. Wheat turning color 98%, 100% 1985, 91% avg. Heavy rains, wind gusts caused lodging wheat, small grains. Wheat ripe 75%, 70% 1985, 40% avg. Spotted harvest north, 60% harvested southern 3rd. Corn good to excellent. Corn tasseling southeast, south. Soybeans mostly good to fair. Sorghum mostly good to excellent. Alfalfa mostly good to fair. Second cutting 25%, 35% 1985, 20% avg. Pasture, range mostly adequate to surplus.

NEVADA: Temperatures continued above normal, no precipitation reported first half period. Widely scattered thunderstorms brought slight amounts rainfall northeast midweek. Unseasonably strong low pressure system near end of week produced no rain but temperatures did cool northern two-thirds. Main impact strong southwesterly winds gusting 40 or 50 mph most areas.

Ranges beginning to dry. Some stockwater shortages reported. Most crops good condition. Some 2nd cuttings alfalfa central areas.

NEW ENGLAND: Precipitation above normal, especially south. Averaged 1.50 to 2.00 in. south, 0.50 to 1.50 in. north. Temperatures upper 50° to low 60° north, mid to upper 60° central, south.

Days suitable for fieldwork 5.5. Soil moisture 64% adequate, 36% surplus. Fieldwork progress generally on schedule. Grazing availability 94% adequate, 6% surplus. Maine potato growth delayed on late planted varieties. Crop good. Field corn growth slow. Maine oat stands good, but growth behind normal. Hay growth good to excellent. First cutting ending. Shade tobacco harvest just started. Apples, peaches sizing well. Maine wild blueberries need more sunshine. Cranberry crop progressing very well. Major farm activities: Hilling potatoes, cultivating, sidedressing corn.

NEW JERSEY: Temperatures averaged below normal. Extremes 41°; 98°. Rainfall averaged 1.18 in. north, 1.42 in. central, 1.14 in. south. Heaviest 24-hour total 2.30 in. 1st, 2nd. Estimated soil moisture percent field capacity averaged 71% north,

56% central, 61% south. Four inch soil temperatures averaged 67° north, 71° central, 72° south.

Days suitable for fieldwork 6.0. Rainfall beneficial; hot weather drying soils. Movement summer vegetables increased. Early peach harvest light. Blueberry harvest continued; Bluecrop variety picked. Apples making good size. Small grain combining active. Hay curing good. Heat curled field corn. Pasture growth very limited.

NEW MEXICO: Average weekly temperatures 6° above normal northwest plateau, near normal elsewhere. Temperatures 43° northwestern plateau, western mountains to 97° northeastern plains, southern desert. Most areas received rain; 0.50 to 1.00 in. common south, northeast. Precipitation trace southern desert to 1.25 in. southeastern plains.

Days suitable for fieldwork 4.9. Soil moisture 21% short, 58% adequate, 21% surplus. Hail damage 83% none, 17% light. Alfalfa 36% fair, 64% good. Corn 20% fair, 80% good. Barley 20% fair, 80% good. Irrigated grain sorghum 14% fair, 86% good. Dryland grain sorghum 50% fair, 50% good. Pecans 100% good. Apples 33% fair, 67% good. Chile 33% fair, 67% good. Onions 100% good. Cattle 23% fair, 77% good. Sheep 11% fair, 89% good. Range 46% fair, 46% good, 8% excellent.

NEW YORK: Temperatures averaged 5 to 10° below normal. Rainfall heavy, amounts over 1.00 in. much of central and eastern parts of State, over 2.50 in. north, southeast.

Days suitable for fieldwork 4.5. Soil moisture adequate to surplus. Corn stands variable due to poor drainage from excessive recent rains. First cutting alfalfa hay 68% harvested, 71% 1985, 72% avg. Clover-timothy hay 55% harvested, 52% 1985, 54% avg. Grass silage 71% harvested, 84% 1985, 77% avg. Fruit crops good to excellent. Peach, pear set heavy. Sweet cherry harvest accelerated. Vegetable crops good to excellent. Pastures good.

NORTH CAROLINA: Temperatures averaged slightly above normal across State. Temperature extremes 51°; 99°. Precipitation ranged from 0.02 to 4.38 in. across State.

Days suitable for fieldwork 5.4. Soil moisture 34% very short, 40% short, 25% adequate, 1% surplus. Corn mostly poor to fair, silking. Cotton mostly fair, squaring, setting bolls. Soybean planting average, mostly fair to poor. Tobacco 8% poor, 62% fair, 28% good, 2% excellent. Peanuts 41% fair, 53% good, 6% excellent. Sorghum 92% planted, 94% 1985, 93% avg. Sweetpotatoes 63% fair, 33% good, 4% excellent. Irish potatoes harvested 63%, 67% 1985, 66% avg.; 6% poor, 61% fair, 33% good. Apples 36% poor, 43% fair, 21% good. Peaches harvested 58%, 47% 1984, 53% avg. Hay 57% poor, 34% fair, 7% good, 2% excellent. Truck crops 17% poor, 47% fair, 36% good. Pasture 60% poor, 27% fair, 13% good. Major farm activities: Cutting hay; planting soybeans, sorghum; irrigating crops; harvesting vegetables, peaches, small grains, Irish potatoes, sweet corn; shearing Christmas trees; tending livestock; topping, suckering tobacco; cultivating soybeans, tobacco; spraying soybeans, tobacco, peanuts; scouting cotton; mowing; general farm maintenance.

NORTH DAKOTA: Slightly cooler with showers, thunderstorms. Scattered hail mostly southwest, central. Temperatures near normal to 3° below; low 42° northeast 29th; high 96° south central 3rd. Average rainfall over 1 in.

Days suitable for fieldwork 6.1. Topsoil moisture normal levels; 6% very short, 28% short, 66% adequate. Much of small grain crop has reached the heading to flowering stage. Temperatures, soil moisture critical during this period. Foliar

diseases, insects isolated to local areas. Small grains mostly good. Hard red spring wheat heading and beyond 53%, 70% 1985, 51% avg.; durum wheat heading and beyond 37%, 51% 1985, 33% avg.; barley 70%, 80% 1985, 61% avg. Row crop development continued better than average; condition at least 88% good or better. Potatoes bloom or beyond 34%, 8% 1985, 11% avg.; dry beans bloom or beyond 7%, 1% 1985, 4% avg. Pasture growth continued mostly good.

OHIO: Average low temperatures near normal. Average high temperatures 2 to 6° below normal. Precipitation mostly 1.00 to 2.00 in.

Days suitable for fieldwork 3.0. Rains limited fieldwork to end of period. Soil moisture 3% short, 62% adequate, 35% surplus. Corn good; 14 leaves unfurled. Corn borers active north central. Soybeans good; some drowned in northwest. Winter wheat fair; harvest began again late week as crop dried. Oats good; maturing rapidly. Hay, pastures fair to good. Haying weather end of week. Tobacco, sugarbeets good.

OKLAHOMA: Temperatures averaged normal southwest to 4° above normal northeast. Precipitation averaged 0.01 in. south central to 0.99 in. southeast.

Days suitable for fieldwork 5.6. Topsoil moisture 10% short, 80% adequate, 10% surplus. Subsoil moisture 5% short, 95% adequate. Wheat 98% harvested, 99% 1985, 90% avg.; 60% ground plowed, 65% 1985, 40% avg. Crop quality better than last year. Sorghum 5% heading, 5% 1985, 5% avg. Cotton 15% squaring, 15% 1985, 5% avg.; none setting bolls, none 1985, none avg. Hot, dry winds hurt southern row crops. Grasshoppers in fields south central. Pastures good; surplus forage southwestern 3rd. Cattle good; marketings increased, prices slightly below last week.

OREGON: Week began with above normal temperatures, cooler than normal end of week. East below normal for week, west close to normal. Extremes 5° above normal Brookings, 7° below normal Enterprise. Several locations east noted temperatures below freezing, only Ontario reached 100°. Significant precipitation northern areas end of week. Over 1.50 in. Newport, 1.00 in. Salem. Light rainfall amounts southern areas.

Soil moisture 86% short, 14% adequate. Irrigated grains good, dryland stressed. Winter wheat harvest underway north central, 1 to 2 weeks early, some pinched kernels, light bushel weights. Barley harvest 8% complete. Late week rains stopped harvest, helped spring grains. Grass seed swathing all areas, harvesting early varieties. Crimson clover harvest continued Willamette Valley. Haying between cuttings 2nd, 3rd, high county, coastal 1st cutting. Spotty grasshopper damage. Peppermint looks good west. Field corn tasseling Hermiston. Cherry harvest begun Union County, elsewhere winding down. Freezer cherries remain The Dalles. Only high elevation strawberries remain. Caneberry harvest throughout Willamette Valley; isolated hail damage Multnomah County. Blueberry harvest underway. Cranberry bloom ending Coos County. Filbert worm spraying continued Willamette Valley. Thinning Bartletts, apples Hood River. Pear growers preparing 3rd cover spray Jackson County. Apricots ripe, peaches nearing harvest Hermiston. Watermelons 10 days from harvest. Vegetable crops good, cooler weather slowed growth some areas. Broccoli harvest for fresh, processing continued. Snap bean harvest 3 weeks off. Sweet corn growing well all areas. Onions developing well, a week from early harvest at Hermiston. Asparagus harvest complete. Potatoes closing rows. Livestock good to excellent. High elevation, irrigated pastures good. Late week rain helped all pastures. Grasshopper spray programs continued.

PENNSYLVANIA: Record breaking cold snap began night of 3rd into morning of 4th. Week ended on hot dry note with near record high temperatures. Average temperature 66°, 3° below normal. Temperature extremes 38°, 95°. Average precipitation 0.84 in., 0.04 in. below normal.

Days suitable for fieldwork 5.0. Soil moisture 58% short, 38% adequate, 4% surplus. Corn 1% very poor, 5% poor, 28% fair, 52% good, 14% excellent. Average corn height 34 in., 30 in. 1985, 25 in. avg. Soybeans 98% planted, 97% 1985, 95% avg. Soybean 1% very poor, 7% poor, 37% fair, 47% good, 8% excellent. Barley 21% turning yellow, 35% ripe, 44% harvested; 1985, 19% turning yellow, 26% ripe, 55% harvested. Wheat 5% headed, 42% turning yellow, 45% ripe, 8% harvested; 1985 12% headed, 38% turning yellow, 40% ripe, 10% harvested. Wheat 2% poor, 28% fair, 56% good, 14% excellent. Oats 43% heading, 53% turning yellow, 4% ripe; 1985 59% heading, 33% turning yellow, 8% ripe. Oat 1% very poor, 5% poor, 26% fair, 52% good, 16% excellent. First cutting alfalfa 94% complete; 1985 90%. Second cutting alfalfa 40% complete; 1985 28%. First cutting clover-timothy 89% complete; 1985 84%. Quality of hay good to fair. Feed from pastures below average to average. Activities for the week: making hay, haylage; clipping pastures; planting soybeans after small grains; spreading fertilizer; spraying corn, soybeans; harvesting wheat, barley, cherries, early peaches, vegetables.

PUERTO RICE: NO DATA AVAILABLE.

SOUTH CAROLINA: Temperatures 3 to 5° above normal. Warm temperatures, high humidity created dangerous conditions for livestock. Scattered, localized showers brought little relief.

Days available for fieldwork 5.6. Soil moisture 64% very short, 29% short, 7% adequate. Cotton planted 100%, 82% squaring, 96% 1985, 91% avg.; 46% setting bolls, 65% 1985, 53% avg.; 1% very poor, 33% poor, 43% fair, 23% good. Soybeans planted 94%, 97% 1985, 94% avg.; 1% blooming, 2% 1985, 11% very poor, 18% poor, 46% fair, 25% good. Tobacco fair to good; 69% topped, 79% 1985, 75% avg. Corn poor to fair: 91% silked, 96% 1985, 84% avg.; 43% dough stage, 56% 1985, 43% avg.; 6% mature, 11% 1985. Peanuts fair. Peaches fair, 50% harvested, 58% 1985, 41% avg. Pastures, hay poor to fair.

SOUTH DAKOTA: Average temperatures ranged 3° below northwest to 4° above normal southeast. Extremes 41°, 103°. Black Hills low 37°. Rainfall light north, 1.00 in. of more south.

Days suitable for fieldwork 5.0. Topsoil moisture mostly short to adequate; 3% critically short, 40% short, 46% adequate, 11% surplus. Corn borers reported on corn. Grasshoppers heavy in areas. Preparing for small grain harvest. Could use good rain Statewide. Range, pastures, livestock good to excellent. Feed, stockwater supplies adequate to surplus.

TENNESSEE: Cooler temperatures, rain statewide.

Days suitable for fieldwork 4.6. Soil moisture 19% very short, 42% short, 35% adequate, 4% surplus. Corn 50% tasseling, 50% 1985, 30% avg.; 10% dough, 10% 1985, 4% avg.; 1% very poor, 6% poor, 47% fair, 44% good, 2% excellent. Cotton 80% squaring, 70% 1985, 70% avg.; 5% setting bolls, 5% 1985, 4% avg.; 9% poor, 18% fair, 66% good, 7% excellent. Sorghum none headed, 3% 1985; 3% poor, 42% fair, 54% good, 1% excellent. Soybeans 98% planted, 94% 1985, 94% avg.; 5% blooming, 6% 1985, 6% avg.; 3% poor, 55% fair, 41% good, 1% excellent. Wheat 98% harvested, 96% 1985, 94% avg. Tobacco 4% very poor, 22% poor, 60% fair, 14% good. Cattle good. Pastures fair.

TEXAS: Frontal boundary drifted across western, northern sections first half week, thunderstorms west, Rolling Plains. Heaviest rains on 1st South Plains, Permian Basin reported 2.00 in. amounts. High pressure take over 3rd, nice hot weather occur Forth of July. Showers spotty over weekend, mainly Coastal Plains, west. Precipitation below normal east, south. Rainfall near, above normal. Lower Valley, Rio Grande Plains, south central no measurable rainfall. Temperatures near normal most areas. South Plains, Rolling Plains below normal temperatures, east, Blacklands, Northern High Plains above normal.

Crops: Summer weather returned to Central, southern portions last week. Fieldwork active. Harvesting grain sorghum continued South, south central regions yields good. Row crops good growth Blacklands, central areas; rain needed drying conditions occurring. Plains, Cross-Timbers open weather early week, rain showers midweek. Small grain harvesting about complete. Row crops these areas good, some late planting occurring. Ranges beginning to dry over central, southern portions. Livestock good. Small grain harvesting nearing completion many areas Plains. Yields average. Weeds causing harvesting problems. Harvesting winding down Northern Blacklands. Corn crop good majority State. Fields Blacklands maturing rapidly under hot conditions could use general rain. Crop maturing rapidly south, Rio Grande Valley. Doubling 63%, 58% 1985. Dented 48%, 43% 1985. Mature 15%, 4% 1985. Grain sorghum fields good many areas. Planting winding down Plains, Cross Timbers. Early fields experiencing some headworms. Crop maturing rapidly central, south harvesting making good progress Rio Grande Valley, Coastal Bend, Upper Coast. Yields good. Rain over Central areas, Blacklands would help. Planted 97%, 99% 1985, 99% avg. Turning color 50%, 37% 1985, 45% avg. Mature 27%, 15% 1985, 20% avg. Harvested 9%, 5% 1985, 7% avg. Cotton planting nearing completion Plains. Early fields good progress, later fields suffering from too much moisture. Some sidedressing nitrogen occurred. Bollworms increase Blacklands. Spraying bollworms active. Bolls opening rapidly south, Rio Grande Valley. Cotton beginning suffer from excessive rains Trans-Pecos. Planted 99%, 100% 1985, 100% avg. Open bolls 2%, 1% 1985, 1% avg. Rice fields good progress along Upper Coast. Fields heading good yield prospects. Some problems occurring from stinkbugs. Spraying weeds occurring. Turning color 9%, 1% 1985, 8% avg. Peanut planting increasing Cross Timbers, south. Older fields growing well. Stands good, minor weak, disease problems. Planted 80%, 99% 1985, 93% avg. Soybeans normal progress High Plains. Stands along Upper Coast suffering from excessive rain. Fields weedy. Planted 88%, 95% 1985, 91% avg.

Other Field Crops: Sunflowers 87% planted, 98% 1985, 90% avg. Oats 77% harvested, 95% 1985, 88% avg.

Commercial Vegetables: Rio Grande Valley, some light harvest minor vegetables. Land preparation fall planting continued. San Antonio-Winter Garden, watermelon harvest, light carrot harvest. East sweetpotatoes excellent growth. Harvesting of truck vegetables. High Plains onion harvest continued. Potato, cucumber harvest continued Knox-Haskell area. Some blight on potatoes. Trans-Pecos onion, cantaloup harvest delayed by rain. Some damage occurred onions. Light peach harvest continued. Pecans continued good progress; light crop expected. Aphids continued plague many groves. Second generation casebearers sprayed.

Range and Livestock: Ranges, pastures beginning show signs drying portions Central, south. Most other areas showing good growth. Haying operations active Blacklands, east. Hay fields remain uncut west, because of rain. Livestock good, market litter stronger.

UTAH: Temperatures 5 to 70 above normal. Precipitation none to very light west, south central, southeast.

Days suitable for fieldwork 6.8. Topsoil moisture 73% short, 27% adequate. Crop development one week ahead of normal. Winter wheat 93% turned, 62% 1985, 58% avg.; spring wheat 49% turned, 47% 1985, 30% avg.; barley 75% turned, 43% 1985, 42% avg.; oats 15% turned, 15% 1985, 8% avg.; corn height 27 in., 27 in. 1985, 22 in. avg.; alfalfa 2nd cutting underway, other hay harvest well along. Sweet cherry harvest complete, apricot and tart cherry harvest underway north; peach harvest beginning south. Apples fair; peaches good; pears good. Ranges good but need rain. Livestock good.

VIRGINIA: Wetter than previous period, but dry spell continued. Showers, variable temperatures first half; clear, cool second half. Temperatures averaged above normal. rainfall averaged 1.10 in, varied widely.

Days suitable for fieldwork 5.6. Soil moisture 81% short, 19% adequate. Modest help from rain, dry conditions returning. Corn poor, rain too late to help some areas. Corn 22% in silk, 37% 1985, 36% avg. Soybean planting pace picked up, 86% complete, 96% 1985, 93% avg.; poor to fair. Peanuts still good to excellent. Some spraying for leafspot. Flue-cured tobacco varies widely, poor to good. Irrigated fields good. Burley tobacco poor to good. Still transplanting some areas. Apples, peaches mostly good, may size small due to dry weather. Barley 98% harvested, 95% 1985, 95% avg. Wheat 86% harvested, 89% 1985, 84% avg. Pastures, hay very poor east, fair southwest. Many feeding hay, selling livestock due to inadequate pastures. Hay regrowth slow. Some counties seeking disaster designation.

WASHINGTON: Week began warm, dry across State. Midweek cool, scattered rain. Precipitation 0.01 to 1.10 in.; mostly extreme east, northwest.

Days suitable for fieldwork 6.5. Soil moisture 60% short, 40% adequate. Winter wheat, barley mostly good to fair; harvests just started. Rain slowed haying west. Berry harvests continued, apricots started. Cherry harvest on-going

Wenatchee area, nearly complete Yakima Valley. Range, pasture improved; 10% short, 90% adequate.

WEST VIRGINIA: Temperatures near normal statewide. Temperature extremes 42° Greenbank, 97° Williamson. Average temperature 70°. Precipitation above normal. Greatest amount 4.84 in. Charleston. Average precipitation 1.93 in.

Days suitable for fieldwork 2.8. Soil moisture short, 56% adequate, 24% surplus. Feed supplies 29% short, 71% adequate.

WISCONSIN: Temperatures averaged 69°, 2° below normal; low 30°, high 94°. Rainfall trace to 1.40 in. Thunderstorms, few tornadoes north.

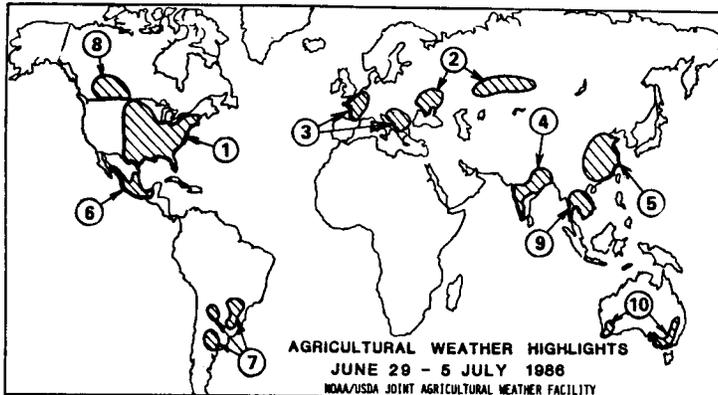
Days suitable for fieldwork 5.0. Soil moisture 21% short, 71% adequate, 8% surplus. Crops 1% very poor, 2% poor, 9% fair, 79% good, 9% excellent. Corn 1% poor, 9% fair, 65% good, 25% excellent. Humidity aided growth, average height 34 in. First cutting hay 91%, 96% 1985, 88% avg. Second cutting hay started 7%, 14% 1985, 7% avg. Oats 88% headed, 83% 1985, 69% avg. Oats short north; good to excellent central, south. Potatoes good condition. Snap bean planting underway, pea harvest progressing well.

WYOMING: Temperatures well above normal. Below normal precipitation all areas.

Days suitable for fieldwork 7.0. Topsoil moisture 59% short, 41% adequate. Winter wheat booted 5%, 5% 1985; headed 50%, 45% 1985; turning color 45%, 50% 1985. Barley not jointed 10%, 5% 1985; jointed not boot 5%, 5% 1985; boot 25%, 30% 1985; headed 50%, 55% 1985; 55% avg.; turning color 10%, 5% 1985. Spring wheat not jointed 5%, 5% 1985; jointed not boot 20%, 15% 1985; boot 25%, 30% 1985; headed 45%, 45% 1985, 50% avg.; turning color 5%, 5% 1985. Oats not jointed 5%, 5% 1985; jointed not boot 15%, 15% 1985; boot 25%, 40% 1985; headed 50%, 35% 1985, 35% avg.; turning color 5%, 5% 1985. Sugarbeets thinned 95%, 95% 1985. Alfalfa first cut 60%, 65% 1985, 50% avg. Other hays harvested 20%, 25% 1985, 15% avg. Hail damage none to light to most crops. Cattle, sheep mostly good. Ranges, pastures mostly good. Stock water supplies 5% short, 95% adequate.

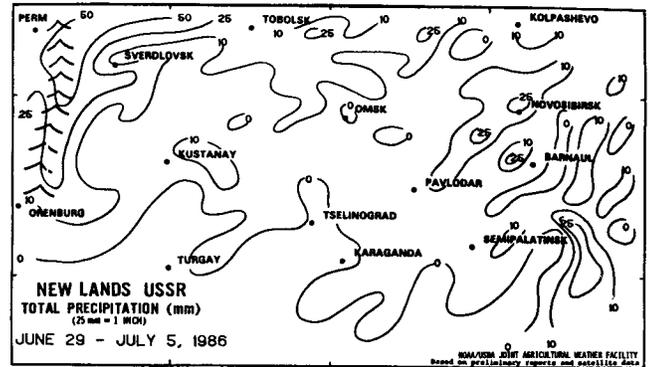
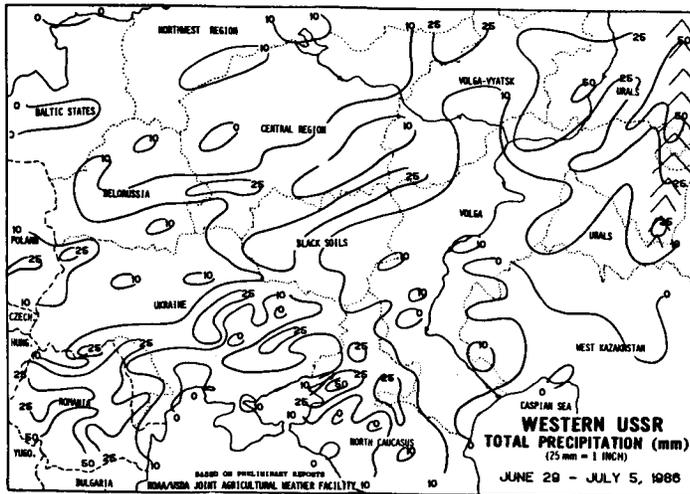
International Weather and Crop Summary

June 29 to July 5, 1986

MONTHLY DATA FROM SELECTED FOREIGN CITIES
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
*** = DATA NOT AVAILABLE**HIGHLIGHTS:**

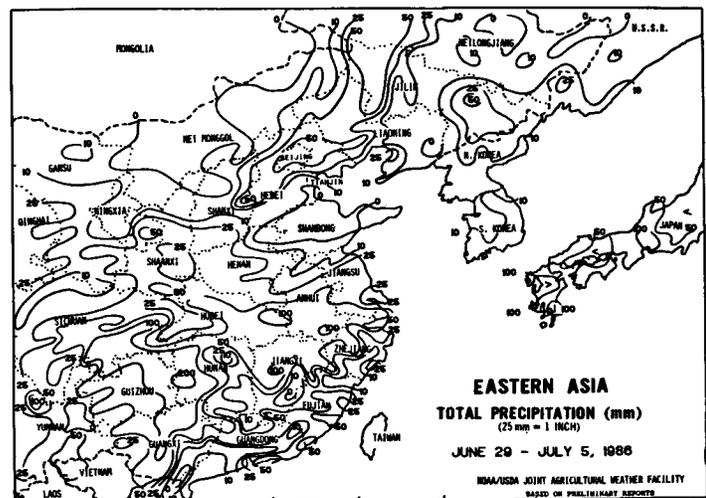
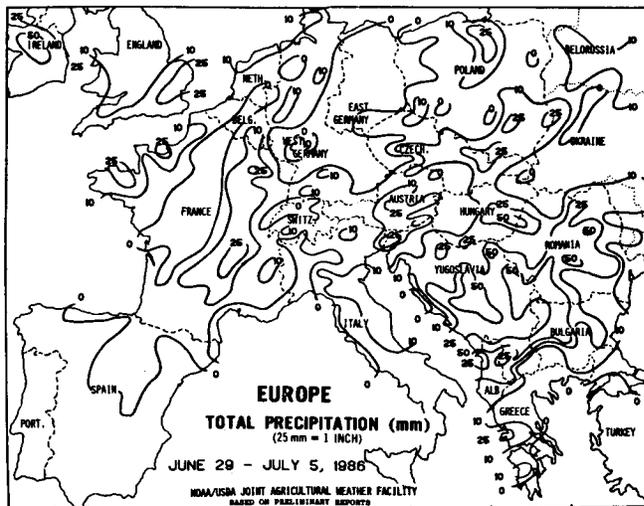
1. **UNITED STATES** ... Rain across most of the eastern half of the Nation provides moisture and boost crop development in most areas. Crops improve in the Southeast but need more moisture.
2. **U.S.S.R.** ... Light showers in parts of the eastern Ukraine and Black Soils Region favor spring grains in the filling stage. In the New Lands, a drying trend continued over much of the region, and rain is needed for spring grains entering the heading stage in the south.
3. **EUROPE** ... Unseasonably warm, dry weather in France stresses wheat in the filling stage and corn in the late vegetative stage. Rain in the southeast favors summer crops.
4. **SOUTH ASIA** ... Widespread monsoon rains favor crop development.
5. **EASTERN ASIA** ... Shower activity continues to increase over the region, except for crop areas in Shandong, which continue unfavorably dry.
6. **MEXICO** ... Showers promote crop development in the west and Southern Plateau corn belt while dry weather favors crop harvesting in the northeast.
7. **SOUTH AMERICA** ... Recent drier weather improves field conditions for wheat planting in southern Brazil. Dry, mild weather continues elsewhere. Moisture is limited in Argentina's southern wheat areas.
8. **CANADA** ... Timely showers and cooler weather favor crop development.
9. **SOUTHEAST ASIA** ... A relatively weak monsoon circulation continues over Southeast Asia, bringing only scattered light rain to the corn and rainfed rice regions of Thailand.
10. **AUSTRALIA** ... Rain in the eastern wheat belt of New South Wales and Queensland stimulates wheat planting.

COUNTRY CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
	AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM
NORWAY OSLO	21	9	30	4	15	1.2	31.7	-41.7
SWEDEN STOCKHOLM	21	11	30	4	16	0.0	35.2	-11.3
FINLND HELSINKI	22	11	30	2	16	1.4	33.8	-8.4
U KING GLASGOW	18	9	28	2	13	-0.9	44.0	-21.3
EDINBURGH	17	9	25	3	13	-0.4	59.0	13.1
BIRMINGHAM	20	9	28	2	15	0.5	37.6	-15.3
LONDON	21	10	30	3	15	1.1	31.2	-27.7
IRELND DUBLIN	17	10	22	4	14	0.3	81.3	28.5
ICELND REYKJAVIK	10	6	16	0	8	-0.9	65.7	18.2
DENMRK COPENHAGEN	19	11	27	7	15	-0.4	16.5	-30.5
LUXEMB LUXEMBOURG	21	12	30	4	17	0.9	50.2	-11.6
SWITZL ZURICH	21	11	29	4	16	0.6	95.0	-38.7
GENEVA	23	12	31	3	17	0.5	67.7	-22.9
FRANCE PARIS	24	12	32	7	18	1.7	33.6	-22.7
STRASBOURG	23	13	31	5	18	1.2	44.8	-29.9
BOURGES	24	13	36	4	18	1.3	16.1	-45.1
BORDEAUX	24	13	34	5	18	0.9	10.3	-54.2
TOULOUSE	24	14	34	6	19	0.8	18.0	-46.4
MARSEILLE	26	16	31	10	21	0.0	22.6	-9.0
SPAIN VALLADOLID	27	10	33	3	19	0.9	3.0	-36.3
MADRID	30	14	36	8	22	1.0	0.0	-26.1
SEVILLE	32	17	38	13	24	1.0	1.2	-14.1
E GRMY LEIPZIG	21	11	31	4	16	-0.3	60.0	-7.1
DRESDEN	21	12	31	5	16	-0.1	30.4	-37.6
W GRMY HAMBURG	21	10	30	5	16	0.1	65.1	-4.8
BERLIN	21	12	30	6	17	-0.8	77.9	1.7
DUSSELDORF	23	12	32	7	18	0.6	87.4	21.4
STUTTGART	21	12	29	4	17	0.3	111.8	18.0
NURNBERG	22	11	30	5	17	0.0	64.7	-9.0
MUNICH	20	10	28	1	15	-0.5	104.0	-31.0
AUSTRI VIENNA	23	12	29	4	17	-1.0	77.2	15.2
INNSBRUCK	23	10	30	3	17	0.2	69.8	-42.2
CZECH PRAGUE	21	10	30	3	16	-0.5	36.2	-42.3
POLAND WARSAW	22	11	30	7	17	-0.4	48.6	-15.6
LODZ	22	11	30	5	16	0.3	45.9	-23.2
KATOWICE	21	10	30	3	16	-0.2	68.1	-19.8
PRZEMYSL	21	12	29	7	17	-0.1	102.2	3.3
HUNGAR BUDAPEST	24	14	31	7	19	-0.3	66.2	-2.2
YUGOSL SARAJEVO	22	12	30	4	17	0.0	119.3	13.4
ROMANI BUCHAREST	26	15	31	10	21	0.3	110.9	23.1
BULGAR SOFIA	24	14	27	10	19	0.9	84.8	7.8
ITALY MILAN	26	16	31	7	21	0.1	54.7	-32.8
VERONA	27	17	33	7	22	0.9	178.2	99.6
VENICE	25	16	30	9	21	-0.3	67.2	-9.5
GENOA	24	18	29	11	21	-0.6	34.3	-14.7
ROME	25	14	30	8	19	-1.8	14.1	-7.3
NAPLES	27	16	34	9	21	0.5	19.4	-14.6
GREECE THESSALONIKA	29	18	33	14	23	-1.2	70.9	41.1
LARISSA	31	15	36	10	23	-1.9	41.2	14.7
ATHENS	29	21	32	17	25	-0.8	37.5	29.3
TURKEY ISTANBUL	27	18	31	14	22	1.8	26.6	2.6
ANKARA	24	9	28	3	17	-3.8	60.1	22.1
CYPRUS LARNACA	30	19	34	16	25	0.1	0.9	-4.2
USSR TALLINN	22	11	34	5	16	1.8	28.3	-17.7
LENINGRAD	22	13	29	8	17	1.9	19.8	-31.1
KAUNAS	21	12	29	6	17	0.3	65.8	-22.4
MINSK	22	13	30	6	18	1.0	53.0	-14.1
KAZAN	24	13	30	7	18	0.9	95.2	33.9
MOSCOW	23	14	31	9	19	1.8	105.4	37.5
SVERDLOVSK	21	9	28	-1	15	0.2	125.2	56.3
OMSK	20	10	31	0	15	-2.3	32.6	-23.8
KUSTANAY	24	12	38	2	18	-0.7	27.3	-9.8
KRASNOYARSK	21	9	29	2	15	-0.9	71.8	14.5
NOVOSIBIRSK	19	10	27	0	14	-2.0	46.0	-7.3
BARNAUL	20	10	28	2	15	-2.6	35.6	-11.5
KHABAROVSK	26	13	36	8	20	2.2	8.4	-69.3
VLADIVOSTOK	16	10	28	6	13	0.1	211.6	109.4
KIEV	24	14	31	6	19	0.4	84.0	21.1
LVOV	-21	12	30	-0	16	0.0	101.6	12.6
KIROVOGRAD	26	14	34	7	20	0.7	33.2	-18.3



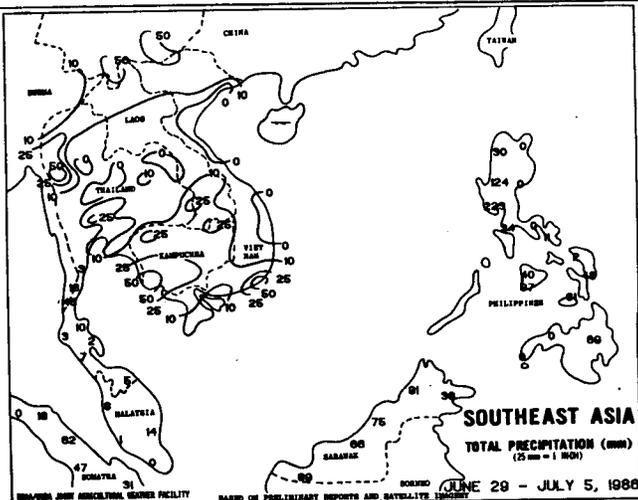
U.S.S.R. ... In Western U.S.S.R., light showers (10 to 25mm) spread northward from the central North Caucasus, through parts of the eastern Ukraine and the Black Soils Region, to the Volga Vyatsk Region. The rain in these areas was favorable for spring grains that were in the filling stage in the south and in reproduction in the north. Unfavorably dry weather continued to stress crops in the central Volga Valley and the southern Ukraine. Elsewhere, light showers in the western Ukraine, Belorussia, and the Central Region maintained generally adequate moisture conditions for crops. Weekly temperatures rose to above normal in the west but remained below normal in the east. Winter grains are likely maturing over much of the region, and several days of fair weather in the south aided early harvest activity.

In the New Lands, the second consecutive week of generally dry weather covered spring grains in southwestern and central crop areas. In addition, early-week maximum temperatures at many locations were around 35 degrees C, increasing crop moisture requirements and further reducing soil moisture supplies. By week's end, a cold front moved through the region, reducing heat stress but producing only limited rainfall. Spring grains are entering the heading stage in the south where timely showers and cool weather are needed to ensure favorable yield prospects.

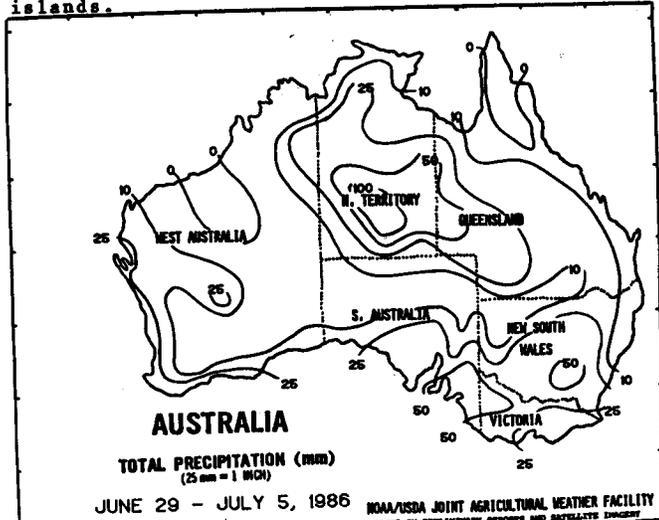


EUROPE ... Unseasonably warm, dry weather covered northern and western crop areas. In France, unseasonably warm, dry weather for the past 3 weeks has stressed winter wheat in reproduction and early grain filling. In southwestern France, corn is in the late vegetative stage, and timely rains will be needed in upcoming weeks as the crop advances through the most weather sensitive tasseling and silking stages. In England, widespread showers benefited crop growth. In southeastern Europe, widespread showers benefited spring grains in the filling stage and corn approaching reproduction. Dry weather in Mediterranean crop areas aided wheat harvesting.

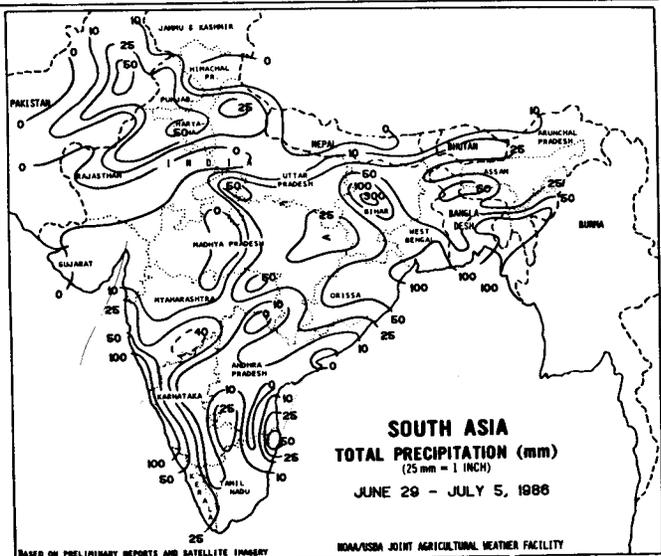
EASTERN ASIA ... Dry weather continued to cover Shandong, which was unfavorable for nonirrigated corn, soybeans, and cotton. Beneficial showers continued over North China Plain crops in Jiangsu, Anhui, Hubei, Henan, Hebei, and Beijing. The rain in these areas favored soybeans and cotton in the flowering stage and corn in the tasseling stage. Drier weather returned to corn and soybean areas in Heilongjiang, following last week's moderate rainfall. Abundant rains fell over intermediate rice in the Yangtze Valley, favoring the crop entering the heading stage. After last week's heavy rain, drier weather in Korea was welcomed.



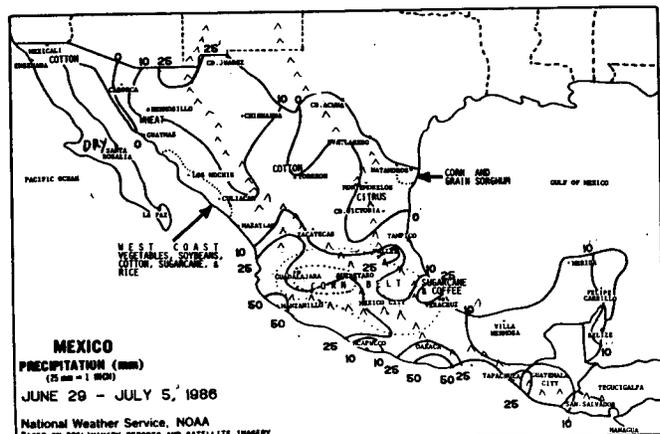
SOUTHEAST ASIA ... A weak monsoon circulation continued over Southeast Asia bringing only light rain (less than 10mm) to central and eastern Thailand. More rain is needed to promote vegetative growth of corn in central Thailand and maintain moisture in the rainfed rice areas of the east. Heavier amounts (10 to 25mm) fell in the areas north of Bangkok and along the Kampuchean border favoring rainfed rice. Moderate rain (10 to 60mm) fell over most of Kampuchea and southern Vietnam, and in the region extending from northern Vietnam into Burma. Mostly light rain (1 to 10mm) fell in central portions of Laos and Vietnam. In the Philippines, minimal rain (less than 10mm) fell in eastern Luzon while heavier rain (29 to 121mm) fell in the west and southwest regions of the island, benefiting rice. Moderate showers (10 to 69mm) covered most of the southern islands.



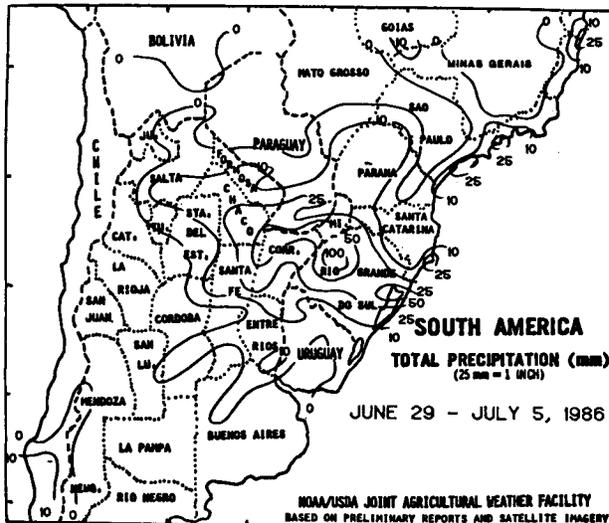
AUSTRALIA ... Beneficial showers (11 to 53mm) fell in the eastern wheat regions of New South Wales and Queensland, bringing some much needed relief to drought stricken areas. The rain should promote wheat planting, which is behind schedule due to the serious moisture deficiency in the east. Only about 50 percent of the wheat crop in New South Wales, the leading producing state, was planted in late June. More rain is needed for crop emergence and establishment in the upcoming weeks. Elsewhere, moderate showers (25 to 60mm) fell in the wheat regions of South Australia and Victoria while lighter amounts (3 to 25mm) fell in the previously wet wheat region of Western Australia, the second largest producing state. Adequate moisture is available in the south and west for vegetative growth.



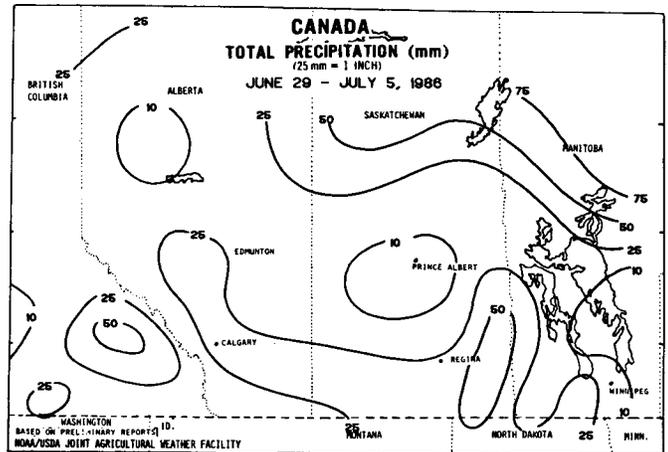
SOUTH ASIA ... Monsoon rains continued over India, but weekly totals slackened somewhat from the previous week's heavy downpours over Orissa and eastern Madhya Pradesh. Heavy showers continued along the west coast, but amounts were also less than the previous week. In contrast, heavier rain fell over West Bengal and Bihar States, and Bangladesh. Shower activity increased over Tamil Nadu and Andhra Pradesh in the south. In recent weeks, the monsoon has provided abundant moisture in the east for rainfed rice. This week's showers helped cotton planting in the south. In the northwest, drier weather returned this week following the previous week's heavy showers in eastern Gujarat. The recent moisture helped groundnut planting in the west. Moderate showers (25 to 60mm) fell in Punjab and northern Pakistan.



MEXICO ... Some rain occurred over most of the country. Weekly rainfall averaged 10 to 50mm over much of the Southern Plateau corn belt. Shower activity was highly variable across the region with some rain falling nearly daily at various locations. While generally below normal for early July, the rain helped Plateau corn growth. Showers increased along the west coast farming region and continued in the mountain watersheds and north-central rangelands favoring agricultural activities. Dry weather in the northeast promoted cereal and vegetable harvesting. Mostly light rain (10mm or less) fell in southern Mexico where corn planting is likely underway.



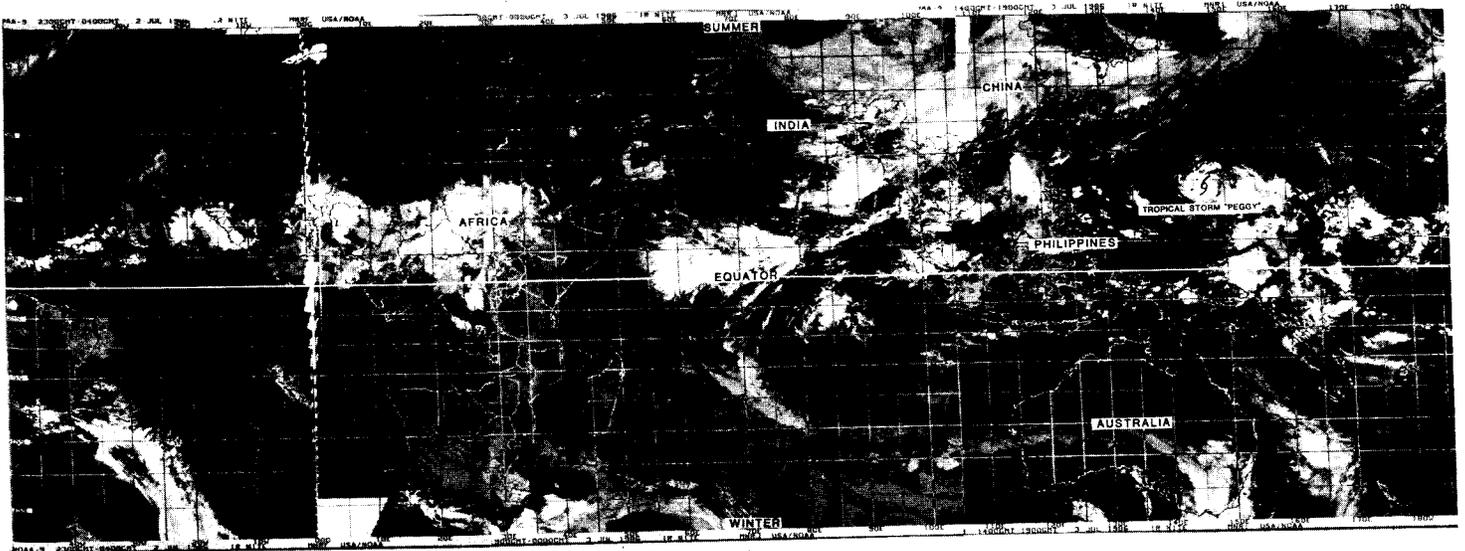
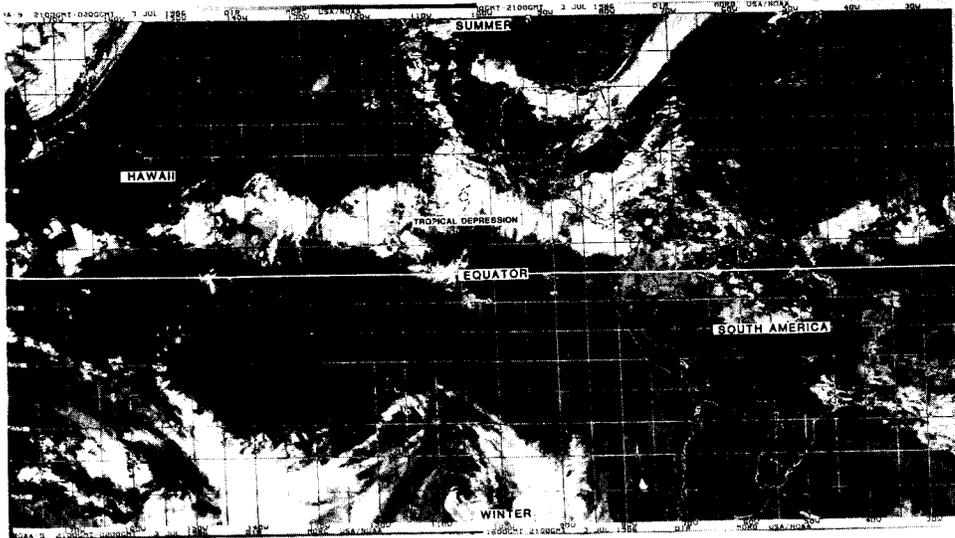
SOUTH AMERICA ... Wet weather early in the week continued to soak Rio Grande do Sul, Brazil and extreme northeastern Argentina while the remainder of the region was mostly dry. Showers in Parana, Brazil's other major wheat-producing state, favored wheat development, but wetness in the south likely delayed late crop planting. Drier weather moved into southern Brazil during the latter half of the week improving field conditions. Mostly dry weather covered Argentina's major wheat growing areas. Significant rain (10 to 50mm) fell in northern Santa Fe and Chaco, but only 1 to 5mm fell over southern Cordoba, southern Santa Fe, and isolated areas of Buenos Aires. No rain fell in La Pampa and most of Buenos Aires where moisture is limited for wheat planting. Mild weather continued over the entire region.



CANADA ... Timely rain fell over the Prairie grain belt. The moisture was most beneficial across southern crop areas where 20 to 50mm of rain helped wheat growth. Rainfall averaged 10 to 20mm across the north, except in central Saskatchewan where less than 10mm fell. While grains and oilseeds are mostly in vegetative growth phases in early July, rapid advancement into the reproductive cycle will occur during the next few weeks. The recent showers and cooler weather favored crops entering the highly vulnerable heading and flowering stages. Earlier hot weather stressed crops with limited moisture reserves. Weekly temperatures averaged 1 to 2 degrees below normal reducing the moisture loss through evapotranspiration. Crops are generally fair to mostly good with marginally adequate moisture for late vegetative growth.

Global Weather Satellite Image

JULY 3, 1986



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(Continued from p. 12)

On June 29, rice was 8 percent headed, 2 points below the average. Heading was limited to Louisiana and Texas. Normally, rice would be heading in Mississippi by June 29. High winds and heavy rain caused some lodging in Texas the last week of June.

Winter wheat harvest soared the last two weeks of June, going from 16 percent harvested on June 15 to 57 percent harvested on June 29. Harvest neared completion in most southeastern States and in the Delta to Oklahoma. Kansas wheat was 85 percent harvested, more than 4 times greater than normal. Harvest, at 9 percent finished, was just underway in Nebraska. Harvest was nearly 3 times greater than normal in Illinois. Wetness caused widespread disease problems in Indiana, Ohio, and Michigan. Spring wheat was 33 percent headed compared with 49 percent in 1985 and the 37 percent average. Heading was behind normal in all States except North Dakota.

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