

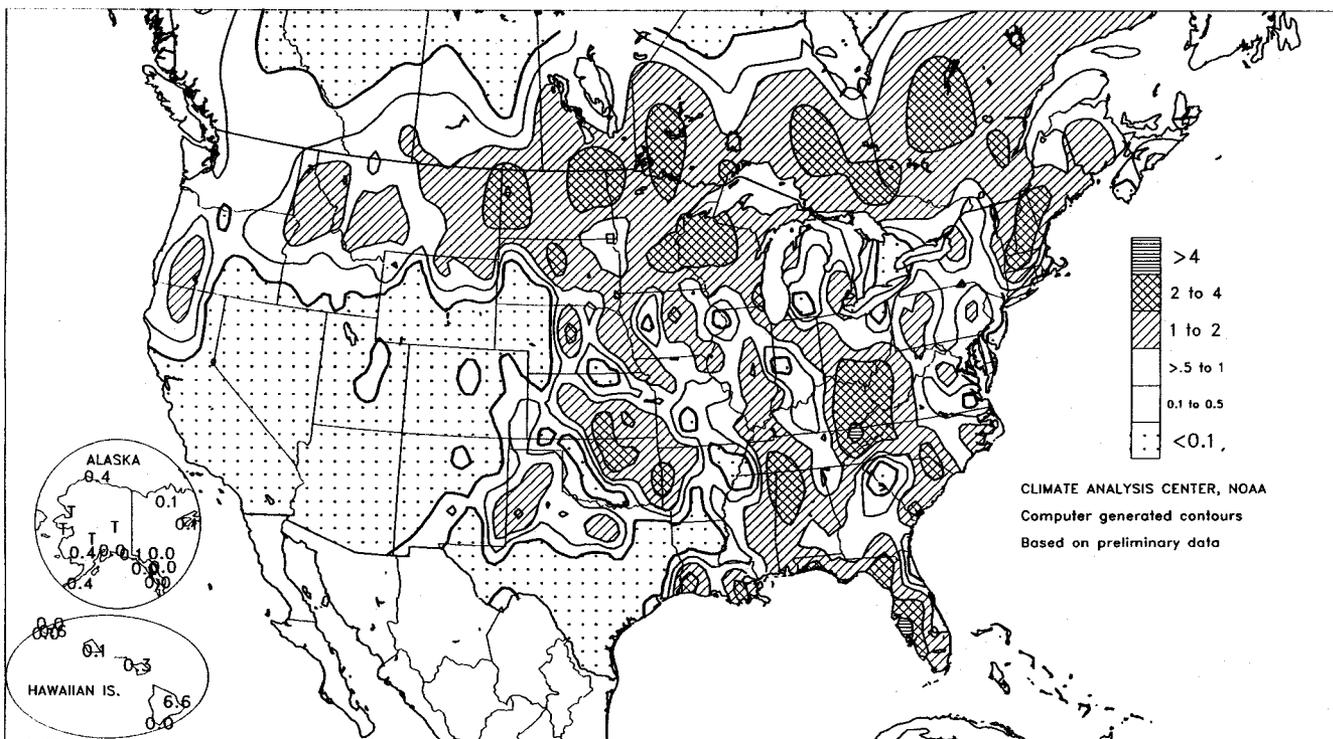
# WEEKLY WEATHER AND CROP BULLETIN

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

## Total Precipitation (Inches)

JUN 29 - JUL 5, 1997



CLIMATE ANALYSIS CENTER, NOAA  
Computer generated contours  
Based on preliminary data

## HIGHLIGHTS

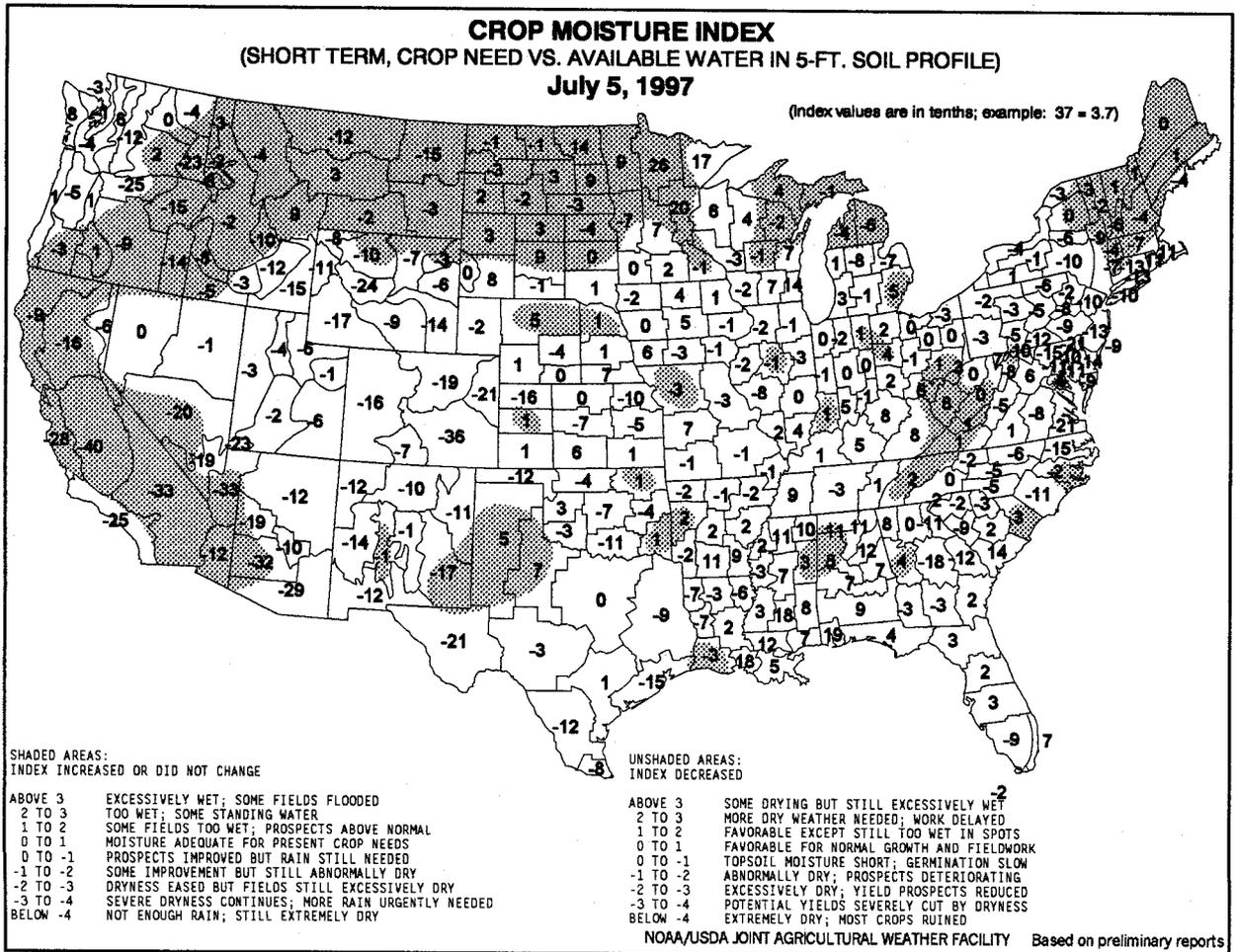
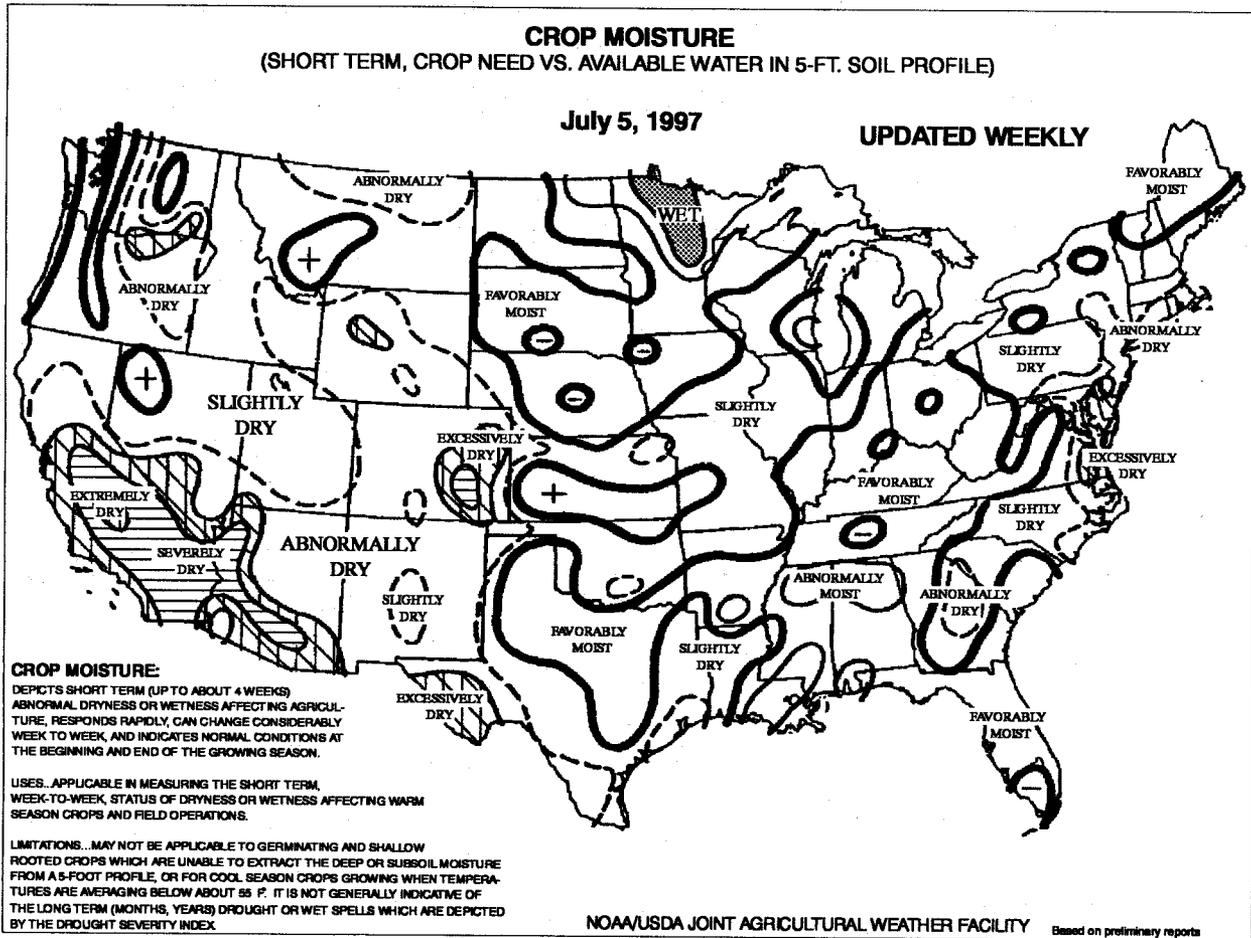
June 29 - July 5, 1997

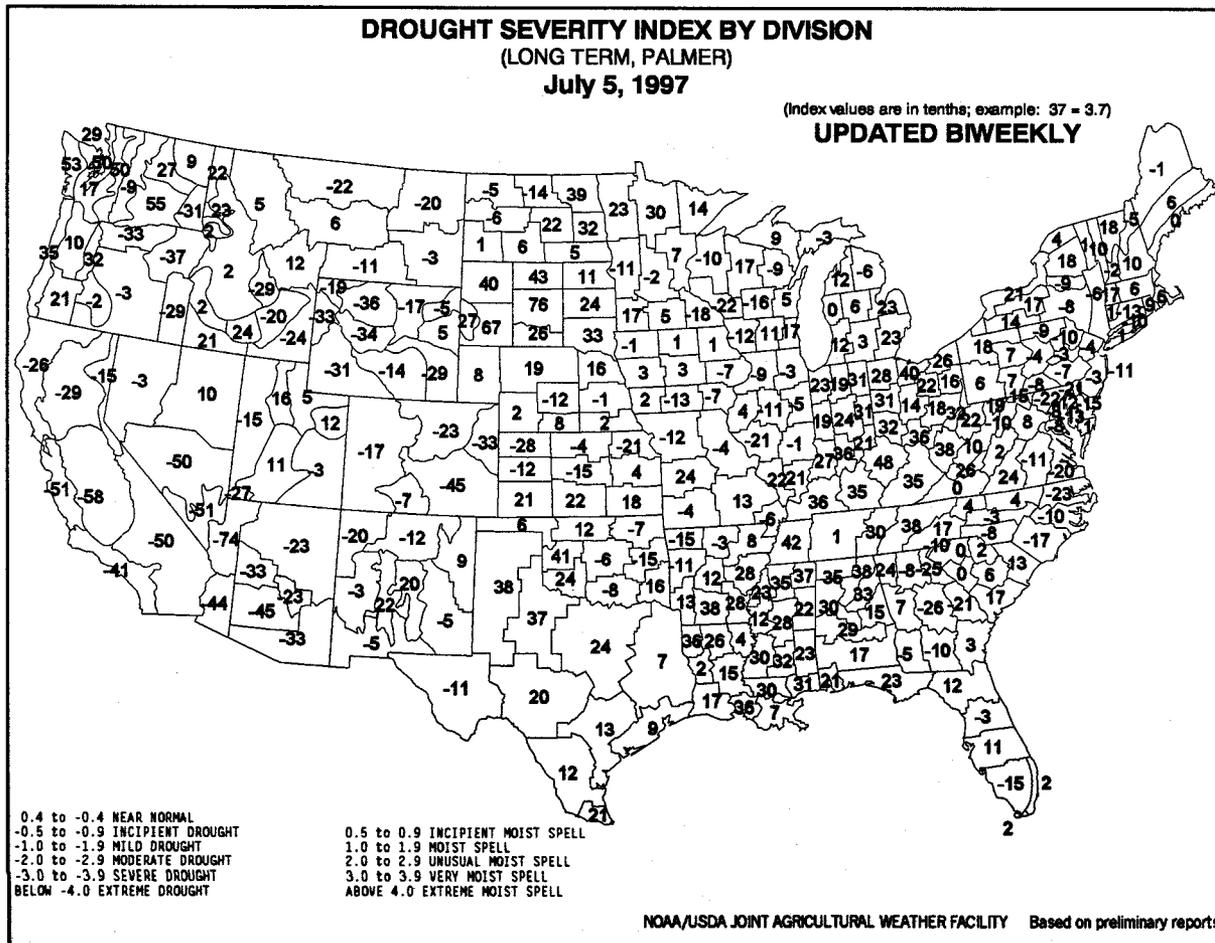
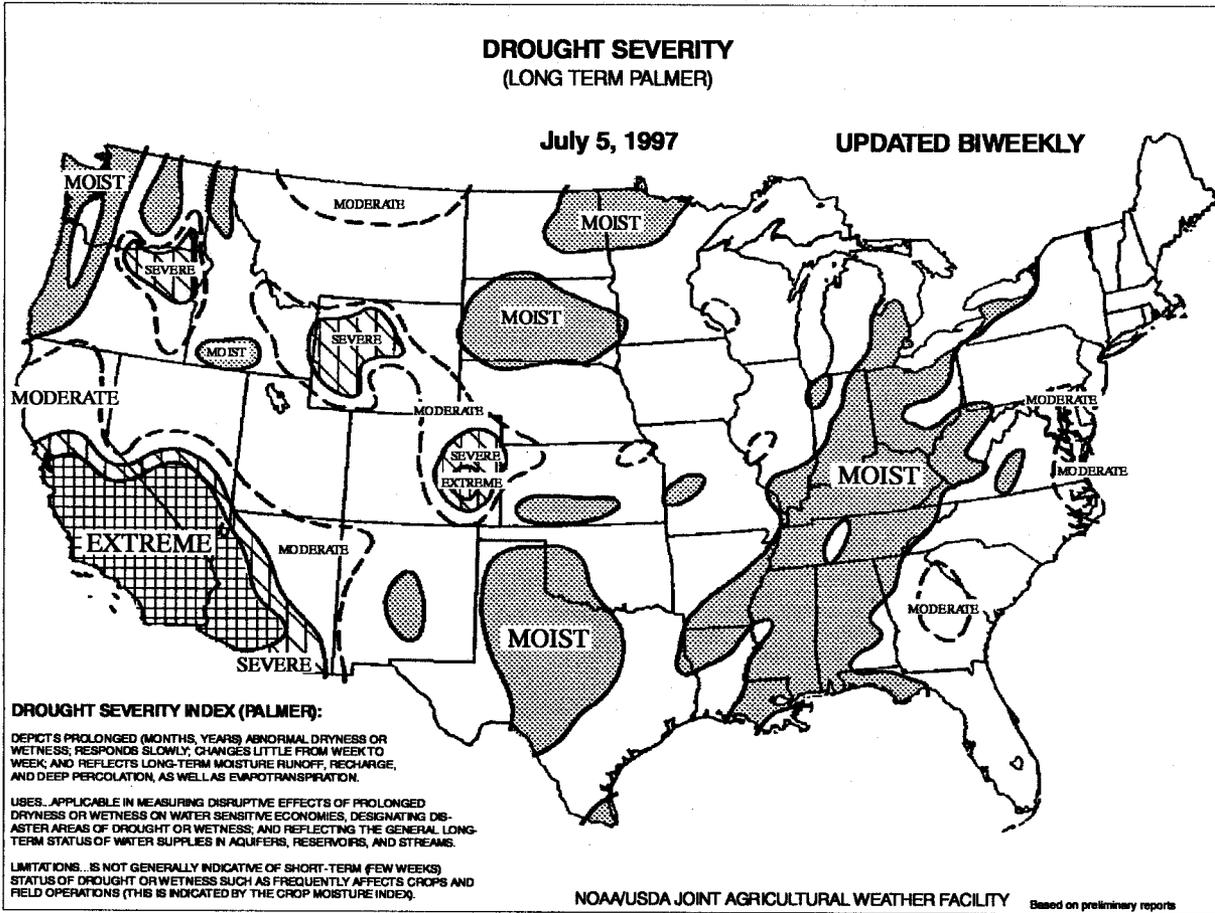
**W**elcomed rains soaked the northern Plains, upper Midwest, Great Lakes region, and New England, reducing or erasing topsoil moisture deficits. Farther south, the winter wheat harvest progressed rapidly on the central and southern Plains and in the lower Ohio Valley, despite occasional rainfall. Meanwhile in the Southeast, drier, hotter (weekly departures of +1 to +3°F) weather after midweek permitted soils to dry. In contrast, cool weather (up to 7°F below normal) cloaked the West and overspread the Central States. Weekly temperatures in the upper Midwest and northern and central Plains ranged from 3 to 11°F below normal. More than five dozen daily-record lows and a handful of July records were set across the Western and Central States.

*(Continued on page 5)*

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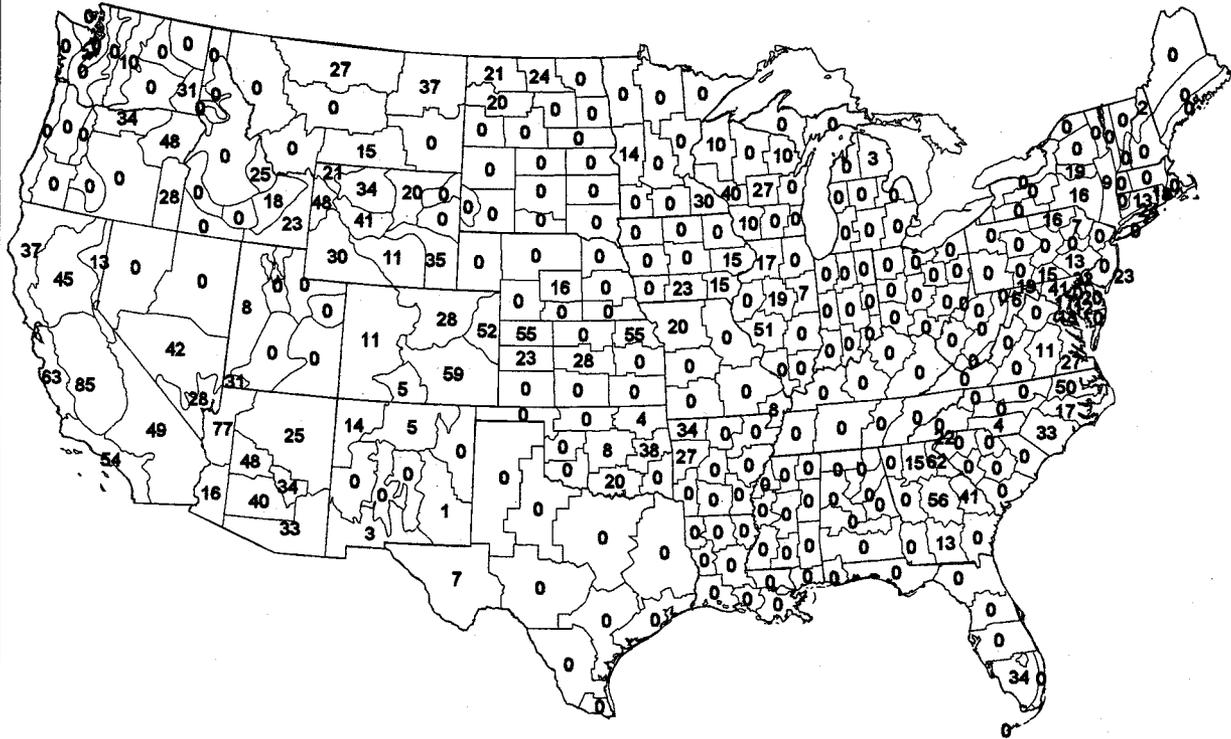
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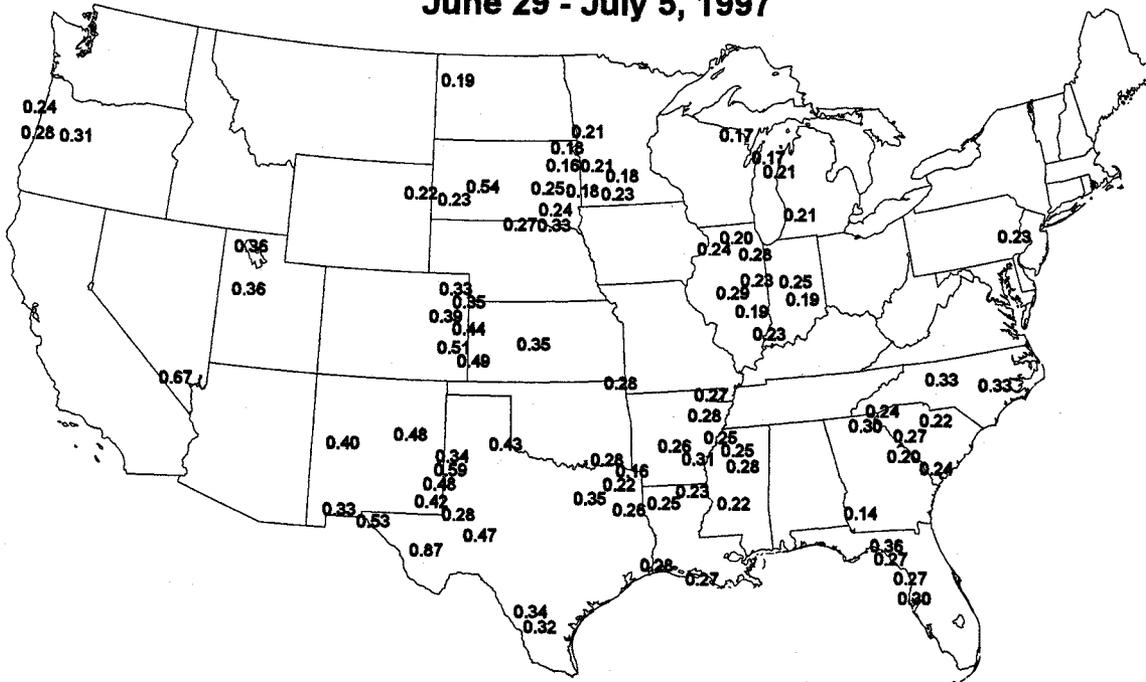
**ADDITIONAL PRECIPITATION NEEDED TO BRING INDEX NEAR ZERO**  
(LONG TERM, PALMER)  
July 5, 1997

(Index values are in tenths; example: 37 = 3.7)  
**UPDATED BIWEEKLY**



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

**Average Pan Evaporation (Inches/Day)**  
June 29 - July 5, 1997



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY  
Based on preliminary data

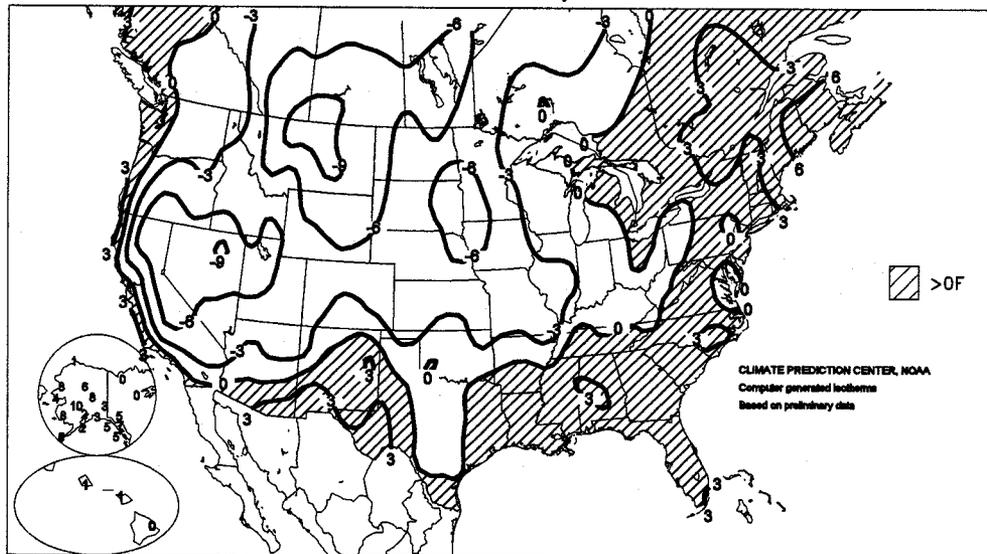
(Continued from front cover)

On Sunday, **Bakersfield, CA** logged their first of three consecutive daily-record lows (54, 55, and 55°F). Meanwhile, an unusually strong summer storm traversed the Nation's northern tier, crossing the western Great Lakes region by midweek. From June 30-July 2, many areas from eastern Montana to northern Wisconsin received 2 to 4 inches of rain. In **Williston, ND**, where only 2.25 inches of precipitation fell during the first 6 months of 1997, 4.82 inches fell on July 1. Similarly, storm-total rainfall reached 2.01 inches in **Glasgow, MT**, accounting for 33 percent of their year-to-date total. In **Alpena, MI**, more rain fell during the first 5 days of July (0.48 inches) than during all of June (0.42 inches).

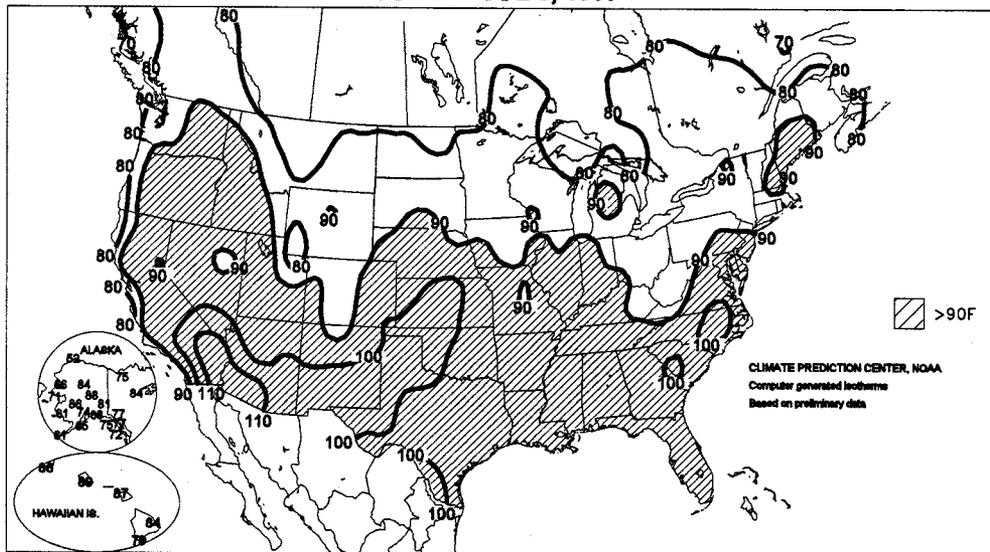
Strong winds accompanied the storm, and very cool air trailed the system. On July 2, non-thunderstorm wind gusts reached 56 mph in **Huron, SD** and 52 mph in **Worthington, MN**. Later in the day, severe thunderstorms in the eastern Corn Belt caused 10 fatalities. Farther west, monthly record lows were set in **Ely, NV** (28°F on July 1), **Alamosa, CO** (30°F on July 2), **North Platte, NE** (39°F on July 4), and **Kansas City, MO** (51°F on July 5).

The late-week chill replaced a brief hot spell across the Central States. On Tuesday, highs in **Kansas** soared to 100°F in **Wichita**, their first triple-digit reading since July 20, 1996, and 103°F in **Dodge City**. Farther east, heat arrived after early- to midweek showers. On Thursday, daily-record highs in **Florida** included 97°F at both **Orlando** and **Ft. Myers**. A day later, on the 4th of July, maxima soared to 99°F in **Savannah, GA** and **Lake Charles, LA**. Highs peaked at 98°F in **Norfolk, VA** and **Raleigh-Durham, NC**. Cooler weather returned, however, at week's end.

Departure of Average Temperature from Normal (°F)  
JUN 29 - JUL 5, 1997



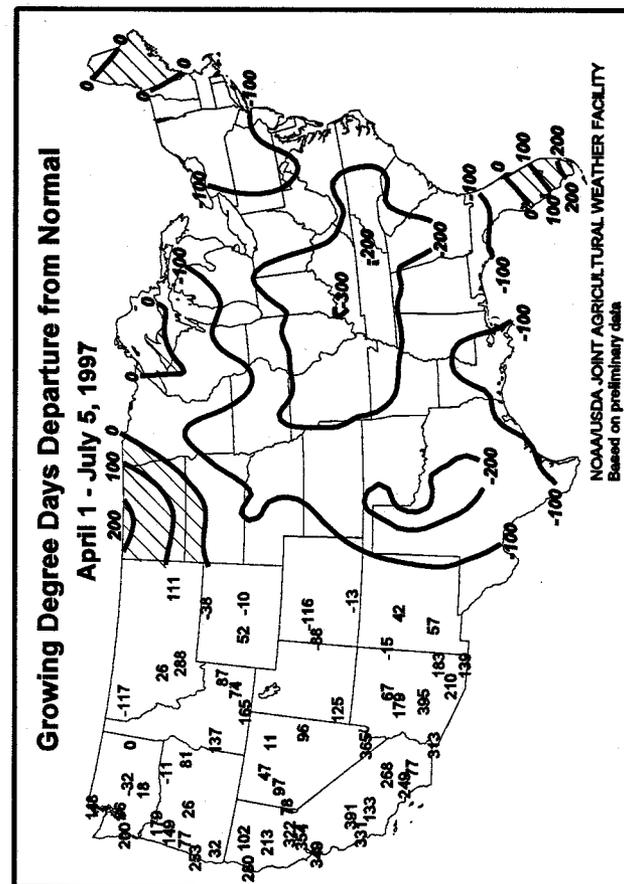
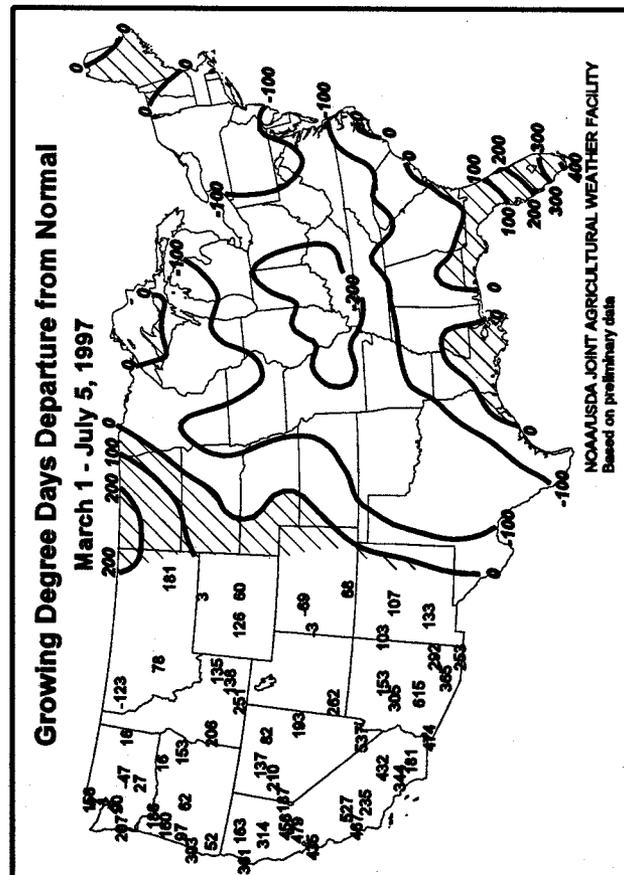
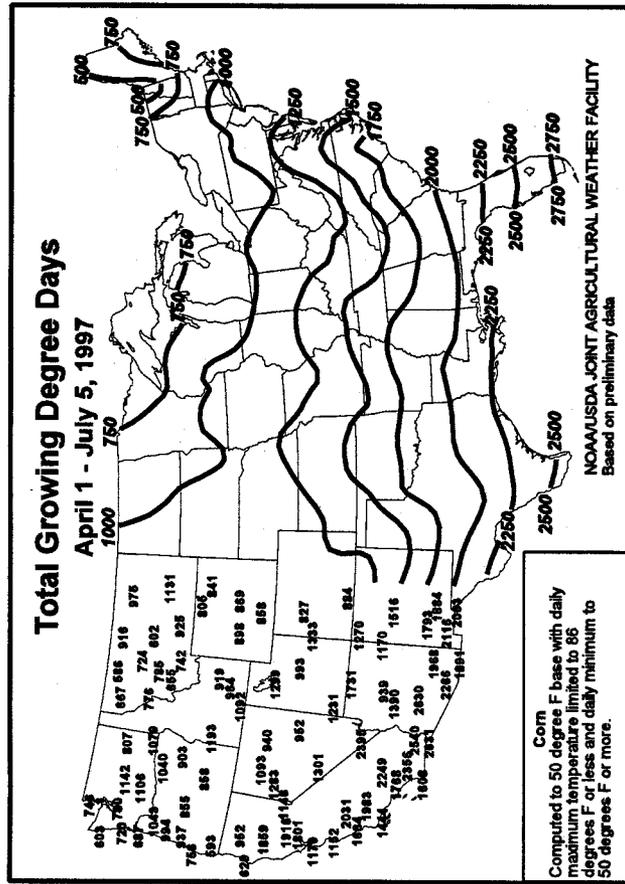
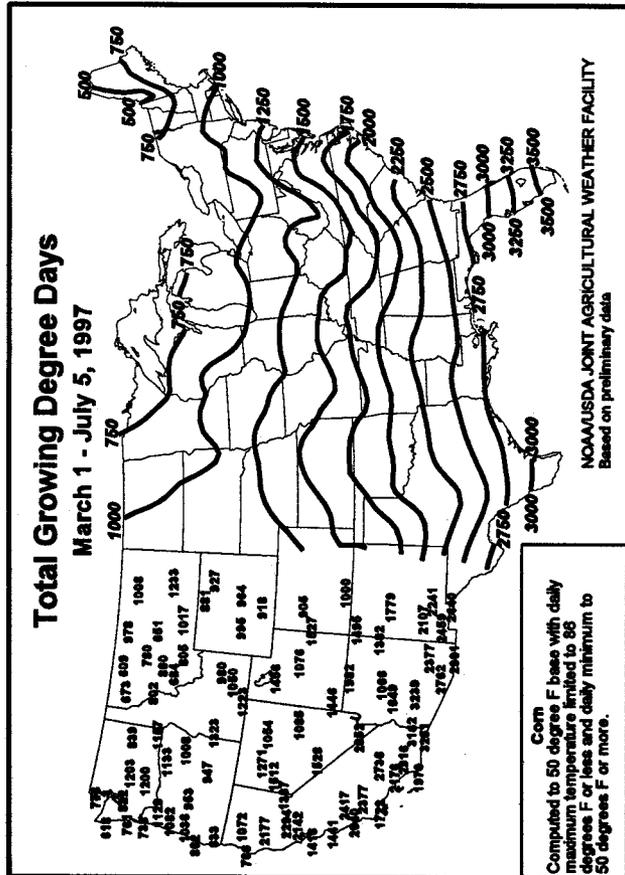
Extreme Maximum Temperature (°F)  
JUN 29 - JUL 5, 1997



Anomalous weather continued in **Alaska** (warm) and **eastern Hawaii** (wet). In **Hilo**, another 6.55 inches of rain fell, boosting their total since June 1 to nearly 27 inches (356 percent of normal). **Alaskan** temperatures averaged 2 to 10°F above normal. The week ended with consecutive daily-record highs in **Bethel** (80 and 82°F) and **McGrath** (86 and 85°F). Between June 22 and July 5, **McGrath's** highs averaged 82°F, 14° above normal.

**Monthly Record Lows, July 1-7, 1997**

Location	Low(°F)/Date	Former Record (°F)/Date
Ely, NV	28 on July 1	30 on 7/10/1983, 7/1/68, and 7/29/48
Alamosa, CO	30 on July 2	33 on 7/27/1993
North Platte, NE	39 on July 4	not available
Kansas City, MO	51 on July 5	52 on 7/5/1972
Int'l Falls, MN	35 on July 6	35 on 7/2/1972
Int'l Falls, MN	34 on July 7	35 on 7/6/1997 and 7/2/1972



# National Weather Data for Selected Cities

Weather Data for the Week Ending July 5, 1997

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 JAN 1	PCT. NORMAL SINCE JAN 1	TOTAL IN, SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		01 INCH OR MORE	.50 INCH OR MORE		
AL BIRMINGHAM	89	71	95	67	81	2	0.49	-0.60	0.25	5.79	128	29.63	98	96	60	4	0	3	0		
AL HUNTSVILLE	88	71	94	65	80	1	2.17	1.10	0.86	6.65	135	33.23	105	93	58	4	0	3	3		
AL MOBILE	92	74	96	73	83	1	0.31	-1.06	0.16	8.65	143	38.88	118	95	61	5	0	3	0		
AL MONTGOMERY	93	74	96	72	83	3	0.22	-0.89	0.21	4.49	95	28.31	96	97	61	6	0	2	0		
AK ANCHORAGE	67	52	74	47	60	2	0.00	-0.33	0.00	0.61	44	2.61	51	87	62	0	0	0	0		
AK BARROW	45	34	52	31	40	1	0.40	0.25	0.26	0.73	187	0.97	87	99	84	0	2	4	0		
AK FAIRBANKS	82	58	88	54	70	8	0.02	-0.37	0.02	0.36	21	1.09	28	74	31	0	0	1	0		
AK JUNEAU	71	54	77	51	62	7	-	-	-	-	-	-	-	81	51	0	0	-	-		
AK KODIAK	59	50	65	48	55	2	0.00	-0.89	0.00	0.54	10	33.25	103	97	74	0	0	0	0		
AK NOME	62	44	71	40	53	3	0.01	-0.38	0.01	0.06	4	4.12	88	95	53	0	0	1	0		
AZ FLAGSTAFF	84	36	87	34	60	-4	0.00	-0.41	0.00	0.18	25	6.37	66	36	6	0	0	0	0		
AZ PHOENIX	106	77	111	72	92	0	0.00	-0.12	0.00	0.00	0	1.70	60	26	10	7	0	0	0		
AZ PRESCOTT	93	52	97	47	73	1	0.00	-0.46	0.00	0.15	18	4.48	63	22	10	5	0	0	0		
AZ TUCSON	105	73	109	69	89	3	0.00	-0.34	0.00	0.02	4	2.54	77	25	8	7	0	0	0		
AZ YUMA	106	78	112	73	92	0	0.00	-0.03	0.00	0.02	50	0.67	56	40	14	7	0	0	0		
AR FORT SMITH	89	69	95	60	79	-1	2.97	2.29	2.16	6.70	172	23.18	107	95	59	4	0	3	2		
AR LITTLE ROCK	91	72	97	62	81	0	0.38	-0.43	0.32	5.69	161	32.78	127	91	56	4	0	2	0		
CA BAKERSFIELD	88	60	98	54	74	-8	0.00	0.00	0.00	0.00	0	2.99	78	71	34	3	0	0	0		
CA EUREKA	67	55	68	48	61	4	1.09	1.05	0.90	1.25	236	19.32	92	90	61	0	0	2	1		
CA FRESNO	91	61	101	67	76	-5	0.00	0.00	0.00	0.01	14	3.52	51	68	19	3	0	0	0		
CA LOS ANGELES	78	63	81	61	71	3	0.01	0.01	0.01	0.01	-	4.22	56	86	52	0	0	1	0		
CA REDDING	88	59	98	52	74	-7	0.36	0.30	0.26	1.56	280	16.58	88	78	25	4	0	3	0		
CA SACRAM/MCCLELL	89	60	97	55	75	-	0.00	-	0.00	0.61	-	9.26	-	74	24	4	0	0	0		
CA SAN DIEGO	76	64	82	63	70	1	0.00	0.00	0.00	0.00	0	3.54	57	84	56	0	0	0	0		
CA SAN FRANCISCO	71	55	78	54	63	1	0.08	0.07	0.08	0.24	200	8.78	72	91	51	0	0	1	0		
CO ALAMOSA	83	40	88	30	61	-2	0.00	-0.22	0.00	0.79	95	3.03	103	72	11	0	1	0	0		
CO COLORADO	83	53	91	48	68	-1	0.14	-0.45	0.14	5.58	209	10.85	142	60	20	1	0	1	0		
CO DENVER	86	52	96	44	69	-3	0.02	-0.41	0.02	2.59	123	6.33	74	59	20	2	0	1	0		
CO GRAND JUNCTION	91	57	97	51	74	-3	0.00	-0.13	0.00	0.29	48	5.17	125	29	16	5	0	0	0		
CO PUEBLO	92	52	100	47	72	-3	0.00	-0.39	0.00	2.02	132	5.69	112	54	15	5	0	0	0		
CT BRIDGEPORT	82	66	87	60	74	2	0.21	-0.64	0.11	1.65	41	18.07	83	85	50	0	0	2	0		
CT HARTFORD	85	62	91	58	73	1	1.37	0.61	1.16	3.28	77	17.21	76	93	48	2	0	2	1		
DC WASHINGTON	87	70	97	67	79	0	0.36	-0.45	0.28	3.30	83	18.26	96	81	49	2	0	2	0		
DE WILMINGTON	85	67	92	62	76	1	0.09	-0.83	0.06	1.84	44	11.30	54	84	48	2	0	2	0		
FL DAYTONA BEACH	93	73	97	70	83	2	0.58	-0.75	0.56	6.94	101	18.80	88	95	56	7	0	1	1		
FL JACKSONVILLE	93	72	98	71	83	2	1.52	0.28	0.89	7.14	110	21.20	89	97	57	6	0	5	2		
FL KEY WEST	89	79	91	75	84	0	1.31	0.37	1.26	6.17	108	15.54	94	82	63	2	0	3	1		
FL MIAMI	92	77	94	75	85	2	1.43	-0.19	0.91	14.11	136	34.39	133	87	57	7	0	4	2		
FL ORLANDO	93	74	97	72	84	2	3.65	1.91	1.95	9.87	116	24.05	107	93	39	7	0	5	3		
FL TAMPA	91	76	93	73	84	1	2.27	0.88	0.91	3.72	58	19.00	101	88	62	5	0	4	2		
FL VALPARAISO/EGLIN	91	76	99	73	84	4	3.67	1.87	2.75	5.71	84	33.69	112	93	69	4	0	5	1		
FL WEST PALM BEACH	91	75	93	74	83	1	0.70	-0.93	0.31	12.28	133	32.56	119	93	60	6	0	3	0		
GA ATHENS	90	71	96	67	80	2	0.14	-0.92	0.11	5.13	109	24.43	89	95	56	4	0	2	0		
GA ATLANTA	87	70	93	68	79	1	0.93	-0.11	0.62	4.54	105	26.94	96	94	60	3	0	2	1		
GA AUGUSTA	93	69	100	68	81	1	0.07	-0.68	0.07	3.73	78	19.48	78	97	52	5	0	1	0		
GA COLUMBUS	92	73	98	71	83	1	1.69	0.51	0.90	7.47	151	29.92	105	92	53	5	0	4	2		
GA MACON	91	72	97	70	81	1	0.19	-0.74	0.19	1.48	35	20.65	81	97	54	4	0	1	0		
GA SAVANNAH	92	72	99	71	82	1	0.57	-0.80	0.55	6.47	98	19.70	81	97	55	5	0	2	1		
HI HILO	83	69	83	67	76	0	6.55	4.71	2.32	26.94	356	73.13	109	94	67	0	0	7	4		
HI HONOLULU	88	75	89	72	81	1	0.06	-0.07	0.06	0.46	79	14.86	133	75	50	0	0	1	0		
HI KAHULUI	88	73	87	71	79	1	-	-	-	-	-	-	-	85	57	0	0	-	-		
HI LIHUE	83	75	83	73	79	1	-	-	-	-	-	-	-	82	66	0	0	-	-		
ID BOISE	80	55	97	49	68	-4	0.47	0.35	0.29	1.53	172	7.95	113	73	24	2	0	2	0		
ID LEWISTON	80	54	96	50	67	-5	0.47	0.27	0.27	1.11	80	9.76	138	83	36	2	0	4	0		
ID POCATELLO	80	42	92	35	61	-7	0.00	-0.17	0.00	1.19	105	5.91	86	80	23	1	0	0	0		
IL CHICAGO/O'HARE	81	62	90	53	72	-1	0.26	-0.57	0.12	4.02	93	15.59	92	89	49	1	0	4	0		
IL MOLINE	83	62	93	51	73	-2	0.01	-1.07	0.01	2.93	58	16.74	88	84	46	2	0	1	0		
IL PEORIA	81	62	91	50	72	-3	0.05	-0.93	0.04	1.59	34	14.35	80	90	52	2	0	2	0		
IL ROCKFORD	79	62	88	50	71	-2	0.68	-0.31	0.58	5.34	102	18.33	105	89	53	0	0	3	1		
IL SPRINGFIELD	83	62	92	51	72	-4	0.31	-0.49	0.23	1.57	39	11.34	64	96	55	2	0	4	0		
IN EVANSVILLE	83	67	90	58	75	-3	0.00	-0.87	0.00	6.12	148	31.35	134	91	56	2	0	0	0		
IN FORT WAYNE	80	62	88	48	71	-2	0.76	-0.05	0.80	4.23	102	20.49	116	92	55	0	0	2	1		
IN INDIANAPOLIS	82	64	90	50	73	-2	0.09	-0.85	0.09	3.17	76	22.11	108	93	58	1	0	1	0		
IN SOUTH BEND	80	60	92	48	70	-2	0.28	-0.64	0.28	3.17	67	15.22	80	88	50	1	0	1	0		
IA BURLINGTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
IA CEDAR RAPIDS	81	60	90	49	70	-3	0.21	-0.78	0.14	3.30	83	14.84	90	88	49	1	0	2	0		
IA DES MOINES	80	61	88	52	70	-5	2.23	1.30	1.46	3.71	73	13.63	83	85	55	0	0	2	2		
IA DUBUQUE	77	60	86	49	69	-3	0.44	-0.46	0.32	5.40	113	16.45	90	91	54	0	0	4	0		
IA SIOUX CITY	79	58	89	48	67	-7	0.71	-0.08	0.66	3.13	73	10.69	79	88	57	0	0	4	1		
IA WATERLOO	79	60	88	48	70	-3	1.71	0.60	1.64	5.95	113	15.55	93	90	55	0	0	3	1		
KS CONCORDIA	84	61	102	51	73	-5	0.05	-0.86	0.04	4.05	79	11.02	72	83	44	2	0	2	0		
KS DODGE CITY	87	60	103	52	74	-5	0.68	-0.08	0.66	5.79	160	12.07	106	85	40	2	0	2	1		
KS GOODLAND	85	54	94	45	70	-4	0.68	-0.03	0.68	2.18	59	5.93	57	76	30	2	0	1	1		
KS TOPEKA	85	62	96	48	74	-4	0.00	-1.00	0.00	1.36	22	13.05	72	88	48	2	0	0	0		

Based on 1961-90 normals

Weather Data for the Week Ending July 5, 1997

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 JUN 1	PCT. NORMAL SINCE JUN 1	TOTAL IN. SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.	
																90 AND ABOVE	32 AND BELOW	0.1 INCH OR MORE	5.0 INCH OR MORE
KY WICHITA	88	66	100	58	77	-3	0.14	-0.69	0.09	4.40	90	15.98	106	83	43	3	0	2	0
JACKSON	81	66	87	59	74	0	1.44	0.32	0.71	9.19	182	31.44	121	93	63	0	0	3	2
LEXINGTON	81	66	90	55	73	-2	1.75	0.72	1.34	9.57	218	42.28	182	95	61	1	0	4	1
LOUISVILLE	83	68	93	59	75	-1	0.78	-0.18	0.89	8.13	195	42.11	177	94	61	1	0	3	1
PADUCAH	85	67	93	56	76	-2	2.21	1.25	1.92	6.86	145	35.20	132	93	58	2	0	3	1
LA BATON ROUGE	92	74	95	71	83	1	0.19	-1.15	0.17	7.90	145	41.93	135	95	59	5	0	2	0
LAKE CHARLES	95	74	99	72	84	3	0.76	-0.39	0.75	2.65	46	35.64	136	94	51	7	0	2	1
NEW ORLEANS	91	76	94	74	84	2	1.18	-0.21	0.71	7.68	113	31.61	99	92	58	5	0	3	1
SHREVEPORT	92	74	93	71	83	1	0.00	-0.92	0.00	6.14	124	42.60	168	93	56	6	0	0	0
ME CARIBOU	81	61	88	53	71	7	1.03	0.23	0.84	5.36	154	19.50	123	93	58	0	0	3	1
PORTLAND	82	61	90	54	72	5	0.55	-0.19	0.64	1.31	33	17.57	79	82	44	2	0	2	1
MD BALTIMORE	86	66	96	59	76	0	0.26	-0.57	0.20	3.43	80	19.58	95	91	50	2	0	2	0
MA BOSTON	85	67	92	63	76	4	0.24	-0.41	0.12	1.65	47	15.43	73	77	41	2	0	2	0
WORCESTER	79	62	86	55	71	3	1.87	0.99	1.68	3.48	77	20.72	87	85	48	0	0	2	1
MI ALPENA	79	55	92	50	67	1	0.48	-0.19	0.21	0.90	26	13.96	103	95	54	1	0	3	0
GRAND RAPIDS	80	60	90	47	70	-1	0.24	-0.53	0.22	2.80	66	15.71	95	90	51	1	0	2	0
HOUGHTON LAKE	79	53	88	42	66	0	0.32	-0.29	0.17	1.48	43	11.98	93	97	50	0	0	5	0
LANSING	79	57	89	43	68	-1	0.37	-0.31	0.33	2.09	50	14.10	96	90	56	0	0	3	0
MARQUETTE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MUSKEGON	77	57	85	44	67	-2	0.05	-0.41	0.04	3.05	115	13.41	92	90	56	0	0	2	0
MN DULUTH	70	53	77	50	62	-2	1.63	0.78	0.89	7.04	159	12.96	94	96	66	0	0	6	1
INT'L FALLS	72	50	82	42	61	-5	3.08	2.19	1.55	4.85	106	9.89	87	97	63	0	0	6	3
MINNEAPOLIS	76	59	87	51	67	-5	3.71	2.86	2.85	6.85	147	12.60	89	93	59	0	0	6	2
ROCHESTER	75	57	85	48	66	-4	0.19	-0.74	0.09	2.76	63	12.25	89	91	59	0	0	4	0
ST. CLOUD	75	58	87	49	65	-4	1.44	0.60	1.26	4.00	78	9.08	68	94	58	0	0	7	1
MS JACKSON	91	72	96	69	82	1	0.39	-0.50	0.39	8.45	220	36.44	121	97	61	5	0	1	0
MERIDIAN	92	72	96	70	82	2	0.08	-0.99	0.08	5.29	120	35.83	113	99	60	6	0	1	0
TUPELO	89	71	95	64	80	1	0.65	-0.29	0.65	11.48	253	41.88	134	94	59	4	0	1	1
MO COLUMBIA	82	63	89	51	72	-4	0.05	-0.84	0.04	3.25	66	20.77	103	95	54	0	0	2	0
KANSAS CITY	81	62	92	51	71	-6	1.51	0.47	1.11	4.01	74	17.48	95	89	54	1	0	2	1
SAINT LOUIS	86	67	94	56	76	-2	0.08	-0.82	0.08	2.08	48	17.47	90	87	46	2	0	1	0
SPRINGFIELD	84	62	90	49	73	-4	0.20	-0.87	0.12	3.63	64	20.28	92	85	56	1	0	4	0
MT BILLINGS	72	50	85	44	61	-9	0.72	0.42	0.72	3.70	169	7.78	84	88	53	0	0	1	1
BUTTE	69	41	80	34	55	-8	1.53	1.16	0.65	4.95	207	13.09	191	95	41	0	0	5	1
GLASGOW	71	51	86	49	61	-8	2.01	1.57	1.47	2.73	113	6.18	104	86	45	0	0	2	2
GREAT FALLS	66	45	78	42	55	-11	1.08	0.71	0.48	3.85	146	8.81	96	95	56	0	0	3	0
KALISPELL	70	46	84	40	58	-3	1.22	0.87	0.93	3.73	153	12.17	135	97	44	0	0	2	1
MILES CITY	75	51	88	48	63	-9	1.44	0.95	1.26	3.35	108	6.90	83	88	38	0	0	3	1
MISSOULA	72	48	90	40	59	-5	0.52	0.24	0.28	2.37	121	9.81	127	91	44	1	0	4	0
NE GRAND ISLAND	83	58	93	48	70	-5	0.01	-0.73	0.01	3.49	79	9.71	70	91	45	3	0	1	0
LINCOLN	82	59	96	54	71	-6	1.19	0.41	0.85	5.79	131	13.09	91	85	51	2	0	3	1
NORFOLK	79	57	89	50	68	-6	2.89	2.01	2.39	4.48	88	11.91	84	85	48	0	0	3	1
NORTH PLATTE	84	53	93	39	69	-4	0.02	-0.75	0.02	2.58	66	5.26	46	86	35	2	0	1	0
OMAHA	82	60	94	52	71	-5	0.51	-0.32	0.20	3.57	80	9.82	65	85	53	1	0	4	0
SCOTT'S BLUFF	81	52	93	44	67	-6	0.02	-0.53	0.02	3.42	113	13.44	143	79	30	1	0	1	0
VALENTINE	81	54	94	41	68	-5	0.58	-0.11	0.56	3.58	106	10.23	103	82	34	1	0	2	1
NV ELY	82	37	91	28	59	-6	0.00	-0.17	0.00	1.76	176	5.41	99	42	7	1	2	0	0
LAS VEGAS	99	73	108	68	86	-3	0.00	-0.05	0.00	0.00	0	0.24	12	19	12	7	0	0	0
RENO	80	44	93	35	62	-7	0.01	-0.07	0.01	1.17	225	5.54	128	65	16	1	0	1	0
WINNEMUCCA	81	47	93	35	64	-6	0.03	-0.08	0.02	2.07	223	5.22	110	63	16	2	0	2	0
NH CONCORD	85	60	93	55	72	4	1.24	0.52	1.22	1.93	52	16.11	92	88	39	3	0	2	1
NJ NEWARK	86	68	90	63	77	1	0.18	-0.73	0.10	2.61	67	19.64	89	90	48	2	0	2	0
NM ALBUQUERQUE	94	65	98	62	80	2	0.00	-0.23	0.00	1.03	137	3.88	121	34	10	6	0	0	0
NY ALBANY	84	61	91	52	72	2	0.04	-0.72	0.03	0.78	19	11.53	64	92	50	1	0	2	0
BINGHAMTON	78	58	83	48	67	-1	0.03	-0.78	0.03	3.00	72	14.54	80	84	55	0	0	1	0
BUFFALO	77	62	85	53	70	0	0.15	-0.57	0.09	3.19	79	20.12	113	84	61	0	0	3	0
ROCHESTER	79	59	86	47	69	0	0.19	-0.44	0.10	3.20	93	15.09	99	91	57	0	0	2	0
SYRACUSE	82	62	89	52	72	3	1.29	0.40	0.94	2.93	66	14.07	77	89	48	0	0	4	1
NC ASHEVILLE	83	62	91	58	73	1	0.12	-0.87	0.12	8.41	170	31.72	129	98	54	2	0	1	0
CHARLOTTE	91	71	98	67	81	2	0.07	-0.77	0.07	6.92	173	23.42	104	84	47	4	0	1	0
GREENSBORO	87	66	97	58	77	1	0.19	-0.78	0.11	3.52	78	22.38	104	85	47	2	0	2	0
HATTERAS	83	72	85	69	78	1	0.68	-0.34	0.42	3.43	71	23.28	89	93	70	0	0	3	0
RALEIGH	89	66	98	59	77	0	0.70	-0.17	0.39	4.54	105	20.91	96	96	50	2	0	2	0
WILMINGTON	87	71	95	70	79	0	0.23	-1.48	0.15	5.32	74	19.37	75	94	61	2	0	3	0
ND BISMARCK	77	56	86	49	66	-3	1.85	1.29	0.88	2.39	77	8.34	97	92	44	0	0	4	2
DICKINSON	72	51	81	44	61	-7	3.14	2.53	2.30	4.90	135	10.63	112	95	52	0	0	5	1
FARGO	71	54	81	46	63	-7	0.65	0.01	0.28	5.48	168	13.56	139	92	63	0	0	4	0
GRAND FORKS	74	56	83	50	65	-3	1.40	0.75	0.72	3.70	112	8.74	99	92	65	0	0	4	1
JAMESTOWN	74	56	83	49	65	-4	2.25	1.55	1.69	5.55	169	10.12	115	88	55	0	0	4	1
WILLISTON	73	51	85	43	62	-7	5.04	4.52	4.82	5.45	206	7.30	96	90	44	0	0	5	1
OH AKRON-CANTON	79	63	85	56	71	0	0.24	-0.82	0.18	4.03	106	17.65	96	89	59	0	0	3	0
CINCINNATI	81	63	91	55	72	-2	0.54	-0.41	0.47	8.36	185	27.46	125	93	60	1	0	4	0
CLEVELAND	78	64	87	54	71	0	0.33	-0.50	0.32	3.67	88	18.04	100	90	60	0	0	2	0
COLUMBUS	82	65	89	57	73	1	0.03	-0.94	0.03	6.22	131	21.26	109	91	58	0	0	1	0
DAYTON	81	63	89	54	72	-1	0.32	-0.51	0.16	2.93	66	18.33	94	89	56	0	0	2	0
MANSFIELD	79	62	86	55	70	-1	0.16	-0.74	0.14	4.28	93	21.65	109	93	58	0	0	2	0

Based on 1961-90 normals

Weather Data for the Week Ending July 5, 1997

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 Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL IN, SINCE Jun 1	PCT. NORMAL SINCE Jun 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	92 AND BELOW	TEMP. °F		PRECIP.	
																		01 INCH OR MORE	50 INCH OR MORE		
OK	80	62	89	52	71	-1	0.00	-0.81	0.00	4.40	103	21.25	130	87	58	0	0	0	0	0	0
OK	78	59	85	50	68	-1	0.19	-0.75	0.18	4.30	93	14.89	90	91	57	0	0	0	2	0	0
OK	91	68	98	60	80	0	1.20	0.46	1.20	3.61	75	14.92	82	89	47	6	0	0	1	1	1
OR	88	66	95	59	78	-4	3.52	2.71	1.80	7.33	147	18.35	86	92	55	4	0	0	4	3	3
OR	68	53	77	48	61	2	0.65	0.28	0.26	4.69	177	48.48	133	95	66	0	0	0	4	0	0
OR	77	42	90	38	60	-4	0.04	-0.08	0.04	0.29	31	5.84	110	79	33	1	0	1	0	1	0
OR	78	50	90	43	64	-1	0.76	0.59	0.76	1.88	122	22.86	88	93	43	1	0	1	1	1	1
OR	83	54	98	46	68	-3	1.07	1.00	0.82	1.43	227	10.02	108	88	32	2	0	0	3	1	1
OR	82	52	97	47	67	-3	0.02	-0.07	0.02	0.76	109	4.86	74	71	28	2	0	1	0	0	0
OR	78	56	94	51	67	1	0.80	0.40	0.54	2.89	180	26.11	139	89	43	1	0	0	2	1	0
OR	79	53	90	47	66	1	0.44	0.25	0.42	1.45	99	26.03	128	92	38	1	0	0	2	0	0
PA	83	61	91	57	72	-1	0.01	-0.88	0.01	2.63	60	15.19	71	87	39	1	0	1	0	0	0
PA	78	63	88	50	70	0	0.37	-0.46	0.21	4.67	100	22.54	120	88	61	0	0	0	2	0	0
PA	86	67	95	62	76	2	0.12	-0.72	0.12	2.53	57	14.02	67	80	40	2	0	0	1	0	0
PA	86	67	92	62	77	1	0.41	-0.53	0.39	1.90	43	17.49	82	85	45	2	0	0	2	0	0
PA	79	63	85	56	71	0	0.04	-0.82	0.02	3.97	92	18.26	94	86	52	0	0	0	2	0	0
PA	80	60	86	50	70	-1	0.04	-0.86	0.02	3.00	85	12.17	67	86	52	0	0	0	2	0	0
PA	82	61	89	51	72	0	0.00	-0.96	0.00	2.51	50	11.83	57	88	47	0	0	0	0	0	0
RI	85	66	91	62	75	4	0.24	-0.48	0.16	2.48	65	19.21	83	84	45	2	0	0	3	0	0
SC	91	73	96	69	82	1	2.18	0.78	1.63	6.94	98	21.57	86	98	61	4	0	0	3	1	1
SC	90	72	97	69	81	0	1.41	-0.13	0.83	14.84	198	30.15	119	98	63	3	0	0	3	1	1
SC	92	72	101	69	82	2	0.12	-1.06	0.12	5.22	93	21.24	82	94	51	4	0	0	1	0	0
SD	89	68	97	65	78	1	0.73	-1.07	0.02	6.05	109	27.07	98	90	49	3	0	0	2	0	0
SD	73	55	83	44	64	-7	0.03	0.03	0.42	2.96	82	8.48	83	93	59	0	0	0	4	0	0
SD	78	55	86	44	66	-7	2.45	1.75	1.68	4.78	124	10.78	93	88	52	0	0	0	4	2	2
SD	76	52	83	44	64	-6	0.46	-0.12	0.44	3.36	97	14.19	143	84	41	0	0	0	2	0	0
SD	78	56	84	45	66	-7	2.72	2.04	2.68	3.81	99	11.84	97	87	55	0	0	0	2	1	0
TN	83	63	89	59	73	-1	2.43	1.49	1.28	5.61	133	28.17	130	96	57	0	0	0	2	2	2
TN	88	70	96	65	79	2	0.38	-0.63	0.38	6.37	149	32.94	115	94	56	3	0	1	0	0	0
TN	86	69	93	65	77	2	1.44	0.39	0.68	8.87	167	35.72	138	96	58	2	0	0	3	1	0
TN	90	73	97	64	82	0	0.03	-0.80	0.03	6.75	161	46.94	167	89	58	5	0	0	1	0	0
TN	86	69	92	61	78	-1	0.69	-0.17	0.53	6.70	160	30.80	120	88	60	3	0	0	3	1	0
TX	90	71	93	65	81	-2	0.03	-0.49	0.03	6.89	215	15.94	137	87	46	5	0	0	1	0	0
TX	90	63	99	56	76	-1	0.98	0.29	0.51	3.75	90	13.48	139	80	33	5	0	0	4	1	0
TX	91	74	94	73	83	-1	0.00	-0.60	0.00	8.97	217	28.22	164	93	50	6	0	0	0	0	0
TX	94	74	97	73	84	2	0.00	-1.25	0.00	3.61	58	25.89	95	97	56	7	0	0	0	0	0
TX	93	76	94	73	85	1	0.00	-0.46	0.00	1.47	48	15.29	142	95	56	7	0	0	0	0	0
TX	92	74	95	67	83	0	0.01	-0.61	0.01	2.28	59	18.13	135	97	54	7	0	0	1	0	0
TX	95	75	96	74	85	1	0.00	-0.47	0.00	3.70	151	18.94	195	86	38	7	0	0	0	0	0
TX	101	71	105	68	86	4	0.00	-0.28	0.00	1.11	126	3.31	133	45	18	7	0	0	0	0	0
TX	92	73	96	66	83	-2	0.73	0.17	0.49	4.72	140	25.28	136	93	60	5	0	0	2	0	0
TX	90	80	94	78	85	3	0.00	-0.95	0.00	2.33	46	29.66	157	83	64	2	0	0	0	0	0
TX	94	72	96	70	83	0	0.01	-0.94	0.01	4.47	79	34.43	148	97	51	7	0	0	1	0	0
TX	93	67	100	61	80	1	1.87	1.30	0.98	6.37	170	15.46	184	80	30	5	0	0	3	2	2
TX	96	70	99	68	83	2	0.00	-0.38	0.00	3.27	179	8.19	131	82	30	6	0	0	0	0	0
TX	94	72	96	67	83	1	0.00	-0.32	0.00	2.57	101	15.29	153	87	37	7	0	0	0	0	0
TX	91	75	92	71	83	-1	0.00	-0.82	0.00	7.30	173	21.12	132	90	50	7	0	0	0	0	0
TX	92	74	94	71	83	0	0.01	-0.93	0.01	4.46	80	42.28	233	100	54	7	0	0	1	0	0
TX	93	73	95	67	83	-1	0.00	-0.56	0.00	2.71	74	25.78	147	92	51	7	0	0	0	0	0
TX	93	71	98	61	82	-1	0.03	-0.50	0.03	2.11	55	13.71	87	87	42	5	0	0	1	0	0
UT	86	54	98	48	70	-5	0.00	-0.19	0.00	1.73	163	10.59	114	52	15	3	0	0	0	0	0
VT	82	61	89	54	71	2	0.89	0.08	0.61	3.50	87	12.72	82	89	46	0	0	0	2	1	0
VA	85	63	94	58	74	-1	0.28	-0.61	0.28	3.65	89	19.22	94	91	45	2	0	0	1	0	0
VA	87	71	98	63	79	2	0.40	-0.84	0.21	1.49	32	13.34	60	90	48	2	0	0	2	0	0
VA	87	66	96	58	77	0	0.36	-0.66	0.35	2.57	59	16.74	78	87	48	2	0	0	2	0	0
VA	84	65	92	58	75	0	0.59	-0.21	0.49	5.95	158	18.15	90	87	51	2	0	0	4	0	0
VA	85	64	94	56	74	0	0.55	-0.26	0.41	2.91	65	16.39	81	90	49	2	0	0	2	0	0
WA	87	58	94	52	72	-	0.00	-0.07	0.00	0.46	107	3.58	111	57	30	2	0	0	1	0	0
WA	75	50	91	44	62	1	0.09	-0.16	0.05	2.97	166	36.71	142	93	48	1	0	0	3	0	0
WA	69	50	78	43	59	2	0.43	-0.18	0.40	8.85	249	73.96	135	92	55	0	0	0	3	0	0
WA	73	55	88	51	64	0	0.35	0.12	0.31	1.96	118	26.36	142	87	47	0	0	0	3	0	0
WA	77	52	93	49	65	-2	0.14	-0.06	0.07	0.73	52	11.04	123	90	36	1	0	0	3	0	0
WA	83	51	95	45	67	-2	0.22	0.16	0.22	0.89	156	3.34	80	81	30	2	0	0	1	0	0
WV	78	61	83	54	70	1	1.27	0.24	0.63	5.32	116	22.57	106	94	58	0	0	0	3	2	2
WV	82	63	86	57	73	-2	1.80	0.57	0.81	6.03	139	23.98	113	94	63	0	0	0	3	2	2
WV	79	59	83	48	69	1	0.92	-0.11	0.90	3.58	89	22.91	100	86	57	0	0	0	2	1	0
WV	81	66	87	59	73	0	0.59	-0.37	0.31	5.25	124	21.86	103	93	63	0	0	0	4	0	0
WI	77	59	91	52	68	-2	1.89	0.78	1.10	4.83	100	11.55	78	94	53	1	0	0	7	1	0
WI	75	57	84	48	66	-2	0.78	0.05	0.44	5.98	150	14.84	110	98	64	0	0	0	5	0	0
WI	77	59	88	48	68	-2	0.97	0.19	0.39	5.85	140	15.11	104	91	57	0	0	0	6	0	0
WI	76	61	83	53	69	-1	3.15	2.37	2.00	11.13	293	19.80	125	88	58	0	0	0	2	2	2
WY	79	45	91	34	62	-7	0.58	0.28	0.29	1.80	107	6.57	88	94	25	1	0	0	3	0	0
WY	76	47																			

## June Weather and Crop Summary

### Weather

A 10-week run of unfavorably cool, wet weather finally ended around mid-month across much of the Central and Eastern States. In the Southeast, however, damp conditions persisted despite the return of warmer weather. Meanwhile in the West, where several early-month storms deposited rain as far south as the Great Basin and central California, monthly temperatures averaged up to 3°F below normal. In contrast, readings ranged from 1 to 5°F above normal on the northern Plains, exacerbating topsoil moisture shortages until significant rain arrived at month's end.

Although wetness subsided by mid-month, June rainfall approached record levels in parts of the Ohio and lower Mississippi Valleys. In Kentucky, June rainfall was the third-highest on record and greatest since 1960 at both Lexington (9.54 inches) and Louisville (8.15 inches). Locations such as Evansville, IN and Memphis, TN received above-normal precipitation during each of the first 6 months of 1997. Memphis' January-June rainfall totaled 46.94 inches, second only to a 48.74-inch total in 1882.

Beginning on June 20, intense but localized downpours struck two different areas. In southeastern Wisconsin, 9.78 inches pelted Brown Deer on June 20-21. Milwaukee netted 4.23 inches on June 21 en route to their second wettest June on record (9.98 inches). Meanwhile in central Texas, 18.00 inches was reported near Bandera on June 21-22, northwest of San Antonio. For the month, 8.97 inches soaked Austin, TX, representing their sixth-wettest June and greatest June total since 10.85 inches fell in 1987.

In contrast, little rain fell across parts of the eastern Great Lakes region and the Northeast. In New York, Albany's June rainfall of 0.74 inches was second only to a 0.65-inch total in 1964. Similarly, only 0.42 inches dampened Alpena, MI, second to a 0.20-inch accumulation in June 1991. Although rain arrived on the northern Plains at month's end, June rainfall totaled only 1.36 inches (64 percent of normal) in Glasgow, MT and 0.46 inches (20 percent of normal) in Williston, ND. In Florida, Tampa's rainfall of 1.46 inches was second to a 1.26-inch total in 1918. But much of the rest of the State received adequate to surplus rainfall, including more than 12 inches on June 9-10 in parts of southeastern Florida. Other notable downpours in the Southeast included 7.37 inches in downtown Charleston, SC on June 6, 6.49 inches in Jackson, MS on June 10, and a 24-hour, monthly record 4.36 inches in Asheville, NC on June 26-27.

Despite drier-than-normal weather in North Dakota, runoff from long-term moisture surpluses continued to boost Devils

Lake above the historical maximum level, set in 1830. By June 27, the surface of the lake stood 1,442.30 feet above sea level, 1.30 feet higher than the former record, and 41.43 feet above the historical minimum level, set in 1940. Farther west, snow melt and above-normal rainfall contributed to flooding in the northern Rockies. Extensive flooding occurred on Idaho's Snake River Plain and record crests were reported on several rivers in western Montana. The Yellowstone River near Livingston, MT crested on June 5, 0.76 feet above the record set on June 10, 1996. Meanwhile, reservoir levels in southern Texas continued to rebound from long-term drought. The combined holdings of Choke Canyon Reservoir and Lake Corpus Christi rose to 39.7 percent of normal by June 23, up from 29.4 percent at the end of February 1997. In the Ohio Valley, extensive lowland flooding early in the month subsided as rains became more scattered and temperatures rose.

East of the Rockies, monthly temperatures exhibited little variation from north to south across the Nation. As a result, readings in North Dakota (up to 5°F above normal), for example, were only a few degrees cooler than those in Georgia (up to 5°F below normal). Several locations across the Southeast noted their second-lowest June temperatures on record, including Columbus, GA (75.1°F) and Montgomery, AL (75.7°F). In Indiana, Indianapolis waited until June 17 for their first 80-degree maximum of the month. Shreveport, LA tallied their first 90-degree maximum of the year on June 15, tying 1976 for their latest date on record. In Mississippi, Jackson's first 90-degree day occurred on June 20, a day later than 1974, their previous record-setting year. On June 21, the heat that overspread the Northeast produced a high of 94°F in Albany, NY, their highest since July 14, 1995. Even the Arizona desert benefited from the lack of heat, as Phoenix failed to reach 110°F by the end of June for the first time since 1965.

Despite some cool weather across northern Alaska, much of the State registered monthly temperatures 2 to 5°F above normal. On June 2, an 18-degree reading in Prudhoe Bay was their lowest on record in June. Nine days later, the mercury hit 40°F in Barrow for the first time in 278 days, 13 days shy of their 1967-68 record. But June 1997 was the warmest on record in Valdez (56.7°F, 4.9° above normal) and third warmest in Juneau (56.6°F, 3.6° above normal). Juneau's maximum of 82°F on June 22 was their highest since June 20, 1991. Valdez notched a monthly record high of 86°F on June 26. In addition to the warmth, very dry conditions gripped much of the State. Kodiak's rainfall of 0.67 inches (14 percent of normal) was a June record, while Nome's (0.06 inches, 5 percent of normal) was their lowest in June since 1964.

Very wet conditions prevailed in Hawaii's windward (east-facing) locations. In Hilo, monthly rainfall totaled 23.22 inches, or 374 percent of normal.

## Fieldwork

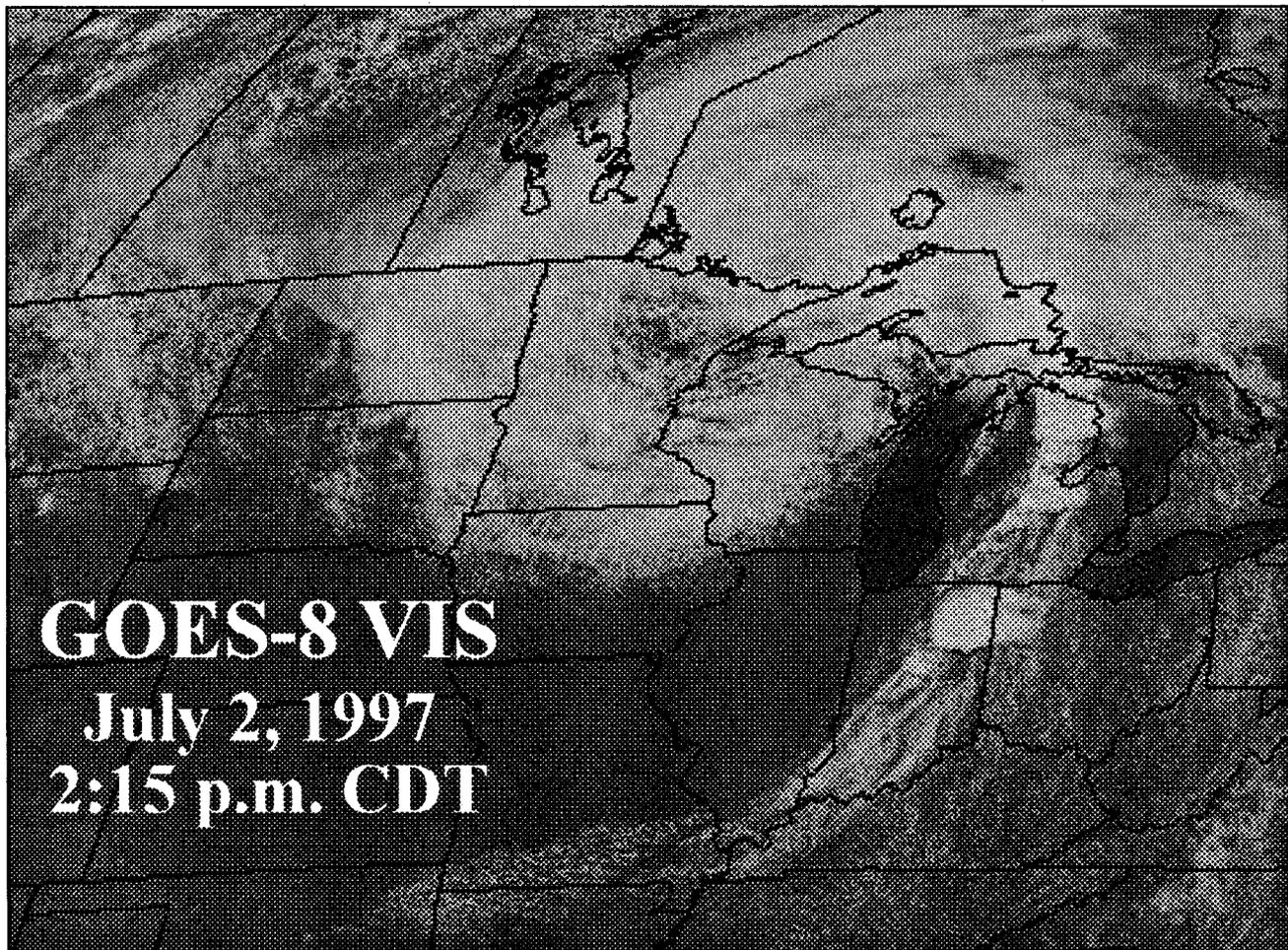
Mid-month, above-normal temperatures brought an end to the 10-week cool spell that slowed crop development and hindered planting activities in the Eastern United States. Flooding and ponding in the Ohio and Tennessee Valleys delayed planting and caused farmers to re-plant low-lying fields. Soybean planting progressed ahead of normal in most other areas. Widespread rain and high heat units after mid-month helped corn and soybeans to develop rapidly throughout the Corn Belt. Weed control was a concern as rains limited spraying, and cool, wet soils prevented cultivating early in the month. Average height of the corn acreage varied widely between early- and late-planted fields.

Winter wheat harvest was hampered by damp weather and progressed behind normal for most of June. Harvest started slowly in Kansas, Oklahoma, and Texas as frequent rains kept combines out of fields. The persistent cool, wet weather was

an ongoing concern for farmers in the Tennessee and Ohio Valleys. Warm, dry weather in northern winter wheat-producing States allowed fields to head rapidly.

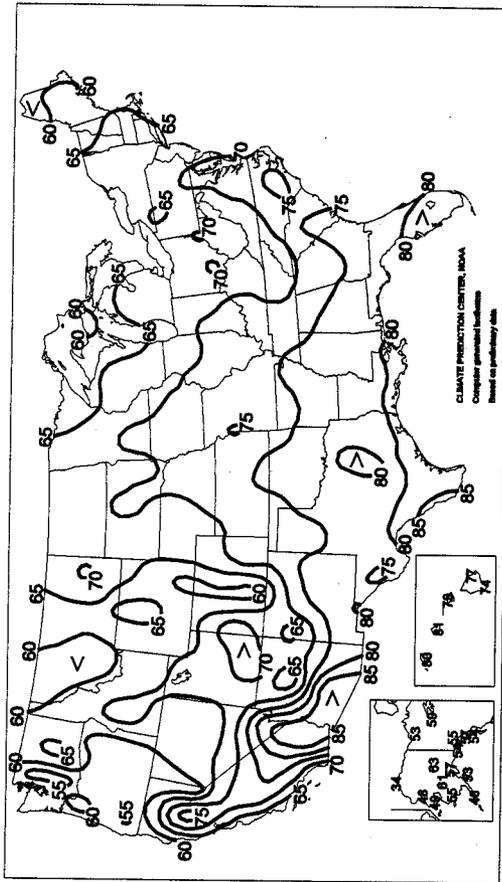
Dry soils in the northern Plains stressed both winter wheat and newly emerged spring grains. North Dakota soils were the driest in early June since 1988. Despite late plantings, spring grains emerged ahead of the normal pace until lack of moisture slowed development. Above-normal precipitation combined with mountain snowpack runoff flooded low-lying fields in Idaho and Montana, but provided favorable conditions for small grain development.

Growing conditions in the Southwest were ideal as a 7-week hot spell ended at mid-month. Cotton developed well ahead of average in Arizona and California. In Texas and the Southeast, cotton planting and development were slowed by unseasonably cool, wet weather. Rice development and peanut planting were also hampered by the cool, wet weather. Sorghum planting finished just ahead of the normal pace across the United States.

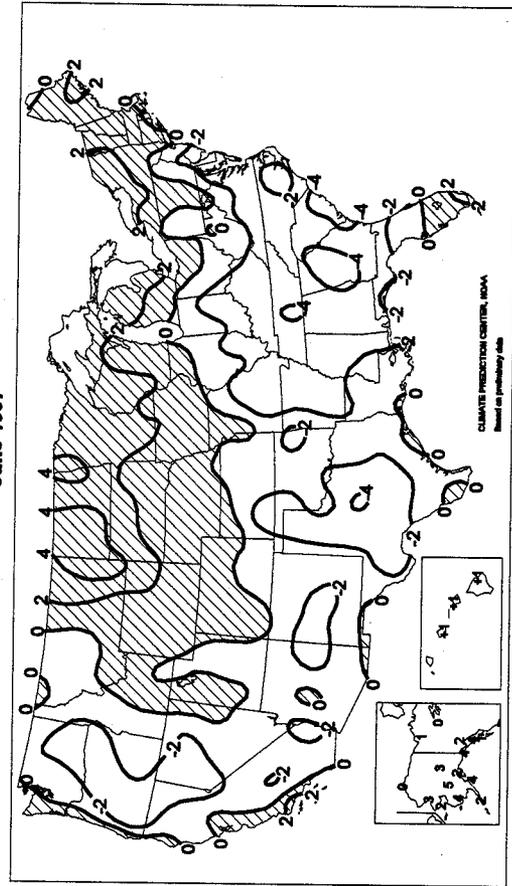


A strong early-July storm tempers dryness across the North, but sparks severe thunderstorms.

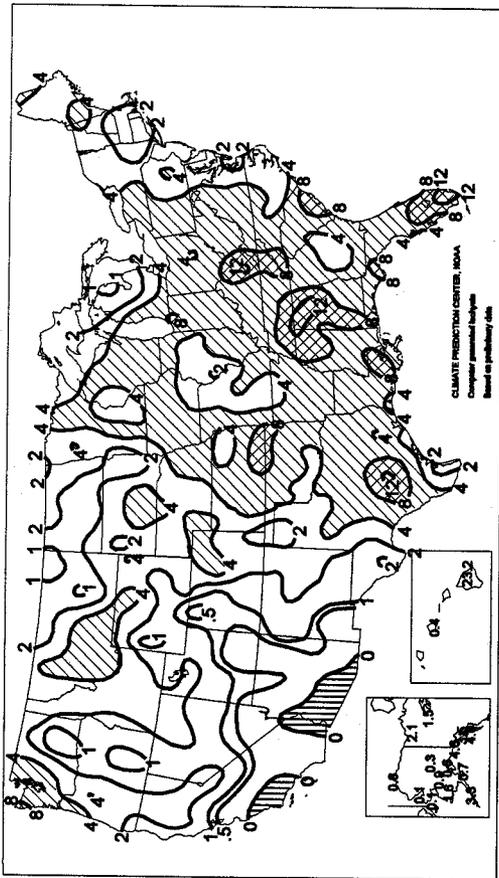
Average Temperature (°F)  
June 1997



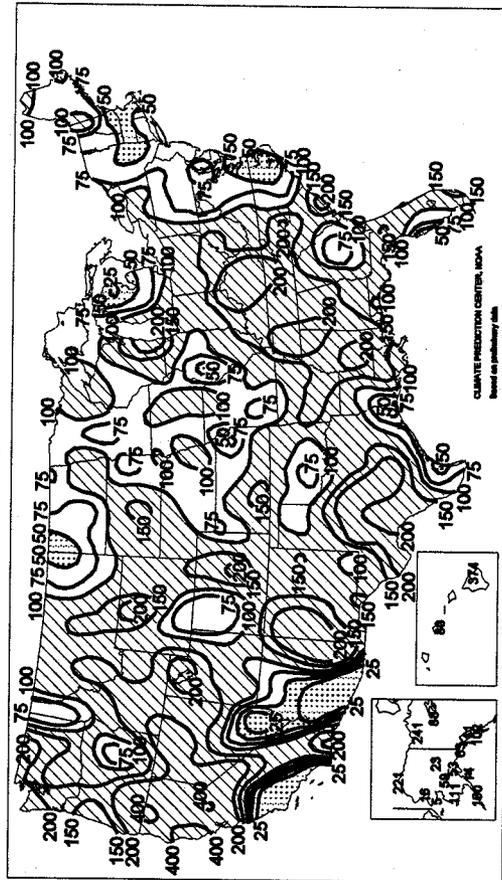
Departure of Average Temperature from Normal (°F)  
June 1997



Total Precipitation (Inches)  
June 1997



Percent of Normal Precipitation  
June 1997



# TEMPERATURE AND PRECIPITATION SUMMARY

## June 1997

STATES AND STATIONS	TEMP, °F		PRECIP.		STATES AND STATIONS	TEMP, °F		PRECIP.		STATES AND STATIONS	TEMP, °F		PRECIP.	
	AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE
AL BIRMINGHAM	74	-2	5.54	1.81	ME CARIBOU	60	0	4.37	1.46	RI SCRANTON	68	-1	2.97	-1.01
AL HUNTSVILLE	72	-3	6.00	1.87	ME PORTLAND	63	1	0.76	-2.68	RI WILLIAMSPORT	67	0	2.51	-1.81
AL MOBILE	77	-3	8.49	3.45	MD BALTIMORE	70	-3	3.17	-0.50	RI PROVIDENCE	68	1	2.24	-1.09
AL MONTGOMERY	76	-3	4.49	0.59	MA BOSTON	68	0	1.41	-1.68	RI BEAUFORT	75	-3	4.97	-1.14
AK ANCHORAGE	57	2	0.80	-0.54	MA WORCESTER	66	2	1.61	-2.27	SC CHARLESTON	75	-4	13.78	7.33
AK BARROW	34	0	0.82	0.35	MI ALPENA	64	3	0.42	-2.64	SC COLUMBIA	75	-2	5.10	0.30
AK FAIRBANKS	63	3	0.32	-1.05	MI GRAND RAPIDS	68	1	2.77	-0.91	SC GREENVILLE	71	-4	6.02	1.25
AK JUNEAU	57	4	3.51	0.36	MI HOUGHTON LAKE	65	2	1.28	-1.74	SD ABERDEEN	68	1	2.65	-0.49
AK KODIAK	54	4	0.67	-4.11	MI LANSING	67	1	1.74	-1.97	SD HURON	70	2	3.08	-0.27
AK NOME	49	3	0.06	-1.06	MI MARQUETTE	65	5	3.44	-0.04	SD RAPID CITY	66	1	3.35	0.29
AZ FLAGSTAFF	58	-2	0.18	-0.22	MI MUSKEGON	66	1	3.00	0.65	SD SIOUX FALLS	69	1	3.77	0.37
AZ PHOENIX	88	0	T	-0.13	MN DULUTH	62	2	5.42	1.60	TN BRISTOL	69	-2	4.48	0.93
AZ PRESCOTT	68	1	0.15	-0.31	MN INT'L FALLS	63	1	2.57	-1.36	TN CHATTANOOGA	72	-3	5.99	2.46
AZ TUCSON	83	-1	0.02	-0.18	MN MINNEAPOLIS	70	2	3.70	-0.35	TN KNOXVILLE	71	-2	5.70	1.72
AZ YUMA	87	-1	0.02	0.00	MN ROCHESTER	68	1	2.60	-1.12	TN MEMPHIS	76	-3	6.75	3.18
AR FORT SMITH	76	-1	6.64	3.25	MS ST. CLOUD	68	3	2.59	-2.01	TX NASHVILLE	72	-4	6.66	3.09
AR LITTLE ROCK	76	-1	5.69	2.43	MS JACKSON	77	-2	8.46	5.27	TX ABILENE	77	-4	6.86	4.00
CA BAKERSFIELD	76	-2	0.00	-0.11	MS MERIDIAN	76	-2	5.29	1.66	TX AMARILLO	72	-3	2.93	-0.77
CA EUREKA	58	2	1.25	0.74	MO TUPELO	74	-3	11.38	7.54	TX AUSTIN	79	-2	8.97	5.24
CA FRESNO	76	-1	0.01	-0.06	MO COLUMBIA	71	-1	3.20	-1.12	TX BEAUMONT	80	-1	3.61	-1.98
CA LOS ANGELES	69	3	0.00	-0.03	MO KANSAS CITY	73	0	2.90	-1.67	TX BROWNSVILLE	82	0	1.47	-1.26
CA REDDING	75	-1	1.55	0.99	MO SAINT LOUIS	74	-2	2.00	-1.72	TX CORPUS CHRISTI	82	0	2.25	-1.13
CA SACRAM/MCCLELL	75	-	0.61	-	MO SPRINGFIELD	71	-3	3.58	-1.51	TX DEL RIO	81	-2	3.70	1.69
CA SAN DIEGO	67	1	T	-0.09	MT BILLINGS	65	1	2.98	0.99	TX EL PASO	81	0	1.11	0.44
CA SAN FRANCISCO	62	1	0.24	0.12	MT BUTTE	67	1	4.20	2.05	TX FORT WORTH	79	-2	4.00	1.02
CA ALAMOSA	59	0	0.79	0.12	MT GLASGOW	68	3	1.36	-0.75	TX GALVESTON	82	1	2.33	-2.11
CA COLORADO	64	-1	5.44	3.19	MT GREAT FALLS	60	-2	3.68	1.29	TX HOUSTON	79	-1	4.47	-0.49
CA DENVER	68	1	2.67	0.52	MT KALISPELL	67	0	3.44	1.23	TX LUBBOCK	74	-3	3.50	0.75
CA GRAND JUNCTION	73	0	0.29	-0.21	MT MILES CITY	71	4	2.10	-0.68	TX MIDLAND	78	-2	3.27	1.72
CA PUEBLO	69	-1	2.02	0.77	MT MISSOULA	69	-1	2.26	0.47	TX SAN ANGELO	77	-2	2.57	0.24
CT BRIDGEPORT	68	0	1.44	-2.02	NE GRAND ISLAND	52	0	3.48	-0.43	TX SAN ANTONIO	80	-3	7.30	3.49
CT HARTFORD	69	0	1.90	-1.85	NE LINCOLN	73	0	4.59	0.70	TX VICTORIA	81	-1	4.45	-0.44
DC WASHINGTON	73	-3	2.94	-0.44	NE NORFOLK	71	1	3.97	-0.49	TX WACO	79	-2	2.71	-0.57
DE WILMINGTON	70	-2	1.75	-1.80	NE NORTH PLATTE	69	2	2.58	-0.79	UT WICHITA FALLS	78	-2	2.08	-1.44
FL DAYTONA BEACH	78	-1	6.38	0.39	NE OMAHA	73	1	3.07	-0.80	VT SALT LAKE CITY	70	1	1.73	0.80
FL JACKSONVILLE	77	-2	6.33	0.64	NE SCOTTSBLUFF	68	1	3.40	0.76	VT BURLINGTON	67	2	2.82	-0.85
FL KEY WEST	83	0	4.86	-0.23	NV VALENTINE	68	0	3.56	0.68	VA LYNCHBURG	68	-4	3.37	-0.06
FL MIAMI	82	1	13.18	3.85	NV ELY	61	1	1.76	0.88	VA NORFOLK	72	-2	1.09	-2.73
FL ORLANDO	80	-1	8.20	0.88	NV LAS VEGAS	84	-1	0.00	-0.12	VA RICHMOND	71	-3	2.21	-1.41
FL TAMPA	82	0	1.46	-4.02	NV RENO	63	-2	1.17	0.71	VA ROANOKE	69	-2	5.43	2.24
FL VALPARAISO/EGLIN	78	-1	5.18	-0.33	NH WINNEMUCCA	62	-2	2.06	1.20	VA WASH/DULLES	69	-2	2.36	-1.56
FL WEST PALM BEACH	81	0	11.75	3.66	NH CONCORD	66	2	0.70	-2.49	WA HANFORD	68	-	0.46	0.08
GA ATHENS	72	-4	5.02	1.09	NJ NEWARK	71	-2	2.42	-0.80	WA OLYMPIA	58	-1	2.95	1.32
GA ATLANTA	71	-4	3.92	0.36	NM ALBUQUERQUE	73	-1	1.03	0.44	WA QUILLAYUTE	55	0	8.83	5.71
GA AUGUSTA	74	-3	3.66	-0.47	NY ALBANY	68	1	0.74	-2.88	WA SEATTLE-TACOMA	60	-1	1.91	0.41
GA COLUMBUS	75	-5	5.99	1.92	NY BINGHAMTON	65	0	2.97	-0.63	WA SPOKANE	60	-2	0.63	-0.63
GA MACON	74	-4	1.29	-2.29	NY BUFFALO	67	1	3.06	-0.49	WA YAKIMA	63	-2	0.89	0.36
GA SAVANNAH	75	-4	5.90	0.24	NY ROCHESTER	67	2	3.01	0.01	WV BECKLEY	65	-1	4.68	0.85
HI HILO	77	1	23.22	17.02	NY SYRACUSE	68	2	1.84	-2.15	WV CHARLESTON	70	-2	5.24	1.65
HI HONOLULU	81	2	0.40	-0.10	NC ASHEVILLE	67	-3	8.29	4.06	WV ELKINS	64	0	2.68	-1.77
HI KAHULUI	79	2	-	-	NC CHARLOTTE	73	-3	6.65	3.48	WV HUNTINGTON	69	-1	4.90	1.38
HI LIHUE	-	-	-	-	NC GREENSBORO	70	-3	3.33	-0.48	WI EAU CLAIRE	69	3	3.92	-0.27
ID BOISE	66	0	1.35	0.54	NC HATTERAS	69	-5	2.75	-1.37	WI GREEN BAY	64	0	5.51	2.12
ID LEWISTON	64	-2	0.93	-0.32	NC RALEIGH	71	-3	3.83	0.15	WI MADISON	67	1	5.23	1.57
ID POCATELLO	62	0	1.19	0.17	ND WILMINGTON	73	-3	5.12	-0.88	WI MILWAUKEE	65	0	9.98	6.74
IL CHICAGO/O'HARE	68	0	3.81	0.03	ND BISMARCK	69	5	1.23	-1.49	WY CASPER	63	1	1.22	-0.24
IL MOLINE	71	0	2.92	-1.35	ND DICKINSON	68	4	2.42	-0.81	WY CHEYENNE	63	1	3.48	1.40
IL PEORIA	71	-1	1.39	-2.60	ND FARGO	69	3	4.85	2.03	WY LANDER	65	1	1.00	-0.46
IL ROCKFORD	69	0	4.67	0.15	ND GRAND FORKS	70	6	2.92	-0.10	PR SHERIDAN	62	0	2.36	0.11
IL SPRINGFIELD	71	-2	1.54	-1.89	ND JAMESTOWN	69	4	3.72	0.73	PR SAN JUAN	-	-	0.98	-
IN EVANSVILLE	72	-3	6.12	2.63	ND WILLISTON	69	5	0.46	-1.81					
IN FORT WAYNE	69	-1	4.07	0.48	OH AKRON-CANTON	68	0	3.84	0.68					
IN INDIANAPOLIS	69	-2	3.17	-0.32	OH CINCINNATI	69	-2	8.33	4.49					
IN SOUTH BEND	68	-1	3.17	-0.94	OH CLEVELAND	68	0	3.34	-0.36					
IA BURLINGTON	71	0	2.75	-1.31	OH COLUMBUS	70	1	6.19	2.15					
IA CEDAR RAPIDS	71	1	3.30	-1.25	OH DAYTON	69	-1	2.61	-1.21					
IA DES MOINES	72	0	3.71	-0.75	OH MANSFIELD	67	0	4.14	0.19					
IA DUBUQUE	69	1	5.36	1.23	OH TOLEDO	69	1	4.40	0.65					
IA SIOUX CITY	72	1	3.09	-0.62	OH YOUNGSTOWN	68	0	4.12	0.18					
IA WATERLOO	71	2	5.90	1.43	OK OKLAHOMA CITY	75	-1	2.41	-1.90					
KS CONCORDIA	73	-1	4.04	-0.46	OR TULSA	76	-2	5.77	1.33					
KS DODGE CITY	72	-3	5.14	2.04	OR ASTORIA	58	1	4.52	2.12					
KS GOODLAND	69	0	2.13	-1.06	OR BURNS	58	0	0.29	-0.54					
KS TOPEKA	73	0	1.38	-4.18	OR EUGENE	59	-3	1.88	0.45					
KS WICHITA	74	-2	4.35	0.04	OR MEDFORD	64	-2	1.42	0.84					
KY JACKSON	69	-2	9.15	4.80	OR PENDLETON	63	-3	0.78	0.12					
KY LEXINGTON	69	-3	9.54	5.88	OR PORTLAND	63	-1	2.83	1.35					
KY LOUISVILLE	72	-1	8.15	4.69	OR SALEM	61	0	1.45	0.11					
KY PADUCAH	73	-2	6.59	2.54	PA ALLENTOWN	68	-2	2.62	-1.13					
LA BATON ROUGE	79	-2	7.73	3.25	PA ERIE	67	0	4.30	0.21					
LA LAKE CHARLES	80	0	1.90	-3.08	PA MIDDLETOWN	71	0	2.41	-1.44					
LA NEW ORLEANS	80	0	6.97	1.13	PA PHILADELPHIA	70	-1	1.49	-2.25					
LA SHREVEPORT	78	-1	6.14	1.85	PA PITTSBURGH	68	0	3.95	0.24					

Based on 1961-90 normals.

## National Agricultural Summary

June 30 - July 6, 1997

### HIGHLIGHTS

**Welcomed rain brought needed moisture to dry areas across the northern Plains, northern Corn Belt, and New England. Rainfall caused some winter wheat harvest delays early in the week and again at week's end in areas of Kansas, Oklahoma, and Texas. Seasonably hot weather and generally drying soils in the Southeast later**

**in the week provided for favorable growing and harvest conditions. Regions of Michigan remained in need of rain despite severe storms and tornados in the east. Crops were generally unaffected by freezing temperatures in the eastern Great Basin and Colorado's San Luis Valley.**

**Winter wheat:** Winter wheat harvest made good progress as southern Plains' wheat farmers took advantage of dry weather during the middle of the week to combine fields. Kansas growers made very rapid progress as 52 percent (%) of the State's crop was harvested during the week. Winter wheat harvest was in full swing throughout the Corn Belt. Meanwhile, harvest was winding down ahead of normal in California and North Carolina. Nationwide, harvest reached 46% complete, behind both 52% harvested at this time last year and the 5-year average of 48%. Winter wheat condition rated mostly good. Mild weather with adequate moisture continued to favor grain fill in Washington.

**Corn:** Five percent of the Nation's corn acreage was silking, compared with 6% in 1996 and the average of 7%. Sunshine and heat promoted rapid crop growth throughout the Corn Belt. Growers in the major corn-producing States took advantage of drier soils to control weeds and apply fertilizer and pesticides. Crop development in Nebraska was about a week behind normal as producers treated fields for corn borer. In Kentucky, warmer, drier weather improved corn condition, but development remained well behind normal. Favorable weather in Kansas and North Carolina promoted active development of the corn acreage. Condition of the acreage remained mostly good.

**Soybeans:** Nine percent of the soybean acreage was blooming, ahead of 6% last year but behind the average of 11%. Blooming progress was ahead of normal in Louisiana, Mississippi, Missouri, and South Carolina but lagged behind normal elsewhere. Soybeans rated mostly good. Early Louisiana soybeans remained short due to continued wet weather. Double-cropped soybeans were planted immediately following winter wheat harvest.

**Cotton:** Cotton squaring was 67% complete, behind both the 77% squaring in 1996 and the average of 70%. Cotton squaring was significantly behind normal in Alabama and Missouri. Fourteen percent of the acreage was setting bolls, 6 percentage points behind the average. In Louisiana, only 12% of the acreage was setting bolls, significantly behind normal. Overall, cotton was rated mostly good to fair. Generally drying weather after mid-week provided favorable growing conditions in the Southeast. Texas cotton growth

and development responded favorably to warmer weather and recent rains. In California, cotton showed good growth and development in most areas, although some fields had inconsistent plant heights. Above-normal temperatures in New Mexico allowed the cotton acreage to mature quickly after a slow start.

**Rice:** Rice heading was well behind normal in Louisiana and Texas. Seven percent of the Nation's acreage was heading, behind 12% for both 1996 and the average. Arkansas producers fertilized fields. Louisiana rice growers actively treated fields for heavy amounts of sheath blight caused by hot, humid weather. In Texas, rice fields continued to head out, with moderate disease problems and flooding remaining active. Overall, rice condition rated mostly good.

**Other Small Grains:** Despite welcomed rains along the northern tier of States, the Nation's spring wheat and barley condition declined. Small grain development in North Dakota remained ahead of last year but slightly behind the average. In South Dakota, wet, cool weather benefited small grains. Improved spring wheat condition in South Dakota was more than offset by declining conditions elsewhere. Spring wheat heading reached the halfway point, ahead of last year but 2 points behind the average. Barley heading also neared halfway complete, but was 6 points behind average. Barley harvest started in Oregon. Like spring wheat, improved barley condition in South Dakota was offset by declines elsewhere. Oat heading advanced to 74% complete, ahead of 65% headed in 1996 and the average of 68%. Condition of the oat acreage rated mostly good to fair. Warm, moist weather in Michigan promoted rapid oat development.

**Other Crops:** Peanuts pegging advanced to 36% complete, compared with 55% last year. Overall, condition of the peanut crop was mostly good. In Georgia and Florida, warm weather combined with timely rains improved crop condition. Virginia peanut growers applied land plaster to their acreage as pegging began. Sorghum condition was also rated mostly good. Texas sorghum growers virtually completed all planting operations. Abundant rainfall throughout the spring and early summer has the New Mexico sorghum crop off to one of the best starts in years.

# Crop Progress and Condition

Week Ending July 6, 1997

## Soybeans Percent Blooming

	Jul 6 1997	Prev Week	Prev Year	5-Yr Avg
AL	6	3	8	8
AR	5	4	13	11
GA	7	3	15	14
IL	11	2	4	12
IN	6	0	1	8
IA	13	3	4	14
KS	21	8	10	25
KY	0	0	9	9
LA	32	19	36	19
MI	0	0	0	6
MN	0	0	4	9
MS	37	18	52	25
MO	8	2	5	7
NE	4	1	0	7
NC	5	2	6	5
OH	10	1	0	11
SC	16	5	15	7
SD	5	1	3	9
TN	2	0	2	4
ALL	9	3	6	11

These 19 States produced 94% of the 1996 soybean crop.

## Winter Wheat Percent Harvested

	Jul 6 1997	Prev Week	Prev Year	5-Yr Avg
AR	92	71	97	97
CA	95	85	93	80
CO	11	0	16	20
GA	98	96	99	99
ID	0	0	0	0
IL	36	6	61	55
IN	15	4	37	33
KS	67	15	74	63
MI	0	0	0	0
MO	54	25	66	55
MT	0	0	0	0
NE	3	0	10	16
NC	96	82	88	84
OH	0	0	9	10
OK	91	*67	100	92
OR	0	0	2	1
SD	0	0	0	1
TX	76	52	89	85
WA	0	0	0	2
ALL	46	24	52	48

These 19 States produced 92% of the 1996 winter wheat crop.

## Corn Percent Silking

	Jul 6 1997	Prev Week	Prev Year	5-Yr Avg
CO	0	0	0	0
GA	91	86	94	95
IL	1	0	3	4
IN	0	0	1	3
IA	0	0	0	1
KS	23	2	18	17
KY	0	0	30	27
MI	0	0	0	0
MN	0	0	0	1
MO	16	4	24	16
NE	0	0	0	4
NC	50	26	63	59
OH	0	0	0	1
PA	0	0	4	2
SD	0	0	0	0
TX	55	46	64	65
WI	0	0	0	1
ALL	5	3	6	7

These 17 States produced 90% of the 1996 corn crop.

## Oats Percent Headed

	Jul 6 1997	Prev Week	Prev Year	5-Yr Avg
IA	97	87	93	90
MI	73	35	68	68
MN	81	53	82	82
NE	95	88	99	NA
ND	33	10	22	41
OH	90	71	91	92
PA	85	65	85	48
SD	74	43	65	75
WI	86	63	60	67
ALL	74	51	65	68

These 9 States produced 56% of the 1996 oat crop.

## Peanuts Percent Pegging

	Jul 6 1997	Prev Week	Prev Year	5-Yr Avg
AL	38	25	59	NA
FL	69	52	94	NA
GA	40	30	66	NA
NC	23	8	25	NA
OK	55	24	68	NA
SC	48	0	48	NA
TX	25	15	37	NA
VA	10	6	27	NA
ALL	36	24	55	NA

These 8 States produced 99% of the 1996 peanut crop.

## Cotton Percent Squaring

	Jul 6 1997	Prev Week	Prev Year	5-Yr Avg
AL	42	35	85	80
AZ	92	91	97	95
AR	86	61	99	92
CA	85	65	85	69
GA	79	61	91	88
LA	80	60	99	93
MS	70	52	98	92
MO	55	19	91	85
NM	73	68	86	62
NC	56	32	59	54
OK	26	11	57	37
SC	77	66	88	73
TN	67	38	89	85
TX	60	44	60	54
ALL	57	49	77	70

These 14 States produced 99% of the 1996 cotton crop.

## Cotton Percent Setting Bolls

	Jul 6 1997	Prev Week	Prev Year	5-Yr Avg
AL	2	0	15	13
AZ	58	47	65	55
AR	5	0	34	16
CA	15	10	9	7
GA	15	6	41	32
LA	12	5	32	40
MS	43	16	47	32
MO	2	0	22	11
NM	8	1	13	9
NC	3	2	18	15
OK	0	0	10	3
SC	22	10	23	17
TN	0	0	12	8
TX	13	8	17	18
ALL	14	8	24	20

These 14 States produced 99% of the 1996 cotton crop.

## Barley Percent Headed

	Jul 6 1997	Prev Week	Prev Year	5-Yr Avg
ID	59	43	55	58
MN	43	14	53	71
MT	54	19	35	45
ND	38	15	34	48
SD	66	44	57	72
WA	96	*90	68	89
ALL	49	26	42	55

These 6 States produced 82% of the 1996 barley crop.

# Crop Progress and Condition

Week Ending July 6, 1997

Rice Percent Headed				
	Jul 6 1997	Prev Week	Prev Year	5-Yr Avg
AR	0	0	0	0
CA	0	0	0	0
LA	21	13	32	39
MS	15	8	10	9
TX	15	2	45	33
ALL	7	3	12	12

These 5 States produced 96% of the 1996 rice crop.

Spring Wheat Percent Headed				
	Jul 6 1997	Prev Week	Prev Year	5-Yr Avg
ID	66	49	60	59
MN	49	18	54	72
MT	61	33	42	45
ND	39	19	31	43
SD	68	38	73	78
ALL	50	25	42	52

These 5 States produced 96% of the 1996 spring wheat crop.

Winter Wheat Crop Condition by Percent						
	VP	P	F	G	EX	
AR	0	10	32	47	11	
CA	0	0	30	60	10	
CO	5	12	31	37	15	
GA	2	10	40	44	4	
ID	0	2	18	52	28	
IL	2	1	19	62	16	
IN	1	4	23	58	14	
KS	2	6	17	57	18	
MI	1	7	33	47	12	
MO	0	7	20	58	15	
MT	0	6	33	51	10	
NE	3	13	37	44	3	
NC	0	1	19	65	15	
OH	1	6	31	52	10	
OK	3	9	29	51	8	
OR	0	1	6	59	34	
SD	1	12	33	47	7	
TX	4	11	44	31	10	
WA	0	0	5	75	20	
ALL	2	7	26	52	13	
Prev Wk	2	8	25	52	13	
Prev Yr	14	19	33	26	8	

Soybeans Crop Condition by Percent					
	VP	P	F	G	EX
AL	0	6	23	66	5
AR	0	7	30	49	14
GA	0	3	15	72	10
IL	1	3	26	58	12
IN	1	7	27	56	9
IA	0	4	20	63	13
KS	0	2	17	70	11
KY	0	5	24	53	18
LA	1	10	43	39	7
MI	2	9	32	44	13
MN	3	10	38	42	7
MS	1	4	15	73	7
MO	2	6	32	51	9
NE	0	2	17	68	13
NC	1	3	32	59	5
OH	2	8	30	48	12
SC	0	1	14	74	11
SD	2	5	20	51	22
TN	0	6	22	58	14
ALL	1	5	26	56	12
Prev Wk	1	6	28	54	11
Prev Yr	2	7	33	50	8

Corn Crop Condition by Percent					
	VP	P	F	G	EX
CO	4	7	20	53	16
GA	0	1	20	68	11
IL	1	2	18	60	19
IN	1	6	23	57	13
IA	0	2	14	62	22
KS	0	2	11	70	17
KY	1	8	29	50	12
MI	3	11	29	47	10
MN	2	8	31	47	12
MO	0	3	25	60	12
NE	1	2	14	66	17
NC	5	14	38	39	4
OH	2	6	26	50	16
PA	0	7	30	55	8
SD	1	3	19	50	27
TX	0	2	14	61	23
WI	0	5	14	56	25
ALL	1	4	20	57	18
Prev Wk	1	4	21	57	17
Prev Yr	2	8	29	48	13

Cotton Crop Condition by Percent					
	VP	P	F	G	EX
AL	19	20	31	26	4
AZ	1	1	10	62	26
AR	0	12	48	38	2
CA	0	0	0	60	40
GA	0	3	18	65	14
LA	0	5	40	52	3
MS	2	9	27	56	6
MO	1	9	43	46	1
NM	0	12	29	50	9
NC	9	11	38	39	3
OK	0	5	27	65	3
SC	0	2	26	68	4
TN	4	11	36	45	4
TX	2	16	27	45	10
ALL	2	11	27	49	11
Prev Wk	3	10	31	45	11
Prev Yr	4	11	29	44	12

Sorghum Crop Condition by Percent					
	VP	P	F	G	EX
AR	0	3	28	59	10
CO	0	3	19	65	13
IL	4	3	31	53	9
KS	0	1	16	72	11
LA	0	2	36	57	5
MS	0	1	19	76	4
MO	1	6	35	44	14
NE	1	4	26	61	8
NM	0	0	27	73	0
OK	0	3	23	70	4
SD	1	2	27	58	12
TX	0	3	20	57	20
ALL	0	2	21	64	13
Prev Wk	0	2	18	62	18
Prev Yr	3	7	30	52	8

Oats Crop Condition by Percent					
	VP	P	F	G	EX
IA	0	3	23	61	13
MI	1	14	34	42	9
MN	8	15	30	37	10
NE	0	7	35	52	6
ND	6	22	42	29	1
OH	1	7	40	43	9
PA	0	5	30	53	12
SD	1	5	25	56	13
WI	0	2	15	68	15
ALL	3	10	29	48	10
Prev Wk	3	11	28	48	10
Prev Yr	1	4	26	59	10

(Continued on back cover)

## State Agricultural Summaries

*These summaries, issued weekly through the summer growing season, 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. The crop weather reports are also available on the Internet through the NASS Home Page on the World Wide Web at <http://www.usda.gov/nass/> or from JAWF at <http://www.usda.gov/oce/waob/jawf>.*

**ALABAMA:** Days suitable for fieldwork 3.7. Topsoil 49% adequate, 51% surplus. Corn silked 74%, 78% 1996, 76% avg.; dented 14%, 25% 1996, 23% avg.; 1% very poor, 3% poor, 14% fair, 66% good, 16% excellent. Wheat harvested 84%, 96% 1996, 91% avg. Livestock 4% fair, 76% good, 20% excellent. Farmers were busy spraying, cultivating where conditions allowed.

**ALASKA:** Days available for making hay 6.0. Topsoil 60% short, 40% adequate. Subsoil 65% short, 35% adequate. First crop hay harvest 60% complete, 35% ahead of 1996. Crop growth 10% slow, 60% moderate, 30% rapid. Barley 50% headed, oats 30% headed. Small grain height 15 inches. Barley 10% fair, 80% good, 10% excellent. Pasture feed, range 25% poor, 60% fair, 15% good.

**ARIZONA:** Small grain harvest 95% complete, 96% 1996, 97% avg. Alfalfa harvest activity 5% light, 22% moderate, 62% active, 11% not being harvested; 2% poor, 9% fair, 55% good, 34% excellent. A good volume of cantaloupe, watermelon, honeydew, specialty melons were shipped from western, central areas. Central areas growers shipped sweet corn, carrots, bell peppers. Dry onion harvest continued in eastern fields. Citrus season is all but complete. Grapes were being harvested in western, central areas. Range conditions continued to hold up well in the higher elevations, rating good to excellent. Mid-elevation pastures continued mostly fair to good. Lower elevation pastures rated mostly very poor to fair. Cattle, calves continued in mostly fair condition. Stockwater was short to adequate, soil moisture was short in most all areas. Insect damage was reported as very light.

**ARKANSAS:** Days suitable for fieldwork 5. Soil moisture supplies 1% very short, 20% short, 75% adequate, 4% surplus. Main farming activities: Harvest of hay, soybean planting, rice, cotton, soybean herbicide application. Other farm activity included: Wheat harvest, fertilization of rice, cotton, cotton insect control, peach, blueberry, blackberry harvest, corn irrigation, tomato harvest.

**CALIFORNIA:** Field activities progressed normally under seasonable weather conditions in most areas. Grain harvests of wheat, barley, oats were nearly complete in the San Joaquin, Sacramento, desert valleys. Second crop plantings of corn, dry edible beans were ongoing. Sugarbeet harvesting was progressing normally in the San Joaquin Valley. Rice was treated for broadleaf weeds, grasses, lygus in the Sacramento, San Joaquin valleys. Cotton showed good growth, development in most areas, although some fields had inconsistent plant heights. Growers were actively irrigating, continuing pesticide treatments to control mites. Safflower, sunflowers were blooming in the Sacramento Valley; treatments for lygus, weeds continued. Blackeye beans were maturing, continued to be treated for insects. Corn was fertilized, sprayed for weeds, worms. Seed alfalfa was setting seed in Fresno County. Alfalfa, oat, sudangrass were cut, dried, baled for hay or green chopped. Nectarines, peaches, plums continued to be harvested. The apricot season was nearly complete. Heavy prune set has broken some tree branches. Early walnut varieties were sizing well, were showing a light crop; later varieties were showing a heavy crop. Table grape harvest was winding down in the Coachella Valley, as harvest began in the southern San Joaquin Valley. Wine grapes were two to three weeks ahead of schedule in the north coastal area. Lemon grades throughout the State have been fair to very good, with most lemons currently being packed from the south coast. Valencia orange picking was active. Approximately half the crop has been harvested, with quality better than average. Grapefruit harvest is about 75% complete. Harvest was nearly complete in the desert area, continues in areas further north. Fruit size was small this year. Color, taste

were excellent. Broccoli, cauliflower, lettuce harvests were moderately active along the coast. Cauliflower was transplanted in Stanislaus County. Bell pepper harvesting continued in Merced County. Cantaloupe, honeydew, watermelons were harvested in the San Joaquin Valley. Melon, vegetable harvests were completed in the desert valley. Bell peppers, tomatoes were treated to control worms, mildew, aphids. Squash was harvested in the San Joaquin Valley. Processing tomato harvest began in Fresno County. Garlic was harvested in the central coast areas. Sweet corn harvest was in full swing in Tulare County. Carrot, potato harvests progressed in Kern County. Onions were harvested in Kern, San Joaquin counties. Sweet potatoes were harvested in Merced County. Rangeland in the northern part of the State remained in good condition, with plenty of feed, water available at higher elevations. Rangeland at lower elevations was drying rapidly. Central, lower elevation rangeland was in poor condition. Some ranches were providing supplemental feeding. Vegetation at higher elevations was maturing, but remained adequate. Southern areas were very dry, with some supplemental feeding. Statewide, dry rangeland vegetation created a fire hazard. Livestock remained in good condition, although some heat-related problems were occurring at lower elevations.

**COLORADO:** Days suitable for fieldwork 6.6. Topsoil 13% very short, 26% short, 57% adequate, 4% surplus. Subsoil 11% very short, 20% short, 64% adequate, 5% surplus. Spring barley 95% headed, 97% 1996, 71% avg.; 45% turning color, 49% 1996, 21% avg.; 1% very poor, 3% poor, 18% fair, 67% good, 11% excellent. Oats 72% headed, 84% 1996, 66% avg.; 28% turning color, 23% 1996, 17% avg.; 1% very poor, 2% poor, 16% fair, 70% good, 11% excellent. Spring wheat 85% headed, 82% 1996, 70% avg.; 14% turning color, 38% 1996, 9% avg.; 1% very poor, 3% poor, 19% fair, 62% good, 15% excellent. Sorghum 97% emerged, 96% 1996, 87% avg.; 3% poor, 19% fair, 65% good, 13% excellent. Summer potatoes 1% very poor, 5% poor, 23% fair, 61% good, 10% excellent. Dry onion 2% very poor, 6% poor, 16% fair, 56% good, 20% excellent. Sugar beets 95% thinned, 100% 1996, 92% avg.; 1% very poor, 4% poor, 15% fair, 61% good, 19% excellent. Dry beans 99% emerged, 99% 1996, 88% avg.; 1% very poor, 2% poor, 20% fair, 62% good, 15% excellent. Alfalfa 94% 1st cutting, 92% 1996, 85% avg.; 7% 2nd cutting, 18% 1996, 16% avg.; 1% very poor, 6% poor, 15% fair, 63% good, 15% excellent. Winter wheat 94% turning color, 92% 1996, 87% avg.; 38% ripe, 41% 1996, 48% avg. Livestock mostly good to fair.

**DELAWARE:** Days suitable for fieldwork 6.0. Topsoil 6% very short, 53% short, 38% adequate, 3% surplus. Subsoil 8% very short, 38% short, 50% adequate, 4% surplus. Winter wheat 51% harvested, 69% 1996, 57% avg. Barley 100% harvested, 100% 1996, 97% avg. Corn 2% poor, 21% fair, 70% good, 7% excellent. Soybeans 3% poor, 8% fair, 84% good, 5% excellent; 82% planted, 79% 1996, 82% avg.; 5% bloomed, 0% 1996, 0% avg. Sorghum 10% fair, 90% good; 75% planted, 80% 1996, 96% avg. Cucumbers 10% harvested, 19% 1996, 10% avg. Snap beans 4% harvested, 2% 1996, 17% avg. Sweet corn 6% harvested, 3% 1996, 5% avg. Green peas 84% harvested, 98% 1996, 94% avg. Potatoes 5% harvested, 8% 1996, 5% avg. Apples 2% fair, 93% good, 5% excellent. Peaches 5% fair, 93% good, 2% excellent. Hay supplies 16% short, 83% adequate, 1% excellent. Clover, other hays 69% 2nd cutting harvested, 28% 1996, 34% avg. Alfalfa 83% 2nd cutting harvested, 53% 1996, 59% avg. Activities: Entire State in need of rain, good germination conditions for double-crop soybeans; peaches, blueberries, cabbage, peas, snap beans, some tomatoes are being harvested.

**FLORIDA:** Topsoil was adequate to surplus throughout the State, with scattered areas in short supply of moisture. Sixty-nine percent of peanuts were pegged, with condition fair 6%, good 32%, and excellent 62%. General rains in most areas slowed fieldwork and haying. Haying was active where weather permitted. Corn was tasseling and silking. Sugarcane growth was normal. Tobacco harvest was active. Cotton and forage were growing well. Dry weather is needed for weed control. Growers shipping mostly sweet corn, watermelons, tomatoes, and a very light amount of peppers. Other vegetables were being harvested for local sales in scattered areas of Peninsula. Groves, trees, and new crop fruit were in very good condition. Moisture was adequate, yet more rain is needed to refill ponds, lakes, streams. New growth was abundant. Valencia harvest is almost over. Grapefruit movement was very slow, and packinghouses were mostly closed, with few processors open. Several fresh-squeeze plants were still open. Caretakers were cutting cover crops, spraying, and fertilizing. Pasture feed was fair 15%, good 75%, and excellent 10%. Cattle was fair 10%, good 80%, and excellent 10%. Pasture conditions improved in most areas, following recent rains. However, central and Panhandle areas reported some flooding. Cattle conditions became better, following several weeks of good to excellent pasture.

**GEORGIA:** Days suitable for fieldwork 5.3. Soil moisture 1% very short, 12% short, 77% adequate, 10% surplus. Corn 61% dough, 66% 1996, 70% avg.; 20% dent, 33% 1996, 35% avg. Hay 3% poor, 25% fair, 66% good, 6% excellent. Peanuts 84% blooming, 96% 1996, 92% avg. Sorghum 2% poor, 19% fair, 76% good, 3% excellent; 87% planted, 95% 1996, 94% avg. Soybeans 97% planted, 97% 1996, 96% avg.; 1% setting pods, 2% 1996, 2% avg. Tobacco 6% poor, 29% fair, 60% good, 5% excellent; 25% harvested, 22% 1996, 18% avg. Watermelons 4% very poor, 15% poor, 28% fair, 46% good, 7% excellent; 53% harvested, 49% 1996, 55% avg. Apples 2% poor, 6% fair, 82% good, 10% excellent. Peaches 13% fair, 70% good, 17% excellent; 76% harvested, 80% 1996, 76% avg. Pecans 6% poor, 25% fair, 58% good, 11% excellent. Warm temperatures with timely rainfall improved crop condition slightly. Fieldwork was active with planting, harvesting progress near normal. Crop development continues slow due to cool conditions in late spring. Soil moisture levels down slightly. Areas previously too wet have dried out. Activities: Harvesting hay, applying herbicides, fungicides, insecticides, putting land plaster on peanuts, harvesting summer vegetables.

**HAWAII:** Trade wind weather continued. Farming, crop progress slowed by showery, windy weather in windward areas. Leeward areas fared better, windy conditions hampered farming activities. Banana production steady. Papaya production light, increase in some areas. Chinese cabbage steady, some disease noticed. Head cabbage steady. Watermelon in good condition with heavy production to continue.

**IDAHO:** Days suitable for fieldwork 6.0. Topsoil 6% surplus, 81% adequate, 13% short. Flood waters are still covering some cropland causing total loss in those areas. Spring wheat booted 91%. Barley booted 88%. Winter wheat headed 97%; 98% 1996; 93% avg. Potatoes 12 inches high 80%, 70% 1996, 66% avg.; closing middles 49%, 35% 1996, 30% avg. Potato 43% excellent, 42% good, 14% fair, 1% poor. Alfalfa hay harvested (1st cutting) 90%, 83% 1996, 88% avg.; 2nd cutting 8%, 6% 1996, 8% avg. Cherries harvested 87%, 38% 1996, 62% avg. Mint harvested 1%, 0% 1996, 1% avg. Irrigation water supply 58% excellent, 42% good. Activities: Preparing for grain harvest, weed control, irrigating.

**ILLINOIS:** Days suitable for fieldwork 5.4. Topsoil 3% very short, 26% short, 60% adequate, 11% surplus. Wheat harvest was in full swing last week. Planting of double-cropped soybeans continued as wheat was harvested. Sunshine, heat promoted crop growth, stressed some crops where moisture was short. Some areas received scattered rains while other areas were deluged. Farmers were spraying for corn borer, spraying herbicides on soybeans, spraying for alfalfa leafhopper. Other activities last week included baling hay, mowing roadsides. Corn height 50 in., 36 in. 1996, 41 in. avg. Wheat turning yellow 98%, 95% 1996, 99% avg.; ripe 79%,

81% 1996, 91% avg. Oats filled 61%, 58% 1996, 71% avg.; turning yellow 17%, 14% 1996, 34% avg.; ripe 2%, 1% 1996, 9% avg. Oats 1% poor, 12% fair, 75% good, 12% excellent. Sorghum headed 0%, 0% 1996, 1% avg. Alfalfa hay 2nd cutting 28%, 17% 1996, 34% avg. Alfalfa hay 1% very poor, 3% poor, 24% fair, 62% good, 10% excellent. Red clover hay cutting 87%, 87% 1996, 90% avg. Red clover 3% very poor, 1% poor, 20% fair, 70% good, 6% excellent.

**INDIANA:** Days suitable for fieldwork 5.7. Topsoil 9% short, 78% adequate, 13% surplus. Subsoil 6% short, 80% adequate, 14% surplus. Wheat harvest is in full swing in the southern region of State. Corn, soybeans continue to grow rapidly. Range, pasture feed 1% very poor, 6% poor, 21% fair, 62% good, 10% excellent. First cutting of alfalfa 90% complete; 2nd cutting of alfalfa 14% complete. Transplanting of tobacco 56% complete. Activities: Cutting hay, harvesting wheat, planting soybeans, applying herbicide, applying nitrogen to corn, cultivating corn, soybeans, caring for livestock.

**IOWA:** Days suitable for fieldwork 4.6. Topsoil short 11%, adequate 82%, surplus 7%. Subsoil short 8%, adequate 86%, surplus 6%. In spite of a few isolated storms containing high winds, hail, rapid growth in both beans, corn has helped crop development. Corn borers, leafhoppers are being reported in areas, some soybeans are experiencing herbicide injury. Alfalfa hay 1st harvest 100%, 92% 1996, 92% avg. Clover hay 1st harvest 89%, 67% 1996, 75% avg. Corn cultivated 1st time 89%, 80% 1996, 75% avg. Oats headed 97%, 93% 1996, 90% avg. Soybean acreage blooming is 13% while 4% in 1996, 14% avg. All crop conditions improved from last week. Corn 2% poor, 14% fair, 62% good, 22% excellent. Soybean 4% poor, 20% fair, 63% good, 13% excellent. Pasture feed 1% very poor, 10% poor, 30% fair, 50% good, 9% excellent. Livestock good.

**KANSAS:** Days suitable for fieldwork 5.4. Topsoil 2% very short, 20% short, 73% adequate, 5% surplus. Subsoil 1% very short, 17% short, 79% adequate, 3% surplus. Harvest advance due to drier conditions. Corn doughed 9%, 1% 1996, 1% avg. Sorghum headed 5%, 2% 1996, 1% avg. Soybeans setting pods 2%, 1% 1996, 0% avg. Sunflowers 11% fair, 78% good, 11% excellent. Sunflowers planted 94%, no historic data available; emerged 87%, no historic data; begin to petal 4%. Second cut alfalfa 63%, 69% 1996, 55% avg. Pasture condition 3% poor, 15% fair, 67% good, and 15% excellent. Stock water supplies 1% very short, 6% short, 90% adequate, 3% surplus. Major field activities included planting fall crops, cutting hay, harvesting wheat.

**KENTUCKY:** Days suitable for fieldwork 3.9. Second straight week of good weather for field work, including setting tobacco, harvesting wheat, planting soybeans, baling hay. Topsoil 6% short, 71% adequate, 23% surplus. Subsoil 5% short, 66% adequate, 29% surplus. Soybean height 7 in., total planted 80%; 5% poor, 24% fair, 53% good, 18% excellent. Corn tasseling 10%, 1% very poor, 8% poor, 29% fair, 50% good, 12% excellent. Tobacco 5% very poor, 17% poor, 40% fair, 35% good, 3% excellent. Burley 95% set, dark tobacco 96% set. Tobacco height under 12 in. 71%, 12-24 in. 22%, over 24 in. 7%. Barley harvested 98%, 2nd crop alfalfa hay harvested 33%, winter wheat harvested 56%. Good yields on wheat. Pasture feed 1% very poor, 4% poor, 28% fair, 49% good, 18% excellent.

**LOUISIANA:** Days suitable for fieldwork 5.0. Soil moisture 1% very short, 20% short, 63% adequate, 16% surplus. Corn 1% poor, 14% fair, 71% good, 14% excellent; 98% silked, 100% 1996, 97% avg.; 53% dough, 86% 1996, 76% avg.; 8% mature, 13% 1996, 9% avg. Some corn was irrigated where fields were too dry. Cotton development lagged behind the average. Growers were busy side dressing fields. Hay 96% 1st cutting, 94% 1996, 93% avg.; 17% 2nd cutting, 2% 1996, 4% avg. Peaches 1% poor, 41% fair, 58% good; 82% harvested, 56% 1996, 58% avg. Rice 0% ripe, 0% 1996, 1% avg. Sheath blight was heavy because of the hot, humid weather, growers actively treated fields. Sorghum 25% headed, 46% 1996, 44% avg.; 1% turning color, 4% 1996, 1% avg. Soybeans 97% planted, 98% 1996, 97% avg.; 93% emerged, 97% 1996, 95% avg.; 9% setting pods, 14% 1996, 6% avg. Spraying for armyworms active in some fields, growers replanted the last of fields that were flooded

out. Early crop remains on the short side in height. Sugarcane 2% poor, 22% fair, 51% good, 25% excellent. Spraying for borers was active. Crop was in excellent shape otherwise. Sweet potatoes 99% planted, 93% 1996, 89% avg. Wheat 100% harvested, 100% 1996, 99% avg. Livestock 2% poor, 25% fair, 65% good, 8% excellent. Vegetables 2% very poor, 11% poor, 31% fair, 50% good, 6% excellent.

**MARYLAND:** Days suitable for fieldwork 5.8. Topsoil 23% very short, 35% short, 42% adequate. Subsoil 14% very short, 38% short, 48% adequate. Winter wheat 49% harvested, 53% 1996, 47% avg. Rye 45% harvested, 52% 1996, 42% avg. Barley 97% harvested, 86% 1996, 88% avg. Soybeans 1% very poor, 10% poor, 27% poor, 58% good, 4% excellent; 79% planted, 77% 1996, 81% avg. Sorghum 9% poor, 28% fair, 56% good, 7% excellent; 100% planted, 90% 1996, 96% avg. Cucumbers 21% harvested, 26% 1996, 22% avg. Potatoes 8% harvested, 9% 1996, 11% avg. Snap beans 8% harvested, 19% 1996, 21% avg. Tobacco 2% poor, 7% fair, 87% good, 4% excellent. Apples 41% fair, 58% good, 1% excellent. Peaches 47% fair, 53%. Hay supplies 6% very short, 7% short, 84% adequate, 3% surplus. Alfalfa hay 62% 2nd cutting, 44% 1996, 51% avg. Clover, other hays 22% 2nd cutting, 11% 1996, 20% avg. Activities: Reports of dry weather across State, corn starting to tassle.

**MICHIGAN:** Days suitable for fieldwork 5.0. Parts of the eastern areas were hit by heavy rains, hail, and/or tornadoes causing some damage. Regions not affected were in need of rain. Temperatures were normal to below normal across the State. Topsoil 6% very short, 25% short, 59% adequate, 10% surplus. Subsoil 4% very short, 16% short, 70% adequate, 10% surplus. Corn height 23 in., 14 in. 1996. All hay 1st cutting harvested 90% 1997, 86% 1996, 86% avg.; 2% very poor, 14% poor, 41% fair, 37% good, 6% excellent. Range, pasture feed 3% very poor, 12% poor, 46% fair, 32% good, 7% excellent. Strawberries harvested 40, 79% 1996, 77% avg.

**MINNESOTA:** Days suitable for fieldwork 2.6. Topsoil 1% very short, 5% short, 63% adequate, 31% surplus. Corn 92% cultivated, 88% 1996, 78% avg.; 33 in. height, 32 in. 1996, 34 in. avg. Soybeans 65% cultivated, 59% 1996, 60% avg.; 11 in. height, 11 in. 1996, 11 in. avg. Spring wheat 90% jointed, 86% 1996, 95% avg.; 49% headed, 54% 1996, 72% avg. Oats 96% jointed, 96% 1996, 97% avg.; 81% headed, 82% 1996, 82% avg. Barley 93% jointed, 89% 1996, 95% avg.; 43% headed, 53% 1996, 71% avg. Alfalfa 95% 1st cutting, 98% 1996, 92% avg. Pasture feed 6% very poor, 17% poor, 36% fair, 37% good, 4% excellent. Spring wheat 3% very poor, 8% poor, 47% fair, 32% good, 10% excellent. Barley 3% very poor, 7% poor, 43% fair, 33% good, 14% excellent. Corn 2% very poor, 8% poor, 31% fair, 47% good, 12% excellent. Oats 8% very poor, 15% poor, 30% fair, 37% good, 10% excellent. Sugarbeets 3% very poor, 6% poor, 39% fair, 47% good, 5% excellent. Soybeans 3% very poor, 10% poor, 38% fair, 42% good, 7% excellent.

**MISSISSIPPI:** Days suitable for fieldwork 5.0. Soil moisture 8% short, 77% adequate, 15% surplus. Corn 70% silked, 85% 1996, 79% avg.; 32% dough, 49% 1996, 40% avg.; dent 10%, 16% 1996, 7% avg.; 2% very poor, 5% poor, 16% fair, 67% good, 10% excellent. Soybeans 91% planted, 100% 1996, 95% avg.; 87% emerged, 99% 1996, 92% avg.; 37% blooming, 52% 1996, 25% avg.; 1% very poor, 4% poor, 15% fair, 73% good, 7% excellent. Wheat 100% mature, 100% 1996, 100% avg.; 95% harvested, 100% 1996, 96% avg.; 2% poor, 17% fair, 73% good, 8% excellent. Peaches 47% harvested, 58% 1996, 56% avg.; 5% poor, 18% fair, 53% good, 24% excellent. Peanuts 20% fair, 80% good. Sweet potatoes 85% planted, 92% 1996, 95% avg.; 4% poor, 10% fair, 80% good. Hay 100% harvested (cool season), 100% 1996, 76% avg.; 55% harvested (warm season), 52% 1996, 57% avg.; 3% very poor, 12% poor, 38% fair, 43% good, 4% excellent. Watermelons 100% planted, 100% 1996, 100% avg.; 7% very poor, 8% poor, 33% fair, 45% good, 7% excellent. Blueberries 27% fair, 47% good, 26% excellent. Cattle 3% poor, 29% fair, 56% good, 12% excellent. Pasture feed 1% very poor, 2% poor, 27% fair, 53% good, 17% excellent. Activities: Main activities for the week included planting soybeans, harvesting wheat. Row crop producers were checking fields for insects, controlling

grasses, weeds. Hot, dry weather allowed cattlemen to finish harvesting hay.

**MISSOURI:** Days suitable for fieldwork 5.2. Topsoil 1% very short, 17% short, 73% adequate, 9% surplus. Moisture rating of 24% surplus reported in the east-central district, mostly adequate all areas. Combined single, double crop soybean planted acreage amounts to 95%. Showers, moderate temperatures benefiting row crops. Double-crop soybean planting is most advanced in the southern third of the State, with the Bootheel leading at 80%. Wheat harvest is most advanced in southwestern, southeastern districts at 92%, least advanced northeast at 9%. Oats harvested 13%, 15% 1996, 19% avg. Second crop alfalfa 36%, 41% 1996, 40% avg. Other hay 73% cut, 73% 1996, 73% avg. Pasture feed 1% very poor, 9% poor, 32% fair, 53% good, 5% excellent.

**MONTANA:** Days suitable for fieldwork 3.0. Topsoil 7% short, 83% adequate, 10% surplus. Subsoil 1% very short, 16% short, 74% adequate, 9% surplus. Most areas of the State received rain last week. Small grain crop looks good in most areas. There were many comments of the rain delaying hay harvest. Winter wheat 95% headed, 96% 1996, 95% avg. Winter wheat 22% turning, 9% 1996, 19% avg. Oats 93% boot, 80% 1996, 85% avg.; 56% headed, 33% 1996, 43% avg.; 4% turning, 0% 1996, 2% avg.; 11% poor, 35% fair, 44% good, 10% excellent. Alfalfa hay 1st cutting 43% complete, 57% 1996, 51% avg.; other hay 1st cutting 30% complete, 38% 1996, 37% avg.

**NEBRASKA:** Days suitable for fieldwork 5.0. Subsoil 1% very short, 19% short, 79% adequate, 1% surplus. Topsoil 3% very short, 25% short, 70% adequate, 2% surplus. Wheat combines began moving through the southern fields last week. However, below normal temperatures slowed crop development. Irrigation systems were in full swing in the southwest, central parts of the State due to short moisture supplies. Grasshopper activity was noted in many areas. Winter wheat 3% very poor, 13% poor, 37% fair, 44% good, 3% excellent; 92% turning color, 91% 1996, 94% avg.; 29% ripe, 28% 1996, 46% avg.; 3% harvested, 10% 1996, 16% avg. Corn 1% very poor, 2% poor, 14% fair, 66% good, 17% excellent; crop development was about week behind normal; some producers treated fields for corn borer. Soybeans 2% poor, 17% fair, 68% good, 13% excellent. 4% blooming, 0% 1996, 7% avg. Sorghum 1% very poor, 4% poor, 26% fair, 61% good, 8% excellent. Dry beans 7% poor, 35% fair, 52% good, 6% excellent; 1% blooming, 3% 1996. Alfalfa 1% very poor, 12% poor, 34% fair, 44% good, 9% excellent; 5% 2nd cutting, 15% 1996, 20% avg. Wild hay 3% very poor, 9% poor, 32% fair, 46% good, 10% excellent. Pasture feed, range 2% very poor, 10% poor, 29% fair, 56% good, 3% excellent; Other activities: Cultivating soybeans, spraying herbicides, irrigating crops, moving grain to market, routine chores.

**NEVADA:** Supplies of irrigation water remained adequate statewide. Haying continued in full swing. Alfalfa 1st cutting neared completion northwest, was gaining momentum northeast. Second cutting of alfalfa was getting underway in Smith and Mason valleys. Wheat, barley, oats heading was well along, some acreage had begun to turn color. Grain condition mostly good. Corn, sudan growth checked by moderated temperatures. Onions in good to excellent condition. Potatoes good condition. Most garlic good to excellent. Main farm, ranch activities: Alfalfa hay harvest, irrigating, spraying.

**NEW ENGLAND:** Days suitable for fieldwork 6.2. Topsoil 4% very short, 22% short, 63% adequate, 11% surplus. Subsoil 2% very short, 15% short, 72% adequate, 11% surplus. Pasture feed 4% poor, 20% fair, 60% good, 16% excellent. Maine potatoes: 100% planted, 100% 1996, 100% avg.; 100% emerged; condition good. Massachusetts potatoes: 100% planted, 100% 1996, 100% avg, 100% emerged; condition good to fair. Rhode Island potatoes 100% planted, 100% 1996, 100% avg, 100% emerged; condition excellent to good. Oats in Maine: 100% planted, 100% 1996, 100% avg.; 100% emerged; condition good. Barley in Maine: 100% planted, 100% 1996, 100% emerged; condition good. Field corn: 100% planted, 99% 1996, 100% avg, 99% emerged; condition good. Sweet

corn: 95% planted, 99% 1996, 99% avg.; 90% emerged; condition good to fair. Shade tobacco: 100% planted, 100% 1996, 100% avg.; condition good. Broadleaf tobacco: 99% planted, 95% 1996, 99% avg.; condition good to fair. First cut hay: 85% harvested, 65% 1996, 80% avg.; condition good. Second cut hay: 15% harvested, <5% 1996, 10% avg.; condition good to excellent. Apples: fruit set average to above average; fruit size average to above average; condition good to excellent. Peaches: fruit set average to below average; fruit size average to below average; condition good to fair. Pears: fruit set average; fruit size average; condition good. Strawberries: 65% harvested; fruit set average to above average; fruit size average to below average; condition good. Cranberries: full bloom to early bloom; condition good. Highbush blueberries: fruit set average; fruit size average; condition good. Wild blueberries: fruit set above average; fruit size good; condition good to excellent. Another week of very warm temperatures, good for crop growth, but the lack of rain in some areas has stressed crops, especially in RI and Eastern CT. Major farm activities: harvesting strawberries, peas, lettuce, spinach, rhubarb, asparagus and peas; side dressing corn; spreading manure on cut fields; spraying for weed and insect control; irrigating.

**NEW JERSEY:** Days suitable for fieldwork 7. Topsoil moisture reported short to adequate. Farmers are busy implementing pest control measures, irrigating extensively, planting and harvesting. Late summer vegetables are being planted after the spring crop has been harvested. Harvesting of lettuce (all types), spinach, leeks, herbs, parsley, turnips, endive, escarole, beets, cabbage (all types), peas, kale, pickles, cucumbers, fava beans, squash and swiss chard. Limited harvest of Italian egg plant, peppers reported. Harvest of tomatoes, sweet corn increasing. Cutting, baling of hay continues. Combining of wheat, barley reported. Pasture to be suffering from a lack of rain. Blueberries nearing their peak harvest (blue variety). Light harvest of the earliest varieties of peaches. Apples are sizing well. Harvesting of strawberries is nearly complete.

**NEW MEXICO:** Days suitable for fieldwork 6.8. Topsoil 7% very short, 25% short, 68% adequate. Hay harvest continued with the 2nd cutting of alfalfa 80% completed, third cutting 25% completed. Alfalfa 8% poor, 15% fair, 64% good, 13% excellent. Wheat harvest advanced to 60% complete, 82% 1996, 81% avg.; 2% poor, 11% fair, 82% good, 5% excellent. Warm weather has allowed the cotton crop to mature quickly after a slow start. Cotton 12% poor, 29% fair, 50% good, 9% excellent; 73% squaring, 86% 1996, 62% avg.; 8% setting bolls, 13% 1996, 9% avg. Abundant rainfall throughout the spring, early summer has the sorghum crop off to one of the best starts in years. Sorghum 27% fair, 73% good. Onion harvest reached 50% complete, 59% 1996; 9% fair, 60% good, 31% excellent. Chile pod set 94% avg.; 6% poor, 27% fair, 60% good, 7% excellent. Corn continued to improve, 2% fair, 85% good, 13% excellent. Cattle, sheep continued to be in mostly good condition. Range, pasture feed conditions declined slightly to 1% very poor, 6% poor, 34% fair, 55% good, 4% excellent.

**NEW YORK:** Days suitable for fieldwork 6.0. Soil moisture 36% very short, 21% short, 43% adequate. Pasture feed 10% very poor, 20% poor, 70% fair. Rain needed to relieve dryness. Corn 100% planted. Hay 50% fair, 50% good. First cutting alfalfa completed. Moisture needed for regrowth. Wheat 100% good condition. Dry bean planting near completion. Potatoes blooming. Soybean planting finished. Hudson Valley fruit in good condition, developing well. Sweet cherry harvest underway in Hudson Valley. Lake Erie grapes completed bloom. Irrigation active in orchards, vineyards. Vegetables being irrigated to combat dryness. Warm weather good for development. Excellent strawberry season. Vegetable crops in good condition.

**NORTH CAROLINA:** Days suitable for fieldwork 6.0. Severe weather hit several areas in the State, storms affected localized areas only. Farmers were able to work the fields most of the week, only stopping to watch mother nature's fireworks display in a thunderstorm. Soil moisture 14% very short, 35% short, 45% adequate, 6% surplus. Activities for the week included: Planting sorghum, soybeans, sweet potatoes, Burley tobacco; fertilizer,

herbicide applications on corn; harvesting small grains, Irish potatoes, peaches; cutting hay; maintaining pastures; tending livestock; repairing equipment; and general farm maintenance

**NORTH DAKOTA:** Days suitable for fieldwork 4. Frequent rain showers and below normal temperatures dominated the week, raising crop disease and slowing haying operations. Topsoil moisture supplies: 2% very short, 17% short, 69% adequate, 12% surplus. Subsoil moisture supplies: 2% very short, 19% short, 69% adequate, 10% surplus. Small grain development remained ahead of 1996, slightly behind average. Durum wheat 78% jointing and beyond, 51% boot and beyond, 25% heading and beyond, 2% milk and beyond; 71%, 38%, 18%, 4% 1996; 83%, 54%, 25%, 4% avg. Late season crops: canola 83% rosette and beyond, 46% blooming and beyond; 90%, 45% 1996; dry edible beans 5% blooming and beyond, 2% 1996, 5% avg.; flaxseed 27% blooming and beyond; 9% 1996; 9% avg.; potatoes 8% blooming and beyond; 8% 1996; 22% avg.; soybeans 2% blooming and beyond; 0% 1996; 3% avg. Potato, sugarbeet, dry edible bean conditions declined considerably due to surplus soil moisture supplies in the major growing areas. Emerged crops: durum 12% very poor, 27% poor, 34% fair, 26% good, 1% excellent; canola 4% very poor, 20% poor, 36% fair, 31% good, 9% excellent; corn 7% poor, 20% fair, 59% good, 14% excellent; dry edible beans 3% very poor, 13% poor, 37% fair, 44% good, 3% excellent; flaxseed 3% very poor, 17% poor, 37% fair, 41% good, 2% excellent; potatoes 7% very poor, 10% poor, 32% fair, 48% good, 3% excellent; soybeans 6% poor, 20% fair, 57% good, 17% excellent; sugarbeets 2% very poor, 9% poor, 25% fair, 58% good, 6% excellent; sunflower 6% poor, 29% fair, 56% good, 9% excellent. Pasture feed 8% very poor, 31% poor, 39% fair, 21% good, 1% excellent.

**OHIO:** Days suitable for fieldwork 4.2. Topsoil 3% short, 73% adequate, 24% surplus. Average corn development stage at 7 to 8 leaves. Soybeans 99% emerged, 86% 1996, 96% avg. Soybeans blooming is still more than one week ahead of last year. Oats headed increased 19 points from the previous week, slightly behind 1996, avg. Winter wheat 89% turning color, 94% 1996, 96% avg.; winter wheat 4% ripe. Alfalfa hay 1st cutting 95%, 96% 1996, 99% avg.; 2nd cutting 9%, 13% 1996, 24% avg. Other hay 1st cutting 88%, 86% 1996, 94% avg.; 2nd cutting 5%, 9% 1996, 13% avg. Strawberries 82% harvested, 87% 1996, 93% avg. Activities throughout the State included mowing, raking, baling, green chopping hay; mowing ditches; clipping pastures; spraying herbicides, pesticides; scouting fields; side dressing, cultivating; replanting drowned out spots; fence maintenance; repairing, preparing machinery for harvest. Northeastern district, growers are garden harvesting peas, radishes, and lettuce. Adams County, growers are setting tobacco plants. Few growers are starting to harvest winter wheat, oats. Meigs County, they are picking sweet corn, half-runner beans. Reporters mentioned some weed pressure: Canadian thistles; giant ragweed; wild cucumber; other annual grasses, broadleaf weeds. Throughout the whole State, Potato leafhopper in alfalfa is a current problem. One reporter in the Northwestern district stated the threshold levels for Potato leafhoppers were met in many alfalfa fields. Another reported alfalfa pest was the Meadow spittlebug. European corn borer moth activities are lower than the previous week in southern Ohio. Northeastern district had numerous reports of corn borer egg masses in corn. Reported diseases: head scab, septoria in wheat; pythium in soybeans. Hay 1% very poor, 5% poor, 32% fair, 53% good, 9% excellent. Livestock 2% poor, 26% fair, 60% good, 12% excellent.

**OKLAHOMA:** Days suitable for fieldwork 5.2. Topsoil 13% short, 85% adequate, 2% surplus. Subsoil 6% short, 91% adequate, 3% surplus. Hot, dry weather early week gave way to cool, wet weather. Wheat 41% plowed, 72% 1996, 53% avg.; oats 70% harvested, 100% 1996, 79% avg.; 29% plowed, 69% 1996, 42% avg.; Corn 60% tasseling, 77% 1996, 50% avg.; 18% milk-to-soft, 16% 1996, 13% avg.; sorghum 93% planted, 99% 1996, 94% avg.; 78% up-to-stand, 87% 1996, 82% avg.; soybeans 89% planted, 99% 1996, 81% avg.; 76% up-to-stand, 91% 1996, 69% avg.; 4% flowering, 37% 1996, 14% avg.; peanuts 97% up-to-stand, 99% 1996, 93% avg.; 27% setting pods, 17% 1996, 4% avg.; cotton 99% up-to-stand, 100%

1996, 95% avg.; alfalfa hay 81% 2nd cutting, 81% 1996, 75% avg.; 10% 3rd cutting, 19% 1996, 14% avg.; all other hay 73% 1st cutting, 65% 1996, 83% avg.; 5% 2nd cutting, 16% 1996, 19% avg.; Watermelons 0% harvested, 14% 1996; livestock 1% poor, 17% fair.

**OREGON:** Days suitable for fieldwork 6.6. Topsoil 10% short, 90% adequate. Subsoil 7% short, 93% adequate. Winter wheat 1% poor, 6% fair, 59% good, 34% excellent. Activities: Eastern field crops looking good. Barley harvest started in Mid-Columbia area. Grass seed, mint harvest underway in northeast. Some crop damage reported in Malheur County due to high winds. West side haying plagued with rain showers. Some baled hay still in field. Grass seed harvest underway in some areas, ripening in others. Nurseries shifting into summer maintenance work, balled, burlap operations still active. Irrigation continued. Willamette Valley vegetables benefited from last week's showers, moderate temperatures. Green peas, snap beans being harvested in some areas. Carrots, table beets, snap beans, potatoes, zucchini being harvested for fresh market. Eastside final hilling, cultivation of potatoes underway in late planted fields. Harvest of chipping potatoes in full swing in northeast. Strawberry harvest completed. Raspberry, early blackberry, early blueberry harvest underway. Marion variety of blackberries ripening quickly. Willamette Valley sweet cherry harvest continued, while Milton-Freewater, The Dalles district sweet cherries mostly harvested. Tart cherry harvest completed. Sulfur being applied to vineyards to combat fungus, disease problems. Southern coast cranberry growers continued to combat black-headed fireworm. Livestock condition good to excellent throughout State. Rain, cooler temperatures aided ranges, pastures, extending the season for ranges in east, keeping pastures green in west. Cattle auctions in Willamette Valley showed improving prices for feeder calves.

**PENNSYLVANIA:** Good week for fieldwork. Days suitable for fieldwork 5.7. Soil moisture 7% very short, 31% short, 62% adequate. Avg. corn height 28 in., 31 in. 1996, 28 in. avg. Corn crop condition 7% poor, 30% fair, 55% good, 8% excellent. Soybean crop condition 4% poor, 22% fair, 60% good, 14% excellent. Barley 85% ripe, 88% 1996, 72% avg.; 65% harvested, 65% 1996, 51% avg. Winter wheat 85% turning yellow, 90% 1996, 83% avg.; 25% ripe, 43% 1996, 31% avg.; 3% harvested, 12% 1996, 7% avg.; 23% fair, 60% good, 17% excellent. Oats 85% heading or headed, 85% 1996, 48% avg.; 20% turning yellow, 36% 1996, 21% avg.; 5% poor, 30% fair, 53% good, 12% excellent. Alfalfa 1st cutting 93% complete, 87% 1996, 92% avg.; 2nd cutting 34% complete, 39% 1996, 31% avg. Timothy clover 1st cutting 74% complete, 71% 1996, 79% avg. Quality of hay made 4% poor, 17% fair, 50% good, 29% excellent. Peach 5% very poor, 20% poor, 25% fair, 50% good. Apple 10% poor, 25% fair, 65% good. Activities: Harvesting small grains; making hay and haylage; spraying; fixing fences; hauling manure; caring for livestock.

**SOUTH CAROLINA:** Days suitable for fieldwork 5.7. Soil moisture 2% very short, 17% short, 72% adequate, 9% surplus. Barley 98% harvested, 99% 1996, 91% avg.; 8% fair, 68% good, 24% excellent. Cantaloupes 76% harvested, 71% 1996, 60% avg.; 29% poor, 32% fair, 32% good, 7% excellent. Corn 94% silked, 92% 1996, 89% avg.; 55% doughed, 47% 1996, 49% avg.; 10% matured, 14% 1996, 12% avg.; 1% poor, 16% fair, 61% good, 22% excellent. Cucumbers 78% harvested, 81% 1996, 75% avg.; 5% poor, 42% fair, 49% good, 4% excellent. Oats 100% ripe, 100% 1996, 99% avg.; 99% harvested, 100% 1996, 95% avg.; 17% fair, 61% good, 22% excellent. Peaches 44% harvested, 36% 1996, 34% avg.; 4% poor, 44% fair, 48% good, 4% excellent. Rye 100% harvested, 99% 1996, 90% avg.; 2% poor, 21% fair, 39% good, 38% excellent. Snap beans 69% harvested, 58% 1996, 47% avg.; 13% fair, 83% good, 4% excellent. Sorghum 90% planted, 93% 1996, 84% avg.; 13% fair, 68% good, 19% excellent. Tobacco 77% topped, 79% 1996, 73% avg.; 8% harvested, 10% 1996, 8% avg.; 2% poor, 15% fair, 71% good, 12% excellent. Tomatoes 57% harvested, 85% 1996, 81% avg.; 21% fair, 74% good, 5% excellent. Watermelons 68% harvested, 60% 1996, 57% avg.; 6% poor, 55% fair, 37% good, 2% excellent. Winter wheat 98% ripe, 100% 1996, 100% avg.; 90% harvested, 99% 1996, 97% avg.; 2% poor, 9% fair, 67% good, 22% excellent.

**SOUTH DAKOTA:** Days suitable for fieldwork 4.6. Topsoil 5% very short, 14% short, 74% adequate, 7% surplus. Subsoil 7% short, 84% adequate, 9% surplus. Farmers are keeping busy with weed control. Wet, cool weather is benefitting small grains, retarding row crop development. Winter wheat 95% headed, 42% turning color, 1% ripe. Spring wheat 84% boot, 68% headed, 3% turning color. Winter rye 97% headed, 31% turning color, 2% ripe. Winter rye 5% very poor, 7% poor, 36% fair, 46% good, 6% excellent. Alfalfa hay 4% very poor, 6% poor, 29% fair, 47% good, 14% excellent. Flax 2% very poor, 9% poor, 31% fair, 51% good, 7% excellent. Oats 5% turning color. Barley 6% turning color. Sorghum 1% very poor, 2% poor, 27% fair, 58% good, 12% excellent. Sunflowers 1% very poor, 5% poor, 24% fair, 52% good, 18% excellent. Sunflowers 97% planted, 1% blooming. Flax 39% blooming. Soybeans 5% blooming. Alfalfa hay cut once 85%, cut twice 2%. Other hay harvested 39%. Livestock 1% poor, 9% fair, 64% good, 26% excellent. Stock water supplies 1% short, 84% adequate, 15% surplus.

**TENNESSEE:** Days suitable for fieldwork 4.0. Topsoil 73% adequate, 27% surplus. Subsoil 75% adequate, 25% surplus. Producers took advantage of the dry weather, sunshine received last week, to harvest wheat, hay, cultivate tobacco, continue planting soybeans. Farmers pressed into fields to reach a near normal level, yet progress, development of crops have not caught up to the average pace. Corn 2% very poor, 6% poor, 22% fair, 53% good, 17% excellent; 46% tasseled, 77% 1996, 60% avg. Tobacco 10% poor, 41% fair, 43% good, 6% excellent; 94% transplanted, 99% 1996, 100% avg. Wheat 86% harvested, 97% 1996, 95% avg. Sorghum 34% fair, 57% good, 9% excellent; 6% headed, 4% 1996, 7% avg. Pasture feed 2% poor, 16% fair, 60% good, 22% excellent. Alfalfa hay 2% poor, 27% fair, 55% good, 16% excellent; 34% 2nd cutting, 64% 1996, 74% avg. Other hay 1% very poor, 7% poor, 28% fair, 49% good, 15% excellent. Cattle 1% poor, 14% fair, 67% good, 18% excellent.

**TEXAS:** Summer conditions covered the State during the week. Hot, drying conditions made for good growth and development on spring-planted crops, and allowed harvest activities to make good progress. Many Hill Country areas reported first open week without rainfall in many weeks. Irrigation activity increased. Insect activity was up in some areas. Disease problems also increased due to a very wet spring in many areas. Haying activity made good progress, with open weather. Livestock conditions remained good as did livestock markets. Crops: Small Grains: Harvest operations were active in the Plains under hot, open conditions. Yields continued better than earlier expected in many dryland fields. Irrigated yields were affected some by a late freeze. Corn: Fields in most areas made very good progress during the week. Fields matured rapidly in Coastal and Southern areas, as well as Rio Grande Valley. Irrigation activity increased in the High Plains. Fields continued to enter the dough stage in the Blacklands and Central regions. Development was 34% doughing, compared with 49% in 1996 and the 49% avg.; 12% denting, compared with 29% in 1996 and the 28% avg.; and 1% mature, compared with 1% in 1996 and the 5% avg. Cotton: Growth and development improved dramatically in the Plains under hot conditions along with recent good moisture. Fields also responded favorably to warm weather in the Blacklands and Central regions. Bolls were beginning to open in the Coastal Bend and Rio Grande Valley, with 1% open bolls, compared with 4% in 1996 and the 3% avg. Grain Sorghum: Virtually all planting activity was completed during the week in the Plains. Planted fields made good progress, and irrigation operations increased. Rain may be needed some in the Blackland and Central areas. However, progress for the week was good with many fields turning color. Fields continued to mature in the Coastal Bend and Rio Grande Valley, where harvest was slowly increasing, with 37% turning color, compared with 39% in 1996 and the 44% avg.; 4% mature, compared with 22% in 1996 and the 22% avg.; 1% harvested, compared with 6% in 1996 and the 7% avg. Peanuts: Fields continued to make good progress in the Plains and North Central areas, where planting operations were winding down. Planting continued in the South Central areas, where growth was good on early-planted fields. Rice: Fields continued to head out, with moderate disease problems showing up. Flooding of fields remained active. Soybeans: Planting was virtually completed in the Plains

under open conditions. Irrigation operations increased. Rain is needed along the Upper Coast for good pod development. Prospects continued to be good in the northern Blacklands. Sugarbeets: Fields continued to look good in the High Plains. Other Crops: Oats were harvested 94%, compared with 92% in 1996 and the 76% avg.

**Commercial Vegetables:** In the Rio Grande Valley, harvest activity was winding down for many vegetables. In the San Antonio-Winter Garden, watermelon harvest was active during the week. Cantaloup harvest also increased. In the High Plains, onions and potatoes continued to make good progress as harvest neared. In the east, good production on most vegetables continued with some disease problems still showing up. In Trans-Pecos, cantaloup harvest increased. Peaches: Harvest continued in many areas, with brown rot still being a major problem. Pecans: Trees in some areas have begun to shed nuts because of heavy sets. Irrigation where available will continue to increase as hot, dry conditions set in for the summer. Second generation casebearers continued to populate groves in some areas.

**Range and Livestock:** Hot, drying conditions made for good haying activity in most areas. Yields been very good. The hot weather slowed growth in many native pastures. Livestock conditions remained good in most areas. Market prices were steady to higher in many areas.

**UTAH:** Days suitable for fieldwork 6.9. Topsoil 27% short, 68% adequate, 5% surplus. Subsoil 31% short, 56% adequate, 13% surplus. Pasture feed, range 2% poor, 14% fair, 74% good, 10% excellent. Irrigation water supplies 78% adequate, 22% surplus. Stock water supply 6% short, 94% adequate. Spring wheat heading or better 90%, 90% 1996, 92% avg. Barley heading or better 87%, 96% 1996, 93% avg. Oats heading or better 60%, 58% 1996, 64% avg.; harvest for hay or silage 30%, 19% 1996, 20% avg. Corn height 29 in., 31 in. 1996, 27 in. avg. Alfalfa hay 1st cutting 94%, 96% 1996, 97% avg.; 2nd cutting 11%, 14% 1996, 16% avg. Other hay cutting 52%, 35% 1996, 44% avg. Apricots 5%. Sweet cherries picked 70%, 49% 1996. Tart cherries picked 9%. Major farm, ranch activities were: Hay cutting, irrigating, picking fruit.

**VIRGINIA:** Days suitable for fieldwork 5.5. Topsoil 10% very short, 40% short, 45% adequate, 5% surplus. Subsoil 7% very short, 32% short, 61% adequate. Corn 2% very poor, 23% poor, 40% fair, 30% good, 5% excellent; 10% silked, 18% 1996, 16% avg. Soybeans 72% planted, 81% 1996, 79% avg.; 5% very poor, 15% poor, 39% fair, 40% good, 1% excellent. Cotton 4% very poor, 17% poor, 57% fair, 22% good. Winter wheat 62% harvested, 65% 1996, 60% avg.; 10% poor, 30% fair, 50% good, 10% excellent. Barley 85% harvested, 83% 1996, 90% avg.; 4% poor, 31% fair, 55% good, 10% excellent. Apples 5% very poor, 15% poor, 30% fair, 45% good, 5% excellent. Peaches 25% very poor, 35% poor, 20% fair, 20% good. Flue tobacco 5% poor, 40% fair, 45% good, 10% excellent. Burley tobacco transplanted 99%, 99% 1996, 99% avg.; 5% very poor, 15% poor, 40% fair, 40% good. Dark fire cured tobacco 5% poor, 55% fair, 35% good, 5% excellent. Peanuts pegged 10%, 27% 1996; 5% poor, 30% fair, 60% good, 5% excellent. Summer potatoes harvested 22%, 19% 1996, 15% avg.; 3% very poor, 30% poor, 32% fair, 34% good, 1% excellent. Pasture feed 3% very poor, 16% poor, 41% fair, 37% good, 3% excellent. Alfalfa 6% poor, 38% fair, 46% good, 10% excellent. Other hay 15% poor, 45% fair, 35% good, 5% excellent. Overall, conditions remain dry despite the general rain received in most areas. Although these showers were widely spread, they varied greatly in amounts bringing much needed relief to some localities in the State. Slightly improved soil moisture supplies allowed soybean planting to continue. Some flooding was reported in the northern, piedmont portion of the State with rainfall ranging from 1.5 to 10 inches. Severe hail damage was reported in some corn, tobacco fields in the southwestern portion of the State. Peanut pegging has begun, land plaster is being applied to peanut acreage. Blue mold infestation continues to be a threat in the southwestern portion of the State. Burley, flue tobacco producers continue to monitor, treat their crops for blue mold. Beef producers are feeding hay that is already in short supply. Some first cutting of over mature hay continues in a few southwestern localities due to wet

conditions. Other activities include vegetable irrigation, harvesting, baling wheat straw, harvesting hay.

**WASHINGTON:** Days suitable for fieldwork 6.4. Topsoil 5% short, 90% adequate, 5% surplus; subsoil 5% short, 94% adequate, 1% surplus. Winter wheat dryland 5% fair, 75% good, 20% excellent; irrigated 80% good, 20% excellent. Spring wheat, dryland 5% fair, 75% good, 20% excellent; irrigated 90% good, 10% excellent. Barley dryland, 10% fair, 75% good, 15% excellent; irrigated 98% good, 2% excellent. Corn 100% good. Mild conditions with adequate moisture continued to favor grain fill, yield outlooks were promising. Warmer temperatures were anticipated to ripen grain, harvest remained two to three weeks away in most areas. Potatoes, 100% good. Potatoes were in bloom. Hay, other roughage supplies, 1% very short, 10% short, 85% adequate, 4% surplus. Hay producers finally received favorable conditions, 85% of the first cutting of timothy hay was reported. Oat hay is expected to be cut within a week. The exception was in the northeast where the weather, alfalfa weevil continued to plague hay producers. Range, pasture feed 5% poor, 15% fair, 70% good and 10% excellent. Pasture conditions continue to look good in most areas. Strawberry harvest neared completion, raspberry harvest continued with few fungus problems. Blueberries filled out nicely. In eastern areas, apricots were harvested, some damage to cherries was reported. Mirt was cut, apple, grape thinning continued. Green peas were still in bloom, pod set advanced.

**WEST VIRGINIA:** Days suitable for fieldwork 4.3. Topsoil 1% very short, 10% short, 85% adequate, 4% surplus. Corn 9% poor, 32% fair, 58% good, 1% excellent; 4% silking, 1% 1996. Hay 5% poor, 29% fair, 57% good, 9% excellent; 1st cutting of hay 78%, 76% 1996, 85% avg.; 2nd cutting 2%, 5% 1996, 12% avg. Oats 36% fair, 64% good; 83% headed, 86% 1996; 5% harvested, 13% 1996. Soybeans 1% poor, 43% fair, 56% good; 97% planted, 94% 1996, 96% avg.; 4% blooming. Tobacco 21% fair, 79% good; transplanted 98%, 100% 1996, 100% avg. Wheat 1% poor, 63% fair, 36% good; 19% harvested, 16% 1996, 20% avg. Apple 60% fair, 32% good, 8% excellent. Peach 16% poor, 84% fair. Cattle 15% fair, 80% good, 5% excellent. Sheep 8% fair, 89% good, 3% excellent. Activities: Making hay, harvesting wheat, cultivating weeds, general maintenance.

**WISCONSIN:** Days suitable for fieldwork 4.4. Soil moisture 1% very short, 10% short, 80% adequate, 9% surplus. Second crop hay harvest has begun in most of the southern two-thirds of the State with 5% cut, 4% avg. First crop hay harvest wrapped up at 93% complete, statewide. Farmers harvested the remaining matured first crop between showers, while warm temperatures, rain boosted new growth for second crop. A reporter from Dodge County noted potato leafhopper numbers were high in second crop, new seeded alfalfa fields. A reporter from Sheboygan County, in the East Central district observed corn height at "knee-high on the fourth of July." Strong winds caused small grains to lodge in Chippewa, Price, and St. Croix counties. The strawberry crop was about done in the Southwest district, but only a few berries were ripe in Douglas County. The cranberry crop was 40-70% in bloom, with some early varieties already setting fruit, according to a Wood County reporter. Winter wheat was starting to turn color in Jefferson, Walworth counties.

**WYOMING:** Days suitable for fieldwork 6.4. Topsoil 2% very short, 38% short, 59% adequate, 1% surplus. Subsoil 1% very short, 25% short, 73% adequate, 1% surplus. Winter wheat 80% turning color, 91% 1996, 59% avg.; 10% mature, 26% 1996, 21% avg. Barley 74% headed, 79% 1996, 73% avg.; 6% turning color, 8% 1996, 18% avg. Oats 57% headed, 69% 1996, 52% avg.; 5% turning color, 18% 1996, 9% avg. Spring wheat 66% headed, 62% 1996, 57% avg.; 13% turning color, 20% 1996, 18% avg. Corn average height in inches 29, 23 in. 1996. Dry beans 16% bloom, 3% 1996, 8% avg. Alfalfa 64% 1st cutting complete, 62% 1996, 60% avg. Other hay acreage harvested 26% complete, 30% 1996, 25% avg. Scattered reports of alfalfa weevils, cutworms, sugarbeet maggots, mosaic in winter wheat. Grasshoppers becoming widespread. Range, pasture feed 2% poor, 11% fair, 75% good, 12% excellent. Livestock are in mostly good condition.

**International Weather and Crop Summary**

June 29 - July 5, 1997

**HIGHLIGHTS**

**FSU-WESTERN:** Frequent showers in Ukraine and southern Russia hampered early winter grain harvesting but provided beneficial moisture for summer crop development.

**FSU-NEW LANDS:** Timely showers benefited spring grains in Kazakstan, while a brief heat wave stressed spring grains in eastern areas of Russia.

**EUROPE:** Unseasonably cold, wet weather persisted in the northwest, while unfavorably hot, dry weather prevailed in the southeast.

**AUSTRALIA:** Showers benefited Western Australia's winter grains, but the east remained unfavorably dry.

**SOUTH ASIA:** Generous monsoon rains have created favorable growing conditions for nearly all summer crops.

**CANADA:** Beneficial rain covered the southern and eastern Prairies and much-needed dryness aided Alberta's northern crops.

**SOUTHEAST ASIA:** Below-normal rainfall continued to stress corn and rice across central Thailand and oil palm in eastern peninsular Malaysia.

**EASTERN ASIA:** Widespread, timely rain eased stress on summer crops across the North China Plain.

**SOUTH AMERICA:** In Argentina, dryness slowed wheat planting in Cordoba and Santa Fe. In southern Brazil, showers continued to benefit vegetative winter wheat.

**MEXICO:** Seasonal showers favored vegetative corn across most of the main corn belt.

**June 1997**

**MONTHLY DATA FROM SELECTED FOREIGN CITIES  
CLIMATE PREDICTION CENTER-NCEP-NWS-NOAA**

\*\*\* DATA NOT AVAILABLE

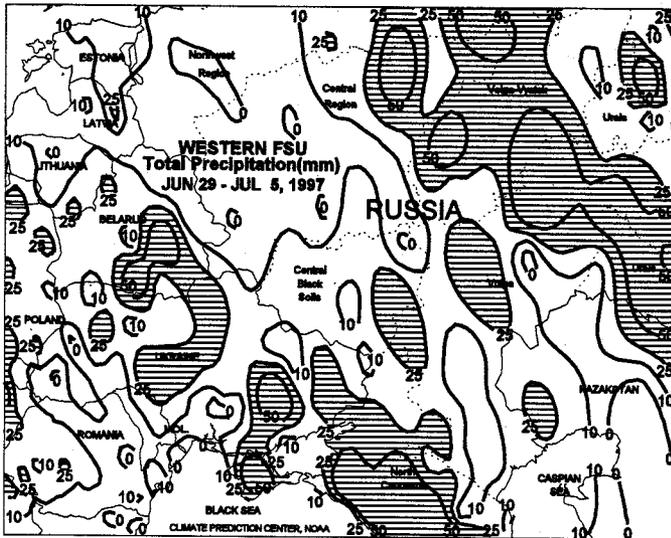
COUNTRY CITY	TEMPERATURE (C)					PRECIPITATION (MM)	
	AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL F/NRM
NORWAY OSLO	20	10	27	6	15	1.0	80 7
SWEDEN STOCKHOLM	21	11	27	4	16	0.4	130 83
FINLAND HELSINKI	22	10	28	-1	16	1.1	65 21
UKINGDO GLASGOW	18	9	23	3	14	-0.5	82 17
EDINBURGH	16	9	23	4	13	-0.2	125 75
BIRMINGHAM	18	10	26	5	14	0.0	134 77
LONDON	19	11	26	7	15	1.1	143 87
IRELAND DUBLIN	16	9	20	4	13	-1.0	140 84
ICELAND REYKJAVIK	11	6	15	0	9	0.2	43 -7
DENMARK COPENHAGEN	20	11	24	6	15	-0.3	87 40
LUXEMBO LUXEMBOURG	20	12	28	6	16	0.3	209 135
SWITZERL ZURICH	20	12	28	6	16	0.8	204 76
GENEVA	22	13	30	7	17	0.6	169 82
FRANCE PARIS/ORLY	22	13	29	10	17	***	142 **
STRASBOURG	22	13	30	8	18	0.7	154 79
BOURGES	22	12	29	9	17	0.2	97 40
BORDEAUX	23	14	32	10	19	1.0	175 118
TOULOUSE	24	15	30	10	19	0.8	110 50
MARSEILLE	26	17	32	12	21	0.6	67 38
SPAIN VALLADOLID	23	11	30	8	17	-0.7	57 22
MADRID	26	14	32	10	20	-0.7	24 -2
SEVILLE	30	18	35	14	24	-1.3	16 7
PORTUGA LISBON	23	16	28	13	19	-0.9	57 34
GERMANY HAMBURG	21	11	27	5	16	0.6	105 31
BERLIN	23	13	33	6	18	0.3	83 8
DUSSELDORF	22	12	29	6	17	-0.3	158 90
LEIPZIG	22	11	32	6	17	-0.1	83 16
DRESDEN	21	12	32	6	17	0.0	88 20
STUTTGART	21	11	29	4	16	-0.1	151 57
NURNBERG	22	11	32	3	16	-0.4	86 11
AUSTRIA VIENNA	23	13	31	5	18	0.0	87 25
INNSBRUCK	23	12	29	7	17	1.1	167 60
CZECHRE PRAGUE	21	10	31	2	18	-0.3	62 -11
POLAND WARSAW	22	11	33	7	17	-0.1	84 12
LODZ	21	11	33	4	16	0.3	64 -6
KATOWICE	22	11	33	4	17	0.7	107 20
PRZEMYSL	22	11	30	7	17	0.3	63 -34
HUNGARY BUDAPEST	25	14	34	4	20	0.9	98 35
YUGOSLA BELGRADE	27	17	35	8	22	1.8	50 -43
ROMANIA BUCHAREST	28	14	33	6	21	0.5	57 -31
BULGARIA SOFIA	26	14	34	7	20	2.0	37 -47
ITALY MILAN	26	18	32	11	22	1.1	268 200
VERONA	26	16	31	10	21	0.2	159 72
VENICE	25	17	30	11	21	0.2	50 -25
GENOA	23	19	28	13	21	-0.4	164 115
ROME	28	14	32	11	21	0.1	28 7
NAPLES	29	19	36	13	24	2.7	7 -28
GREECE THESSALONIKA	30	18	36	11	24	0.1	22 -10
LARISSA	32	17	41	12	25	0.0	29 5
ATHENS	30	21	36	16	25	0.3	9 1
TURKEY ISTANBUL	26	18	33	9	22	1.4	30 6
ANKARA	25	11	33	1	18	-2.5	58 20
CYPRUS LARNACA	30	20	35	13	25	0.2	3 -2
ESTONIA TALLINN	20	10	28	2	15	0.5	76 26
LITHUANI KAUNAS	21	11	31	6	16	0.1	100 7
BELARUS MINSK	21	12	30	9	17	0.6	152 75
RUSSIA KAZAN	24	15	29	10	19	1.9	206 137
MOSCOW	23	14	29	9	18	1.4	108 31
YEKATERINBURG	22	11	32	1	18	-0.1	149 78
OMSK	22	10	33	3	18	-1.8	76 18
NOVOSIBIRSK	20	10	30	2	15	-1.3	67 14
BARNAUL	24	11	33	1	17	-0.6	40 -3
KHABAROVSK	23	12	31	5	17	-0.5	107 28
VLADIVOSTOK	17	10	30	5	13	0.4	135 22
SARATOV	26	17	31	12	22	3.1	111 67
VOLGOGRAD	26	18	33	9	21	0.0	192 166
ROSTOV	26	16	33	9	21	0.2	97 38
ASTRAKHAN	30	19	36	15	24	1.6	118 96
KRASNODAR	27	16	33	8	21	0.1	141 64
ORENBURG	28	15	33	11	22	1.9	124 86

Based on Preliminary Reports

June 1997

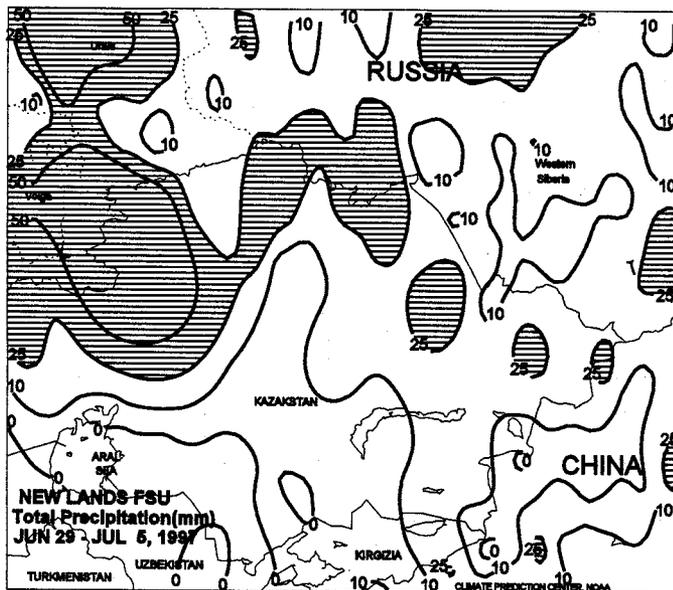
COUNTRY CITY	TEMPERATURE (C)						PRECIPITATION (MM)			COUNTRY CITY	TEMPERATURE (C)						PRECIPITATION (MM)		
	AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM	AVG MAX		AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM		
KAZAKHS TSELINOGRAD	26	13	33	6	20	1.7	47	15	ZAMBIA LUSAKA	**	**	29	7	**	0	-1			
KARAGANDA	27	12	35	4	20	0.8	37	1	ZIMBABW HARARE	23	10	26	4	17	3.7	0	-3		
GEORGIA TBILISI	29	17	33	11	23	1.8	187	119	S AFRICA PRETORIA	21	3	24	0	12	0.5	1	-6		
UZBEKIST TASHKENT	34	20	39	15	27	1.1	73	66	JOHANNESBURG	17	4	21	-2	10	0.7	8	-2		
TURKMENI ASHKHABAD	36	23	41	17	29	0.7	101	97	BETHAL	18	1	22	-4	9	1.1	3	-5		
SYRIA DAMASCUS	34	15	40	7	25	0.1	0	0	DURBAN	23	11	30	6	17	0.0	80	52		
ISRAEL JERUSALEM	29	16	37	11	22	0.5	0	0	CAPE TOWN	17	8	20	1	12	-0.5	109	16		
PAKISTAN KARACHI	34	28	40	22	31	-0.4	6	1	CANADA TORONTO	26	14	31	7	20	2.4	50	-19		
INDIA AMRITSAR	37	25	44	20	**	**	90	33	MONTREAL	26	14	31	9	20	2.0	105	22		
NEW DELHI	37	26	42	22	32	-2.0	103	35	WINNIPEG	26	11	31	3	19	1.8	48	-34		
AHMEDABAD	34	26	41	22	30	-2.5	799	698	REGINA	25	11	33	6	18	1.6	62	-5		
INDORE	35	24	41	21	29	-0.8	177	41	SASKATOON	23	10	28	5	17	0.4	54	-6		
CALCUTTA	35	27	38	24	31	0.8	132	-118	LETHBRIDGE	22	9	27	3	15	-0.6	66	-1		
VERAVAL	32	28	34	24	30	0.4	211	12	CALGARY	19	8	23	3	14	-0.3	137	61		
BOMBAY	32	27	34	25	29	0.4	520	-127	EDMONTON	21	11	26	5	16	0.0	117	37		
POONA	31	23	36	20	27	-0.5	197	72	VANCOUVER	19	12	24	10	16	0.4	95	49		
BEGAMPET	37	25	40	22	31	1.5	29	-78	MEXICO GUADALAJARA	**	**	34	13	**	**	**	**		
VISHAKHAPATNAM	33	28	37	25	30	**	30	**	MEXICO CITY	26	15	30	13	20	2.7	40	-84		
MADRAS	38	27	43	23	33	0.5	72	9	ACAPULCO	33	25	36	23	29	0.8	81	-165		
MANGALORE	31	24	36	22	28	0.8	932	-50	BERMUDA ST. GEORGES	27	23	29	17	25	-0.7	199	62		
HONGKO KINGS PEAK	29	25	32	22	27	**	890	**	BAHAMAS NASSAU	31	24	34	21	27	0.5	633	412		
N KOREA PYONGYANG	27	**	33	10	**	**	43	-114	JAMAICA KINGSTON	32	27	34	23	29	1.0	222	157		
S KOREA SEOUL	29	19	35	12	24	3.0	126	-43	P RICO SAN JUAN	32	25	34	24	29	0.6	26	-70		
JAPAN SAPPORO	20	13	30	9	17	**	87	20	GUADELO RAZET	32	25	33	23	29	1.4	107	44		
NAGOYA	27	19	34	13	23	1.0	198	-22	MARTINIQ LAMENTIN	31	26	31	24	28	1.5	150	-19		
TOKYO	27	20	33	13	23	1.4	227	41	BARBADO BRIDGETOWN	31	25	31	22	28	0.2	182	100		
YOKOHAMA	26	19	32	14	22	1.3	193	-23	TRINIDAD PORT OF SPAIN	31	24	32	22	27	1.1	248	12		
KYOTO	28	19	34	13	24	1.5	208	-39	COLOMBI BOGOTA	20	9	22	3	14	0.6	85	18		
OSAKA	28	20	32	15	24	1.0	108	-98	VENEZUE CARACAS	31	25	33	22	28	1.0	77	22		
THAILAND PHETCHABUN	36	25	39	24	31	2.5	87	-95	F GUIANA CAYENNE	31	23	32	22	27	1.0	213	-239		
BANGKOK	35	27	37	23	31	1.8	52	-96	BRAZIL FORTALEZA	30	23	31	21	27	0.7	16	-139		
MALAYSIA KUALA LUMPUR	33	25	34	24	29	2.0	107	-21	RECIFE	28	21	30	17	25	-0.1	147	-216		
VIETNAM HANOI	34	27	39	25	31	1.3	235	-3	BELO HORIZONTE	24	14	28	8	19	0.3	30	17		
CHINA HARBIN	28	16	37	9	22	2.4	48	-20	CAMPO GRANDE	25	16	29	5	20	0.1	132	89		
HAMI	32	16	40	8	24	-0.6	18	12	FRANCA	23	14	26	5	18	2.9	85	58		
LANCHOW	29	15	36	7	22	2.1	40	3	RIO DE JANEIRO	**	**	29	16	**	**	**	**		
BEIJING	31	18	37	10	24	-0.1	56	-15	LONDRINA	20	13	29	4	16	-0.7	392	296		
TIENTSIN	30	19	36	11	24	-0.2	75	10	SANTA MARIA	18	10	29	-1	14	1.1	180	36		
LHASA	22	9	27	4	16	-0.7	120	49	PORTO ALEGRE	19	11	31	2	15	0.1	133	-7		
KUNMING	25	16	30	12	20	0.7	206	36	PERU LIMA	26	21	28	18	23	5.5	0	-1		
CHENGCHOW	32	19	39	13	26	-0.1	56	-6	BOLIVIA LA PAZ	13	-5	16	-9	4	-2.7	0	-3		
YECHANG	30	21	34	17	26	2.0	187	35	CHILE SANTIAGO	14	6	20	-1	10	1.7	225	159		
HANKOW	30	23	35	16	27	1.1	144	-61	ARGENTIN IGUAZU	21	12	30	4	17	**	283	**		
CHUNGKING	28	21	35	16	25	**	184	**	FORMOSA	22	14	29	4	18	0.9	28	-32		
CHIHKIANG	28	21	32	17	24	-0.2	208	12	CERES	18	8	26	-1	13	0.7	7	-15		
WU HU	30	21	36	17	26	**	132	**	CORDOBA	18	5	27	-2	12	1.1	3	-8		
SHANGHAI	28	22	37	17	25	**	174	**	RIO CUARTO	15	6	20	-2	11	0.9	11	-7		
NANCHANG	29	22	34	18	25	-0.3	288	6	ROSARIO	16	7	20	-3	12	1.5	72	36		
TAIPEI	29	23	34	20	26	**	681	**	BUENOS AIRES	15	8	19	-4	11	1.5	64	15		
CANTON	30	24	33	21	27	-0.3	546	289	SANTA ROSA	14	5	20	-5	9	1.7	90	74		
NANNING	32	25	36	17	28	0.5	227	11	TRES ARROYOS	13	6	18	-1	10	2.0	118	87		
CANARY I LAS PALMAS	27	20	29	18	23	2.1	0	0	NEW NOUMEA	24	19	28	16	21	0.4	109	-19		
MOROCC CASABLANCA	24	18	26	16	21	1.0	4	-2	FIJI NAUSORI	26	20	28	16	23	-0.2	60	-82		
MARRAKECH	30	17	34	14	24	0.7	0	-3	SAMOA PAGO PAGO	**	**	29	20	**	**	**	**		
ALGERIA ALGER	29	17	33	11	23	1.5	10	-11	TAHITI PAPEETE	29	22	30	18	25	0.2	33	-26		
BATNA	35	17	46	11	26	5.1	28	5	AUSTRALI DARWIN	30	20	32	17	25	0.0	0	-2		
TUNISIA TUNIS	32	20	40	16	26	3.3	20	9	BRISBANE	20	11	23	7	15	-0.8	27	-47		
NIGER NIAMEY	37	27	41	22	32	0.7	67	0	PERTH	19	11	24	7	15	0.7	82	-86		
MALI TIMBUKTU	**	**	47	25	**	**	7	-9	CEDUNA	17	6	21	-1	11	-1.1	17	-15		
BAMAKO	34	24	38	20	29	-0.1	165	39	ADELAIDE	15	8	21	3	12	-0.1	30	-22		
MAURITAN NOUAKCHOTT	38	24	46	20	31	4.1	0	0	MELBOURNE	14	7	19	0	10	0.3	28	-9		
SENEGAL DAKAR	29	24	33	11	27	1.0	25	12	WAGGA	14	3	19	-2	9	0.2	38	-4		
CHAGOS DIEGO GARCIA	**	**	31	24	**	**	**	**	CANBERRA	12	-1	17	-5	6	-0.7	118	88		
LIBYA TRIPOLI	37	23	47	16	30	3.5	0	-2	INDONESI DJAKARTA	33	25	33	21	29	1.9	11	**		
BENGHAZI	33	22	43	17	28	1.8	0	0	PHILIPPI MANILA	32	26	34	25	29	0.4	244	-12		
EGYPT CAIRO	35	22	43	18	28	0.7	0	0											
ASWAN	41	26	46	24	34	0.8	0	0											
ETHIOPIA ADDIS ABABA	25	12	29	11	18	1.3	141	23											
KENYA NAIROBI	23	14	25	11	19	0.9	5	-22											
TANZANIA DAR ES SALAAM	28	21	29	18	25	0.4	242	207											
GABON LIBREVILLE	**	**	29	21	**	**	**	**											
TOGO LOME	30	24	32	20	27	1.0	231	-48											
BURKINA OUAGADOUGOU	35	25	38	23	30	0.6	79	-29											
COTE D'I ABIDJAN	29	25	31	22	27	0.4	684	96											
MOZAMBI MAPUTO	27	13	33	10	20	1.1	29	14											

Based on Preliminary Reports



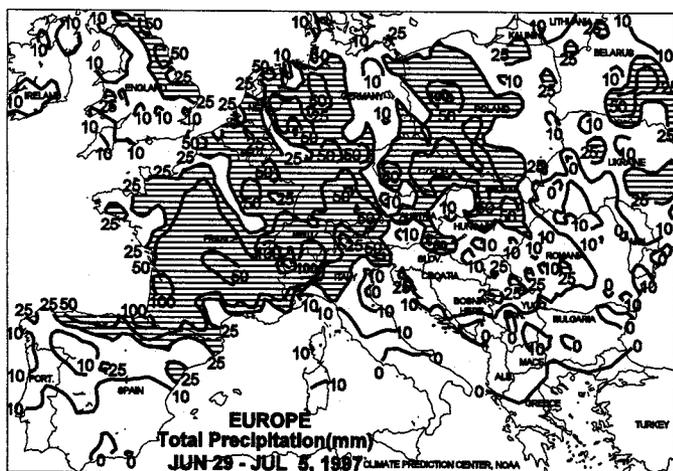
**FSU-WESTERN**

An active weather pattern brought daily showers to most of the region. In Ukraine and southern Russia (Central Black Soils Region, lower Volga Valley, and the North Caucasus), precipitation amounts ranged from 10 mm to 50 mm, with greatest amounts of rain (more than 100 mm) occurring in the western portion of North Caucasus, Russia. While the rain in these areas benefited spring grains in the filling stage and summer crops nearing reproduction, it hampered early winter grain harvesting. Weekly temperatures in Ukraine and southern Russia ranged from 1 to 4 degrees C above normal, promoting crop development. Farther north, light to moderate showers (10-50 mm, with local amounts in excess of 50 mm) occurred in Belarus and northeastern areas in Russia (Volga Vyatsk and upper Volga Valley), benefiting winter grains in the filling stage and spring grains in the reproductive to filling stages. Weekly temperatures averaged 2 to 4 degrees C above normal across northern areas.



**FSU-NEW LANDS**

In Russia, widespread showers (10-25 mm, with local amounts ranging from 25-66 mm) and seasonable temperatures spread from the Urals eastward into western areas of Western Siberia, favoring spring grains in the jointing stage. Farther east, a brief heat wave occurred over spring grain areas in the Altay Kray region from July 3 to 5. Maximum temperatures ranged from 34 to 42 degrees C, stressing crops in or nearing the heading stage. Historically, about 12 percent of Russia's spring wheat crop is produced in Altay Kray. In Kazakhstan, widespread showers (10-30 mm, with scattered amounts in excess of 50 mm) were timely for spring grains in or nearing the heading stage. Temperatures in Kazakhstan averaged 2 to 4 degrees C above normal, with maximum temperatures early in the week exceeding 33 degrees C. However, a cooling trend occurred at midweek and continued until week's end, alleviating potential heat stress on crops.

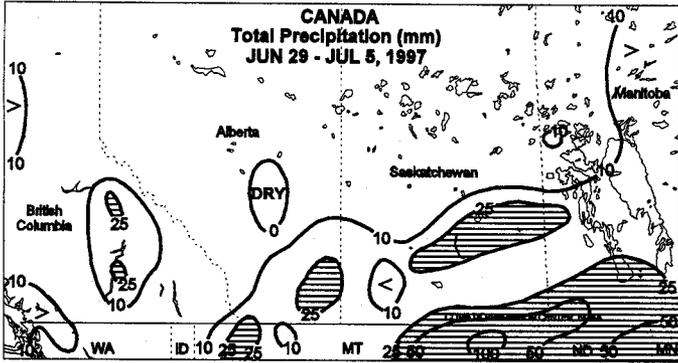


**EUROPE**

Wet weather persisted across western and northern Europe, maintaining abundant moisture conditions for immature winter grains and spring-sown crops. Greatest amounts of rain (50-100 mm) occurred in central and southern France, interrupting the winter grain harvest. Elsewhere in northern Europe, rainfall (10-25 mm) tapered off in England but precipitation (15-50 mm) increased in Germany and Poland. Drier weather is needed, especially in France and Germany, to ease concerns about a potential decline in crop quality brought on by the persistent wetness. In Italy, although widespread rain (10-50 mm) in the north hampered winter grain harvesting, it provided favorable moisture for summer crop development. Soaking rain (18-60 mm) fell in the Czech Republic, Slovakia, and Hungary, while unfavorably hot, dry weather prevailed in southeastern Europe (southern and eastern Romania, Bulgaria, and adjacent areas in former Yugoslavia). Weekly temperatures in southeastern Europe averaged 2 to 4 degrees C above normal, with extreme maximum temperatures ranging from 33 to 42 degrees C. The hot, dry weather in these areas hastened maturity in winter and spring grains and stressed summer crops approaching reproduction.

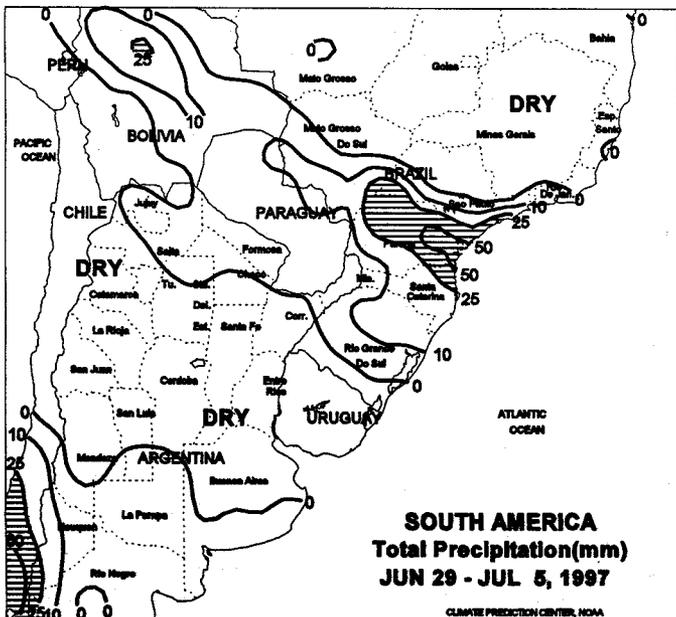
CANADA

Widespread rain (10-25 mm or more, exceeding 50 mm in southwestern Manitoba) swept across southern and eastern Prairie crop regions. Although a few dry pockets continued in southeastern Saskatchewan and neighboring sections of Manitoba, the area of extreme dryness has shrunk considerably since mid-June. The moisture was especially timely for crops entering reproduction across the south. A favorable reversal in weather also occurred in Alberta's northern crop areas as much-needed dryness brought some relief to water-logged spring grains and oilseeds. Spraying and other activities are expected to resume. Temperatures, however, were below normal throughout the Prairies, slowing field drying and crop development. Farther east, scattered showers continued throughout Ontario and Quebec, with the heaviest rain (10-25 mm or more) concentrated over southern sections of both provinces. Temperatures averaged near to above normal, favoring crop development.



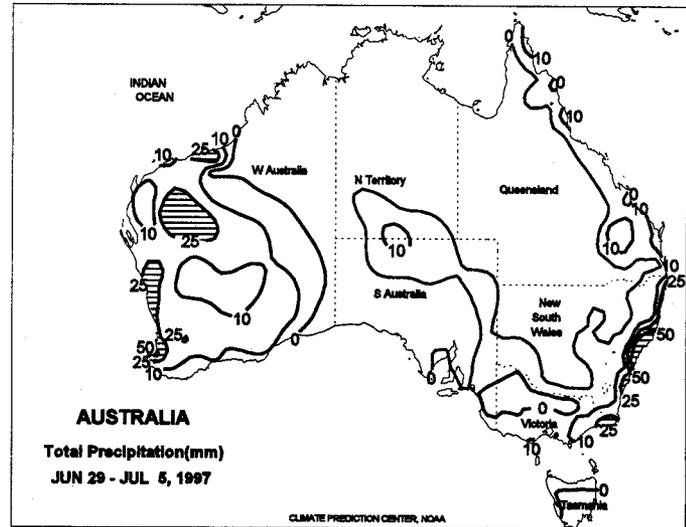
SOUTH AMERICA

Dry, cool weather (temperatures 1-2 degrees C below normal; minimum temperatures ranging from 2 to 4 degrees C) again prevailed across central Argentina, slowing wheat planting and development. The planting delays are due to continued dryness in Cordoba and Santa Fe provinces. According to reports as of June 27, 30 percent of the wheat crop has been planted compared with 54 percent last year. Soil moisture is adequate elsewhere in central Argentina. In southern Brazil, moderate showers (10-30 mm, with scattered amounts greater than 40 mm) continued to favor vegetative winter wheat across the main wheat areas of Parana, Santa Catarina, and Rio Grande do Sul. Temperatures averaged 1 to 3 degrees C below normal across southern Parana and southward into Rio Grande do Sul.



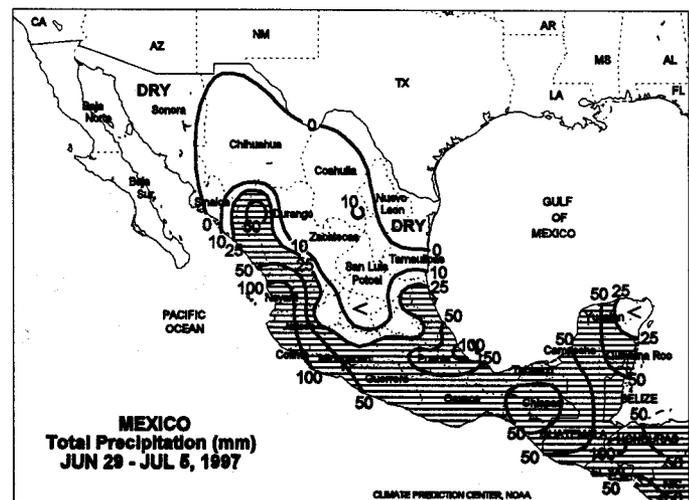
AUSTRALIA

Beneficial showers (10-27 mm) swept across Western Australia's winter grain belt, increasing topsoil moisture for crop establishment. Dry, cool weather dominated the east, however, with the best concentration of rain (4-15 mm) limited to northernmost winter grain regions in southern Queensland. Farther south, heavy rains east of the Dividing Range were unable to reach crops in New South Wales or Victoria. Temperatures were near to below normal throughout the east, with frost or freezing temperatures restricting vegetative growth. In New Zealand, moderate to heavy rain (25-50 mm or more) covered North Island and the northeastern coast of South Island.



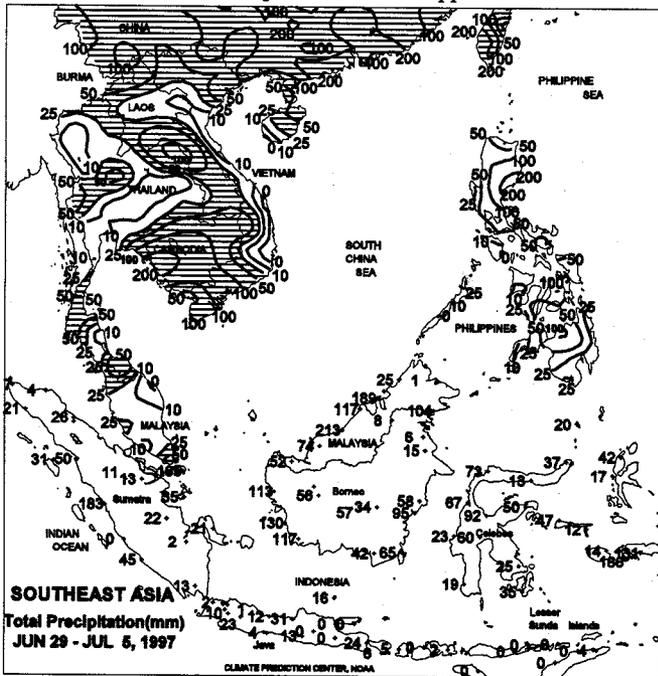
MEXICO

Seasonal showers (20-50 mm) covered most of the main corn belt, favoring vegetative corn. However, portions of the northern corn belt (northeastern Jalisco, Guanajuato, and northern Puebla) received less than 10 mm of rain and reported temperatures 2 to 3 degrees C above normal, reducing soil moisture. Widespread showers (25-60 mm) maintained moisture supplies across southern Mexico and the Yucatan Peninsula. Showers (10-50 mm) boosted reservoir supplies across the western irrigated region (Sinaloa).



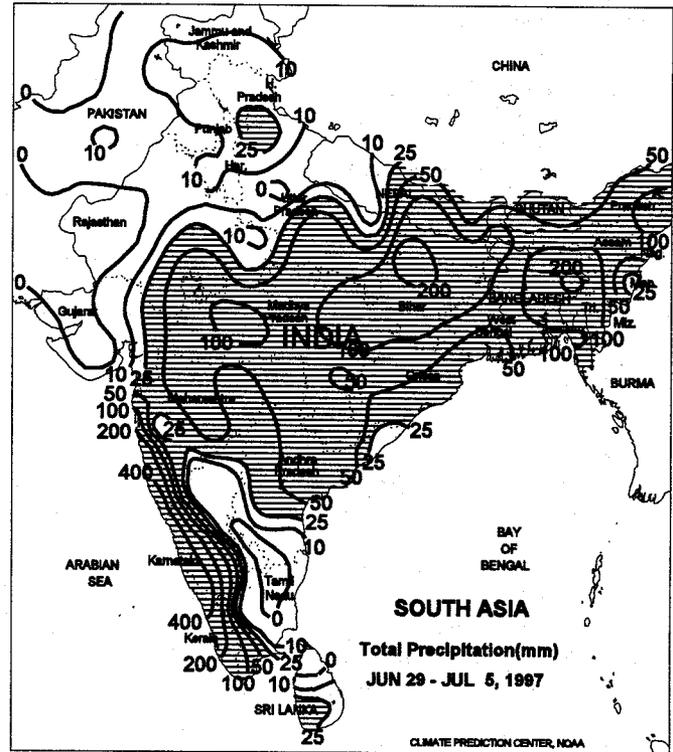
**SOUTHEAST ASIA**

In central Thailand, unseasonably light showers (10-25 mm, with scattered amounts greater than 40 mm) and warm weather (temperatures averaged 1-2 degrees C above normal) reduced moisture supplies and stressed rainfed rice and corn. Typically, this region should receive 30 to 40 mm of rain per week during early July. Light showers (less than 25 mm) also prevailed across the Khorat Plateau, with adequate moisture supplies remaining from previous rainfall. Widespread showers (40-100 mm) maintained moisture supplies for rice across Vietnam. Light showers (20-35 mm) prevailed across peninsular Malaysia, where more moisture is needed for oil palm. Scattered showers (5-25 mm) fell across Java, aiding transplanted second-crop rice. Widespread showers (25-80 mm) benefited main-season crops across the Philippines.



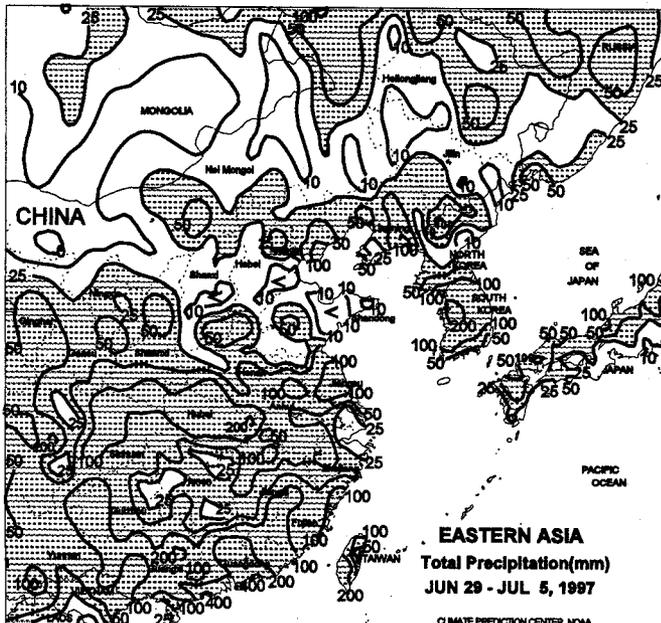
**SOUTH ASIA**

Widespread, locally heavy showers (50-100 mm, exceeding 200 mm in isolated areas) covered a large part of central and eastern India and Bangladesh. Despite localized flooding, the rain maintained generally favorable moisture levels for coarse grains, oilseeds, cotton, and rice. Very heavy rain (200-500 mm or greater) continued to inundate the southwest coast. To the north, however, drier weather brought some relief to primary groundnut and cotton areas in Gujarat that received excessive rains last week. Moderate showers (25-50 mm) benefited crops in the southern interior, including oilseed, grain, and cotton areas of Andhra Pradesh that had been trending dry. The monsoon's northern progress is generating light, scattered showers (15 mm or less) over much of Pakistan and north-central India, with significant rain (25 mm or more) reaching as far northwest as Rajasthan. Highs remained in the 40's C in the driest crop areas but dropped into the low to mid 30's in locations with the most rainfall.



**EASTERN ASIA**

Widespread, timely rain (15-35 mm) fell across the North China Plain, benefiting vegetative summer crops. Heavier rain (50-100 mm) was reported across the southern portion of the North China Plain (Anhui and Jiangsu), boosting irrigation supplies. Beneficial rain (10-50 mm) covered most of Manchuria, but western Jilin received less than 10 mm and is becoming somewhat dry. Widespread showers (20-100 mm) blanketed central and southern China, maintaining abundant moisture supplies for rice but slowing early double-crop rice harvesting. Excessive rainfall (150-250 mm) caused local flooding in Hubei and Guangdong. Temperatures averaged 2 to 3 degrees C above normal across the Yangtze Valley, North China Plain, and Manchuria. Heavy showers (125-200 mm) caused some flooding in South Korea, while drier weather (10-40 mm) prevailed across North Korea. Rain (20-75 mm) maintained irrigation supplies for rice across Japan.



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#### U.S. DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration  
National Weather Service/Climate Prediction Center  
Managing Editor ..... **Douglas Le Comte** (202) 720-7919  
fax (202) 720-1455  
Editor ..... **Brad Rippey** (202) 720-1444  
Meteorologists . . . . **David Secora, Jeff Savadel, Brian Morris**  
Special Requests ..... (202) 720-7917  
Subscriptions ..... **John Kopman** (301) 763-8227, ext. 7534  
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(Continued from page 16)

#### Peanuts Crop Condition by Percent

	VP	P	F	G	EX
AL	0	7	49	37	7
FL	0	0	6	32	62
GA	0	1	17	68	14
NC	0	9	38	52	1
OK	0	1	34	62	3
SC	0	0	18	78	4
TX	0	1	21	67	11
VA	0	5	30	60	5
ALL	0	3	25	59	13
Prev Wk	0	2	28	61	9
Prev Yr	2	8	37	48	5

#### Barley Crop Condition by Percent

	VP	P	F	G	EX
ID	0	1	6	61	32
MN	3	7	43	33	14
MT	0	5	27	57	11
ND	2	14	37	42	5
SD	3	3	24	56	14
WA	0	0	9	77	14
ALL	1	8	29	50	12
Prev Wk	2	9	25	54	10
Prev Yr	0	4	26	58	12

#### Rice Crop Condition by Percent

	VP	P	F	G	EX
AR	0	3	21	54	22
CA	0	0	50	50	0
LA	0	3	39	49	9
MS	0	0	14	82	4
TX	0	0	37	53	10
ALL	0	2	31	54	13
Prev Wk	0	2	29	56	13
Prev Yr	0	3	17	61	19

#### Spring Wheat Crop Condition by Percent

	VP	P	F	G	EX
ID	0	2	9	57	32
MN	3	8	47	32	10
MT	3	12	35	40	10
ND	3	17	39	39	2
SD	3	4	23	55	15
ALL	3	13	36	41	7
Prev Wk	3	14	33	44	6
Prev Yr	1	5	27	56	11

VP - Very Poor  
P - Poor  
F - Fair  
G - Good  
EX - Excellent

\* Revised

National crop conditions for selected States are weighted based on 1996 planted acres.

Climate Prediction Center, W/NP52  
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