

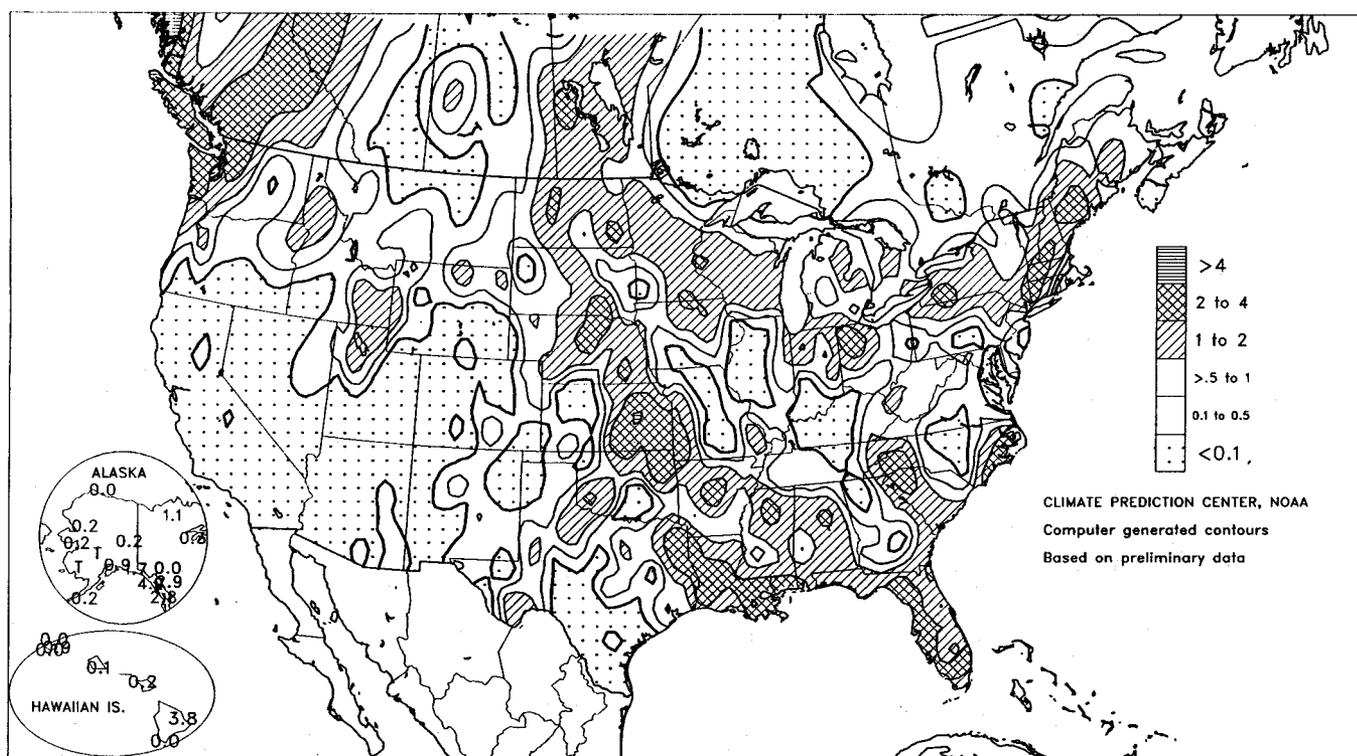
WEEKLY WEATHER AND CROP BULLETIN

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)

JUL 6 - 12, 1997



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

HIGHLIGHTS

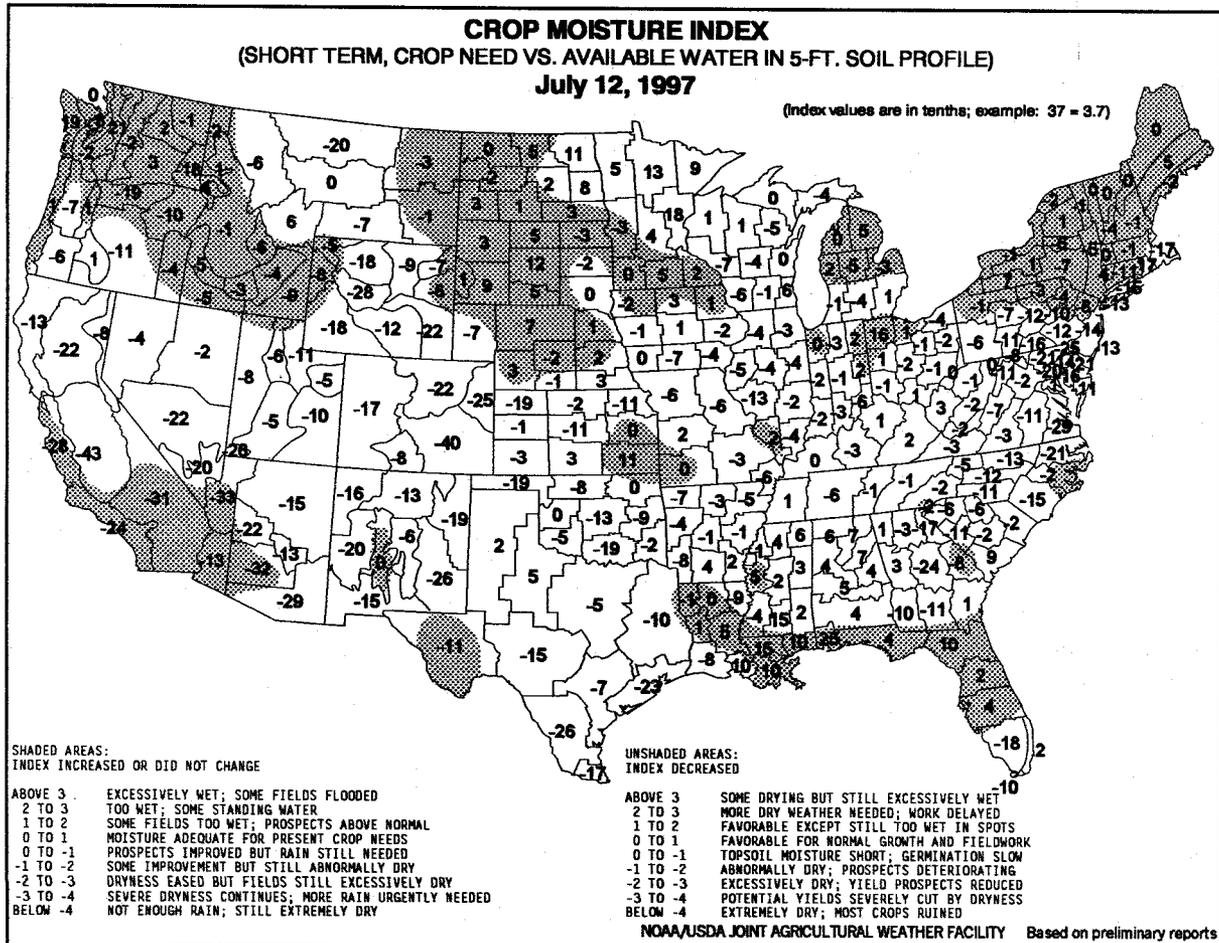
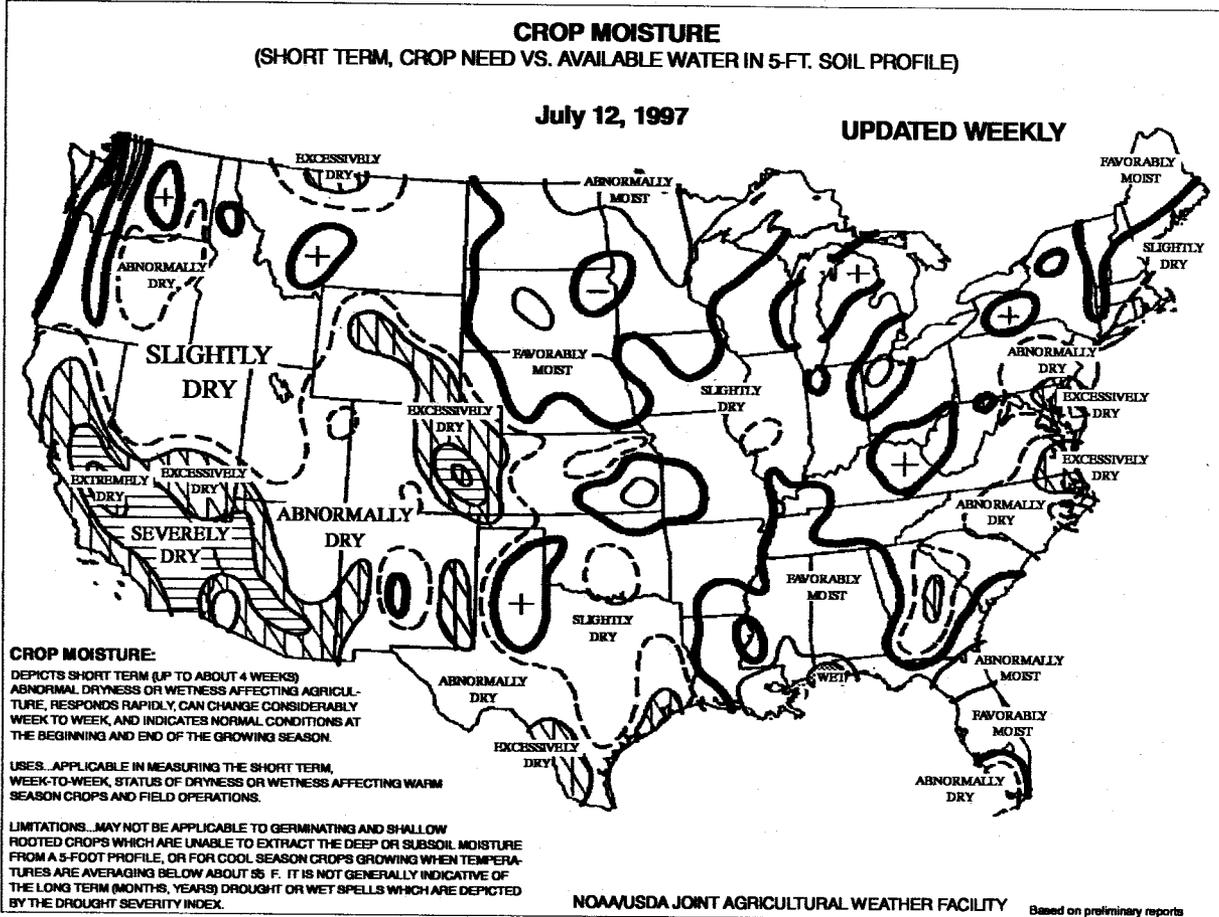
July 6 - 12, 1997

Dry weather reduced topsoil moisture from Iowa and Missouri eastward to the Middle Atlantic region as corn and soybeans approached or entered reproduction. However, temperatures averaged 2 to 7°F below normal in these areas, with extreme maxima in the 80's to lower 90's, permitting rapid crop development. Meanwhile, beneficial rains dampened the northern Corn Belt. Showers also peppered the Northwest, where weekly temperatures averaged up to 7°F below normal. On the Plains, scattered thunderstorms caused only brief winter wheat harvest delays. Weekly rainfall totaled as much as 2 to 4 inches in eastern Kansas. Ideal harvest conditions prevailed on the central High Plains, although long-term drought persisted. Across

(Continued on page 3)

Contents

Highlights & Total Precipitation Map	1
Crop Moisture Maps	2
U.S. Crop Production Highlights	3
Temperature Departure & Pan Evaporation Maps	4
Extreme Maximum & Minimum Temperature Maps	5
Growing Degree Day Maps	6
National Weather Data for Selected Cities	7
National Agricultural Summary	10
Crop Progress and Condition Tables	11
Pasture Condition Table	13
State Agricultural Summaries	14
International Weather and Crop Summary	20
Subscription Information & ENSO Update	24



(Continued from front cover)

the Nation's southern tier, near-normal temperatures and occasional rainfall benefited cotton.

On July 6-7, more than two dozen daily-record lows were set across the Plains and Midwest. Lows on Sunday dipped to 42°F in Fargo, ND and 54°F in Amarillo, TX. A day later, Wausau, WI noted 43°F, while Cedar Rapids, IA reported 49°F. In Michigan, Houghton Lake's low of 35°F was 20° below normal. International Falls, MN notched a July-record-tying low of 35°F on Sunday, followed by 34°F on Monday. During the cool snap, maxima were as low as 59°F (on July 7) in Fargo, 61°F (on July 8) in Green Bay, WI, and 71°F (on July 9) in Ft. Wayne, IN. Daily-record lows were reported as late as Thursday in the Northeast, where Rochester, NY logged 48°F.

While cool air cloaked the Midwest and Northeast, Ft. Myers, FL registered a daily-record high of 98°F on Tuesday. Farther west, however, another round of cool, showery weather entered the Northwest. By Thursday, daily-record lows were reported in Pendleton, OR (47°F) and Walla Walla, WA (52°F). Enough rain fell in Portland, OR to boost their water-year (October 1 to date) precipitation to 55.34 inches, eclipsing the record set in 1995-96. On Saturday in Pocatello, ID, the high of 60°F was their third-lowest in July and rainfall of 0.80 inches was their seventh-greatest 24-hour total in July.

Late in the week, scattered, locally severe thunderstorms rattled the Central States. North Platte, NE received a daily-record rainfall (2.34 inches) on Friday. But in the central Corn Belt, several locations netted less than a quarter-inch of rain during the first 13 days of July, including Burlington, IA (0.17 inches), Indianapolis, IN (0.16 inches), and Springfield, IL (0.02 inches). Farther east, where more serious moisture shortages developed, July 1-13 rainfall totaled 0.01 inches in Williamsport, PA, 0.19 inches in Greensboro, NC, and 0.25 inches in Wilmington, DE. In contrast, rainfall during the same period reached 4.11 inches (326 percent of normal) in Grand Forks, ND and 4.53 inches (294 percent of normal) in Minneapolis, MN.

In Alaska, temperature departures ranged from -4 to +4°F, representing a return to more normal readings. Through July 10, wildfires in Alaska charred more than 800,000 acres (about 1,260 square miles), accounting for more than 60 percent of the Nation's year-to-date burned acreage. Significant rain fell across southern Alaska, where Juneau netted a 24-hour, monthly record total of 2.14 inches on July 6-7. Anchorage received their heaviest rainfall of the year (0.75 inches on July 11), improving their 1997 total to 3.46 inches (64 percent of normal).

U.S. Crop Production Highlights

The following information was released by USDA's Agricultural Statistics Board on July 11, 1997. Forecasts refer to July 1.

All wheat production is forecast at 2.43 billion bushels, up 7 percent (%) from 1996. The U.S. yield is forecast at 38.3 bushels per acre. This is up 2.0 bushels from last year, largely due to a tremendous increase in winter wheat production.

Winter wheat production is forecast at 1.78 billion bushels, up 11% from last month and 20% higher than 1996. The U.S. yield is forecast at a record-high 42.8 bushels per acre. This is up 3.5 bushels from June 1 and 5.6 bushels per acre better than last year.

Hard Red Winter wheat production is up 141 million bushels from last month largely due to increases in acreage to be harvested and improved yields. The Kansas yield is a new record. Soft Red Winter wheat, at 455 million bushels, is also up from a month ago and is near 1995 levels. Illinois and Missouri growers are now expecting record-high yields. White

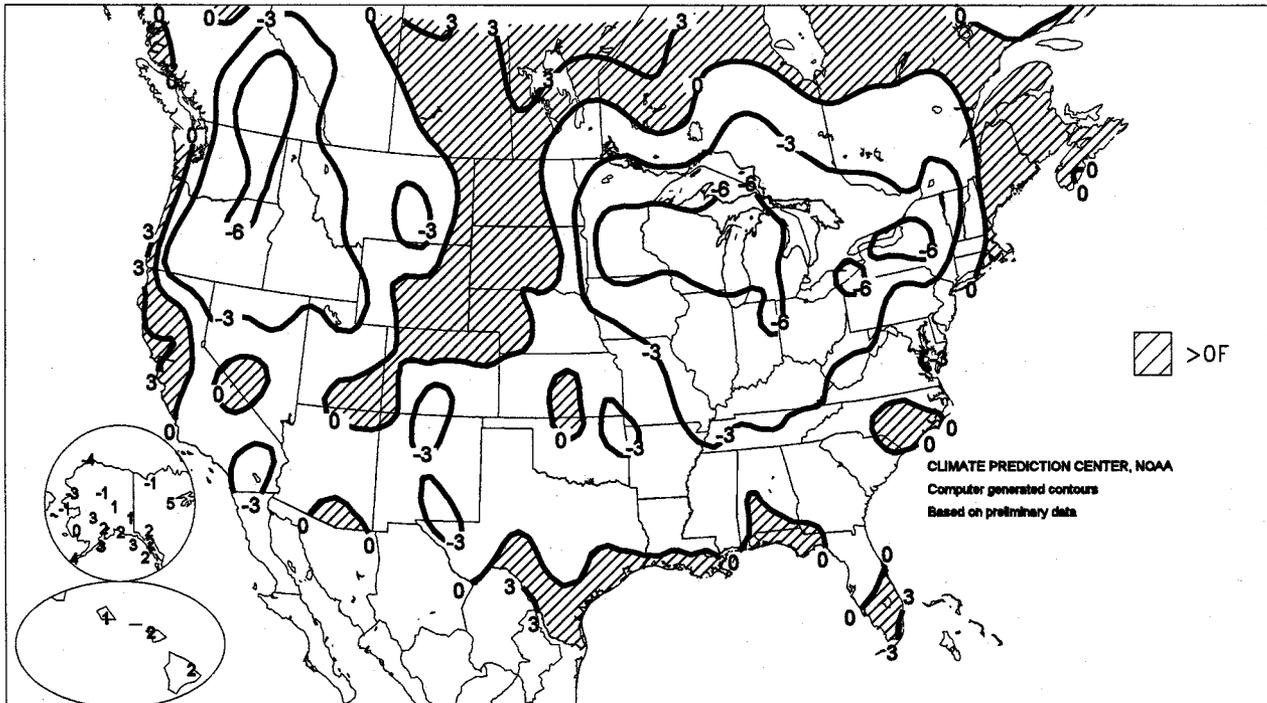
Winter wheat production is up from last month due to improved Idaho and Oregon yield prospects.

Other spring wheat production is forecast at 569 million bushels, down 17% from 1996. The U.S. yield is forecast at 30.4 bushels per acre. This is 4.7 bushels per acre below last year. Grain area totals 18.7 million acres, down 5%.

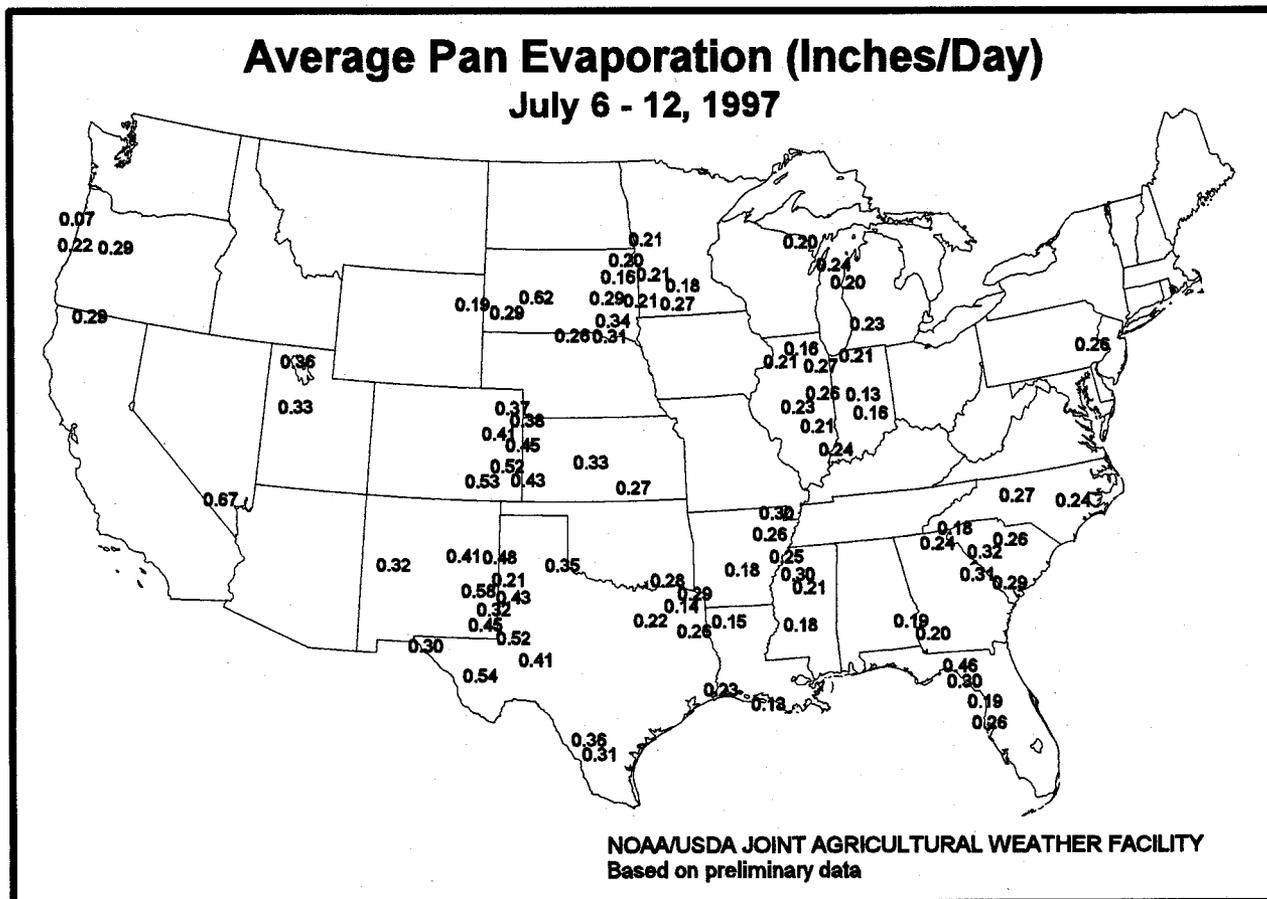
Hard Red Spring wheat production, at 513 million bushels, is down 18% from last year and White Spring wheat production is down 7%.

Durum wheat is forecast at 80.9 million bushels, down 30% from 1996. Lower expected yields are the main cause of the decline. The U.S. yield is forecast at 25.2 bushels per acre, down 7.5 bushels per acre from last year and the lowest average since 1989.

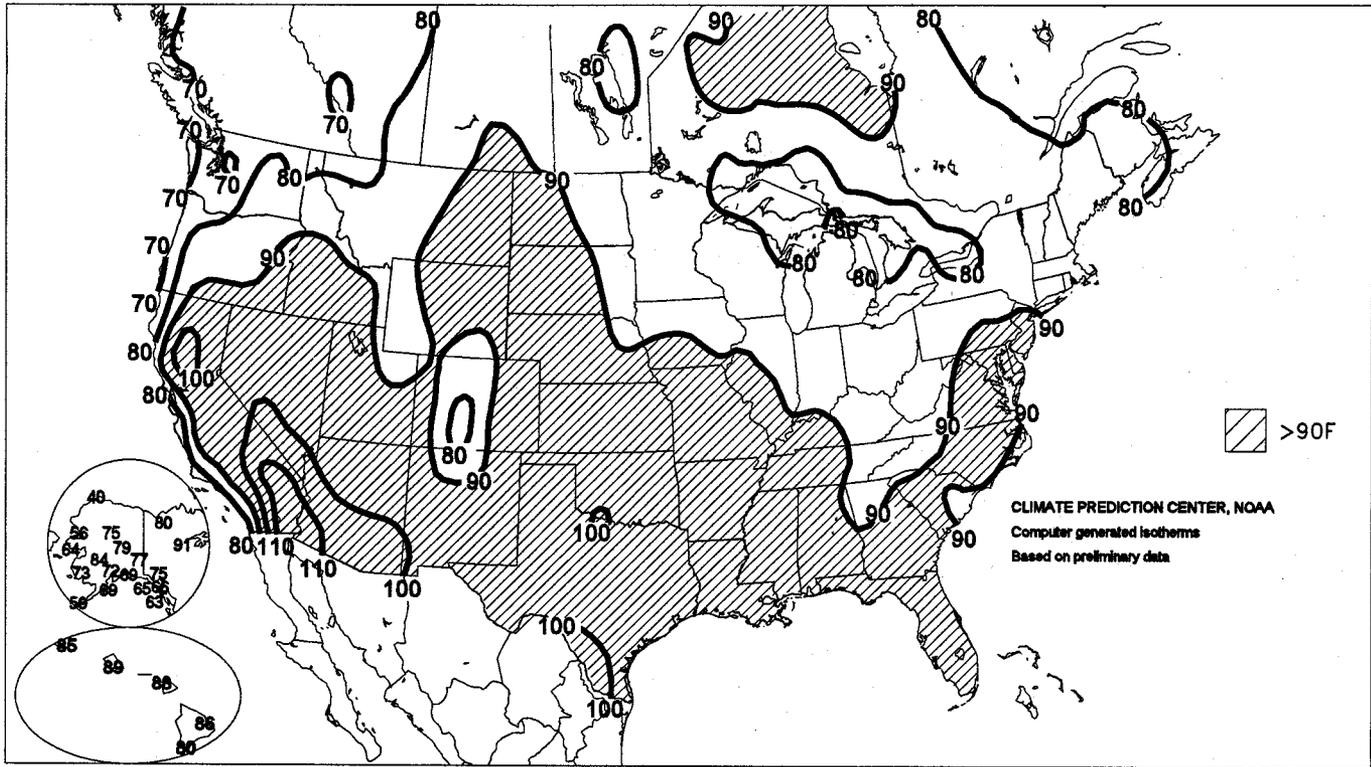
Departure of Average Temperature from Normal (°F) JUL 6 - 12, 1997



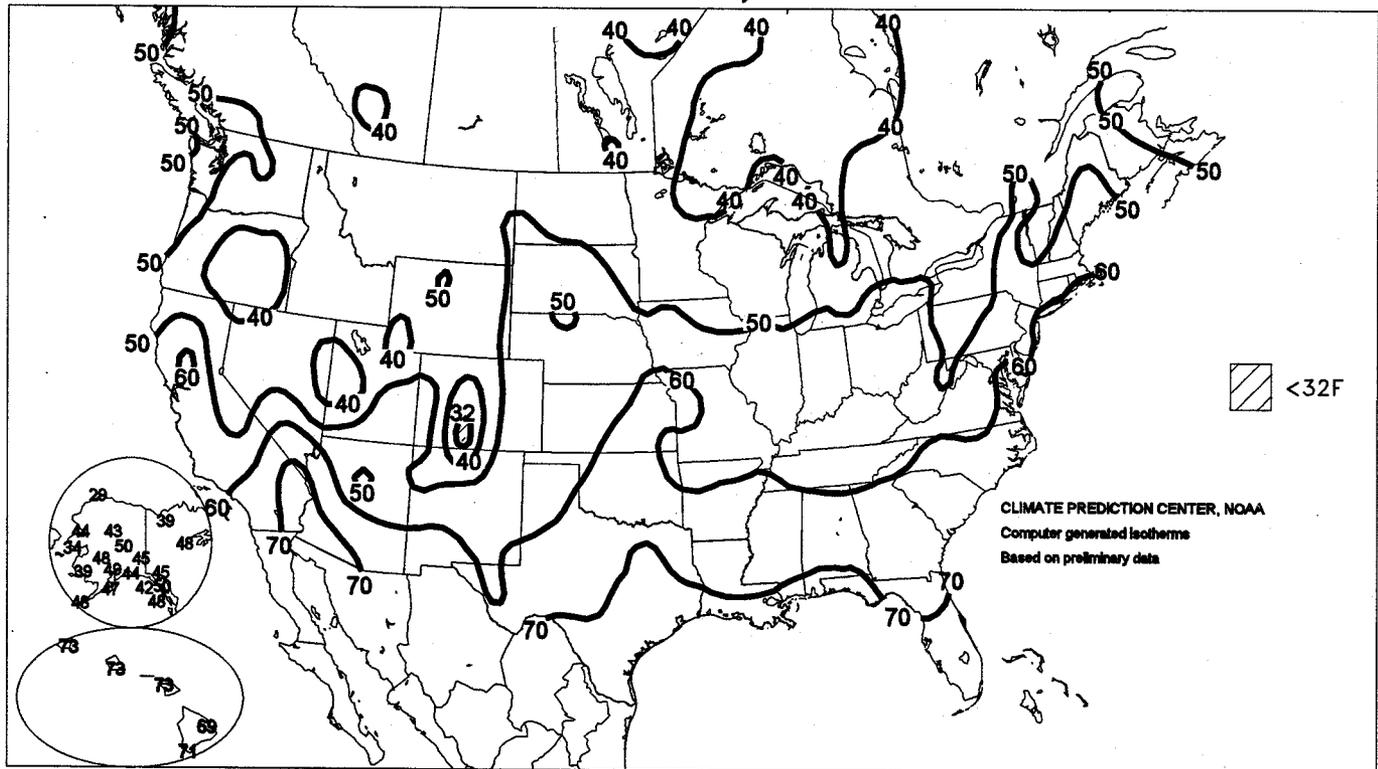
Average Pan Evaporation (Inches/Day) July 6 - 12, 1997



Extreme Maximum Temperature (°F) JUL 6 - 12, 1997



Extreme Minimum Temperature (°F) JUL 6 - 12, 1997



National Weather Data for Selected Cities

Weather Data for the Week Ending July 12, 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	92 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	88	68	91	64	78	-2	1.34	0.14	1.12	7.13	124	30.97	98	95	59	2	0	3	1	0	
AL HUNTSVILLE	86	66	90	60	76	-3	0.20	-0.93	0.15	6.85	114	33.43	102	93	52	1	0	2	2	0	
AL MOBILE	91	72	94	71	81	-1	3.08	1.60	1.22	11.79	157	42.02	122	96	68	4	0	0	6	3	
AL MONTGOMERY	90	70	93	69	80	-1	0.26	-0.93	0.18	4.75	80	28.57	93	95	53	5	0	4	0	0	
AK ANCHORAGE	67	53	72	49	60	2	0.89	0.54	0.65	1.48	86	3.49	64	93	64	0	0	3	1	0	
AK BARROW	39	32	40	29	35	-4	0.00	-0.19	0.00	0.74	128	0.98	76	98	80	0	4	0	0	0	
AK FAIRBANKS	74	54	79	50	64	1	0.22	-0.19	0.11	0.56	27	1.31	31	90	44	0	0	4	0	0	
AK JUNEAU	63	53	66	50	58	2	2.93	2.06	2.14	-	-	-	-	96	68	0	0	2	2	0	
AK KODIAK	62	52	69	47	57	3	0.29	-0.53	0.14	0.96	15	33.67	101	94	78	0	0	3	0	0	
AK NOME	57	42	64	34	50	-1	0.20	-0.24	0.20	0.28	15	4.33	26	88	60	0	0	1	0	0	
AZ FLAGSTAFF	81	44	85	40	62	-4	0.00	-0.56	0.00	0.18	14	6.37	63	49	12	0	0	0	0	0	
AZ PHOENIX	106	80	109	77	93	0	0.00	-0.16	0.00	0.00	0	1.70	57	33	11	7	0	0	0	0	
AZ PRESCOTT	88	59	91	57	73	0	0.00	-0.63	0.00	0.15	10	4.48	58	36	13	4	0	0	0	0	
AZ TUCSON	102	74	107	69	88	1	0.06	-0.42	0.04	0.06	6	2.59	69	43	14	7	0	2	0	0	
AZ YUMA	106	80	111	77	93	0	0.00	-0.04	0.00	0.02	29	0.57	54	54	14	7	0	0	0	0	
AR FORT SMITH	89	70	94	63	79	-2	0.00	-0.69	0.00	6.71	147	23.17	104	95	59	4	0	0	0	0	
AR LITTLE ROCK	91	70	95	63	81	-1	1.91	1.08	0.76	7.60	167	34.69	131	92	56	6	0	4	2	0	
CA BAKERSFIELD	95	68	99	63	81	-3	0.00	0.00	0.00	0.00	0	2.99	78	54	27	7	0	0	0	0	
CA EUREKA	66	53	67	47	60	3	0.00	-0.03	0.00	1.26	225	19.33	92	89	71	0	0	0	0	0	
CA FRESNO	95	67	100	62	81	0	0.00	0.00	0.00	0.00	0	3.51	51	57	20	7	0	0	0	0	
CA LOS ANGELES	75	65	77	63	70	1	0.01	0.01	0.01	0.02	-	4.24	55	85	60	0	0	1	0	0	
CA REDDING	97	69	103	60	83	2	0.00	-0.03	0.00	1.56	248	16.58	88	50	17	7	0	0	0	0	
CA SACRAM/MCCLELL	97	65	104	61	81	-	0.00	-	0.00	0.61	-	9.26	69	22	7	0	0	0	0	0	
CA SAN DIEGO	71	65	74	63	68	-2	0.00	0.00	0.00	0.00	0	3.54	57	79	63	0	0	0	0	0	
CA SAN FRANCISCO	74	55	77	54	65	2	0.00	0.00	0.00	0.28	233	8.82	72	87	54	0	0	0	0	0	
CA ALAMOSA	79	40	83	37	60	-5	0.01	-0.25	0.01	0.80	73	3.04	95	85	21	0	0	1	0	0	
CA COLORADO	85	52	89	47	69	-2	0.03	-0.60	0.02	5.61	170	10.88	132	73	22	0	0	2	0	0	
CA DENVER	90	57	92	49	73	0	0.00	-0.44	0.00	2.54	100	6.28	70	56	18	6	0	0	0	0	
CA GRAND JUNCTION	92	65	98	60	79	0	0.00	-0.14	0.00	0.28	38	5.16	121	39	18	6	0	0	0	0	
CA PUEBLO	94	53	99	49	73	-4	0.82	0.37	0.37	2.84	143	6.51	118	78	17	6	0	4	0	0	
CT BRIDGEPORT	81	63	84	60	72	-1	1.04	0.19	0.74	2.69	55	19.11	84	85	48	0	0	2	1	0	
CT HARTFORD	85	58	88	54	71	-2	1.87	0.95	1.31	4.93	99	18.87	81	95	43	0	0	2	1	0	
DC WASHINGTON	90	68	94	65	79	0	0.01	-0.83	0.01	3.33	69	18.29	93	80	34	5	0	1	0	0	
DE WILMINGTON	87	62	93	57	75	-1	0.15	-0.81	0.15	1.99	38	11.44	52	87	33	3	0	1	0	0	
FL DAYTONA BEACH	91	71	94	70	81	0	0.67	-0.56	0.32	7.82	94	19.48	86	97	60	4	0	6	0	0	
FL JACKSONVILLE	90	71	92	68	80	-1	4.04	2.85	1.97	11.18	145	25.24	101	98	60	5	0	5	3	0	
FL KEY WEST	90	80	90	72	85	1	1.33	0.51	0.98	7.49	115	16.86	98	80	65	6	0	3	1	0	
FL MIAMI	91	77	92	73	84	2	1.14	-0.19	0.77	15.26	130	35.54	130	87	60	6	0	5	1	0	
FL ORLANDO	91	72	95	70	81	-1	2.62	0.95	1.24	10.43	102	24.60	102	97	58	5	0	5	2	0	
FL TAMPA	89	75	91	70	82	0	1.58	0.13	0.83	5.28	67	20.58	102	88	64	4	0	4	1	0	
FL VALPARAISO/EGLIN	93	74	95	73	84	3	1.65	-0.31	1.46	7.36	84	35.34	110	96	63	7	0	2	1	0	
FL WEST PALM BEACH	90	75	91	71	83	0	1.07	-0.39	0.50	12.78	120	33.05	115	93	65	5	0	5	1	0	
GA ATHENS	86	69	89	67	78	-2	0.69	-0.42	0.35	5.82	100	25.12	88	97	59	0	0	3	0	0	
GA ATLANTA	84	69	88	65	77	-2	0.12	-1.02	0.12	4.67	85	27.07	92	93	56	0	0	1	0	0	
GA AUGUSTA	90	69	93	66	79	-1	1.20	0.26	0.46	4.93	86	20.68	80	97	53	5	0	5	0	0	
GA COLUMBUS	90	72	92	70	81	-1	1.64	0.37	1.04	9.11	147	31.56	106	91	50	3	0	2	2	0	
GA MACON	90	69	93	66	80	-1	0.32	-0.65	0.27	2.13	41	21.30	81	97	52	5	0	3	0	0	
GA SAVANNAH	90	70	92	68	80	-2	1.63	0.26	0.88	8.23	103	21.46	83	99	57	4	0	4	1	0	
HI HILO	84	72	86	69	78	2	3.84	1.75	1.42	30.79	318	76.97	112	95	68	0	0	7	3	0	
HI HONOLULU	88	75	89	73	81	1	0.05	-0.08	0.04	0.51	72	14.91	131	83	54	0	0	2	0	0	
HI KAHULUI	87	74	88	72	81	2	-	-	-	-	-	-	-	88	81	0	0	-	-	-	
HI LIHUE	85	74	85	73	80	1	-	-	-	-	-	-	-	90	71	0	0	-	-	-	
ID BOISE	81	55	92	45	68	-5	0.10	0.01	0.09	1.62	167	8.04	113	74	25	1	0	2	0	0	
ID LEWISTON	79	56	89	50	67	-6	0.86	0.69	0.77	1.97	127	10.62	146	78	36	0	0	3	1	0	
ID POCATELLO	80	50	93	43	65	-5	1.16	1.00	0.83	2.34	181	7.07	100	72	32	1	0	3	1	0	
IL CHICAGO/O'HARE	80	56	88	50	68	-5	0.22	-0.58	0.22	3.38	66	14.96	85	88	46	0	0	1	0	0	
IL MOLINE	84	59	92	50	72	-4	0.05	-1.08	0.04	2.98	48	16.79	83	81	48	1	0	2	0	0	
IL PEORIA	83	60	89	57	72	-4	0.00	-0.99	0.00	1.31	23	14.07	74	82	49	0	0	0	0	0	
IL ROCKFORD	80	57	87	52	69	-6	0.18	-0.78	0.13	5.50	89	18.49	101	87	48	0	0	2	0	0	
IL SPRINGFIELD	84	60	89	56	72	-4	0.00	-0.80	0.00	1.37	29	11.14	60	91	56	0	0	0	0	0	
IN EVANSVILLE	85	61	89	56	73	-6	0.00	-0.93	0.00	5.43	106	30.67	126	94	48	0	0	0	0	0	
IN FORT WAYNE	78	56	85	52	67	-7	0.92	0.15	0.75	4.98	101	21.24	115	96	53	0	0	2	1	0	
IN INDIANAPOLIS	82	59	87	55	71	-5	0.18	-0.85	0.18	3.35	64	22.29	104	90	51	0	0	1	0	0	
IN SOUTH BEND	80	55	85	51	67	-6	0.97	0.08	0.78	4.15	74	16.20	81	93	47	0	0	3	1	0	
IA BURLINGTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IA CEDAR RAPIDS	82	58	88	49	70	-4	0.46	-0.48	0.42	3.78	61	15.30	88	89	53	0	0	3	0	0	
IA DES MOINES	84	62	92	55	73	-3	0.00	-0.86	0.00	4.92	83	14.84	88	91	53	2	0	0	0	0	
IA DUBUQUE	78	57	84	48	67	-5	0.01	-0.87	0.01	5.41	96	16.46	86	87	50	0	0	1	0	0	
IA SIOUX CITY	83	61	87	50	72	-4	0.84	0.08	0.53	3.96	79	11.52	81	93	62	0	0	4	1	0	
IA WATERLOO	80	58	87	48	69	-4	0.46	-0.67	0.44	6.41	100	16.00	89	92	56	0	0	2	0	0	
KS CONCORDIA	89	68	96	58	78	-1	0.43	-0.42	0.43	3.67	62	10.84	68	89	51	3	0	1	0	0	
KS DODGE CITY	89	65	94	55	77	-3	0.51	-0.23	0.44	6.30	143	12.58	104	91	48	3	0	2	0	0	
KS GOODLAND	91	59	94	54	75	0	0.98	0.29	0.98	3.16	72	6.91	62	89	30	5	0	2	1	0	
KS TOPEKA	88	67	92	61	78	0	1.36	0.50	1.29	2.74	39	14.43	76	91	55	3	0	3	1	0	

Weather Data for the Week Ending July 12, 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	MINIMUM	TEMP, °F		PRECIP.	
																80 AND ABOVE	82 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
KY WICHITA	89	69	93	64	79	-2	2.28	1.52	2.14	6.68	118	18.28	114	90	53	3	0	2	1
KY JACKSON	81	61	85	56	71	-3	0.06	-1.12	0.06	9.25	148	31.50	116	83	58	0	0	1	0
KY LEXINGTON	84	59	88	53	71	-4	0.00	-1.13	0.00	9.71	175	42.43	174	90	49	0	0	0	0
LA LOUISVILLE	85	63	88	58	74	-3	0.00	-1.02	0.00	8.07	156	42.05	169	88	49	0	0	0	0
LA PADUCAH	85	63	89	54	74	-5	1.89	0.93	1.89	8.75	154	37.09	134	96	54	0	0	1	1
LA BATON ROUGE	90	72	93	71	81	-1	2.34	0.86	1.39	10.24	148	44.28	136	98	63	5	0	4	2
LA LAKE CHARLES	91	73	93	71	82	0	0.51	-0.65	0.34	3.15	45	36.15	132	97	59	5	0	3	0
LA NEW ORLEANS	90	74	93	71	82	0	1.31	-0.07	0.93	9.03	110	32.96	98	92	61	4	0	5	1
LA SHREVEPORT	90	72	94	69	81	-1	0.55	-0.34	0.47	5.91	101	42.36	162	96	58	5	0	2	0
ME CARIBOU	78	53	83	51	66	-1	0.48	-0.39	0.46	5.93	134	19.97	120	91	45	0	0	2	0
ME PORTLAND	81	58	89	50	69	1	0.81	0.09	0.70	2.15	46	18.41	80	90	45	0	0	2	1
MD BALTIMORE	90	60	93	56	75	-2	0.02	-0.81	0.02	3.46	68	19.60	91	92	34	4	0	1	0
MA BOSTON	83	65	91	61	74	1	0.11	-0.52	0.06	1.76	42	15.54	71	76	38	1	0	3	0
MA WORCESTER	79	59	82	57	69	0	0.53	-0.35	0.50	4.00	74	21.25	86	84	45	0	0	3	1
MI ALPENA	74	47	87	38	60	-6	1.89	1.06	1.56	2.59	82	15.65	110	95	54	0	0	2	1
MI GRAND RAPIDS	77	55	84	50	66	-5	0.82	-0.10	0.82	3.44	69	16.35	94	91	46	0	0	1	1
MI HOUGHTON LAKE	75	44	83	35	59	-8	0.66	0.09	0.66	2.14	53	12.64	94	97	45	0	0	1	1
MI LANSING	78	52	85	44	65	-6	0.31	-0.27	0.27	2.39	50	14.41	94	91	46	0	0	2	0
MI MARQUETTE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MI MUSKOGON	75	53	82	47	64	-6	0.49	0.05	0.48	3.57	115	13.93	93	94	48	0	0	2	0
MN DULUTH	71	48	79	42	59	-6	0.19	-0.61	0.12	7.24	139	13.07	91	94	56	0	0	2	0
MN INT'L FALLS	75	49	82	36	62	-6	0.02	-0.82	0.02	4.87	90	9.71	81	94	53	0	0	1	0
MN MINNEAPOLIS	76	57	88	49	66	-7	0.89	0.08	0.61	7.74	142	13.49	90	89	58	0	0	3	1
MN ROCHESTER	74	55	84	44	65	-6	1.09	0.15	0.91	3.87	73	13.35	90	90	63	0	0	3	1
MN ST. CLOUD	74	54	85	43	64	-6	1.06	0.34	1.03	5.07	87	10.15	72	93	59	0	0	2	1
MS JACKSON	91	70	94	68	81	-1	0.00	-1.00	0.00	8.46	175	36.46	117	97	52	6	0	0	0
MS MERIDIAN	90	69	93	67	80	-1	0.55	-0.62	0.32	5.84	104	36.38	111	98	60	4	0	4	0
MS TUPELO	88	68	91	61	78	-3	1.39	0.40	0.78	12.78	231	43.17	134	96	60	2	0	4	1
MO COLUMBIA	86	65	90	57	75	-2	0.03	-0.83	0.02	3.27	58	20.79	98	93	59	1	0	2	0
MO KANSAS CITY	87	67	91	60	77	-1	0.87	-0.15	0.41	4.89	76	18.36	96	92	59	1	0	3	0
MO SAINT LOUIS	87	67	93	63	77	-2	0.00	-0.91	0.00	2.13	40	17.52	87	82	52	2	0	0	0
MO SPRINGFIELD	86	65	89	57	76	-2	0.09	-0.62	0.08	3.72	58	20.38	90	94	57	0	0	2	0
MT BILLINGS	79	56	96	46	67	-4	0.16	-0.09	0.07	3.85	158	7.92	84	82	40	1	0	4	0
MT BUTTE	74	45	82	37	59	-3	0.34	0.03	0.30	5.29	198	13.43	187	89	35	0	0	2	0
MT GLASGOW	81	56	93	47	69	-2	0.15	-0.26	0.09	2.88	102	6.33	100	82	35	1	0	2	0
MT GREAT FALLS	78	50	84	42	64	-3	0.08	-0.21	0.09	3.95	134	8.91	94	78	32	0	0	1	0
MT KALISPELL	71	48	78	43	60	-3	0.34	0.07	0.17	4.08	151	12.62	135	94	45	0	0	4	0
MT MILES CITY	87	59	100	51	73	-1	0.54	0.14	0.28	3.90	111	7.44	85	79	30	3	0	3	0
MT MISSOULA	78	48	87	39	62	-4	0.20	-0.02	0.12	2.61	120	10.05	127	84	36	0	0	2	0
NE GRAND ISLAND	87	65	92	56	76	0	1.15	0.48	1.15	4.83	91	10.85	75	99	60	2	0	1	1
NE LINCOLN	88	67	92	59	78	0	0.31	-0.42	0.31	6.10	118	13.40	88	89	57	2	0	1	0
NE NORFOLK	83	63	87	52	73	-2	0.02	-0.77	0.01	4.51	77	11.95	80	93	59	0	0	2	0
NE NORTH PLATTE	89	61	96	52	75	2	2.57	1.83	2.34	5.13	110	7.80	64	95	42	2	0	3	1
NE OMAHA	86	65	92	58	76	-1	0.85	-0.16	-	4.22	79	10.47	65	94	59	2	0	4	1
NE SCOTTSBLUFF	91	58	97	52	74	0	0.00	-0.51	0.00	3.42	96	13.44	135	85	27	5	0	0	0
NE VALENTINE	88	60	97	48	74	0	1.67	0.95	0.87	5.25	118	11.90	112	91	44	2	0	4	2
NV ELY	85	49	91	41	67	0	0.12	-0.05	0.08	1.83	165	5.58	99	50	10	2	0	2	0
NV LAS VEGAS	102	77	104	75	90	-1	0.00	-0.06	0.00	0.00	0	0.24	12	18	7	7	0	0	0
NV RENO	87	51	94	45	69	-2	0.00	-0.06	0.00	1.18	207	5.56	125	64	16	2	0	0	0
NV WINNEMUCCA	88	50	96	44	69	-3	0.00	-0.07	0.00	2.06	206	5.21	108	59	15	3	0	0	0
NH CONCORD	84	54	88	49	69	-1	1.83	1.11	1.53	3.81	86	17.98	99	93	36	0	0	3	1
NJ NEWARK	87	65	94	62	76	-1	0.71	-0.29	0.70	3.32	68	20.35	88	86	44	1	0	2	1
NM ALBUQUERQUE	89	64	93	62	76	-2	0.55	0.27	0.50	1.58	153	4.43	127	50	17	5	0	2	1
NY ALBANY	83	55	88	48	69	-3	0.28	-0.44	0.28	1.07	22	11.82	63	94	45	0	0	1	0
NY BINGHAMTON	76	54	79	52	65	-4	0.87	-0.13	0.42	3.73	75	15.27	80	88	48	0	0	2	0
NY BUFFALO	75	54	78	50	64	-7	2.11	1.45	1.09	5.31	113	22.24	121	92	45	0	0	2	2
NY ROCHESTER	76	50	82	48	63	-7	1.10	0.49	1.00	4.28	106	16.17	102	96	48	0	0	3	1
NY SYRACUSE	76	54	82	50	65	-5	1.09	0.21	0.89	3.96	75	16.10	79	88	45	0	0	2	1
NC ASHEVILLE	81	60	84	56	70	-2	1.45	0.45	1.09	9.87	166	33.17	130	99	55	0	0	5	1
NC CHARLOTTE	89	68	91	66	79	0	0.00	-0.87	0.00	6.92	142	23.42	100	87	42	3	0	0	0
NC GREENSBORO	86	64	89	58	75	-2	0.00	-1.02	0.00	3.18	57	22.04	98	91	47	0	0	0	0
NC HATTERAS	83	73	85	69	78	0	1.14	0.08	-	4.57	77	24.40	90	89	71	0	0	2	0
NC RALEIGH	89	66	92	59	77	-1	0.00	-0.89	0.00	4.52	87	20.90	92	95	48	3	0	0	0
NC WILMINGTON	88	69	92	65	78	-2	1.74	-0.08	1.70	7.06	78	21.11	76	96	59	2	0	2	1
ND BISMARCK	87	61	93	49	74	4	0.41	-0.10	0.39	2.84	79	8.78	96	92	46	3	0	2	0
ND DICKINSON	83	58	91	50	70	1	0.54	0.02	0.54	5.44	130	11.17	111	89	46	2	0	1	1
ND FARGO	75	58	86	42	66	-4	1.77	1.14	0.87	7.28	187	15.35	148	92	64	0	0	4	2
ND GRAND FORKS	77	60	88	44	68	-1	1.02	0.39	0.78	5.34	136	10.38	110	88	62	0	0	3	1
ND JAMESTOWN	80	60	86	47	70	-1	1.10	0.44	0.84	6.84	160	11.21	118	90	61	0	0	3	1
ND WILLISTON	84	59	93	50	71	1	0.33	-0.18	0.20	5.79	184	7.64	95	86	39	1	0	3	0
OH AKRON-CANTON	79	55	84	51	67	-4	0.54	-0.38	0.52	4.63	98	18.25	95	87	49	0	0	3	1
OH CINCINNATI	82	57	86	50	70	-5	0.60	-0.96	0.00	7.71	141	26.80	117	91	51	0	0	0	0
OH CLEVELAND	78	54	85	50	65	-6	0.53	-0.27	0.32	4.20	83	18.57	99	93	54	0	0	3	0
OH COLUMBUS	82	59	86	54	70	-3	0.29	-0.70	0.29	5.87	102	20.91	102	89	49	0	0	1	0
OH DAYTON	80	57	85	51	68	-6	1.20	0.39	1.18	3.53	67	18.93	93	88	51	0	0	3	1
OH MANSFIELD	78	55	85	50	66	-6	1.82	0.71	1.17	5.90	107	23.27	112	92	49	0	0	4	1

Based on 1961-90 normals

Weather Data for the Week Ending July 12, 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	TEMP, °F		PRECIP.		
																90 AND ABOVE	92 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
OK TOLEDO	79	54	86	50	67	-5	0.53	-0.22	0.46	3.57	71	20.42	120	92	46	0	0	2	0	
OK YOUNGSTOWN	79	52	84	48	66	-5	0.37	-0.57	0.37	4.69	85	15.28	79	90	48	0	0	1	0	
OK OKLAHOMA CITY	92	69	96	65	80	-1	0.11	-0.52	0.11	3.72	68	15.03	80	90	46	5	0	1	0	
OR TULSA	89	70	94	62	80	-3	1.42	0.68	1.42	8.77	153	19.79	90	89	54	4	0	1	1	
OR ASTORIA	67	56	69	52	62	2	1.21	0.92	1.02	5.93	202	47.70	135	95	67	0	0	6	1	
OR BURNS	77	43	87	35	60	-6	0.25	0.16	0.25	0.54	55	6.09	113	82	39	0	0	1	0	
OR EUGENE	76	51	82	46	64	-3	0.09	-0.03	0.06	1.97	119	22.95	88	89	48	0	0	3	0	
OR MEDFORD	84	53	91	47	69	-3	0.01	-0.05	0.01	1.44	212	10.02	108	80	29	1	0	1	0	
OR PENDLETON	78	53	85	47	66	-7	0.27	0.19	0.25	1.02	131	5.11	77	78	36	0	0	2	0	
OR PORTLAND	73	59	79	56	66	-1	0.47	0.32	0.38	3.36	191	26.59	140	86	52	0	0	3	0	
OR SALEM	74	54	80	49	64	-2	0.36	0.22	0.28	1.81	113	26.39	129	90	47	0	0	3	0	
PA ALLENTOWN	86	57	91	51	71	-3	0.96	0.04	0.94	3.56	67	16.12	72	92	37	1	0	2	1	
PA ERIE	74	53	80	50	64	-7	2.27	1.49	1.27	6.94	128	24.81	126	92	54	0	0	3	2	
PA MIDDLETOWN	90	63	94	59	77	1	0.09	-0.74	0.09	2.62	50	14.11	65	81	33	4	0	1	0	
PA PHILADELPHIA	88	65	93	62	78	0	0.05	-0.91	0.04	2.63	49	18.22	82	81	34	2	0	2	0	
PA PITTSBURGH	81	56	86	51	69	-3	0.13	-0.72	0.13	4.09	79	18.37	91	87	44	0	0	1	0	
PA SCRANTON	82	54	84	48	68	-4	0.30	-0.58	0.15	3.32	60	12.49	66	90	43	0	0	2	0	
PA WILLIAMSPORT	84	54	89	50	69	-3	0.01	-0.92	0.01	2.62	42	11.84	55	92	40	0	0	1	0	
RI PROVIDENCE	85	61	90	59	73	1	0.07	-0.65	0.05	2.56	56	19.29	81	88	38	1	0	3	0	
SC BEAUFORT	89	72	91	68	80	-1	0.32	-1.06	0.23	7.26	86	21.89	83	97	59	1	0	2	0	
SC CHARLESTON	88	71	90	66	79	-2	2.33	0.81	1.87	17.00	188	32.31	121	96	58	1	0	5	1	
SC COLUMBIA	89	69	92	66	79	-2	0.36	-0.84	0.35	5.56	81	21.58	79	96	48	4	0	2	0	
SC GREENVILLE	87	66	90	63	77	-1	2.19	1.12	2.01	8.24	124	29.26	102	91	50	1	0	3	1	
SD ABERDEEN	83	61	89	49	72	0	0.36	-0.29	0.20	3.33	78	8.85	82	91	56	0	0	4	0	
SD HURON	85	63	89	53	74	0	0.43	-0.22	0.31	5.20	116	11.19	92	89	50	0	0	3	0	
SD RAPID CITY	87	58	98	51	73	1	0.24	-0.26	0.17	3.72	94	14.55	139	85	39	2	0	4	0	
SD SIOUX FALLS	81	61	86	48	71	-3	0.44	-0.18	0.24	4.27	95	12.30	96	92	57	0	0	2	0	
TN BRISTOL	83	61	85	57	72	-2	0.00	-0.99	0.00	5.61	107	29.17	124	97	54	0	0	0	0	
TN CHATTANOOGA	86	66	90	61	78	-2	0.00	-1.11	0.00	6.37	118	32.93	110	94	51	1	0	0	0	
TN KNOXVILLE	83	65	86	60	74	-2	0.50	-0.59	0.50	7.62	130	34.47	128	93	54	0	0	1	1	
TN MEMPHIS	90	70	94	63	80	-3	0.34	-0.51	0.34	7.09	141	47.28	163	90	54	4	0	1	0	
TX NASHVILLE	86	65	90	57	76	-4	0.20	-0.70	0.18	6.85	134	30.95	116	89	49	1	0	2	0	
TX ABILENE	91	71	94	65	81	-3	0.26	-0.21	0.26	7.15	194	16.20	134	88	48	6	0	1	0	
TX AMARILLO	89	63	93	55	78	-3	0.24	-0.35	0.16	3.97	84	13.70	133	89	32	5	0	4	0	
TX AUSTIN	92	74	93	73	83	-1	0.00	-0.51	0.00	8.98	194	29.23	159	93	49	7	0	0	0	
TX BEAUMONT	92	75	93	73	83	1	0.73	-0.50	0.46	4.33	56	26.61	94	94	64	6	0	4	0	
TX BROWNSVILLE	94	76	95	74	85	1	0.00	-0.44	0.00	1.47	41	15.29	136	93	53	7	0	0	0	
TX CORPUS CHRISTI	94	75	95	68	84	0	0.00	-0.54	0.00	2.26	52	18.12	129	96	54	7	0	0	0	
TX DEL RIO	97	76	98	73	86	1	0.00	-0.44	0.00	3.70	128	16.94	185	78	36	7	0	0	0	
TX EL PASO	93	69	97	66	81	-1	0.24	-0.08	0.20	1.34	112	3.55	126	48	19	6	0	2	0	
TX FORT WORTH	91	73	95	68	82	-3	0.93	0.39	0.81	4.96	127	25.51	134	94	58	6	0	2	1	
TX GALVESTON	89	82	91	79	86	2	0.08	-0.82	0.06	1.54	26	28.87	146	82	67	4	0	2	0	
TX HOUSTON	93	72	94	69	82	0	0.60	-0.25	0.46	4.83	76	34.89	145	97	59	7	0	2	0	
TX LUBBOCK	89	66	97	61	78	-2	0.07	-0.48	0.04	5.43	147	15.51	174	84	36	4	0	2	0	
TX MIDLAND	93	68	97	64	81	-1	1.34	0.95	0.74	4.61	208	9.53	143	81	30	5	0	4	2	
TX SAN ANGELO	96	72	98	65	84	2	0.00	-0.24	0.00	2.58	92	15.28	149	81	32	7	0	0	0	
TX SAN ANTONIO	93	75	95	73	84	0	0.00	-0.52	0.00	6.50	137	20.31	123	88	47	7	0	0	0	
TX VICTORIA	95	75	96	73	85	1	0.00	-0.82	0.00	4.41	69	42.24	222	99	47	7	0	0	0	
TX WACO	93	73	95	69	83	-2	0.00	-0.50	0.00	4.98	119	28.03	156	92	50	6	0	0	0	
TX WICHITA FALLS	96	72	103	66	84	-1	0.05	-0.36	0.05	2.16	51	13.76	86	85	37	6	0	1	0	
UT SALT LAKE CITY	89	60	97	53	75	-2	0.48	0.27	0.45	2.19	174	11.05	117	57	19	5	0	2	0	
VT BURLINGTON	78	55	86	51	66	-4	1.45	0.65	1.42	4.93	102	14.15	86	92	43	0	0	2	1	
VA LYNCHBURG	86	58	90	53	72	-3	0.02	-0.92	0.02	3.67	73	19.23	90	94	41	2	0	1	0	
VA NORFOLK	86	70	93	64	78	0	0.00	-1.11	0.00	1.46	26	13.31	57	91	50	2	0	0	0	
VA RICHMOND	88	64	93	60	76	-2	0.16	-0.95	0.16	2.73	50	16.63	75	93	42	3	0	1	0	
VA ROANOKE	86	61	89	58	73	-2	0.04	-0.81	0.04	5.17	112	17.37	83	89	46	0	0	1	0	
VA WASH/DULLES	88	58	92	53	73	-2	0.06	-0.71	0.04	2.96	56	16.45	78	94	35	3	0	2	0	
WA HANFORD	83	57	89	49	69	-	0.13	0.07	-	0.59	120	3.71	113	63	28	0	0	3	0	
WA OLYMPIA	70	53	72	48	61	-1	0.98	0.78	0.75	3.95	198	37.69	144	94	51	0	0	6	1	
WA QUILLAYUTE	65	52	67	45	58	0	0.32	-0.28	0.20	9.15	220	74.27	134	98	71	0	0	3	0	
WA SEATTLE-TACOMA	68	55	71	52	62	-3	0.54	0.36	0.32	2.47	135	26.88	143	93	60	0	0	5	0	
WA SPOKANE	74	51	80	45	62	-6	0.55	0.38	0.36	1.27	81	11.58	127	86	40	0	0	3	0	
WA YAKIMA	80	50	84	46	65	-4	0.00	-0.04	0.00	0.89	139	3.34	79	82	33	0	0	0	0	
WV BECKLEY	79	55	83	50	67	-2	0.23	-0.85	0.22	5.59	99	22.84	102	97	56	0	0	2	0	
WV CHARLESTON	82	60	87	55	71	-4	0.47	-0.85	0.47	6.57	120	24.53	110	99	59	0	0	1	0	
WV ELKINS	80	50	86	47	66	-3	0.29	-0.73	0.25	3.67	62	23.20	97	82	48	0	0	3	0	
WV HUNTINGTON	82	60	86	56	71	-4	1.31	0.27	1.31	6.58	125	23.19	104	96	58	0	0	1	1	
WI EAU CLAIRE	78	54	87	48	65	-6	1.28	0.40	0.74	6.63	116	13.35	85	90	49	0	0	3	1	
WI GREEN BAY	72	50	83	44	61	-8	1.16	0.47	1.00	7.02	153	15.80	113	94	58	0	0	2	1	
WI MADISON	77	52	84	45	64	-6	1.46	0.72	0.98	6.81	138	16.06	105	93	54	0	0	3	1	
WI MILWAUKEE	74	55	81	52	64	-6	1.24	0.47	0.84	11.17	244	19.83	119	93	55	0	0	2	1	
WY CASPER	88	52	94	48	70	0	0.00	-0.30	0.00	1.84	92	6.61	85	83	19	2	0	0	0	
WY CHEYENNE	85	53	88	48	69	1	0.01	-0.47	0.01	3.50	121	8.81	104	72	22	0	0	1	0	
WY LANDER	87	55	94	50	71	1	0.16	-0.05	0.16	2.03	110	6.60	78	58	16	2	0	1	0	
WY SHERIDAN	80	51	94	47	66	-3	1.01	0.77	0.48	3.10	115	8.57	93	91	41	1	0	4	0	

Based on 1961-90 normals

Note: These data are preliminary and subject to change. In the past, precipitation totals from a number of stations have been incomplete.

National Agricultural Summary

July 7 - 13, 1997

HIGHLIGHTS

Warm, dry weather provided ideal weather for winter wheat harvest in an area extending from Colorado eastward to Indiana. Although the lack of precipitation provided good harvest weather, long-term dryness persisted in central High Plains soils. Showers in eastern Kansas delayed harvest

only briefly. Beneficial showers fell along the northern tier of States in the eastern United States, but topsoil was becoming dry further south. Temperatures were seasonable and favorable for crop development throughout the East and South.

Winter wheat: Farmers in several States through the central part of the Nation harvested over 30 percent (%) or more of their States' acreage during the week. Harvest in southern States was nearing an end. Oregon winter wheat harvest was just underway, while Idaho farmers had yet to start. The winter wheat acreage in Washington was late, but continued to ripen as harvest remained at least 7-10 days away in most areas. Nationwide, winter wheat harvest advanced to 63%, ahead of both the 61% harvested at this time last year and the 5-year average of 60%.

Corn: Seven percent of the Nation's corn acreage was silking, behind both the 11% silking in 1996 and the average of 15%. Silking progress was behind the normal pace in all of the 17 major corn-producing States, except Kansas and Missouri. Many Iowa corn fields were in need of moisture as the crop entered the critical pollination stage. Late-week rainfall in Iowa was welcomed by many farmers as lack of precipitation and cool nighttime temperatures began to stress the crop earlier in the week. Corn height in Illinois reached 62 inches, compared with 52 inches on average. Nebraska corn development was about 10 days behind the normal pace. Hot, dry weather caused Pennsylvania corn condition to decline significantly. Overall, corn remained in mostly good condition.

Soybeans: Soybeans were blooming on 23% of the Nation's acreage, ahead of 1996 but equal to the average. The crop remained in mostly good condition. Double-crop soybeans were planted immediately following winter wheat harvest in southern and central areas. Soybean condition declined in the western Corn Belt and the Southeast due to the dry weather. Soybean blooming was well ahead of the normal pace in Kansas and South Carolina, but well behind in Minnesota. Some Mississippi cotton and corn fields were plowed up and replanted to soybeans.

Cotton: In the Southeast, 83% of the cotton acreage was squaring, two percentage points ahead of average. Cotton setting bolls, at 23% complete, remained behind the normal progress. Cotton progress was ahead of normal in Arizona and California as seasonable temperatures provided good growing conditions. Overall, cotton was in good to fair condition. Georgia cotton growers treated cotton for bollworms and weeds. Beneficial rain fell throughout many areas of the Texas plains. Nevertheless, additional heat units were needed. Bolls were beginning to set in early planted fields.

Rice: Rice was heading on 13% of the national acreage, 6 points ahead of last year but 6 points behind the average. Condition of the crop rated mostly good. In Arkansas, heading hadn't started by week's end. California rice producers continued herbicide and insecticide treatments. Sheath blight and blast were actively treated in all southern Louisiana parishes. Fungicides for sheath blight were also applied to some Texas fields.

Other Small Grains: Spring wheat was heading on 73% of the acreage, ahead of both 62% in 1996 and the average of 71%. Spring wheat progress in North Dakota pulled ahead of average despite very late planting. Montana small grains received some moisture and continued to look good in most areas. Nationwide, barley heading reached 72% complete, ahead of 1996 but just 1 point behind the average. Oat heading reached 86% complete, compared with 81% for both 1996 and the average. All three small grain crops rated mostly good to fair condition.

Other Crops: Sorghum was heading on 26% of the Nation's acreage, equal to 1996 and the average. Heading was ahead of normal in Kansas and Mississippi, but behind in the other major sorghum-producing States. Condition of the crop remained mostly good. Peanuts pegging progressed past the halfway mark as condition remained mostly good.

Crop Progress and Condition

Week Ending July 13, 1997

Winter Wheat Percent Harvested

	Jul 13 1997	Prev Week	Prev Year	5-Yr Avg
AR	94	92	100	99
CA	97	95	98	91
CO	52	11	21	30
GA	99	98	100	100
ID	0	0	0	1
IL	85	36	80	80
IN	45	15	57	57
KS	97	67	88	84
MI	0	0	0	4
MO	92	54	91	77
MT	0	0	0	0
NE	26	3	24	32
NC	99	96	95	93
OH	4	0	33	37
OK	97	91	100	97
OR	3	0	5	4
SD	0	0	0	5
TX	95	76	96	94
WA	0	0	1	4
ALL	63	46	61	60

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

Soybeans Percent Blooming

	Jul 13 1997	Prev Week	Prev Year	5-Yr Avg
AL	12	6	23	18
AR	10	5	22	18
GA	22	7	22	23
IL	26	11	12	26
IN	17	6	6	24
IA	33	13	18	30
KS	42	21	30	19
KY	8	0	12	17
LA	42	32	53	36
MI	7	0	0	14
MN	10	0	15	24
MS	39	37	68	35
MO	21	8	15	16
NE	18	4	9	18
NC	13	5	12	10
OH	35	10	9	28
SC	28	16	16	11
SD	21	5	16	20
TN	7	2	9	10
ALL	23	9	16	23

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

Corn Percent Silking

	Jul 13 1997	Prev Week	Prev Year	5-Yr Avg
CO	1	0	7	4
GA	94	91	96	97
IL	4	1	6	18
IN	1	0	3	11
IA	0	0	0	6
KS	38	23	49	37
KY	20	0	39	46
MI	0	0	0	2
MN	1	0	3	8
MO	34	16	44	31
NE	2	0	6	14
NC	60	50	83	80
OH	1	0	0	7
PA	3	0	14	7
SD	0	0	0	2
TX	59	55	80	73
WI	0	0	0	2
ALL	7	5	11	15

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

Oats Percent Headed

	Jul 13 1997	Prev Week	Prev Year	5-Yr Avg
IA	100	97	98	97
MI	90	73	88	83
MN	88	81	94	93
NE	100	95	100	NA
ND	59	33	50	62
OH	100	90	99	98
PA	94	85	94	53
SD	82	74	85	89
WI	99	86	78	80
ALL	86	74	81	81

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

Peanuts Percent Pegging

	Jul 13 1997	Prev Week	Prev Year	5-Yr Avg
AL	49	38	70	NA
FL	87	69	98	NA
GA	65	40	82	NA
NC	45	23	38	NA
OK	74	55	86	NA
SC	54	48	61	NA
TX	38	25	48	NA
VA	20	10	53	NA
ALL	55	36	69	NA

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

Cotton Percent Squaring

	Jul 13 1997	Prev Week	Prev Year	5-Yr Avg
AL	61	42	90	87
AZ	100	92	98	98
AR	99	86	100	98
CA	90	85	94	86
GA	86	79	95	94
LA	92	80	100	98
MS	85	70	99	96
MO	70	55	98	95
NM	80	73	90	77
NC	75	56	71	65
OK	49	*40	81	54
SC	82	77	91	85
TN	88	67	98	94
TX	80	60	77	67
ALL	83	68	87	81

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

Cotton Percent Setting Bolls

	Jul 13 1997	Prev Week	Prev Year	5-Yr Avg
AL	16	2	39	31
AZ	75	58	69	68
AR	6	5	61	42
CA	20	15	19	17
GA	30	15	63	50
LA	41	12	63	68
MS	45	*23	74	50
MO	4	2	39	25
NM	27	8	44	27
NC	10	3	35	28
OK	0	0	18	8
SC	27	22	33	31
TN	9	0	40	24
TX	20	13	24	24
ALL	23	13	39	33

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

Barley Percent Headed

	Jul 13 1997	Prev Week	Prev Year	5-Yr Avg
ID	77	59	71	72
MN	74	43	65	85
MT	68	54	60	69
ND	68	36	59	69
SD	81	66	78	87
WA	99	96	86	95
ALL	72	49	64	73

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

Crop Progress and Condition

Week Ending July 13, 1997

Sorghum Percent Headed

	Jul 13 1997	Prev Week	Prev Year	5-Yr Avg
AR	17	NA	41	35
CO	0	NA	0	0
IL	2	NA	0	4
KS	15	NA	7	3
LA	31	NA	74	63
MS	65	NA	68	55
MO	5	NA	7	9
NE	0	NA	0	1
NM	0	NA	0	0
OK	8	NA	28	11
SD	0	NA	0	1
TX	56	NA	58	65
ALL	26	NA	26	26

These 12 States produced 99% of the 1996 sorghum crop.

Rice Percent Headed

	Jul 13 1997	Prev Week	Prev Year	5-Yr Avg
AR	0	0	17	7
CA	0	0	0	0
LA	38	21	45	48
MS	23	15	19	16
TX	32	15	68	47
ALL	13	7	25	19

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

Spring Wheat Percent Headed

	Jul 13 1997	Prev Week	Prev Year	5-Yr Avg
ID	78	66	80	75
MN	77	49	67	86
MT	76	61	67	71
ND	67	39	52	63
SD	85	68	86	90
ALL	73	50	62	71

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

Rice Crop Condition by Percent

	VP	P	F	G	EX
AR	0	2	24	55	19
CA	0	0	60	40	0
LA	0	4	37	48	11
MS	0	3	23	68	6
TX	0	7	34	55	4
ALL	0	3	34	52	11
Prev Wk	0	2	31	54	13
Prev Yr	0	3	14	66	17

Soybeans Crop Condition by Percent

	VP	P	F	G	EX
AL	0	5	26	66	3
AR	0	8	28	52	12
GA	0	3	29	59	9
IL	2	5	31	53	9
IN	1	4	25	58	12
IA	1	4	24	57	14
KS	0	2	13	68	17
KY	1	10	36	48	5
LA	1	12	25	54	8
MI	3	8	32	38	19
MN	3	14	32	43	8
MS	0	5	22	60	13
MO	1	8	31	51	9
NE	1	2	19	65	13
NC	2	6	34	56	2
OH	2	7	31	48	12
SC	1	1	19	71	8
SD	3	5	24	56	12
TN	0	4	30	51	15
ALL	1	6	27	55	11
Prev Wk	1	5	26	56	12
Prev Yr	2	9	34	46	9

Corn Crop Condition by Percent

	VP	P	F	G	EX
CO	2	6	21	53	18
GA	0	2	13	74	11
IL	2	4	25	56	13
IN	1	5	24	56	14
IA	1	2	18	58	21
KS	1	2	9	67	21
KY	1	8	34	47	10
MI	3	8	37	43	9
MN	2	5	24	54	15
MO	1	2	24	57	16
NE	0	2	21	60	17
NC	11	11	37	40	1
OH	1	6	27	50	16
PA	5	15	40	32	8
SD	3	4	18	57	18
TX	0	2	26	47	25
WI	0	3	13	52	32
ALL	1	4	22	56	17
Prev Wk	1	4	20	57	18
Prev Yr	3	8	28	48	13

Cotton Crop Condition by Percent

	VP	P	F	G	EX
AL	11	19	48	19	3
AZ	0	4	7	43	46
AR	0	13	46	38	3
CA	0	0	0	50	50
GA	0	1	18	70	11
LA	0	5	29	54	12
MS	1	8	35	47	9
MO	4	16	46	32	2
NM	0	5	32	57	6
NC	5	9	50	32	4
OK	0	4	19	75	2
SC	1	2	27	66	4
TN	3	11	43	40	3
TX	2	9	30	48	11
ALL	2	8	30	47	13
Prev Wk	2	11	27	49	11
Prev Yr	5	13	26	41	15

Sorghum Crop Condition by Percent

	VP	P	F	G	EX
AR	0	3	30	59	8
CO	0	1	35	57	7
IL	3	5	31	55	6
KS	0	1	13	73	13
LA	0	0	28	65	7
MS	0	2	21	72	5
MO	2	5	34	44	15
NE	0	6	31	56	7
NM	0	2	21	77	0
OK	0	1	23	74	2
SD	0	8	21	61	10
TX	0	5	27	48	20
ALL	0	3	22	61	14
Prev Wk	0	2	21	64	13
Prev Yr	4	6	27	53	10

Oats Crop Condition by Percent

	VP	P	F	G	EX
IA	0	3	25	55	17
MI	2	10	37	45	6
MN	2	13	36	37	12
NE	0	3	31	56	10
ND	6	20	42	32	0
OH	1	6	37	44	12
PA	0	4	34	53	9
SD	3	4	27	58	8
WI	0	1	16	59	24
ALL	2	8	31	48	11
Prev Wk	3	10	29	48	10
Prev Yr	1	6	26	57	10

Crop Progress and Condition

Week Ending July 13, 1997

	VP	P	F	G	EX
AL	0	7	46	45	2
FL	0	0	6	55	39
GA	0	0	18	75	7
NC	0	0	40	57	3
OK	0	0	29	63	8
SC	0	0	24	71	5
TX	0	2	22	60	16
VA	0	5	30	60	5
ALL	0	2	25	63	10
Prev Wk	0	3	25	59	13
Prev Yr	1	6	34	50	9

	VP	P	F	G	EX
ID	0	1	6	68	25
MN	1	37	18	33	11
MT	2	4	29	49	16
ND	2	13	37	44	4
SD	2	4	30	60	4
WA	0	0	5	77	18
ALL	1	10	27	51	11
Prev Wk	1	8	29	50	12
Prev Yr	1	5	26	54	14

	VP	P	F	G	EX
ID	0	3	10	68	19
MN	3	34	18	38	7
MT	2	11	32	46	9
ND	4	15	37	42	2
SD	3	5	31	55	6
ALL	3	15	32	45	5
Prev Wk	3	13	36	41	7
Prev Yr	1	6	28	55	10

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

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

	VP	P	F	G	EX		VP	P	F	G	EX
AL	0	1	15	67	17	NH	0	0	44	56	0
AZ	16	32	22	24	6	NJ	0	40	60	0	0
AR	0	7	38	47	8	NM	0	5	33	57	5
CA	5	15	50	20	10	NY	2	2	75	17	4
CO	3	12	42	36	7	NC	2	11	38	43	6
CT	0	13	56	28	3	ND	6	28	41	24	1
DE	2	29	26	43	0	OH	1	7	29	53	10
FL	0	0	25	60	15	OK	0	2	22	67	9
GA	0	1	21	71	7	OR	0	1	13	77	9
ID	0	0	10	61	29	PA	13	22	42	20	3
IL	3	8	36	47	6	RI	0	6	80	14	0
IN	1	6	28	55	10	SC	1	7	34	51	7
IA	2	14	36	41	7	SD	2	4	17	62	15
KS	1	6	19	61	13	TN	0	2	16	60	22
KY	1	5	35	51	8	TX	0	5	29	49	17
LA	0	1	22	63	14	UT	2	2	14	76	6
ME	1	2	12	71	14	VT	0	0	18	68	14
MD	11	23	34	32	0	VA	10	25	45	20	0
MA	0	13	27	60	0	WA	0	7	14	72	7
MI	5	21	45	24	5	WV	0	6	36	55	3
MN	2	16	39	39	4	WI	1	3	20	64	12
MS	1	4	19	60	16	WY	1	2	15	72	10
MO	1	9	33	51	6	ALL	2	8	30	50	10
MT	1	5	27	49	18						
NE	3	13	31	52	1	Prev Wk	2	7	28	51	12
NV	0	1	18	67	14	Prev Yr	6	13	30	45	6

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 5.4. Topsoil 13% short, 70% adequate, 17% surplus. Corn silked 73%, 93% 1996, 88% avg. Corn dented 27%, 35% 1996, 34% avg.; 1% very poor, 3% poor, 13% fair, 65% good, 18% excellent. Wheat harvested 91%, 100% 1996, 96% avg. Livestock 6% fair, 73% good, 21% excellent. Drier conditions allowed farmers to cultivate, spray fields.

ALASKA: Days suitable for making hay 5. Topsoil 50% short, 50% adequate. Subsoil 65% short, 35% adequate. First crop hay harvest 70% complete, compared to 55% 1996. Crop growth 25% slow, 60% moderate, 15% rapid. Barley 25% in dough, compared to 10% 1996. Oats 10% in boot, 70% headed, 20% in dough. Barley 50% below average, 50% avg. Potato 25% below average, 55% avg., 20% above average. Potato height 12 in., 3 in. taller than 1996.

ARIZONA: Small grain harvest is essentially complete. Alfalfa harvest activity 9% light, 30% moderate, 46% active; 15% not being harvested; 7% fair, 51% good, 42% excellent. Cantaloupe, watermelon, honeydew, speciality melons were shipped from both western and central areas during the past week. Central area growers continued to ship sweet corn, carrots, parsley, bell peppers. Citrus season is complete. Grapes were being harvested in both the western, central areas.

ARKANSAS: Days suitable for fieldwork 6. Sunshine, high humidity throughout the week. Soil moisture supplies 2% very short, 36% short, 59% adequate, 3% surplus. Main farming activities: Harvest of hay, soybean planting and/or replanting, soybean weed control. Other farm activity included: Fertilization of rice, cotton, hayfields, weed control in rice, cotton, cotton insect control, peach, tomato harvest. Corn 1% poor, 17% fair, 60% good, 22% excellent. Oats 20% fair, 60% good, 20% excellent. Hay 5% poor, 40% fair, 50% good, 5% excellent. Pasture feed 7% poor, 38% fair, 47% good, 8% excellent.

CALIFORNIA: Field activities progressed normally under seasonable weather conditions in most areas. Small grain harvest was nearly complete, harvested land was being prepared for double cropping. Sugar beet harvest was progressing normally. Rice producers continued herbicide, insecticide treatments. Cotton showed good growth, development, with bolls forming in some areas. Cotton growers were continuing pesticide treatments for aphids, mites, lygus. Some early plantings of corn were cut for silage. Field corn harvest was underway in the Imperial Valley. Planting of corn as a second crop was nearly completed. Alfalfa, sudan grass were cut, green chopped, or dried, baled for hay. Pear harvest began in the northern San Joaquin Valley. Harvest of peaches, nectarines, figs, plums continued. Cling peaches were harvested for canning. Apples, walnuts were treated for codling moth. Table grape harvesting continued, with good sugar content noted. Almond hulls were splitting, orchard floors were prepared for harvest. Lemon, Valencia orange picking continued. Orange growers treated for scale. Broccoli, cauliflower, lettuce were harvested in the coastal areas. Bell pepper harvesting continued on the west side of Fresno County. Cantaloupe, honeydew, watermelons were harvested in the San Joaquin Valley. Squash was harvested in the San Joaquin Valley. Carrot, potato harvests progressed in Kern County. Processing tomato harvest began in Fresno County. Garlic was harvested in the central coast areas. Pumpkins were sprayed for mildew, aphids. San Joaquin Valley sweet corn harvest was in full swing. Onions were harvested in Kern, San Joaquin counties. Sweet potatoes were harvested in Merced County. Rangeland was in generally good condition at higher elevations, with adequate feed, water available. Lower elevation rangeland was in poor condition. Supplemental

feeding was necessary on some lower elevation ranches. Statewide, dry rangeland conditions heightened fire concerns. Livestock was in good condition.

COLORADO: Days suitable for fieldwork 6.7. Topsoil 8% very short, 27% short, 60% adequate, 5% surplus. Subsoil 7% very short, 27% short, 62% adequate, 4% surplus. Spring barley 100% headed, 100% 1996, 88% avg.; 55% turning color, 63% 1996, 32% avg.; 1% harvested, 3% 1996, 1% avg.; 1% very poor, 7% poor, 17% fair, 55% good, 20% excellent. Oats 88% headed, 91% 1996, 81% avg.; 30% turning color, 29% 1996, 33% avg.; 12% harvested, 3% 1996, 4% avg.; 4% poor, 13% fair, 62% good, 21% excellent. Spring wheat 94% headed, 94% 1996, 81% avg.; 25% turning color, 47% 1996, 15% avg.; 8% poor, 13% fair, 60% good, 19% excellent. Sorghum 99% emerged, 99% 1996, 91% avg.; 1% poor, 35% fair, 57% good, 7% excellent. Summer potatoes 3% very poor, 5% poor, 20% fair, 53% good, 19% excellent. Dry onion 2% very poor, 4% poor, 11% fair, 65% good, 18% excellent. Sugar beets 100% thinned, 100% 1996, 92% avg.; 1% very poor, 4% poor, 14% fair, 63% good, 18% excellent. Dry beans 9% flowered, 9% 1996, 2% avg.; 3% very poor, 5% poor, 26% fair, 55% good, 11% excellent. Corn 1% silked, 7% 1996, 4% avg. Alfalfa 100% 1st cutting, 97% 1996, 93% avg.; 28% 2nd cutting, 23% 1996, 27% avg.; 1% very poor, 4% poor, 13% fair, 63% good, 19% excellent. Winter wheat 99% turning color, 98% 1996, 91% avg.; 81% ripe, 71% 1996, 74% avg. Livestock mostly good to fair.

DELAWARE: Days suitable for fieldwork 6.2. Topsoil 18% very short, 50% short, 32% adequate. Subsoil 8% very short, 45% short, 47% adequate. Winter wheat 82% harvested, 89% 1996, 85% avg. Barley 100% harvested, 100 1996, 100% avg. Corn 4% poor, 30% fair, 61% good, 5% excellent. Soybeans 4% poor, 27% fair, 65% good, 4% excellent; 87% planted, 89% 1996, 90% avg.; 5% bloomed, 5% 1996, 7% avg. Sorghum 29% fair, 69% good, 2% excellent; 2% planted, 9% 1996, 2% avg. Cucumbers 19% harvested, 27% 1996, 23% avg. Snap beans 7% harvested, 7% 1996, 29% avg. Sweet corn 12% harvested, 8% 1996, 13% avg. Potatoes 8% harvested, 15% 1996, 14% avg. Apples 1% fair, 99% good. Peaches 2% fair, 98% good. Hay supplies 21% short, 79% adequate. Clover, other hays 76% 2nd cutting harvested, 53% 1996, 47% avg. Alfalfa 89% 2nd cutting harvested, 72% 1996, 77% avg. Activities: Dry conditions recorded throughout the State, wheat, hay harvesting.

FLORIDA: Frequent rainfall delayed hay baling, other fieldwork some areas. Topsoil remains mostly adequate with isolated pockets short, surplus moisture. Tobacco harvesting active, markets start opening July 22. Peanut 6% fair, 55% good, 39% excellent; 87% pegged. Corn, cotton, soybeans growing normally. Recent abundant rainfall caused some reduction in hay quality. Producers shipped light amount of tomatoes, watermelons, with most harvesting finished. Producers in Gadsden County have laid most plastic for fall crop plantings with tomato transplanting to begin soon. Dade County growers continue to pick, ship okra. Harvesting of summer vegetables for local markets active. Normal summer rain, thunderstorms, hot temperatures in citrus areas. Harvest very limited; new crop fruit progressing well. Pasture feed fair 25%, good 60%, excellent 15%. Condition of cattle fair 15%, good 75%, excellent 10%. Pastures generally improved. Rainfall in Panhandle good for pasture growth. Moisture levels varied from short to surplus central. Southeast reported surplus moisture.

GEORGIA: Days suitable for fieldwork 6.0. Soil moisture 3% very short, 23% short, 69% adequate, 5% surplus. Corn 81% dough, 79% 1996, 82% avg.; 38% dent, 48% 1996, 51% avg.; 12% mature, 4% 1996, 9% avg. Hay 1% very poor, 2% poor, 24% fair, 67% good, 6% excellent. Peanuts 94% blooming, 98% 1996, 97% avg. Sorghum 2% poor, 17% fair, 76% good, 5% excellent; 94% planted, 97% 1996, 97% avg. Soybeans 99% planted, 99% 1996, 99% avg.; 5% setting pods, 5% 1996, 4% avg. Tobacco 1% very poor, 4% poor, 34% fair, 55% good, 6% excellent; 38% harvested, 30% 1996, 28% avg. Watermelons 2% very poor, 11% poor, 51% fair, 34% good, 2% excellent; 73% harvested, 71% 1996, 75% avg. Apples 2% poor, 9% fair, 82% good, 7% excellent. Peaches 21% poor, 24% fair, 52% good, 3% excellent; 85% harvested, 83% 1996, 81% avg. Pecans 4% poor, 19% fair, 73% good, 4% excellent. Scattered showers fell across the State, soil moisture levels fell. Field work very active during the week. Corn conditions good, rain needed in some areas. Cotton conditions are good overall, about unchanged from last week. Spraying cotton for bollworms, weed control. Soybean planting nearing completion with rain needed some areas. Soybean conditions dropped due to hot weather. Wheat harvest is wrapping up. Hay harvest very active during the week. Tobacco harvest more than a week ahead of normal. Pastures good. Other activities include harvesting peaches, crop cultivation, aerial spraying of fungicides on peanuts, scouting cotton.

HAWAII: Farming, crop progress continued slowed by showery, cloudy, windy weather in windward areas. Leeward areas favorable mix sunshine, showers. Local produce shipments into Honolulu interrupted by two day sick out of dockworkers. Papaya production light, increase in some areas. Disease remains problem on Hawaii Island. Head cabbage steady, good condition. Watermelon mostly good condition with heavy production to continue. Market conditions constraint head cabbage, watermelon production.

IDAHO: Days suitable for fieldwork 5.8. Topsoil 8% surplus, 80% adequate, 12% short. Grain fields are rapidly turning gold, farmers are getting equipment ready for harvest. Spring wheat booted 99%; turning color 18%. Barley booted 98%; turning color 14%. Winter wheat headed 100%; 99% 1996; 97% avg.; turning color 56%. Potatoes 12 in. high 90%, 81% 1996, 82% avg.; closing middles 72%, 54% 1996, 46% avg.; 42% excellent, 49% good, 9% fair. Alfalfa hay harvested (1st cutting) 94%, 93% 1996, 94% avg.; 2nd cutting 17%, 16% 1996, 16% avg. Dry peas harvested 0%, 0% 1996, 1% avg. Cherries harvested 96%, 69% 1996, 84% avg. Peaches harvested 5%, 0% 1996, 3% avg. Mint harvested 3%, 2% 1996, 5% avg. Irrigation water supply 47% excellent, 50% good, fair 3%. Activities: Preparing for grain harvest, weed control, irrigating.

ILLINOIS: Days suitable for fieldwork 6.4. Topsoil 11% very short, 40% short, 46% adequate, 3% surplus. Wheat was harvested at a record pace last week under near ideal harvest conditions. Double cropped soybeans were being planted as soon as the wheat was harvested. Lack of soil moisture is becoming a concern for farmers across the northern two-thirds of the State. Corn in many areas will be tasseling, silking soon, moisture will become critical. Condition of both corn, soybeans declined from a week ago. Several reports of spraying alfalfa for leafhoppers were received, limited areas in the north were being sprayed for corn borers. Baling hay, straw was also common under last week's dry skies. Other activities for the week: Mowing roadsides, spraying herbicides on soybeans, cultivating soybeans. Corn height 62 in., 47 in. 1996, 52 in. avg. Soybeans setting pods 1%, 1% 1996, 3% avg. Wheat turning ripe 96%, 93% 1996, 98% avg. Oats filled 91%, 80% 1996, 87% avg.; turning yellow 67%, 38% 1996, 59% avg.; ripe 8%, 5% 1996, 24% avg.; harvested 1%, 0% 1996, 5% avg. Oats 1% poor, 16% fair, 71% good, 12% excellent. Alfalfa hay 2nd cutting 52%, 34% 1996, 50% avg. Alfalfa hay 1% very poor, 3% poor, 27% fair, 60% good, 9% excellent. Red clover hay cutting 90%, 94% 1996, 93% avg.

INDIANA: Days suitable for fieldwork 6.0. Topsoil 3% very short, 21% short, 71% adequate, 5% surplus. Subsoil 1% very short, 12% short, 83% adequate, 4% surplus. Farmers had an excellent week for

winter wheat harvest in the central, southern areas. Soybean planting is virtually complete except for double crop soybeans. Corn, soybeans continue to make good progress. Range, pasture feed 1% very poor, 6% poor, 28% fair, 55% good, 10% excellent. First cutting of alfalfa is virtually complete; 2nd cutting of alfalfa 20% complete. Activities: Cutting hay, harvesting wheat, planting soybeans, applying herbicide, applying nitrogen to corn, cultivating corn, soybeans, machinery maintenance, attending 4-H fairs, caring for livestock.

IOWA: Days suitable for fieldwork 6.2. Topsoil very short 4%, short 24%, adequate 69%, surplus 3%. Subsoil very short 1%, short 16%, adequate 79%, surplus 4%. Weekend rains were gladly welcome by many farmers, dry weather, cool nighttime temperatures began to slow crop progress last week. Many corn fields were in need of rains as that crop enters the critical pollination stage. Insects continue to pester fields, spraying was hampered by windy conditions in areas. Alfalfa hay 2nd harvest 30%, 14% 1996, 22% avg. Clover hay 1st harvest 95%, 83% 1996, 83% avg. Corn cultivated 1st time 95%, 90% 1996, 83% avg.; tasseled 2%, 2% 1996, 13% avg. Tallest corn 66 in.; average height 54 in. Oats turning color 70%, 49% 1996, 61% avg. Soybean acreage blooming 33%, 18% 1996, 30% avg. Winter wheat harvested 12%, 37% 1996, 28% avg. Crop conditions declined from last week. Corn 1% very poor, 2% poor, 18% fair, 58% good, 21% excellent. Soybean 1% very poor, 4% poor, 24% fair, 57% good, 14% excellent. Hay 3% very poor, 13% poor, 32% fair, 42% good, 10% excellent. Oats 3% poor, 25% fair, 55% good, 17% excellent. Winter wheat 4% very poor, 5% poor, 21% fair, 59% good, 11% excellent. Livestock are reported in good condition, some pinkeye reported in southwest cattle. CRP grazing has been allowed in northern counties. Pasture feed 2% very poor, 14% poor, 36% fair, 41% good, 7% excellent.

KANSAS: Days suitable for fieldwork 5.1. Topsoil 4% very short, 19% short, 64% adequate, 13% surplus. Subsoil 4% very short, 15% short, 75% adequate, 6% surplus. Harvest near complete due to drier conditions. Corn doughed 24%, 4% 1996, 4% avg. Soybeans setting pods 13%, 2% 1996, 2% avg. Sunflowers 1% poor, 14% fair, 76% good, 9% excellent; planted 96%; emerged 95%; begin to petal 21%. Second cut alfalfa 86%, 80% 1996, 72% avg. Pasture feed 1% very poor, 6% poor, 19% fair, 61% good, 13% excellent. Stock water supplies 1% very short, 7% short, 88% adequate, 4% surplus. Activities: Harvesting wheat, working wheat stubble, cutting hay.

KENTUCKY: Days suitable for fieldwork 5.5. Dry weather continued allowing fieldwork to catch up. However, rain is needed in most areas of the State to aid growth. Topsoil 3% very short, 26% short, 65% adequate, 6% surplus. Subsoil 2% very short, 13% short, 76% adequate, 9% surplus. Soybeans total planted 95%, blooming 8%, 1% very poor, 10% poor, 36% fair, 48% good, 5% excellent. Corn silking 20%, with 1% very poor, 8% poor, 34% fair, 47% good, 10% excellent. Tobacco 7% very poor, 23% poor, 38% fair, 29% good, 3% excellent. Tobacco height under 12 in. 57%, 12-24 in. 29%, over 24 in. 14%. Winter wheat harvested 88%. Pasture feed 1% very poor, 5% poor, 35% fair, 51% good, 8% excellent.

LOUISIANA: Days suitable for fieldwork 4.0. Soil moisture 11% short, 57% adequate, 32% surplus. Corn 1% poor, 19% fair, 64% good, 16% excellent; 99% silked, 100% 1996, 99% avg.; 85% dough, 92% 1996, 86% avg.; 11% mature, 20% 1996, 18% avg.; 0% harvested 1% 1996, 0% avg. Corn crop was speeding toward maturity. Cotton developed more rapidly due to timely rains, hot weather. Hay 97% 1st cutting, 96% 1996, 96% avg.; 26% 2nd cutting, 18% 1996, 12% avg. Hay harvest was hindered by rain, quality was down. Peaches 88% harvested, 60% 1996, 67% avg. Rice 1% ripe, 3% 1996, 4% avg.; 0% harvested 0% 1996, 1% avg. Sheath blight and blast were actively treated in all southern parishes. Sorghum 2% turning color, 14% 1996, 7% avg. Soybeans 100% planted, 99% 1996, 99% avg.; 97% emerged, 98% 1996, 97% avg.; 16% setting pods, 27% 1996, 14% avg. Fields in the southwestern, central parishes were showing ill effects of too much rain. Sugarcane 3% poor, 21% fair, 54% good, 22% excellent. Sweet potatoes 99% planted, 97% 1996, 95% avg. Livestock 4% poor, 26% fair, 58%

good, 12% excellent. Vegetables 1% very poor, 13% poor, 35% fair, 42% good, 9% excellent.

MARYLAND: Days suitable for fieldwork 6.2. Topsoil 32% very short, 34% short, 34% adequate. Subsoil 21% very short, 40% short, 39% adequate. Winter wheat 80% harvested, 80% 1996, 77% avg. Rye 74% harvested, 70% 1996, 63% avg. Barley 99% harvested, 99% 1996, 97% avg. Soybeans 6% very poor, 21% poor, 31% fair, 40% good, 2% excellent; 87% planted, 88% 1996, 89% avg. Sorghum 2% very poor, 6% poor, 11% fair, 77% good, 4% excellent. Cucumbers 32% harvested, 30% 1996, 30% avg. Potatoes 10% harvested, 14% 1996, 19% avg. Snap beans 25% harvested, 34% 1996, 32% avg. Tobacco 13% fair, 77% good, 10% excellent. Apples 1% very poor, 2% poor, 35% fair, 49% good, 13% excellent. Peaches 38% very poor, 2% poor, 21% fair, 38% good, 1% excellent. Hay supplies 8% very short, 14% short, 76% adequate, 2% surplus. Alfalfa hay 76% 2nd cutting, 59% 1996, 69% avg.; 5% 3rd cutting, 14% 1996, 7% avg. Clover, other hays 42% 2nd cutting, 32% 1996, 37% avg. Field corn 5% silked, 24% 1996, 21% avg. Activities: Dry conditions reported throughout the State, leaf hoppers in alfalfa hay.

MICHIGAN: Days suitable for fieldwork 6.0. Though most of the state received some rain during the week, it was not enough to replenish many field crops. Topsoil 8% very short, 24% short, 63% adequate, 5% surplus. Subsoil 7% very short, 25% short, 63% adequate, 5% surplus. Corn height 35 in., 31 in. 1996. All hay 1st cutting harvested 97% 1997, 94% 1996, 94% avg. All hay, 2nd cutting harvested 16% 1997, other data unavailable. All hay crop 2% very poor, 9% poor, 46% fair, 35% good, 8% excellent. Dry beans blooming 5% 1997, other data unavailable. Oats turning yellow 20% 1997, other data unavailable. Pasture feed 5% very poor, 21% poor, 45% fair, 24% good, 5% excellent. Strawberries harvested 87%, 97% 1996, 93% avg.

MINNESOTA: Days suitable for fieldwork 3.9. Topsoil 1% very short, 7% short, 70% adequate, 22% surplus. Corn 95% cultivated, 95% 1996, 86% avg.; 43 in. height, 43 in. 1996, 44 in. avg.; 1% tasseled, 3% 1996, 8% avg. Soybeans 76% cultivated, 81% 1996, 75% avg.; 13 in. height, 13 in. 1996, 14 in. avg.; 10% blooming, 15% 1996, 24% avg. Spring wheat 77% headed, 67% 1996, 86% avg.; 2% turning ripe, 5% 1996, 11% avg. Oats 88% headed, 94% 1996, 93% avg.; 12% turning ripe, 14% 1996, 28% avg. Barley 74% headed, 65% 1996, 85% avg.; 2% turning ripe, 6% 1996, 14% avg. Pasture feed 2% very poor, 16% poor, 39% fair, 39% good, 4% excellent. Spring wheat 3% very poor, 34% poor, 18% fair, 38% good, 7% excellent. Barley 1% very poor, 37% poor, 18% fair, 33% good, 11% excellent. Corn 2% very poor, 5% poor, 24% fair, 54% good, 15% excellent. Oats 2% very poor, 13% poor, 36% fair, 37% good, 12% excellent. Sugar beets 1% very poor, 36% poor, 18% fair, 38% good, 7% excellent. Soybeans 3% very poor, 14% poor, 32% fair, 43% good, 8% excellent.

MISSISSIPPI: Days suitable for fieldwork 3.2. Soil moisture 4% short, 55% adequate, 41% surplus. Corn 75% silked, 94% 1996, 90% avg.; 50% dough, 67% 1996, 56% avg.; 18% dent, 31% 1996, 19% avg.; 1% very poor, 7% poor, 21% fair, 62% good, 9% excellent. Soybeans 95% planted, 100% 1996, 98% avg.; 90% emerged, 100% 1996, 95% avg.; 39% blooming, 68% 1996, 35% avg.; 5% poor, 22% fair, 60% good, 13% excellent. Wheat 100% mature, 100% 1996, 100% avg.; 97% harvested, 100% 1996, 98% avg. Peaches 50% harvested, 77% 1996, 66% avg.; 1% poor, 16% fair, 58% good, 25% excellent. Peanuts 21% fair, 61% good, 18% excellent. Sweet potatoes 93% planted, 95% 1996, 98% avg.; 2% fair, 98% good. Hay 100% harvested (cool season), 100% 1996; 60% harvested (warm season), 63% 1996, 64% avg.; 2% very poor, 9% poor, 35% fair, 43% good, 11% excellent. Watermelons 100% planted, 100% 1996, 100% avg.; 3% very poor, 11% poor, 33% fair, 44% good, 9% excellent. Blueberries 6% poor, 17% fair, 59% good, 18% excellent. Cattle 1% very poor, 1% poor, 19% fair, 62% good, 17% excellent. Pasture feed 1% very poor, 4% poor, 19% fair, 60% good, 16% excellent. Activities: Planting soybeans, harvesting wheat. Some cotton, corn fields were plowed up, replanted to soybeans.

MISSOURI: Days suitable for fieldwork 5.7. Topsoil 4% very short, 26% short, 64% adequate, 6% surplus. Moisture rating of 20% surplus reported in the southwestern district, while the south-central reports 20% very short. Double-crop soybean planting is most advanced in the southern third of the State, with the Bootheel leading at 95%. Wheat harvest is complete in southern third of the State, least advanced northeast at 57%, followed by 80% in the northwestern, east central districts. Oats harvested 35%, 35% 1996, 35% avg. Second crop alfalfa 62%, 61% 1996, 56% avg. Other hay 80% cut, 80% 1996, 78% avg. Pasture feed 1% very poor, 9% poor, 33% fair, 51% good, 6% excellent.

MONTANA: Days suitable for fieldwork 5.6. Topsoil 1% very short, 18% short, 76% adequate, 5% surplus. Subsoil moisture 1% very short, 21% short, 72% adequate, 6% surplus. Most areas of the state received some rain last week. Small grain crop continues to look good in most areas. There were comments of rain on newly cut hay, concerns about the quality of the hay. Winter wheat 97% headed, 100% 1996, 99% avg.; 61% turning, 34% 1996, 43% avg.; 1% ripe, 0% 1996, 0% avg.; 94% boot, 94% 1996, 97% avg.; 73% headed, 61% 1996, 71% avg.; 6% turning, 4% 1996, 5% avg.; 3% very poor, 7% poor, 29% fair, 54% good, 7% excellent. Alfalfa hay 1st cutting 71% complete, 77% 1996, 67% avg.; other hay 1st cutting 54% complete, 54% 1996, 51% avg.

NEBRASKA: Days suitable for fieldwork 5.7. Subsoil 2% very short, 24% short, 73% adequate, 1% surplus. Topsoil 6% very short, 32% short, 59% adequate, 3% surplus. Grasshopper activity was noted in many areas. Winter wheat 2% very poor, 10% poor, 39% fair, 46% good, 3% excellent; 55% ripe, 47% 1996, 65% avg.; 26% harvested, 24% 1996, 32% avg. Corn 2% poor, 21% fair, 60% good, 17% excellent; crop development about 10 days behind normal; some producers treated fields for corn borer. Soybeans 1% very poor, 2% poor, 19% fair, 65% good, 13% excellent. 18% blooming, 9% 1996, 18% avg. Sorghum 6% poor, 31% fair, 56% good, 7% excellent. Dry bean 3% poor, 35% fair, 56% good, 6% excellent; 28% blooming, 12% 1996. Alfalfa 3% very poor, 14% poor, 35% fair, 38% good, 10% excellent; 23% 2nd cutting, 42% 1996, 37% avg. Potato leaf hopper a concern in spring seeded alfalfa. Wild hay 2% very poor, 9% poor, 31% fair, 52% good, 6% excellent. Pasture feed, range 3% very poor, 13% poor, 31% fair, 52% good, 1% excellent. Other activities: Cultivating soybeans, spraying herbicides, irrigating crops, routine chores.

NEVADA: Temperatures averaged 3 to 7 degrees below normal Northeast, nearer normal elsewhere. Most areas received no precipitation, but Elko recorded 0.32 inch and Ely 0.12 inch. Irrigation water remained adequate statewide. Haying was very active. Alfalfa first cutting was nearly completed. Second cutting of alfalfa was gaining momentum in Smith and Mason valleys and was half complete in Lincoln County. Some spraying for aphid control necessary. Other hay harvest was underway Northwest, Northeast. Heading of wheat, barley and oats was well along, and much had turned color. Grain condition rated fair to mostly good. Corn and sudan growth condition good. Garlic harvest underway Douglas and Lyon counties. Onions in good to excellent condition. Potatoes good condition. Main activities: Alfalfa hay harvest, irrigating, spraying.

NEW ENGLAND: Days suitable for fieldwork 5.8. Topsoil 3% very short, 22% short, 73% adequate, 2% surplus. Subsoil 1% very short, 13% short, 84% adequate, 2% surplus. Pasture feed 4% poor, 24% fair, 62% good, 10% excellent. Maine potatoes good. Massachusetts potatoes: good. Rhode Island potatoes good. Oats in Maine good. Barley in Maine good. Field corn good to fair. Sweet corn 99% emerged; good to fair. Shade tobacco good. Broadleaf tobacco good to fair. First cut hay 85% harvested, 75% 1996, 85% avg.; good to fair. Second cut hay 20% harvested, 15% 1996, 15% avg.; good. Apples fruit set average to above average; fruit size average to above average; good to excellent. Peaches fruit set average to below average; fruit size average to below average; good to fair. Pears fruit set average; fruit size average; good. Strawberries 85%

harvested; fruit set average; fruit size average; good to excellent. Cranberries petal fall to full bloom; good to excellent. Highbush blueberries fruit set average; fruit size average; good. Wild blueberries fruit set above average; fruit size avg; condition good to excellent. Needed thundershowers blessed most areas of New England providing sufficient moisture for good crop growth, good conditions. However, the coastal regions of RI and MA were missed by the storms, experienced damaging dry conditions. Major farm activities: harvesting strawberries, peas, lettuce, spinach, blueberries, shade tobacco; mowing; cutting hay; side dressing corn; spreading manure on cut fields; spraying for weed, insect control; irrigating where available.

NEW JERSEY: Days suitable for fieldwork 7. Topsoil very short to short. Farmers are irrigating extensively, harvesting crops. Harvesting of summer items is on the rise with the harvesting of spring items diminishing. Increasing harvest of cucumbers, Italian eggplant, green beans, peppers, squash, tomatoes, pickles, cabbage, squash, sweet corn, sugar baby watermelon. Harvesting of leafy greens, lettuce is decreasing; nearly complete. Cutting; baling of hay continues. Combining of wheat, barley. Pastures continue to suffer from the lack of rain. The blueberry harvest has reached it's peak. Early varieties of peaches being harvested. Apples are sizing well. Harvesting of strawberries is complete.

NEW MEXICO: Days suitable for fieldwork 6.7. Topsoil 4% very short, 34% short, 61% adequate, 1% surplus. Hay harvest continued with the 2nd cutting of alfalfa 87% completed, 3rd cutting 30% completed. Alfalfa 5% poor, 13% fair, 71% good, 11% excellent. Wheat harvest at 83% complete continued slightly behind schedule, 92% 1996, 92% avg.; 1% poor, 9% fair, 86% good, 4% excellent. Cotton improving as warm, dry weather continues throughout the growing area. Cotton 5% poor, 32% fair, 57% good, 6% excellent; 80% squaring, 90% 1996, 77% avg.; 27% setting bolls, 44% 1996, 27% avg. As the year progresses the outlook for the sorghum crop remains optimistic. Sorghum 2% poor, 21% fair, 77% good. Onion harvest reached 64% complete, 65% 1996; 9% fair, 64% good, 27% excellent. Chile pod set was rated 87% average, 8% poor, 18% fair, 67% good, 7% excellent. Weather was excellent for development of the corn crop. Corn condition 5% fair, 86% good, 9% excellent. Cattle, sheep continued to be in mostly good condition. Range, pasture feed conditions declined slightly to 5% poor, 33% fair, 57% good, 5% excellent.

NEW YORK: Days suitable for fieldwork: 5.5. Soil moisture 14% very short, 23% short, 55% adequate, 8% surplus. Pasture feed 2% very poor, 2% poor, 75% fair, 17% good, 4% excellent. Corn 15% poor, 23% fair, 54% good, 8% excellent. Hay 27% fair, 73% good. First cuttings finished; 2nd cutting alfalfa 15% complete, 3% 1996, 8% avg. Moisture needed for regrowth. Wheat good. Oats turning. Potatoes flowering. Hudson Valley sweet cherry harvest winding down. Apple good. Eastern areas need rain for sizing. Peach growers expecting excellent crop except along Lake Ontario where temperatures were cold during bloom. Early sweet corn tasseling. Vegetable crops in good condition. Irrigation needed.

NORTH CAROLINA: Days suitable for fieldwork 6.2. Farmers were able to get in the fields most of the week. Unfortunately, the lack of rain has several areas of the State drier than farmers would like. Some areas that did receive rain got unwelcome hailstorms also; damage affected localized fields only. Soil moisture 18% very short, 30% short, 50% adequate, 2% surplus. Activities for the week included: Planting sorghum, soybeans, sweet potatoes; fertilizer, herbicide applications on corn; suckering, topping tobacco; harvesting flue-cured tobacco, Irish potatoes, peaches; cutting hay; maintaining pastures; tending livestock; repairing equipment; general farm maintenance.

NORTH DAKOTA: Days suitable for fieldwork 4. Excessive rains, particularly in the east, have caused problems with haying and weed control, and have raised concerns about crop diseases. Topsoil 1% very short, 19% short, 63% adequate, 17% surplus. Subsoil 2% very

short, 18% short, 64% adequate, 16% surplus. Small grain development remained ahead of 1996, slightly behind average, except spring wheat, which pulled ahead of average. Late season crops continue to grow at a pace slightly ahead of 1996 and average, except Sugar beets, potatoes which were equal to average. Durum wheat 91% jointing and beyond, 75% boot and beyond, 51% heading and beyond, 5% milk and beyond; 90%, 65%, 38%, 8% 1996; 94%, 74%, 46%, 11% avg. Late season crops: canola 96% rosette and beyond, 63% blooming and beyond; 99%, 73% 1996; dry edible beans 18% blooming and beyond, 10% 1996, 16% avg.; flaxseed 41% blooming and beyond; 26% 1996; 23% avg.; potatoes 39% blooming and beyond; 36% 1996; 48% avg.; soybeans 16% blooming and beyond; 6% 1996; 13% avg. All small grains, corn, flaxseed conditions improved slightly, while dry edible beans, potatoes, soybeans, sugar beets declined. Emerged crop condition: durum 10% very poor, 28% poor, 34% fair, 28% good; canola 4% very poor, 17% poor, 32% fair, 36% good, 11% excellent; corn 1% very poor, 5% poor, 17% fair, 61% good, 16% excellent; dry edible beans 6% very poor, 16% poor, 30% fair, 45% good, 3% excellent; flaxseed 3% very poor, 16% poor, 39% fair, 40% good, 2% excellent; potatoes 17% very poor, 15% poor, 22% fair, 44% good, 2% excellent; soybeans 1% very poor, 12% poor, 37% fair, 40% good, 10% excellent; sugar beets 5% very poor, 10% poor, 18% fair, 62% good, 5% excellent; sunflower 6% poor, 23% fair, 61% good, 10% excellent. Pasture conditions showed improvement with recent rain showers: 6% very poor, 28% poor, 41% fair, 24% good, 1% excellent.

OHIO: Days suitable for fieldwork 5.2 days. Topsoil 1% very short, 11% short, 73% adequate, 15% surplus. Average corn development stage at 7 to 8 leaves. Corn silked one week behind the avg. Soybeans blooming over 2 days ahead of the avg.; 1% setting pods, 0% 1996, 1% avg. Oats headed virtually complete. Oats turning rip 5%; 1% harvested, 0% 1996, 3% avg. Winter wheat 100% turning color, 100% 1996, 99% avg.; winter wheat 34% ripe. Winter wheat harvested slightly more than 9 days behind avg. Alfalfa hay 99% 1st cutting, 100% 1996, 100% avg.; alfalfa hay 22% 2nd cutting, 18% 1996, 37% avg. Other hay 96% 1st cutting, 92% 1996, 98% avg.; other hay 8% 2nd cutting, 12% 1996, 20% avg. Strawberries 95% harvested, 98% 1996, 99% avg. Activities throughout the State included mowing hay, ditches, pastures, weeds; baling hay, straw; scouting fields; spraying herbicides, pesticides; cultivating, side dressing; fence maintenance; repairing, preparing machinery for harvest. In the Northeastern district, garden vegetables being harvested. Late setting of tobacco is still going on in Adams, Gallia counties. In the Southern districts, growers getting ready to top tobacco plants. In the Southeastern district, harvesting tomatoes, sweet corn is underway. Some reported weed pressures: ragweed, Canadian thistles, crabgrass, hemp dogbane, foxtail, lambsquarter. Throughout the whole State, potato leafhopper in alfalfa was again a common problem; also reported in soybeans, vegetables. Another alfalfa pest, meadow spittlebug. European corn borer eggs were found in the Northeastern district. Other insects: striped cucumber beetle, Japanese beetle in soybeans, low numbers of corn earworm. Reported diseases: phytophthora in soybeans, early blight on tomatoes. Local produce is starting to appear at farmer's markets. Winter wheat 1% very poor, 6% poor, 29% fair, 51% good, 13% excellent. Hay 1% very poor, 6% poor, 32% fair, 52% good, 9% excellent. Livestock 1% very poor, 3% poor, 23% fair, 61% good, 12% excellent

OKLAHOMA: Beneficial rain fell southwest, northern Oklahoma. Days suitable for fieldwork 5.5. Topsoil 4% very short, 23% short, 70% adequate, 3% surplus. Subsoil 1% very short, 12% short, 84% adequate, 3% surplus. Wheat 51% plowed, 81% 1996, 67% avg. Oats 88% harvested, 100% 1996, 90% avg.; 42% plowed, 74% 1996, 59% avg. Corn 23% tasseling, 84% 1996, 71% avg.; 12% milk-to-soft, 24% 1996, 18% avg. Sorghum 78% up-to-stand, 98% 1996, 91% avg. Soybeans 91% up-to-stand, 93% 1996, 77% avg.; 25% flowering, 50% 1996, 23% avg.; 9% setting pods, 17% 1996, 6% avg. Peanuts 49% setting pods, 41% 1996, 12% avg. Alfalfa hay 90% 2nd cutting, 92% 1996, 86% avg.; 19% 3rd cutting, 23% 1996, 22% avg.

All other hay 78% 1st cutting, 72% 1996, 89% avg.; 6% 2nd cutting, 24% 1996, 28% avg. Watermelons 7% harvested, 17% 1996, n/a avg. Livestock 1% poor, 17% fair, 73% good, 9% excellent. Fed cattle prices up.

OREGON: Days suitable for fieldwork 6.1. Topsoil 1% very short, 34% short, 64% adequate, 1% surplus. Subsoil 2% very short, 20% short, 78% adequate. Barley harvested 3%, 4% 1996, 7% avg. Winter wheat harvested 3%, 5% 1996, 4% avg. Activities: Eastside haying in full swing. Some first cuttings rain damaged, slow drying due to cooler weather. Second cuttings completed in some counties. Higher elevations putting up hay. Wheat crop looks good, headed not turned. Sugar beets reported growing after large number of fields replanted. Nurseries, greenhouses doing summer maintenance work. Shaping, pruning of tree stock underway at nurseries along with rotating potted plants. Christmas tree work gone well, recent rains good for trees planted in 1997. Easter lily growers sampling for nutrients, monitoring for diseases. Willamette Valley: vegetables thriving on ideal weather conditions, cauliflower, broccoli, green bean harvest started, sweet corn showing good growth. Marion variety of black berry harvest at peak, Evergreen blackberries ripening. Raspberries, blackberries, blackcap, blueberries being harvested, sweet cherry harvest completed. Hazelnuts look good, worm sprays being applied. Everbearing strawberries for fresh markets continued to be harvested. Eastern regions: potatoes blooming, tubers the size of golf balls. Northeast area reported first watermelons of season harvested. Rogue River Valley: grape crop looks good, mold from rain, can be taken care of. Peaches advertised for sale. North Coast: wild blackberries blooming. South Coast: cranberry fruit sizing. Livestock condition reported as good to excellent throughout the State. Rangeland in the east continued to look good; at lower elevations grass maturing, higher elevations good forage. In the southwest, cattle on irrigated pastures or higher ranges. Pasture irrigation begun along the southern coast. In the Willamette Valley, weather conditions excellent for animals, pastures.

PENNSYLVANIA: Good week for fieldwork. Days suitable for fieldwork 5.8. Soil moisture 20% very short, 55% short, 25% adequate. Avg. corn height 38 in., 44 in. 1996, 40 in. avg. Corn 5% very poor, 15% poor, 40% fair, 32% good, 8% excellent. Soybean 5% very poor, 9% poor, 27% fair, 51% good, 8% excellent. Barley 93% ripe, 97% 1996, 82% avg.; 82% harvested, 83% in 1996, 67% avg. Winter wheat 95% turning yellow, 97% 1996, 91% avg., 60% ripe, 76% 1996, 63% avg., 20% harvested, 48% 1996, 28% avg.; 3% poor, 25% fair, 63% good, 9% excellent. Oats 94% heading or headed, 94% 1996, 53% avg.; 50% turning yellow, 62% 1996, 47% avg.; 10% ripe, 25% 1996, 11% avg.; 4% poor, 34% fair, 53% good, 9% excellent. Alfalfa 2nd cutting 50% complete, 47% 1996, 42% avg. Timothy clover 1st cutting 86% complete, 84% 1996, 86% avg. Timothy clover 2nd cutting 7% complete, 7% 1996, 5% avg. Quality of hay made 4% poor, 22% fair, 59% good, 15% excellent. Peach 5% very poor, 35% poor, 40% fair, 20% good. Apple 15% poor, 40% fair, 45% good. Activities: Harvesting small grains; making hay, haylage; spraying; fixing fences; hauling manure; caring for livestock.

SOUTH CAROLINA: Days suitable for fieldwork 6.2. Soil moisture 2% very short, 29% short, 66% adequate, 3% surplus. Barley 99% harvested, 100% 1996, 95% avg.; 23% fair, 74% good, 3% excellent. Cantaloups 88% harvested, 89% 1996, 72% avg.; 25% poor, 40% fair, 31% good, 4% excellent. Corn 98% silked, 97% 1996, 96% avg.; 68% doughed, 60% 1996, 66% avg.; 15% matured, 18% 1996, 19% avg.; 2% poor, 30% fair, 58% good, 10% excellent. Cucumbers 90% harvested, 91% 1996, 81% avg.; 43% fair, 57% good. Oats 99% harvested, 100% 1996, 97% avg.; 21% fair, 72% good, 7% excellent. Peaches 53% harvested, 58% 1996, 46% avg.; 7% poor, 46% fair, 41% good, 6% excellent. Snap beans 73% harvested, 79% 1996, 62% avg.; 19% fair, 81% good. Sorghum 94% planted, 97% 1996, 88% avg.; 9% poor, 18% fair, 68% good, 5% excellent. Tobacco 91% topped, 88% 1996, 85% avg.; 12% harvested, 16% 1996, 16% avg.; 2% poor, 21% fair, 68% good, 9% excellent. Tomatoes 64% harvested, 91% 1996, 91% avg.; 22% fair, 78% good. Watermelons 79% harvested, 77% 1996, 71% avg.; 6% poor,

60% fair, 33% good, 1% excellent. Winter wheat 100% ripe, 100% 1996, 100% avg.; 99% harvested, 100% 1996, 100% avg.; 10% fair, 70% good, 20% excellent.

SOUTH DAKOTA: Days suitable for fieldwork 5.8. Topsoil 6% very short, 27% short, 62% adequate, 5% surplus. Subsoil 10% short, 79% adequate, 11% surplus. Warm weather enabled crops to make good progress during the week. Farmers were busy with weed control, haying, cultivating, spraying. Winter wheat 99% headed, 74% turning color, 6% ripe. Spring wheat 97% boot, 85% headed, 18% turning color. Winter rye 99% headed, 39% turning color, 12% ripe. Winter rye 1% very poor, 14% poor, 28% fair, 50% good, 7% excellent. Alfalfa hay 2% very poor, 7% poor, 30% fair, 51% good, 10% excellent. Flax 2% very poor, 3% poor, 32% fair, 51% good, 12% excellent. Oats 19% turning color. Barley 31% turning color. Sorghum 8% poor, 21% fair, 61% good, 10% excellent. Sunflowers 1% very poor, 7% poor, 20% fair, 57% good, 15% excellent; 1% blooming. Flax 42% blooming. Soybeans 21% blooming. Alfalfa hay cut once 96%, cut twice 9%. Other hay harvested 56%. Livestock 1% poor, 9% fair, 71% good, 19% excellent. Stockwater supplies 3% short, 89% adequate, 8% surplus.

TENNESSEE: Days suitable for fieldwork 6.0. Topsoil 78% adequate, 8% surplus, 14% short. Subsoil 87% adequate, 9% surplus, 4% short. Corn 2% very poor, 5% poor, 24% fair, 48% good, 21% excellent; 75% tasseled, 88% 1996, 77% avg.; dough 2%, 1996 15%, 15% avg. Tobacco 2% very poor, 18% poor, 38% fair, 37% good, 5% excellent; 98% transplanted, 100% 1996, 100% avg. Wheat 98% harvested, 100% 1996, 99% avg. Sorghum 5% poor, 30% fair, 56% good, 9% excellent; 12% headed, 17% 1996, 19% avg. Pasture feed 2% poor, 16% fair, 60% good, 22% excellent. Alfalfa hay 2% poor, 24% fair, 56% good, 18% excellent; 59% 2nd cutting, 77% 1996, 87% avg. Other hay 1% very poor, 8% poor, 24% fair, 53% good, 14% excellent. Last week's favorable conditions allowed producers to nearly finish critical field activities. Tobacco transplanting, wheat harvest, soybean planting were 90% completed last week. Alfalfa hay 2nd cutting continued in full swing. Crop progress, conditions have improved during the past three weeks, due to warm, sunny days. As a result, crop stages are moving closer or even with the five-year average pace; a great improvement when compared with the past three weeks.

TEXAS: Most areas Central, South enjoyed week open, hot conditions while parts Plains, East received rain, heavy some places early week followed by hot, summer like conditions. Crop progress good all areas state; however, fields many areas remained behind normal. Even after adequate rains during spring, many areas could now use good rain for good crop progress. Irrigation operations resumed late week in Plains. Haying activity slowed wetter areas. Growth on native grasses slowed last week as hot temperatures set in. Livestock conditions remained good all areas. **Crops:** Small grains: Harvest in Plains reached full speed by mid-week. Dryland yields continued better than expected. Harvest nearing completion north central areas. Corn: Excellent progress continued in Plains. Irrigation operations resumed mid week Plains with fields in silk stage. Fields maturing rapidly under hot temperatures central, southern areas; 45% doughing, 56% 1996, 54% avg. 24% denting, 37% 1996, 38% avg. 3% mature, 5% 1996, 11% avg. Cotton: Rain throughout many areas Plains beneficial, now additional heat units needed. Bolls beginning to set early planted fields. Bolls setting in Blackland under improving conditions. Bolls opening in Coastal Bend, along Upper Coast; 1% open bolls, 6% 1996, 5% avg. Grain sorghum: Planting virtually completed in Plains. Progress good on early planted fields. Fields turning color rapidly under hot temperatures central, southern areas. Harvest increased Coastal Bend, Rio Grande Valley. Fields also maturing rapidly along Upper Coast. 43% coloring, 47% 1996, 50% avg. 15% mature, 32% 1996, 31% avg. 2% harvested, 12% 1996, 15% avg. Peanut: Fields Plains, north central areas good progress during week as irrigation got underway many fields. Planting winding down south central where early fields look good. Rice: Flooding late planted fields continued along Upper Coast. Fungicides also applied some fields for sheath

blight. Soybeans: Stands in Plains remained good condition during week. Some weed spraying occurred. Rain needed parts of Blacklands for continued progress. Some producers spraying for insects. Sugar beets: Fields continued make good progress Plains.

Commercial Vegetables: Rio Grande Valley: Land preparations continued with some watermelon harvest activity still ongoing. San Antonio- Winter Garden: Watermelon harvest winding down many fields. High Plains: Onion, potato harvest continued with some delays early week due wet conditions. East: Good quantities, quality continued come off most vegetables during week. Sweet potato progress good for week. Trans-Pecos: Cantaloupe harvest full swing last week. Sizes been good. Peach: Good production continued in Hill Country, many other areas. Pecan: Second spraying for case bearers underway many central, southern groves. Some nut drop occurred due to a heavy set some areas.

Range and Livestock: Haying operations delayed parts east where rain fell. Other areas saw reduced growth native pastures as hot, dryer conditions continued. Livestock conditions remained good across State. Markets also continued steady.

UTAH: Days suitable for fieldwork 6.8. Topsoil 1% very short, 30% short, 64% adequate, 5% surplus. Subsoil 1% very short, 31% short, 64% adequate, 4% surplus. Pasture feed, range 2% very poor, 2% poor, 14% fair, 76% good, 6% excellent. Irrigation water supplies 9% short, 87% adequate, 4% surplus. Stockwater supply 9% short, 91% adequate. Barley heading or better 94%, 100% 1996, 96% avg. Oats heading or better 75%, 74% 1996, 75% avg.; harvest for hay or silage 50%, 34% 1996, 36% avg. Corn height 39 in., 43 in. 1996, 35 in. avg. Winter wheat harvested 1%, 13% 1996, 9% avg. Alfalfa hay 2nd cutting 17%, 33% 1996, 29% avg. Other hay cutting 63%, 51% 1996, 55% avg. Apricots 25%. Sweet cherries picked 94%, 76% 1996. Tart cherries picked 35%, 29% 1996. Major farm, ranch activities: Hay cutting, irrigating, picking fruit, harvesting wheat.

VIRGINIA: Days suitable for fieldwork 6.1. Topsoil 20% very short, 45% short, 35% adequate. Subsoil 15% very short, 45% short, 40% adequate. Corn 7% very poor, 20% poor, 35% fair, 34% good, 4% excellent; 20% silked, 33% 1996, 34% avg. Soybeans 87% planted, 94% 1996, 93% avg.; 2% very poor, 17% poor, 45% fair, 35% good, 1% excellent. Cotton 10% very poor, 20% poor, 45% fair, 25% good. Winter wheat 86% harvested, 87% 1996, 85% avg. Barley 98% harvested, 94% 1996, 97% avg. Apples 5% very poor, 10% poor, 25% fair, 55% good, 5% excellent. Peaches 20% very poor, 35% poor, 25% fair, 20% good. Flue tobacco 5% poor, 35% fair, 50% good, 10% excellent. Burley tobacco 1% very poor, 10% poor, 48% fair, 40% good, 1% excellent. Dark fire cured tobacco 5% poor, 50% fair, 40% good, 5% excellent. Sun cured tobacco 25% poor, 45% fair, 30% good. Peanuts pegged 20%, 53% 1996; 5% poor, 30% fair, 60% good, 5% excellent. Summer potatoes harvested 42%, 37% 1996, 36% avg.; 3% very poor, 30% poor, 30% fair, 37% good. Pasture feed 10% very poor, 25% poor, 45% fair, 20% good. Alfalfa 2% very poor, 15% poor, 46% fair, 35% good, 2% excellent. Other Hay 3% very poor, 30% poor, 50% fair, 16% good, 1% excellent. A frontal system brought relief to the central, some eastern regions of the State bringing some localities up to 2 inches of rain. However, most southeastern localities received only a trace from the system. Soil moisture supplies remain short throughout the State despite the widely scattered showers received in some localities. These dry surface conditions are of special concern to corn, some tobacco producers since they are in critical stages of development. Corn tasseled on short stalks in some fields due to stress. Addition to lack of growth, some corn leaves are curling due to dry conditions. Dry, sunny conditions reduced the risk of the spread of blue mold. A few soybean fields started blooming pre-maturely. Post emergence herbicides are being applied to soybean fields. Beef producers continue to feed hay that is already in short supply. Other activities include vegetable irrigation, harvesting, tobacco topping, baling wheat straw, harvesting hay.

WASHINGTON: Days suitable for fieldwork 5.3. Topsoil 9% short, 80% adequate, 11% surplus. Subsoil 12% short, 87% adequate, 1%

surplus. Winter wheat dryland 5% fair, 71% good, 24% excellent; irrigated 80% good, 20% excellent. Spring wheat, dryland 6% fair, 68% good, 26% excellent. Irrigated 88% good, 12% excellent. Barley dryland, 5% fair, 75% good, 20% excellent. Irrigated 98% good, 2% excellent. Corn 100% good. Grain crops were late, continued to ripen, looked good to excellent. Harvest remained at least seven to ten days away in most areas. Potatoes, 100% good. Potatoes were in bloom. Hay and other roughage supplies, 6% short, 93% adequate, 1% surplus. West of the Cascades, wet weather delayed haying operations, ruined hay quality in some areas. Central areas reported good hay yield, quality despite early season problems, whereas north eastern areas 1st cutting hay was still standing in areas. Range, pasture feed 7% poor, 14% fair, 72% good, 7% excellent. Pasture conditions continued to look good in most areas. Rangeland, in central Washington, was rapidly drying down after a very long productive period. Farmers west of the Cascades reported saturated soils, excessive weed growth. Raspberry harvest continued with some fruit loss due to fungus problems. Cranberry flowering neared completion, with good fruit set. Sweet cherry harvest neared completion, except for the latest areas. Apricot harvest progressed. Green pea, mirt harvest continued.

WEST VIRGINIA: Days suitable for fieldwork 5.2. Topsoil 4% very short, 29% short, 66% adequate, 1% surplus. Corn 9% poor, 57% fair, 33% good, 1% excellent; 5% silking, 6% 1996. Hay 8% poor, 34% fair, 53% good, 5% excellent; 1st. cutting of hay 88%, 85% 1996, 91% avg.; 2nd cutting 6%, 11% 1996, 20% avg. Oats 43% fair, 57% good; 100% headed, 97% 1996; 8% harvested, 27% 1996. Soybeans 1% poor, 30% fair, 69% good; 10% blooming, 7% 1996. Tobacco 5% poor, 50% fair, 45% good. Wheat 7% poor, 49% fair, 44% good; 51% harvested, 25% 1996, 40% avg. Dry, open conditions allowed producers to make good progress harvesting wheat. Apple 60% fair, 33% good, 7% excellent. Peach 16% poor, 84% fair. Cattle 21% fair, 75% good, 4% excellent. Sheep 19% fair, 80% good, 1% excellent. Major farm activities: Making hay, harvesting wheat, oats, marketing livestock, general farm maintenance.

WISCONSIN: Days suitable for fieldwork 5.2. Soil moisture 7% short, 84% adequate, 9% surplus. Temperatures dipped into the 30s in parts of the State; a Burnett county reporter stated that cool weather brought with it scattered frost, heat was turned on most nights. Oatlage was being put up in Clark county, oats, peas were being harvested in Dane county with very heavy yields. Reporters statewide said corn looked great. A Portage county reporter stated that corn was shoulder high already in some fields, Green county reported luscious, green corn. Winter wheat was turning color in Walworth county; harvest has yet to begin. Second crop hay harvest was 14% finished. Farmers across the State were having a hard time drying hay, reported that the second crop looks good with yields normal to above normal. Overall, crop progress was very good. Pasture feed 1% very poor, 3% poor, 20% fair, 64% good, 12% excellent.

WYOMING: Days suitable for fieldwork 6.4. Topsoil 2% very short, 43% short, 54% adequate, 1% surplus. Winter wheat 94% turning color, 100% 1996, 79% avg.; 46% mature, 48% 1996, 31% avg.; 0% harvested, 1% 1996, 4% avg. Barley 80% headed, 91% 1996, 87% avg.; 43% turning color, 22% 1996, 36% avg.; 3% mature, 2% 1996, 5% avg. Oats 79% headed, 85% 1996, 72% avg.; 21% turning color, 23% 1996, 16% avg.; 5% mature, 5% 1996, 3% avg. Spring wheat 94% headed, 71% 1996, 73% avg.; 31% turning color, 26% 1996, 28% avg.; 11% mature, 8% 1996, 3% avg. Corn 0% tasseled, 9% 1996, 7% avg.; average height in inches 35, 31 in. 1996. Dry beans 23% bloom, 12% 1996, 18% avg. Alfalfa 82% 1st cutting complete, 77% 1996, 75% avg.; 0% 2nd cutting complete, 2% 1996, 2% avg. Other hay acreage harvested 40% complete, 41% 1996, 36% avg. Range, pasture feed 1% very poor, 2% poor, 15% fair, 72% good, 10% excellent. Irrigation water supplies 1% very short, 3% short, 82% adequate, 14% surplus. Stock water supplies 6% short, 91% adequate, 3% surplus.

International Weather and Crop Summary

July 6 - 12, 1997

HIGHLIGHTS

FSU-WESTERN: Wet weather in Ukraine and southern Russia hampered winter grain harvesting but continued to provide beneficial moisture for spring-sown crops.

FSU-NEW LANDS: Widespread showers benefited spring grains which were filling in the south and approaching reproduction in the north.

EUROPE: Heavy rain in central and northern areas caused some flooding and crop lodging while drier weather in the west favored winter grain harvesting.

AUSTRALIA: Showers maintained favorable moisture levels for winter grains in the west but remained too light in the southeast for significant improvement.

CANADA: Beneficial showers continued in spring grain and oilseed areas of the eastern Prairies.

SOUTH ASIA: Flooding hit primary rice areas of the east as dryness returned to sections of southern and western India.

SOUTHEAST ASIA: Dryness continued in portions of Thailand, but widespread showers benefited main-season crops in the Philippines.

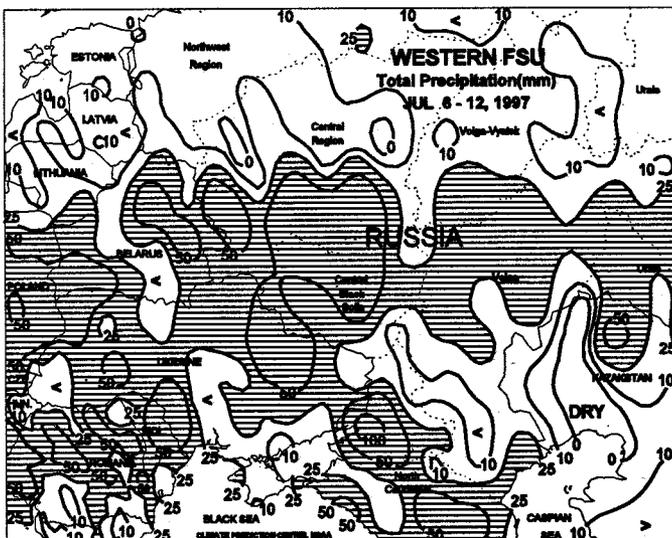
EASTERN ASIA: Mostly dry, warm weather returned to the North China Plain, increasing stress on summer crops.

SOUTH AMERICA: Late-week rain covered central Argentina, especially Cordoba and Santa Fe, increasing topsoil moisture for winter wheat planting.

MEXICO: Seasonable showers continued across the eastern corn belt, but somewhat dry, warm weather reduced soil moisture in the northern and western corn belt.

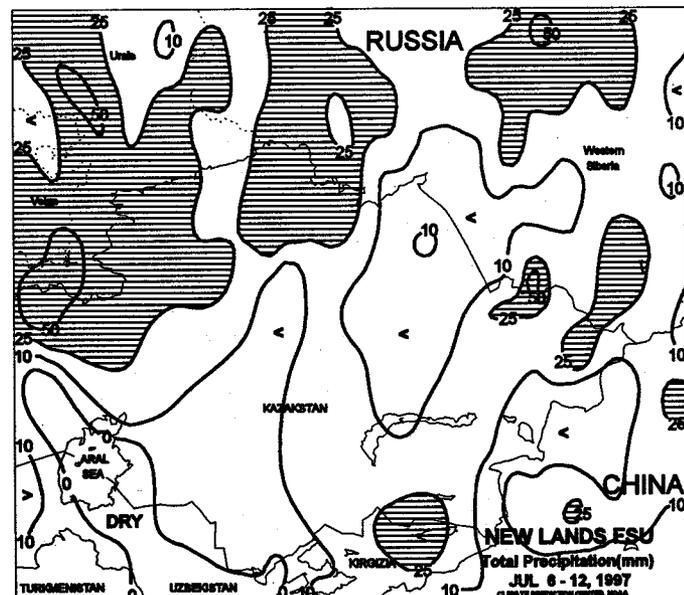
FSU-WESTERN

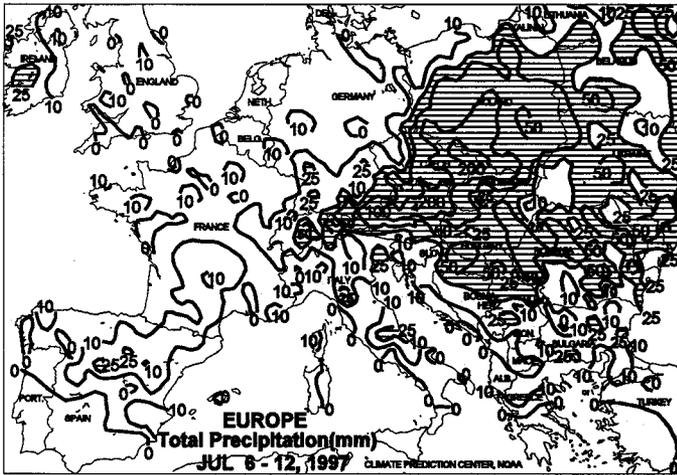
A stormy weather pattern brought widespread rain to most areas during the week. The exception was crop areas in Estonia, Latvia, and the Northwest Region in Russia which received only light, scattered showers (generally less than 10 mm). Rainfall amounts in Ukraine, Belarus, and a large portion of Russia generally ranged from 10 to 50 mm. Greatest amounts of precipitation (more than 50 mm) were scattered throughout Ukraine and central and southern Russia. While the rain slowed winter grain maturation and harvesting in Ukraine and Russia, it maintained abundant moisture for spring-sown crops. Drier weather is needed in these areas to allow harvest activities to progress at a normal pace and to prevent the development of diseases brought on by the persistent wetness.



FSU-NEW LANDS

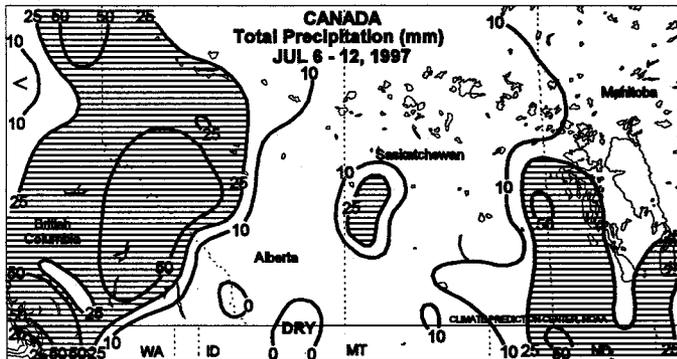
In Russia, widespread showers (10-25 mm with local amounts ranging from 25 to 50 mm) and cool weather prevailed in the Urals and most of Western Siberia, favoring spring grains in the jointing to heading stages of development. Farther east, beneficial rain (10-60 mm) accompanied a cooling trend in spring grain areas in the Altay Kray region, bringing some relief from earlier heat and dryness. Unseasonably cool weather (weekly temperatures averaging 2 to 6 degrees C below normal) prevailed over most spring grain areas in Russia, slowing crop development. In Kazakhstan, widespread showers (10-30 mm, with scattered amounts in excess of 50 mm) benefited winter grains in the reproductive to filling stages of development. Temperatures in Kazakhstan averaged 1 to 3 degrees C below normal in the west and slightly above normal in the east.





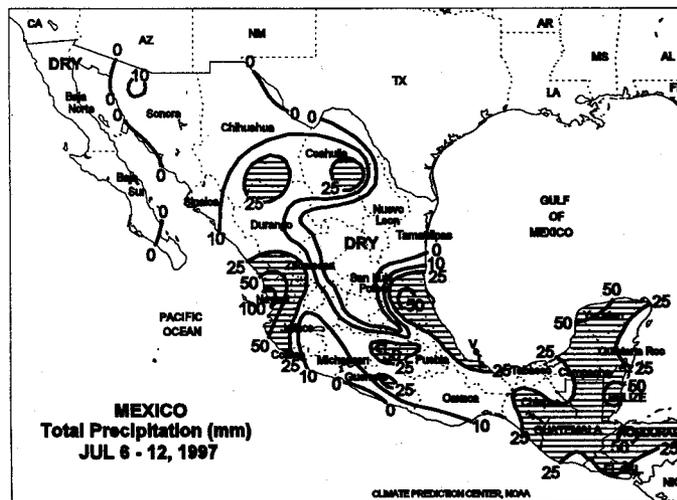
EUROPE

Heavy rain fell in the central and northeastern portions of Europe, causing some flooding and crop lodging. Greatest amount of rain (100-200 mm) fell in northern Austria, the eastern portion of the Czech Republic, Slovakia, and southwestern Poland. Elsewhere in eastern Europe, soaking rains (25-50 mm) fell in remaining areas of Poland, Hungary, and eastern Bosnia. Although the rain hampered winter grain maturation and harvesting, it maintained abundant soil moisture for summer crops. In southeastern Europe, a cooling trend was accompanied by scattered showers (10-25 mm) in southern Romania and Bulgaria, bringing some relief to spring-sown crops stressed by previous heat and dryness. In England, France, the northern half of Germany, and northern Italy, drier weather favored winter grain maturation and harvesting. Weekly temperatures averaged near normal in England, France, and northern Germany, and 1 to 3 degrees C below normal in northern Italy.



CANADA

Moderate to heavy showers (10-25 mm or more, exceeding 50 mm locally) covered Manitoba and sections of central and southeastern Saskatchewan, increasing moisture for vegetative to reproductive grains and oilseeds. The rain was especially welcomed in east-central Saskatchewan, although above-normal temperatures (1-2 degrees C above normal, with highs in the low to mid 30's C) maintained high evaporative losses. Drier weather continued over much of Alberta although persistent showers (25 mm or greater) kept fields unfavorably wet in the Peace River Valley. Farther east, light showers (15 mm or less) accompanied by somewhat mild temperatures (highs approaching the low 30's C) aided crop development in Ontario and Quebec.

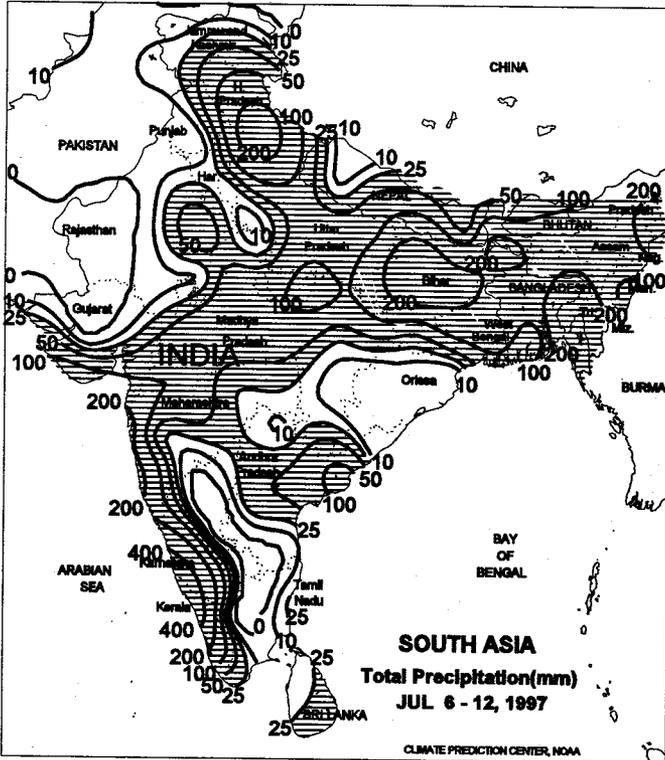


MEXICO

Seasonable showers (15-50 mm) fell across the eastern corn belt, increasing soil moisture for vegetative corn. Drier, warm weather (3-20 mm; temperatures averaged 1-3 degrees C above normal), however, was reported across the western and northern corn belt, reducing moisture for corn development. Hot, dry weather (maximum temperatures ranging from 37-40 degrees C) elevated irrigation demands across northeastern Mexico and stressed rainfed crops. Light to moderate showers (10-40 mm) increased reservoir supplies and favored pastures across north-central Mexico.

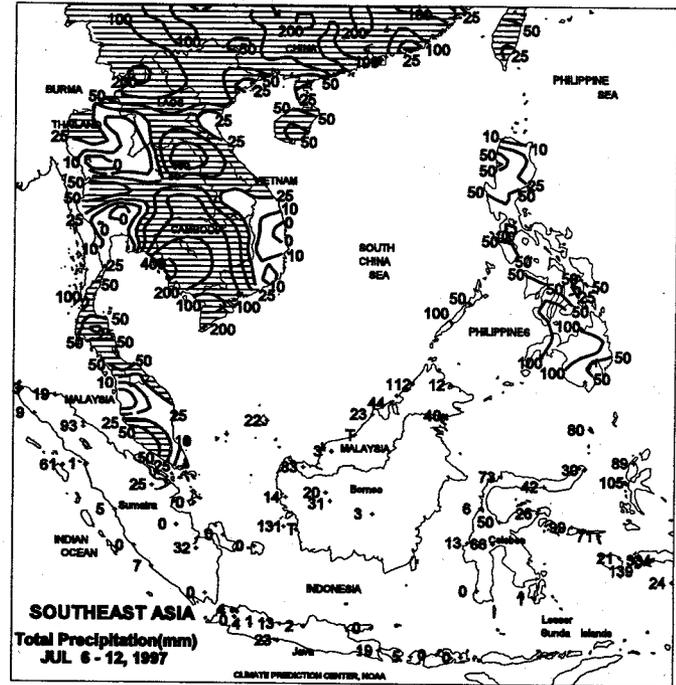
SOUTH ASIA

Very heavy rain (100-300 mm or more) covered a large section of eastern India and Bangladesh, likely causing significant flooding in primary rice areas as far west as Bihar. More moderate showers (28-110 mm) over central India maintained adequate to abundant moisture reserves for coarse grains and oilseeds, including soybeans, and increased moisture for rice across north-central India. Heavy rain (100-200 mm or more) along the southwest coast reached as far north as Gujarat but rainfall was light (10 mm or less) over much of the groundnut basin. Dry pockets also returned to the southern interior although beneficial rain (25-59 mm) continued over important groundnut and cotton areas of Andhra Pradesh. In crop areas of Pakistan and far northwestern India, mostly light showers (2-15 mm) brought some relief from lingering pre-monsoon heat.



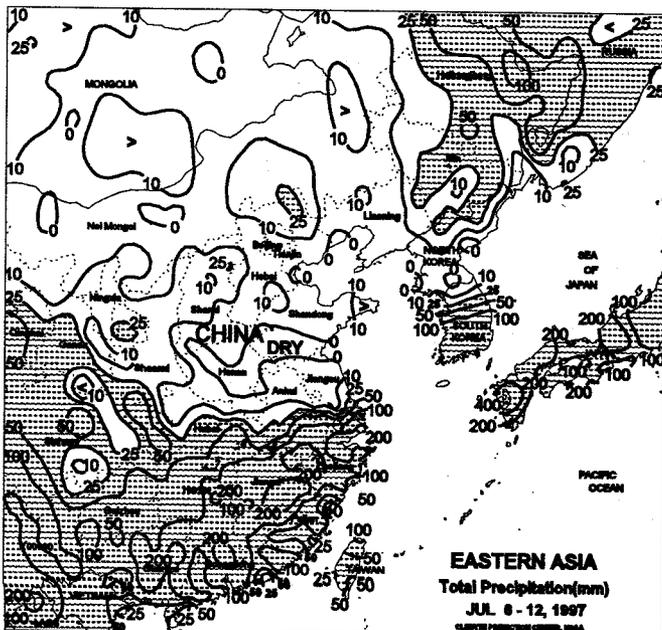
SOUTHEAST ASIA

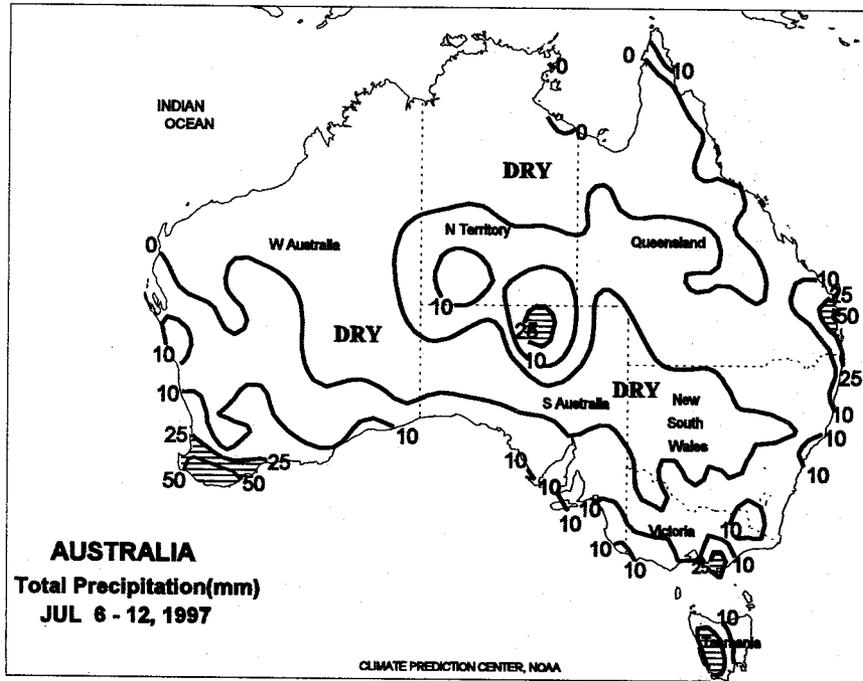
In Thailand, continued below-normal rainfall (less than 15 mm) and warm weather (temperatures 2-3 degrees C above normal) threatened to reduce rainfed corn yield prospects in south-central and northern growing areas. Beneficial rain (20-50 mm) fell in central Thailand for corn, and the eastern rice areas continued to receive favorable showers (30-100 mm). Scattered showers (5-20 mm) fell across Java, but more rain is needed in the west. Widespread showers (30-100 mm) favored rice in Vietnam and across the Philippines.



EASTERN ASIA

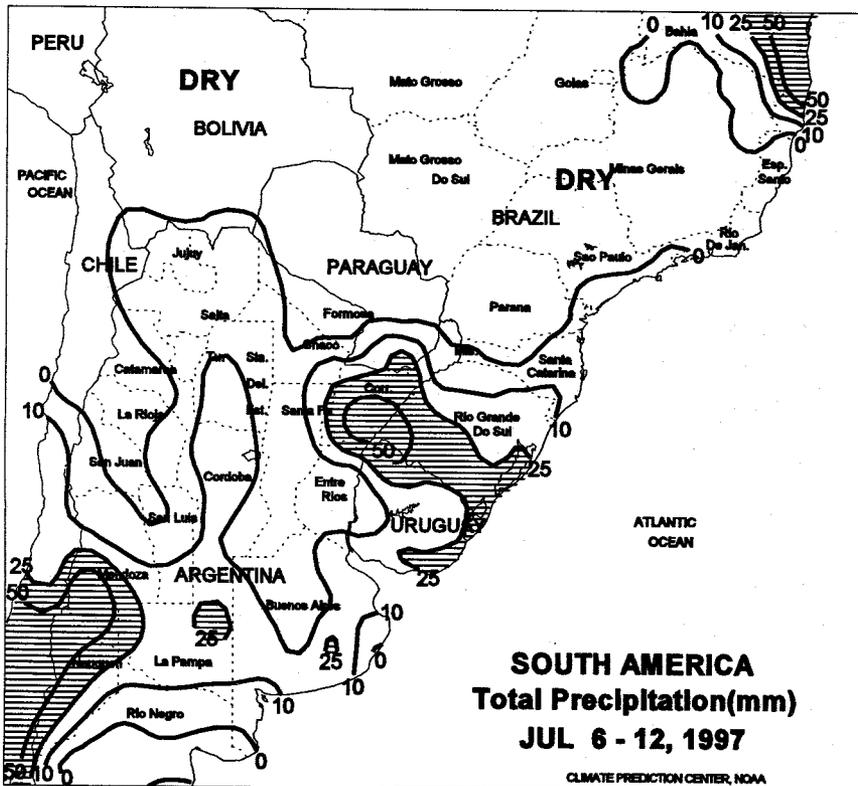
Warm, mostly dry weather (less than 10 mm) returned to the North China Plain, increasing stress on vegetative summer crops. Widespread rain is needed to maintain average yield prospects for summer crops. Temperatures averaged 3 to 4 degrees C above normal, with highs ranging from 37 to 40 degrees C. In Manchuria, mostly dry weather (less than 5 mm) in the south (Liaoning) reduced soil moisture for summer crops, but moderate rain (15-30 mm) fell elsewhere across the region. Temperatures averaged near normal across Manchuria. Widespread showers (30-100 mm) covered central and southern China, maintaining abundant moisture supplies for rice but slowing early double-crop rice harvesting. Excessive showers (200-300 mm) fell in portions of Zhejiang, Jiangxi, and Fujian, causing flooding and possible damage to mature early rice. Temperatures averaged 3 to 6 degrees C below normal across interior southern China, slowing crop development. Drier, warmer weather is needed across southern China. Dry weather stressed summer crops in North Korea, while heavy showers (50-125 mm) fell across South Korea. Excessive rain (200-400 mm) caused flooding and possible rice damage across southern Japan (southern Honshu, Kyushu, and Shikoku). These regions account for about 30 percent of Japan's total rice production. Light to moderate rain (15-50 mm) and warm weather (temperatures 1-3 degrees C above normal) favored rice across the major producing areas of northern Honshu.





AUSTRALIA

Showers brushed the winter grain belts of western and southeastern Australia. In the west, the rain (5-25 mm, with locally heavier coastal showers) maintained generally favorable topsoil moisture reserves for vegetative growth. In the southeast, however, showers (2-10 mm), if any, were too scattered and light to significantly help parched soils. Elsewhere, dry weather dominated interior crop areas of east-central Australia, although a few mostly light showers were scattered throughout southern Queensland. Frost and freezing temperatures occurred throughout Australian grain belts, limiting development of late plantings. In New Zealand, rainfall was light (15 mm or less, exceeding 25 mm at a few locations) in primary agricultural areas.



SOUTH AMERICA

In Argentina, late-week rain (5-15 mm) increased topsoil moisture for winter wheat planting across the previously dry regions of Santa Fe and Cordoba. Additional beneficial rain (1-15 mm) fell on July 13. Rain (7-30 mm) also boosted soil moisture across La Pampa and Buenos Aires for wheat planting. In southern Brazil, light rain (5-25 mm) fell across eastern Santa Catarina and Rio Grande do Sul, aiding vegetative wheat. Dry weather prevailed across eastern Parana and southern Mato Grosso do Sul, where soil moisture should be adequate for wheat development. Dry weather favored coffee and citrus harvesting in Sao Paulo and southern Minas Gerais. Temperatures averaged 1 to 2 degrees C above normal in central Argentina and 3 to 5 degrees C above normal in southern Brazil.

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ENSO Update

The following is based on the El Niño/Southern Oscillation (ENSO) advisory issued on July 15, 1997, by the Climate Prediction Center, National Centers for Environmental Prediction (NCEP).

Warm episode conditions continued to strengthen during June and early July. During the period, sea surface temperature (SST) anomalies increased across the eastern and central tropical Pacific ocean, with positive SST anomalies greater than +2°C now extending from 160°W eastward to 135°W. By the beginning of July, anomalies in some areas were the largest since the 1982-83 warm episode.

The Southern Oscillation Index (SOI) remained strongly negative (-2.0) for the fourth consecutive month during June, and low-level equatorial westerly anomalies dominated the entire equatorial Pacific. Enhanced convection continued to dominate the central and eastern equatorial Pacific for the fourth consecutive month, while convection remained suppressed over Indonesia.

Atmospheric circulation anomalies consistent with those generally experienced during warm episodes (El Niños) became evident during June. Drier-than-normal conditions were observed over Indonesia, while wetter-than-normal conditions were observed over the islands of the central tropical Pacific. A stronger-than-normal South Pacific jet stream developed, extending farther east than normal. This was associated with a wetter-than-normal June and localized flooding in central Chile and central Argentina, Uruguay, and southern Brazil.

Given the current oceanic and atmospheric conditions and NCEP model forecasts, it is expected that warm episode conditions will persist through the remainder of the year and into early next year.

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