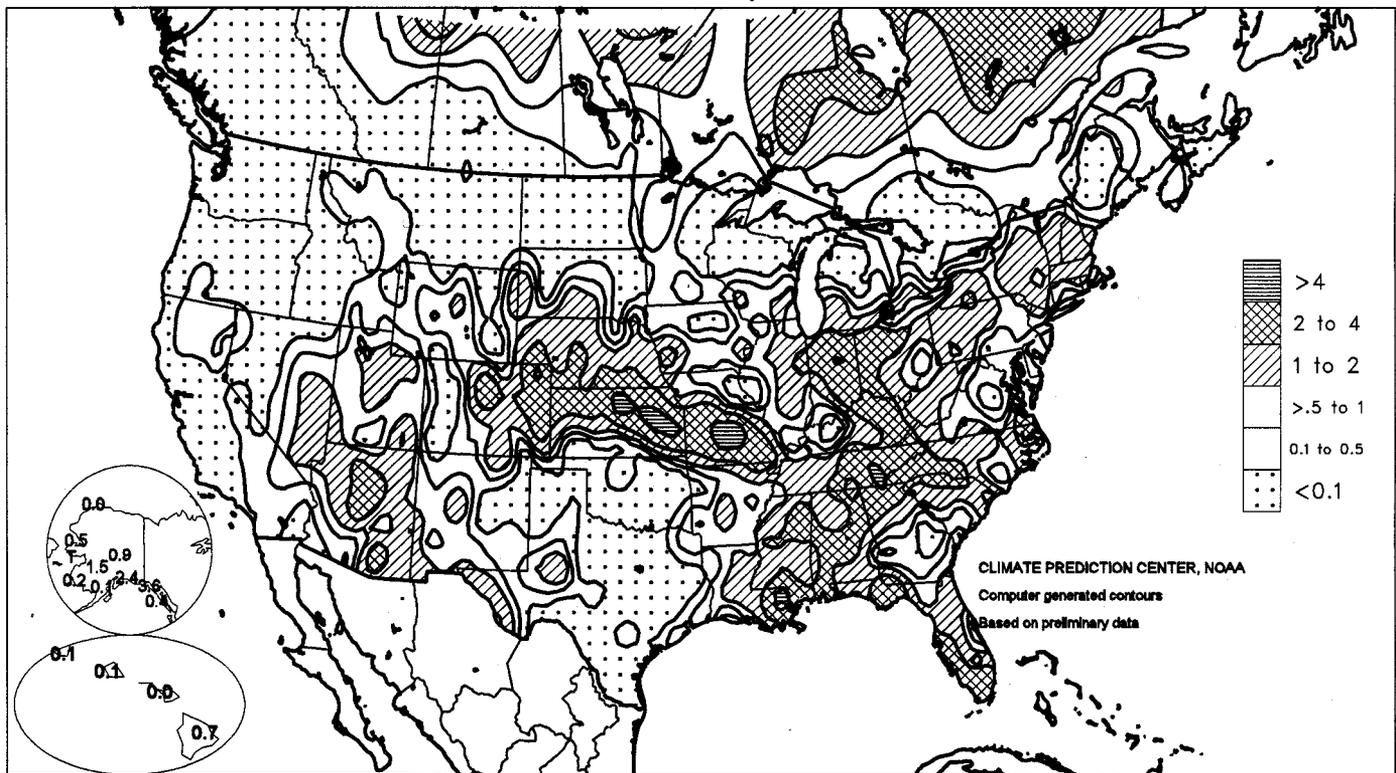


# WEEKLY WEATHER AND CROP BULLETIN

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 19 - 25, 1998



## HIGHLIGHTS

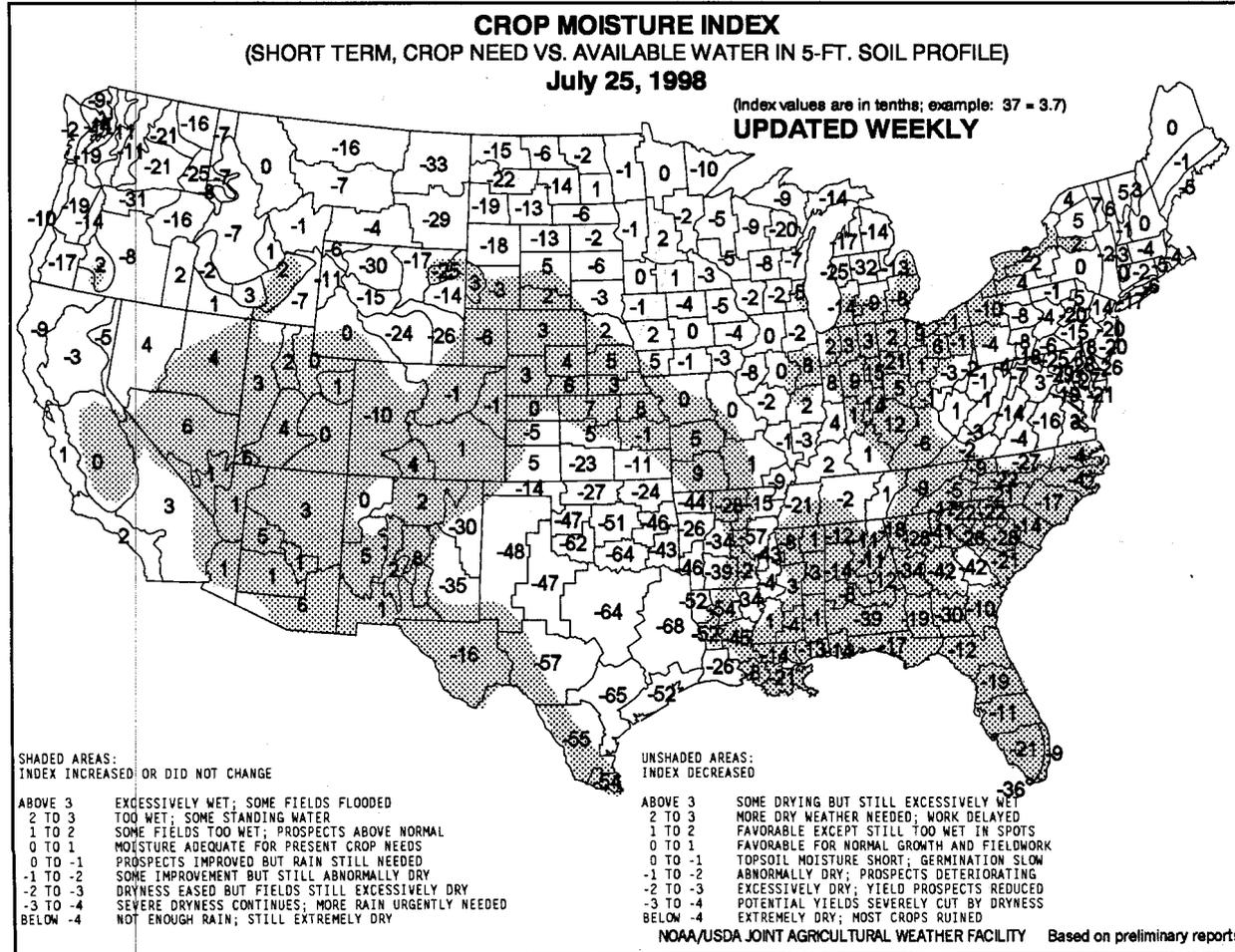
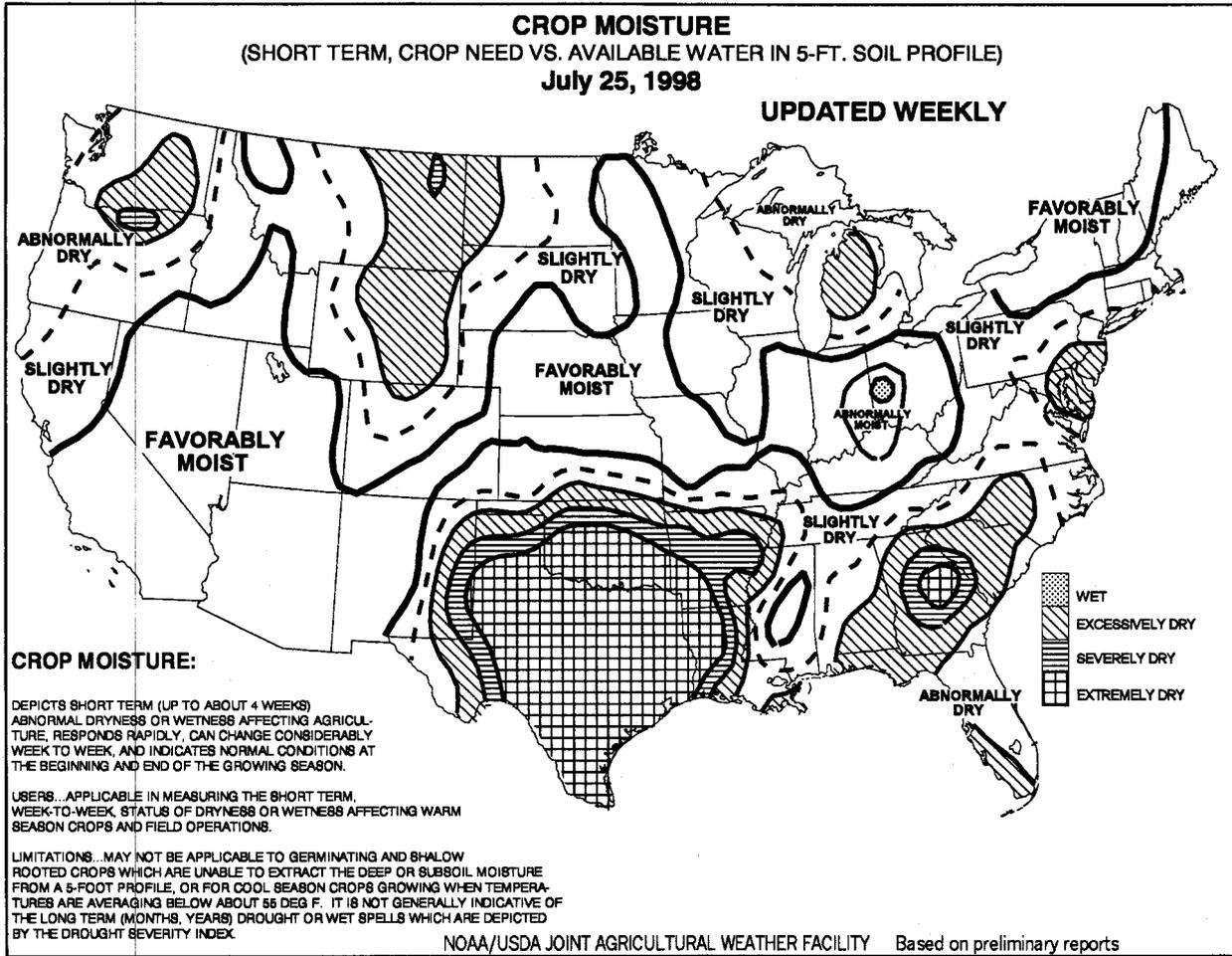
July 19 - 25, 1998

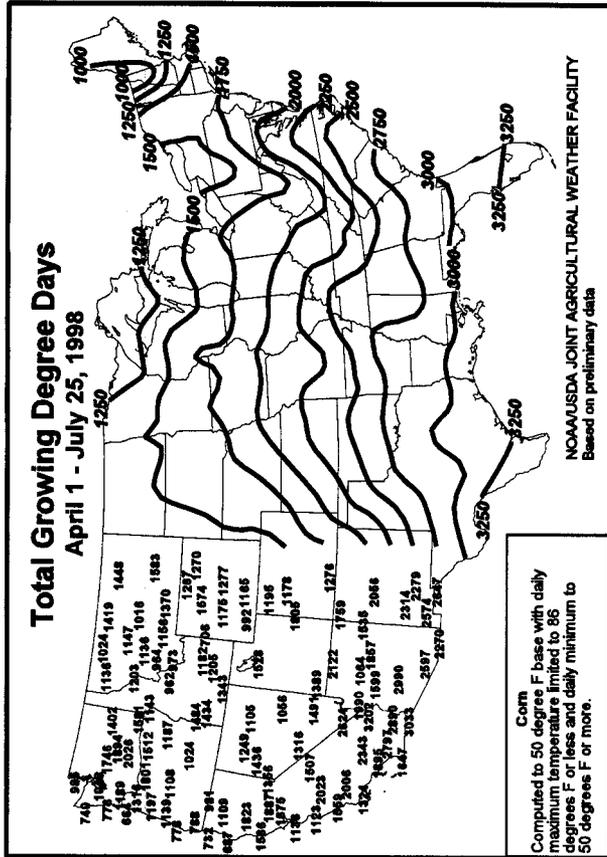
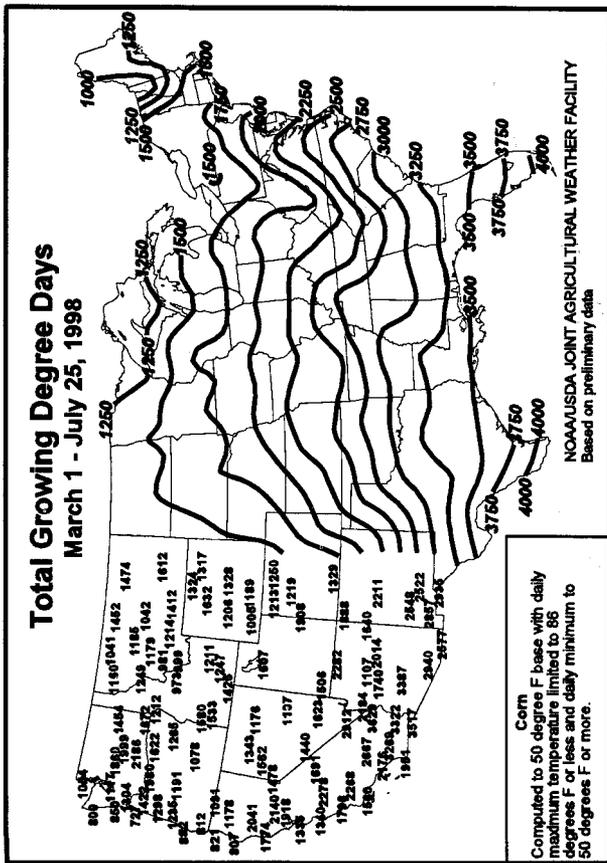
**H**ot weather (highs in the middle 90's to near 100°F on July 19 and 20) briefly stressed reproductive corn and soybeans in the southern and western Corn Belt. Cooler weather, accompanied by scattered showers, arrived in the Midwest by mid-week. Spotty rain shifted into the Southeast late in the week, locally improving soil moisture. Meanwhile, seasonal showers returned to the Southwest, helping to end the recent heat wave, but drought continued to intensify across eastern New Mexico, Texas, Oklahoma, and parts of Arkansas and Louisiana. Weekly temperatures ranged from 2 to 7°F above normal in the drought area, but averaged within 2°F of normal from the central Plains into the Northeast, including the Corn Belt. Very warm weather prevailed in the Northwest, where weekly departures reached +7°F.

(Continued on page 5)

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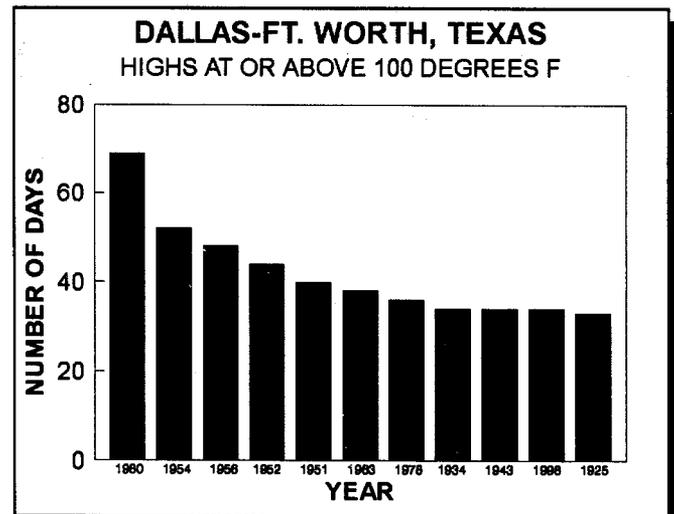
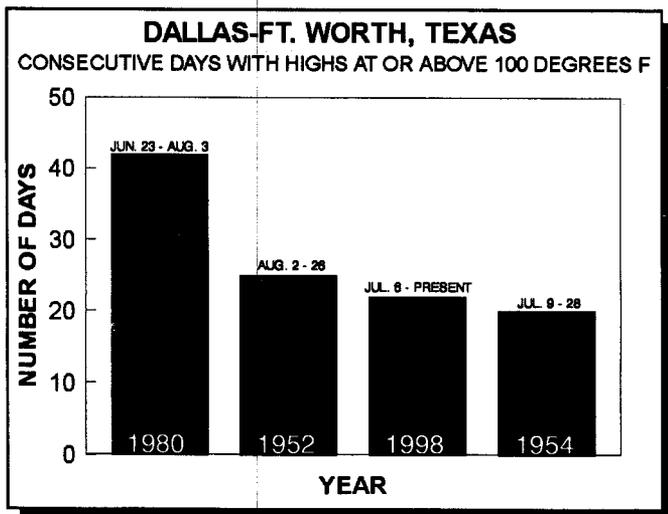
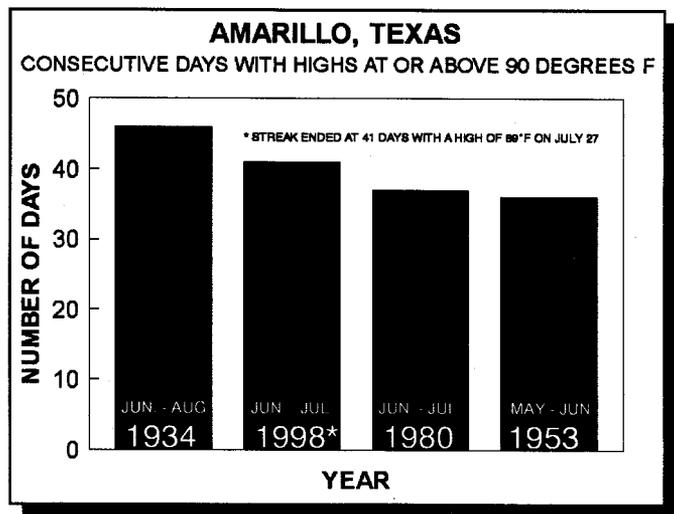
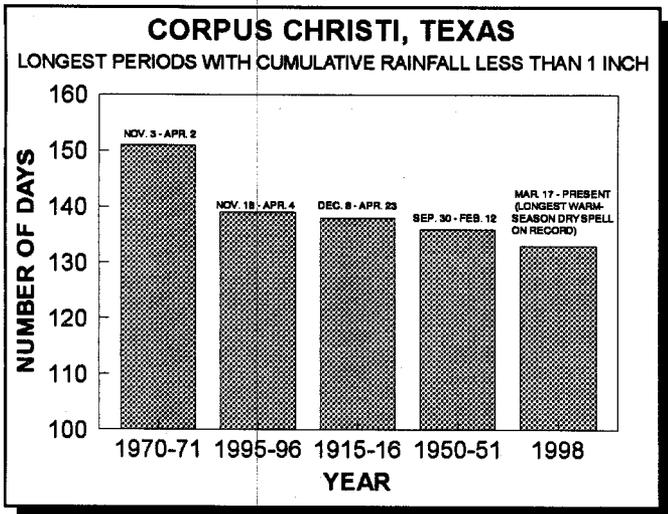
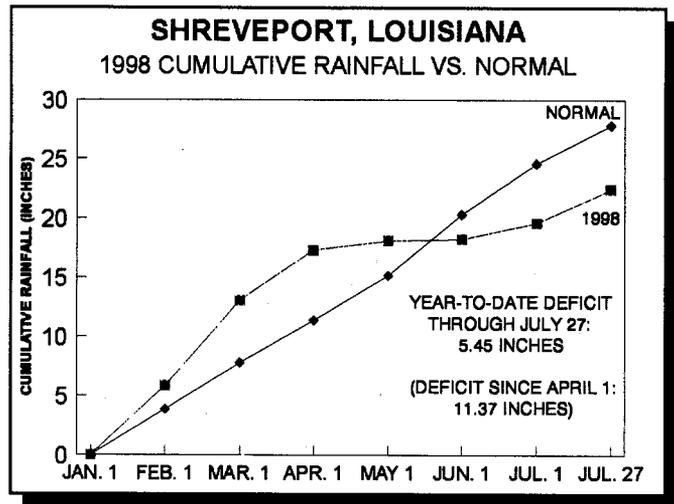
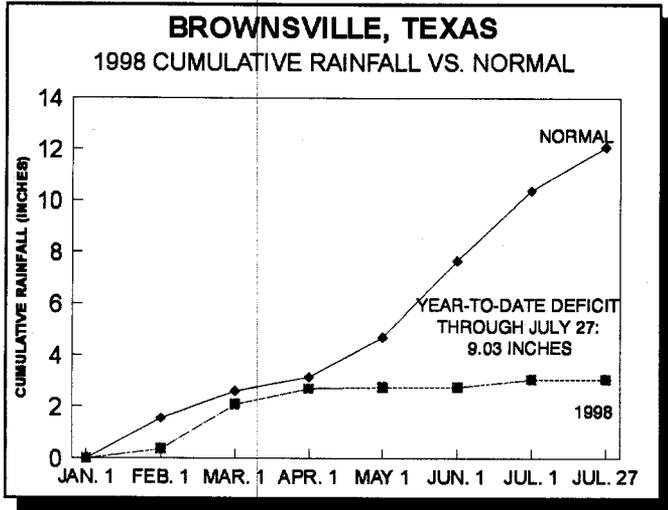
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# The Southern Drought: Selected Graphs

Updated through July 27, 1998



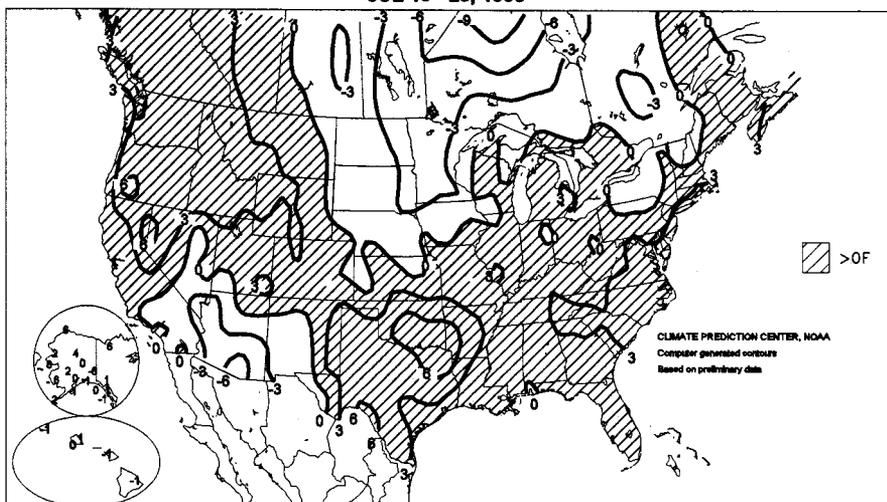
(Continued from front cover)

Early in the week, record-setting heat persisted across the **Western and Central States**, resulting in more than 50 additional daily-record highs. On Sunday, highs in **Colorado** soared to 104°F in both **Grand Junction** and **Pueblo**. **Corpus Christi, TX** logged 98°F, their third consecutive daily record. Farther west, downtown **Sacramento, CA** posted 110°F. A day later, **Pueblo** again recorded 104°F, while **Yuma, CO** notched 109°F. Highs of 100°F in **Topeka, KS**, 100°F in **Denver, CO**, and 105°F in **North Platte, NE** were the highest in more than 2, 4, and 8 years, respectively. Although no records were set, highs on Monday reached 98°F in both **Omaha, NE** and **Moline, IL**. In **Montana**, however, streaks of 90-degree heat ended on Tuesday at 14 days in **Miles City** and 11 days in **Billings**. A longer heat wave last occurred in **Miles City** during July 1964 (16 days) and in **Billings** during June 1988 (14 days).

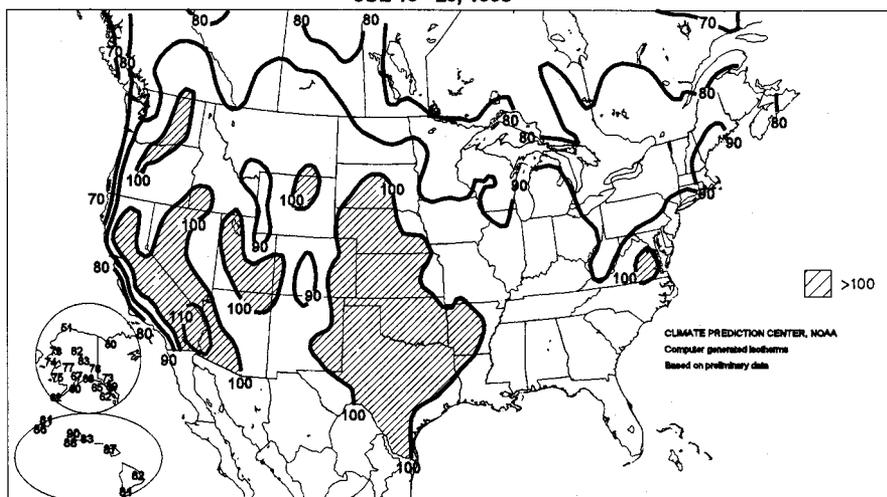
On Tuesday, 2.54 inches of rain pelted **North Platte**, their fifth-highest single-day total on record during July. Cloudy, showery weather lingered on the **central Plains** for the remainder of the week. On Saturday, **North Platte's** high reached only 69°F. At week's end, 24-hour rainfall (July 25-26) in **Missouri** included 6.25 inches near **Rolla** and 5.73 inches in **Sedalia**. Cloudiness and precipitation also suppressed temperatures in **Arizona**, where **Tucson's** high of 76°F on Wednesday was their lowest in July since 1921. In addition, 24-hour rainfall in **Arizona** on July 21-22 reached 3.76 inches on **Mt. Lemmon** (near Tucson) and 2.30 inches in **Sedona**. Heavy rain also soaked parts of the **Ohio Valley**. In **Kentucky**, **Lexington's** total of 4.38 inches on Monday was their sixth-greatest single-day rainfall on record.

Heat briefly overspread the **East Coast** at midweek. Highs topped 100°F as far north as **Richmond, VA**, where the maximum of 102°F on Wednesday was their highest since July 8, 1993. In **Boston, MA**, highs reached or exceeded 90°F on three consecutive days (91, 93, and 92°F on July 21-23), their second such streak this month and 102nd during the 127-year period of record. Meanwhile, unrelenting heat baked the **South Central States**. In **Texas**, streaks of consecutive 100-degree days (through

Departure of Average Temperature from Normal (°F)  
JUL 19 - 25, 1998



Extreme Maximum Temperature (°F)  
JUL 19 - 25, 1998



Monday, July 27) reached 22 days in **Dallas-Ft. Worth**--the longest since a record-setting 42-day stretch in 1980--and 24 days in **Del Rio**. With highs of 104°F on Monday and Friday, daily-records were set or tied in **Del Rio** for the 11th and 12th times this month. In **northern Texas**, **Amarillo's** stretch of 90-degree heat reached 41 days (June 16 - July 26), second on record to their 46-day streak in 1934. **Oklahoma City, OK** closed the week with three consecutive daily-record highs (105, 106, and 106°F). In **Arkansas**, highs reached triple digits four times during the week, boosting their 1998 total to 11 days, their most since 41 such days in 1980.

In addition to the heat, year-to-date rainfall through July 27 stood at only 2.13 inches (29 percent of normal) in **Midland, TX** and 3.06 inches (25 percent) in **Brownsville, TX**. April 1 - July 27 rainfall in **Shreveport, LA** was 5.13 inches (31 percent of normal). Similarly, May 1 - July 27 rainfall in **Oklahoma City** totaled 4.81 inches (41 percent). In **Corpus Christi**, a 133-day spell (March 17 - July 27) with less than 1 inch of rain was their fifth-longest such streak, and longest on record during the warm season. In **Lubbock, TX**, barring significant rain during the final 4 days of July, April-July 1998--with 1.93 inches of rain--will become their driest such period on record, breaking the 1934 record of 3.27 inches.

Near- to above-normal temperatures (departures from -1 to +8°F) prevailed in **Alaska**, accompanied by widespread precipitation. On Monday, **Kodiak** reported 3.54 inches of rain, breaking their single-day record for July. In **Kotzebue**, thunderstorm activity struck for the second time in a week on Wednesday, shortly after a near-record high of 78°F. Before this year, a thunderstorms last occurred in **Kotzebue** on July 16, 1994.

# National Weather Data for Selected Cities

Weather Data for the Week Ending July 25, 1998

Data Provided by Climate Prediction Center (301-763-8000 EXT. 7511)

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.	
																80 AND ABOVE	32 AND BELOW	01 INCH OR MORE	50 INCH OR MORE
AL BIRMINGHAM	92	72	96	68	82	2	0.27	-0.93	0.18	9.31	117	43.34	128	100	61	8	0	3	0
AL HUNTSVILLE	90	72	96	70	81	2	2.24	1.15	1.31	6.50	80	31.93	92	98	57	5	0	6	2
AL MOBILE	90	73	96	72	82	-1	3.18	1.57	1.14	9.15	87	48.22	129	99	62	3	0	5	3
AL MONTGOMERY	94	72	97	71	83	2	1.08	-0.10	0.87	8.52	105	33.59	102	98	54	8	0	3	1
AK ANCHORAGE	64	53	67	50	59	0	0.05	-0.38	0.05	3.85	148	5.38	87	89	53	0	0	1	0
AK BARROW	50	43	51	40	46	6	0.00	-0.24	0.00	0.30	30	0.70	40	100	82	0	0	0	0
AK FAIRBANKS	72	52	83	46	62	0	0.94	0.50	0.77	4.19	147	4.69	92	95	41	0	0	5	1
AK JUNEAU	62	53	69	51	58	1	1.71	0.72	0.89	8.10	126	20.94	87	96	72	0	0	5	1
AK KODIAK	57	51	60	51	54	-1	3.93	3.10	3.30	14.66	190	62.90	181	99	84	0	0	5	2
AK NOME	66	54	74	47	60	8	0.01	-0.53	0.01	2.53	90	9.70	160	87	60	0	0	1	0
AZ FLAGSTAFF	78	55	85	53	66	-1	3.16	2.45	1.25	4.16	163	14.27	125	93	43	0	0	6	2
AZ PHOENIX	98	80	106	78	89	-5	1.26	1.04	1.02	2.06	271	7.12	212	69	29	6	0	2	1
AZ PRESCOTT	84	63	92	59	73	0	3.14	2.31	1.20	4.77	163	12.00	131	88	45	1	0	5	3
AZ TUCSON	90	71	98	69	80	-8	2.98	2.38	1.02	5.70	271	11.11	230	88	41	4	0	6	3
AZ YUMA	103	83	109	78	93	-2	0.09	0.01	0.09	0.09	45	1.68	144	72	30	7	0	1	0
AR FORT SMITH	101	76	102	73	88	6	0.00	-0.66	0.00	5.89	101	25.31	108	89	41	7	0	0	0
AR LITTLE ROCK	99	76	102	74	88	5	0.85	0.04	0.85	4.04	62	24.76	85	90	44	7	0	1	1
CA BAKERSFIELD	99	72	104	67	86	1	0.00	0.00	0.00	0.38	345	11.76	307	63	26	7	0	0	0
CA EUREKA	83	54	87	52	59	1	0.00	-0.03	0.00	0.47	77	41.03	196	94	78	0	0	0	0
CA FRESNO	100	71	107	67	85	3	0.00	0.00	0.00	1.93	2757	15.97	230	70	24	7	0	0	0
CA LOS ANGELES	76	66	78	65	71	1	0.00	0.00	0.00	0.09	-	23.84	308	92	68	0	0	0	0
CA REDDING	99	69	107	65	84	2	0.16	0.13	0.08	1.87	275	47.40	251	77	22	7	0	2	0
CA SACRAM/MCCLELL	94	64	106	59	79	-	0.04	-	0.04	0.18	-	24.11	-	79	23	6	0	1	0
CA SAN DIEGO	73	66	78	65	70	-2	0.20	0.20	0.20	0.30	333	14.27	231	88	70	0	0	1	0
CA SAN FRANCISCO	72	57	79	55	64	2	0.00	0.00	0.00	0.03	26	28.58	233	90	57	0	0	0	0
CO ALAMOSA	84	49	89	46	67	1	0.08	-0.20	0.03	1.67	104	2.81	76	88	24	0	0	4	0
CO CO SPRINGS	84	61	96	58	73	1	1.38	0.69	1.07	4.24	93	9.14	96	76	37	3	0	5	1
CO DENVER	87	64	100	60	76	2	1.34	-0.90	0.79	4.63	138	10.04	102	71	35	3	0	4	1
CO GRAND JUNCTION	83	67	104	64	80	0	0.71	0.54	0.35	2.02	198	5.27	116	66	23	4	0	4	0
CO PUEBLO	93	60	104	56	77	-1	0.37	-0.13	0.33	1.53	53	6.46	101	79	29	3	0	3	0
CT BRIDGEPORT	86	68	93	63	77	2	0.35	-0.50	0.35	5.66	87	32.03	132	87	51	1	0	1	0
CT HARTFORD	86	64	90	56	75	1	1.21	0.49	1.08	8.95	142	31.50	128	95	48	2	0	2	1
DC WASHINGTON	92	73	97	70	83	2	0.48	-0.40	0.33	5.77	90	29.81	139	82	40	4	0	3	0
DE WILMINGTON	89	70	92	64	79	2	0.08	-0.88	0.04	5.94	85	25.61	109	95	49	3	0	3	0
FL DAYTONA BEACH	92	73	95	70	82	1	1.34	0.13	1.05	5.95	57	21.80	88	99	57	5	0	3	1
FL JACKSONVILLE	92	74	94	72	83	1	0.18	-1.12	0.09	9.11	91	32.21	118	98	56	8	0	2	0
FL KEY WEST	90	81	91	77	85	1	0.35	-0.43	0.25	2.00	26	14.30	76	82	66	5	0	3	0
FL MIAMI	91	77	92	73	84	1	1.54	0.35	0.71	11.76	84	29.43	100	85	57	7	0	4	2
FL ORLANDO	93	74	95	71	83	1	1.61	0.00	1.31	9.52	72	30.18	111	99	51	6	0	2	1
FL TAMPA	91	75	94	73	83	0	0.44	-1.10	0.20	14.93	140	37.92	165	93	55	6	0	3	0
FL VALPARAISO/EGLIN	89	76	93	73	83	2	0.32	-1.74	0.00	1.18	9	26.72	75	97	56	4	0	3	0
FL WEST PALM BEACH	90	77	92	72	83	1	1.29	-0.01	0.59	10.23	78	34.76	111	90	60	6	0	4	1
GA ATHENS	95	72	101	70	83	3	1.02	-0.09	0.82	4.21	53	36.82	120	93	44	7	0	4	1
GA ATLANTA	90	71	96	69	81	1	1.09	-0.06	0.91	5.83	77	31.43	100	93	53	5	0	4	1
GA AUGUSTA	94	72	96	70	83	2	1.24	0.27	0.93	4.01	53	33.16	120	99	51	7	0	5	1
GA COLUMBUS	92	74	97	71	83	1	1.01	-0.25	0.78	5.71	66	22.96	71	91	53	6	0	2	1
GA MACON	95	73	100	70	84	2	0.49	-0.50	0.40	5.74	81	30.73	109	98	46	7	0	2	0
GA SAVANNAH	93	73	94	72	83	1	2.35	0.86	1.34	6.51	80	34.54	121	99	53	7	0	2	2
HI HILO	80	70	82	67	75	-1	0.85	-1.67	0.23	7.39	53	27.20	37	91	68	0	0	6	0
HI HONOLULU	87	74	88	71	81	0	0.00	-0.14	0.00	0.44	44	2.44	21	73	47	0	0	0	0
HI KAHULUI	86	71	87	64	78	-1	0.00	-0.09	0.00	0.16	29	2.56	20	81	52	0	0	0	0
HI LIHUE	83	72	84	71	78	-1	0.07	-0.43	0.00	1.58	46	8.89	38	91	61	0	0	4	0
ID BOISE	98	66	100	61	82	7	0.00	-0.06	0.00	1.29	117	11.61	161	53	19	7	0	0	0
ID LEWISTON	95	64	100	59	80	5	0.00	-0.14	0.00	3.56	197	11.56	154	65	21	7	0	0	0
ID POCATELLO	92	59	99	50	75	4	0.34	0.20	0.29	1.85	119	9.31	127	82	32	6	0	2	0
IL CHICAGO/O'HARE	86	67	94	57	76	3	0.01	-0.82	0.01	3.32	50	18.56	97	89	43	3	0	1	0
IL MOLINE	88	66	98	59	77	1	0.72	-0.41	0.71	8.91	108	27.86	125	93	48	3	0	2	1
IL PEORIA	87	69	95	59	78	2	0.41	-0.52	0.40	6.83	92	27.31	132	95	52	3	0	2	0
IL ROCKFORD	82	63	89	55	73	-1	1.02	0.11	0.88	10.00	127	25.44	127	95	53	0	0	4	0
IL SPRINGFIELD	87	69	95	57	78	1	0.19	-0.81	0.11	11.69	186	31.17	155	92	53	3	0	2	0
IN EVANSVILLE	89	71	95	63	80	1	0.28	-0.84	0.24	8.06	119	28.48	109	94	59	4	0	3	0
IN FORT WAYNE	84	63	94	54	73	-1	3.29	2.52	2.00	10.07	159	27.64	139	97	53	2	0	4	2
IN INDIANAPOLIS	86	68	94	60	77	1	1.89	0.87	1.42	13.73	193	33.93	145	92	54	2	0	3	1
IN SOUTH BEND	84	64	97	56	74	1	1.18	0.33	0.73	6.36	88	22.07	103	93	47	2	0	3	1
IA BURLINGTON	88	71	98	63	79	3	0.25	-0.71	0.21	9.21	123	29.78	149	86	52	3	0	4	0
IA CEDAR RAPIDS	84	64	94	57	74	0	0.53	-0.38	0.52	9.18	116	25.54	134	95	48	2	0	2	1
IA DES MOINES	85	68	98	63	77	0	1.44	0.61	0.99	14.22	190	27.30	145	89	53	3	0	3	1
IA DUBUQUE	82	62	89	53	72	-1	0.31	-0.81	0.21	9.48	129	27.26	131	93	50	0	0	3	0
IA SIOUX CITY	85	65	94	56	75	-1	0.12	-0.60	0.05	7.22	113	21.51	138	95	52	2	0	3	0
IA WATERLOO	85	60	98	53	73	-1	0.00	-1.08	0.00	10.63	126	26.11	131	93	44	2	0	0	0
KS CONCORDIA	88	72	102	64	80	0	1.02	0.22	0.39	6.94	89	16.74	95	87	59	3	0	5	0
KS DODGE CITY	96	70	104	65	83	2	0.45	-0.28	0.41	3.85	67	11.43	85	79	36	5	0	2	0
KS GOODLAND	87	64	100	62	76	-1	1.82	1.20	1.08	7.48	134	11.00	90	84	42	3	0	4	2
KS TOPEKA	87	73	100	65	80	1	0.82	0.07	0.63	11.67	137	20.36	99	83	54	3	0	4	1

Based on 1961-90 normals

Weather Data for the Week Ending July 25, 1998

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.	
																90 AND ABOVE	82 AND BELOW	0.1 INCH OR MORE	5.0 INCH OR MORE
KY WICHITA	98	73	103	69	85	3	0.38	-0.29	0.24	3.20	46	13.78	80	82	39	6	0	3	0
KY JACKSON	84	68	90	84	76	1	0.54	-0.63	0.29	10.21	121	37.56	128	96	66	1	0	4	0
LA LEXINGTON	85	69	91	81	77	1	4.58	3.42	4.37	18.00	234	40.35	152	92	58	2	0	3	1
LA LOUISVILLE	88	73	95	86	81	3	0.94	-0.10	0.94	11.67	164	31.79	119	87	53	3	0	1	1
LA PADUCAH	89	72	96	86	81	1	0.10	-0.83	0.10	11.78	198	31.74	113	94	59	4	0	1	0
LA BATON ROUGE	92	74	96	72	83	0	2.40	0.81	1.21	6.05	61	36.02	102	99	56	6	0	4	2
LA LAKE CHARLES	93	77	94	75	85	2	0.06	-1.13	0.05	7.02	77	28.39	96	95	55	7	0	2	0
LA NEW ORLEANS	92	77	95	74	84	2	0.75	-0.63	0.38	5.67	53	40.01	112	93	57	5	0	3	0
ME SHREVEPORT	100	78	102	73	88	5	0.61	-0.17	0.52	4.37	80	22.61	82	88	34	7	0	3	1
ME CARIBOU	79	54	87	49	66	0	0.06	-0.88	0.05	7.97	131	23.83	130	92	47	0	0	2	0
ME PORTLAND	82	60	92	52	71	2	1.20	0.51	0.91	11.17	187	33.14	137	96	46	1	0	3	1
MD BALTIMORE	92	70	99	65	81	4	0.00	-0.84	0.00	4.15	63	28.24	123	89	39	5	0	0	0
MA BOSTON	96	68	93	63	77	3	1.04	0.40	0.75	12.85	240	37.74	164	93	50	3	0	2	1
MA WORCESTER	81	64	85	56	73	2	0.74	-0.14	0.73	10.95	156	33.74	128	95	55	0	0	2	1
MI ALPENA	80	57	92	49	69	1	0.21	-0.45	0.16	3.81	71	19.26	125	93	43	1	0	2	0
MI GRAND RAPIDS	84	63	92	57	74	2	1.40	0.68	0.75	5.23	83	22.24	119	91	40	2	0	4	2
MI HOUGHTON LAKE	83	54	94	46	68	0	0.01	-0.57	0.01	2.88	57	13.42	92	97	40	2	0	1	0
MI LANSING	85	60	94	50	72	1	0.28	-0.26	0.16	5.34	93	19.00	116	93	43	2	0	3	0
MI MARQUETTE	75	51	88	41	63	-3	0.01	-0.62	0.01	3.57	62	6.40	56	87	37	0	0	1	0
MI MUSKEGON	81	64	87	56	73	2	0.57	0.08	0.29	2.40	60	14.41	91	89	47	0	0	4	0
MN DULUTH	76	54	84	49	65	-2	0.00	-0.81	0.00	7.70	115	17.63	111	94	45	0	0	0	0
MN INT'L FALLS	73	48	79	41	61	-7	0.49	-0.29	0.45	5.80	84	13.33	99	98	50	0	0	3	0
MN MINNEAPOLIS	81	61	87	54	71	-3	0.03	-0.74	0.03	9.12	132	22.09	134	93	42	0	0	1	0
MN ROCHESTER	78	58	83	53	68	-3	0.89	-0.07	0.67	8.86	124	20.57	124	96	53	0	0	5	1
MN ST. CLOUD	80	56	88	50	68	-3	0.00	-0.66	0.00	7.41	104	15.55	101	95	46	0	0	0	0
MS JACKSON	93	73	95	71	83	1	2.28	1.23	1.48	9.78	144	36.13	109	97	52	7	0	5	2
MS MERIDIAN	92	71	94	70	82	0	2.24	1.05	1.58	11.52	148	40.05	114	99	55	7	0	4	1
MS TUPELO	92	72	97	70	82	1	3.74	2.77	2.46	7.93	108	32.96	97	97	57	5	0	4	2
MO COLUMBIA	87	70	96	62	78	1	0.14	-0.66	0.14	10.09	138	26.96	119	90	57	4	0	1	0
MO KANSAS CITY	86	71	98	66	79	0	0.36	-0.61	0.26	10.13	122	19.52	92	89	57	3	0	4	0
MO SAINT LOUIS	91	74	98	65	82	2	0.57	-0.28	0.57	9.64	140	29.70	136	80	47	4	0	1	1
MO SPRINGFIELD	91	72	99	68	81	3	2.78	2.19	1.88	7.90	105	27.82	116	92	50	4	0	2	2
MT BILLINGS	89	62	98	57	76	2	0.00	-0.18	0.00	4.09	147	8.80	90	86	29	3	0	0	0
MT BUTTE	87	50	93	43	69	5	0.08	-0.16	0.08	3.93	123	10.59	138	85	21	1	0	1	0
MT GLASGOW	86	59	96	51	73	1	0.04	-0.33	0.04	6.37	180	9.96	142	72	25	3	0	1	0
MT GREAT FALLS	86	52	93	47	69	0	0.07	-0.18	0.07	6.83	194	12.48	126	83	21	3	0	1	0
MT KALISPELL	87	53	91	46	70	6	0.00	-0.22	0.00	5.28	169	14.25	147	92	25	2	0	0	0
MT MILES CITY	91	64	99	57	77	2	0.04	-0.26	0.02	4.86	119	8.10	87	63	20	4	0	2	0
MT MISSOULA	89	56	93	50	72	5	0.23	0.04	0.20	7.13	281	15.36	185	83	23	3	0	2	0
NE GRAND ISLAND	85	67	104	62	76	-1	0.23	-0.38	0.12	6.38	102	18.85	120	89	59	3	0	3	0
NE LINCOLN	87	70	102	63	79	0	0.45	-0.27	0.28	6.69	103	19.51	118	88	52	3	0	3	0
NE NORFOLK	84	66	96	57	75	-1	0.19	-0.48	0.16	12.50	175	21.85	134	91	54	2	0	3	0
NE NORTH PLATTE	86	64	105	59	75	0	4.28	3.63	2.51	10.29	174	15.86	119	90	49	3	0	5	2
NE OMAHA	86	69	98	64	77	0	1.52	0.75	0.86	15.61	232	30.38	174	92	58	3	0	3	2
NE SCOTTSBLUFF	87	62	102	60	75	0	0.35	-0.08	0.35	5.48	125	10.61	99	85	42	3	0	1	0
NE VALENTINE	85	64	103	59	74	-1	0.90	0.21	0.57	10.65	198	16.23	136	90	32	2	0	3	1
NV ELY	82	55	97	51	68	0	1.09	0.92	0.47	3.03	206	8.28	139	86	37	1	0	6	0
NV LAS VEGAS	98	78	109	72	88	-4	0.74	0.66	0.36	0.86	232	5.22	236	70	29	6	0	4	0
NV RENO	94	64	101	61	79	7	0.00	-0.06	0.00	1.93	284	9.24	203	59	17	5	0	0	0
NV WINNEMUCCA	96	59	103	51	77	4	0.00	-0.06	0.00	0.90	82	10.26	208	65	23	5	0	0	0
NH CONCORD	84	58	92	50	71	1	1.10	0.36	0.63	9.24	160	25.21	129	98	42	2	0	3	1
NJ NEWARK	91	72	98	65	82	3	0.24	-0.81	0.23	6.92	101	33.45	133	77	39	4	0	2	0
NM ALBUQUERQUE	89	66	96	64	77	-2	0.44	0.10	0.22	2.30	139	6.08	149	69	28	3	0	4	0
NY ALBANY	82	62	87	55	72	0	0.18	-0.54	0.12	8.77	142	27.38	136	95	53	0	0	4	0
NY BINGHAMTON	78	61	84	54	70	0	0.33	-0.45	0.20	7.64	118	28.92	141	90	51	0	0	2	0
NY BUFFALO	79	64	83	58	71	0	0.96	0.26	0.49	7.79	130	25.81	131	87	50	0	0	4	0
NY ROCHESTER	81	61	85	53	71	0	0.63	0.02	0.31	12.83	247	28.74	169	94	48	0	0	3	0
NY SYRACUSE	82	62	87	55	72	1	1.17	0.32	0.51	8.11	118	23.54	113	89	46	0	0	3	1
NC ASHEVILLE	88	64	92	61	76	3	1.02	-0.02	0.52	5.82	71	36.59	133	100	51	3	0	4	1
NC CHARLOTTE	93	70	97	67	81	2	1.19	0.28	0.96	5.13	78	25.42	102	95	49	8	0	4	1
NC GREENSBORO	93	71	96	69	82	5	2.01	0.98	2.01	6.79	91	32.24	131	94	51	5	0	1	1
NC HATTERAS	85	78	87	74	82	3	1.84	0.46	1.57	12.76	159	42.80	146	93	76	0	0	2	1
NC RALEIGH	95	71	99	68	83	5	0.96	0.04	0.75	7.01	102	34.52	142	94	46	6	0	3	1
NC WILMINGTON	93	77	96	75	85	5	0.27	-1.60	0.18	9.56	76	40.46	129	92	55	7	0	2	0
ND BISMARCK	87	55	97	48	71	0	0.01	-0.44	0.01	4.52	101	8.43	84	91	32	2	0	1	0
ND DICKINSON	85	55	93	49	70	0	0.00	-0.42	0.00	7.49	150	13.11	121	87	30	2	0	0	0
ND FARGO	83	56	94	49	70	-2	0.08	-0.53	0.08	11.71	233	22.94	199	91	34	1	0	1	0
ND GRAND FORKS	79	52	89	47	66	-4	0.03	-0.58	0.03	8.78	173	14.14	133	95	42	0	0	1	0
ND JAMESTOWN	82	55	93	48	68	-4	0.02	-0.58	0.02	5.20	98	11.47	108	92	35	2	0	1	0
ND WILLISTON	84	55	92	46	70	-2	0.00	-0.45	0.00	4.80	119	8.31	93	83	28	2	0	0	0
OH AKRON-CANTON	82	62	88	57	72	0	1.74	0.80	0.74	8.13	126	25.56	121	94	54	0	0	4	2
OH CINCINNATI	86	67	93	61	76	1	3.13	2.17	2.49	13.74	189	38.44	156	98	59	2	0	4	1
OH CLEVELAND	84	64	92	56	74	2	1.70	0.82	1.30	5.71	88	22.76	112	98	51	1	0	4	1
OH COLUMBUS	86	67	93	61	77	3	0.99	0.02	0.78	9.75	129	26.02	116	91	50	2	0	5	1
OH DAYTON	86	65	92	58	75	1	1.78	0.99	1.03	9.87	144	28.56	131	94	53	2	0	4	2
OH MANSFIELD	82	62	91	54	72	-1	3.00	2.09	1.36	10.70	149	24.89	111	97	54	1	0	4	

Weather Data for the Week Ending July 25, 1998

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN, SINCE JUN 1	PCT. NORMAL SINCE JUN 1	TOTAL IN, SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	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
OK TOLEDO	88	64	96	57	76	2	2.98	2.27	1.31	5.20	81	21.87	119	97	48	3	0	5	3		
OK YOUNGSTOWN	83	60	90	52	71	1	1.30	0.39	0.69	5.38	74	24.19	114	94	45	1	0	3	1		
OK OKLAHOMA CITY	104	74	106	71	89	7	0.00	-0.54	0.00	2.69	42	19.00	96	70	26	7	0	0	0		
OR TULSA	99	78	101	73	88	4	0.05	-0.80	0.05	7.38	108	25.60	110	75	36	7	0	1	0		
OR ASTORIA	69	58	77	52	62	2	0.06	-0.16	0.03	2.01	60	45.21	127	98	71	0	0	3	0		
OR BURNS	91	51	95	47	71	4	0.05	-0.03	0.04	1.18	101	11.61	210	74	22	6	0	2	0		
OR EUGENE	88	53	93	50	71	2	0.00	-0.10	0.00	0.80	43	27.83	106	93	31	3	0	0	0		
OR MEDFORD	97	64	101	59	81	7	0.00	-0.06	0.00	0.67	86	17.96	191	75	24	7	0	0	0		
OR PENDLETON	96	61	101	53	78	5	0.00	-0.08	0.00	0.84	90	8.44	124	59	19	7	0	0	0		
OR PORTLAND	85	62	92	60	74	5	0.00	-0.12	0.00	2.07	104	24.77	129	86	43	2	0	0	0		
OR SALEM	87	56	94	53	71	4	0.00	-0.11	0.00	1.05	58	28.43	137	91	39	2	0	0	0		
PA ALLENTOWN	87	64	91	55	76	1	0.21	-0.75	0.21	5.83	83	26.76	111	94	46	1	0	1	0		
PA ERIE	81	66	88	59	74	2	1.54	0.78	0.64	5.15	75	22.30	106	87	51	0	0	5	2		
PA MIDDLETOWN	87	69	90	62	78	2	0.30	-0.50	0.28	6.55	97	31.98	137	90	50	2	0	2	0		
PA PHILADELPHIA	90	73	94	70	82	4	0.01	-0.96	0.01	6.15	85	24.14	100	84	42	5	0	1	0		
PA PITTSBURGH	82	64	88	59	73	1	1.19	0.36	0.48	8.74	130	24.23	111	92	53	0	0	4	0		
PA SCRANTON	81	61	86	53	71	-1	1.37	0.53	0.75	6.35	90	24.55	120	95	52	0	0	3	1		
PA WILLIAMSPORT	84	63	89	56	74	1	0.27	-0.80	0.14	6.58	86	32.02	138	99	51	0	0	3	0		
RI PROVIDENCE	87	67	93	62	77	4	0.37	-0.35	0.37	10.49	178	39.71	167	93	49	3	0	1	0		
SC BEAUFORT	94	75	95	74	84	3	0.05	-1.43	0.05	5.83	52	34.34	118	99	58	7	0	1	0		
SC CHARLESTON	93	76	94	75	85	3	0.44	-1.12	0.43	8.80	74	40.70	137	95	54	7	0	2	0		
SC COLUMBIA	95	74	97	70	85	4	0.89	-0.39	0.87	6.24	68	32.00	108	91	46	7	0	2	1		
SC GREENVILLE	93	71	97	69	82	3	0.88	-0.15	0.29	6.53	78	35.46	115	95	48	6	0	5	0		
SD ABERDEEN	85	59	97	50	72	-1	0.00	-0.59	0.00	7.52	139	16.55	139	93	40	2	0	0	0		
SD HURON	85	62	96	52	73	-2	0.21	-0.36	0.20	4.78	85	14.14	107	93	45	2	0	2	0		
SD RAPID CITY	82	59	95	55	70	-3	0.50	0.08	0.46	6.59	138	11.18	99	84	44	2	0	3	0		
SD SIOUX FALLS	81	61	89	52	71	-4	0.39	-0.19	0.20	6.66	120	17.41	125	96	51	0	0	4	0		
TN BRISTOL	86	65	92	62	75	1	1.93	0.95	1.30	9.83	139	32.91	134	100	81	2	0	6	1		
TN CHATTANOOGA	82	72	100	71	82	3	1.50	0.39	0.85	7.89	106	36.93	116	93	51	4	0	3	2		
TN KNOXVILLE	90	71	96	68	80	3	1.50	0.45	1.04	11.06	142	38.04	131	93	54	4	0	4	1		
TN MEMPHIS	92	76	96	71	84	1	0.10	-0.75	0.08	8.91	104	35.27	115	92	55	6	0	3	0		
TN NASHVILLE	89	73	96	72	81	2	0.90	-0.01	0.82	14.09	208	35.49	125	93	58	4	0	4	1		
TX ABILENE	100	77	102	73	88	4	0.00	-0.46	0.00	3.30	73	9.41	73	70	28	7	0	0	0		
TX AMARILLO	99	69	101	64	84	5	0.00	-0.57	0.00	0.85	15	7.57	67	65	22	7	0	0	0		
TX AUSTIN	100	77	101	76	88	3	0.00	-0.41	0.00	2.48	45	12.97	70	94	32	7	0	0	0		
TX BEAUMONT	93	75	94	74	84	1	0.94	-0.27	0.59	5.99	60	27.07	86	88	57	7	0	3	1		
TX BROWNSVILLE	97	77	98	76	87	3	0.00	-0.41	0.00	0.30	7	3.06	26	94	46	7	0	0	0		
TX CORPUS CHRISTI	98	77	99	75	87	3	0.00	-0.52	0.00	0.61	11	6.85	46	92	43	7	0	0	0		
TX DEL RIO	104	81	104	79	92	7	0.00	-0.40	0.00	1.37	38	2.91	29	68	23	7	0	0	0		
TX EL PASO	93	71	99	69	82	0	0.82	0.44	0.51	2.24	119	2.67	77	73	33	6	0	3	1		
TX FORT WORTH	103	81	104	80	92	6	0.00	-0.50	0.00	1.86	38	18.24	91	68	29	7	0	0	0		
TX GALVESTON	90	81	91	80	85	2	0.37	-0.51	0.36	10.69	140	23.73	111	92	69	4	0	2	0		
TX HOUSTON	97	74	99	73	86	3	0.00	-0.76	0.00	4.42	56	18.28	72	89	43	7	0	0	0		
TX LUBBOCK	97	71	98	69	84	4	0.00	-0.52	0.00	1.51	32	5.14	52	65	24	7	0	0	0		
TX MIDLAND	100	73	101	71	86	4	0.48	0.09	0.48	0.95	32	2.13	29	66	22	7	0	1	0		
TX SAN ANGELO	100	76	101	69	88	5	0.00	-0.22	0.00	1.37	43	6.20	58	72	24	7	0	0	0		
TX SAN ANTONIO	100	77	101	75	88	3	0.00	-0.44	0.00	1.04	19	10.88	63	88	29	7	0	0	0		
TX VICTORIA	98	76	99	74	87	2	0.28	-0.41	0.28	1.11	14	8.95	44	97	40	7	0	1	0		
TX WACO	103	79	104	78	91	5	0.00	-0.40	0.00	1.37	28	15.37	82	80	29	7	0	0	0		
TX WICHITA FALLS	104	77	106	73	91	5	0.00	-0.33	0.00	4.24	86	14.65	88	63	24	7	0	0	0		
UT SALT LAKE CITY	90	71	102	65	80	1	0.99	0.80	0.91	5.51	342	18.11	185	63	27	3	0	3	1		
VT BURLINGTON	81	59	89	50	70	-1	0.68	-0.16	0.63	16.51	259	32.71	182	98	45	0	0	3	1		
VA LYNCHBURG	90	66	96	62	78	2	0.40	-0.56	0.19	4.15	61	33.40	144	98	47	5	0	4	0		
VA NORFOLK	92	76	98	71	84	6	1.92	0.73	1.83	8.43	107	35.09	137	89	47	5	0	2	1		
VA RICHMOND	95	71	102	67	83	5	0.15	-1.04	0.12	6.28	82	33.67	138	88	39	6	0	3	0		
VA ROANOKE	91	69	99	65	80	4	0.25	-0.67	0.13	2.89	46	33.11	146	87	43	5	0	4	0		
WA WASH/DULLES	91	67	98	62	79	3	0.00	-0.78	0.00	6.69	98	30.87	137	95	45	5	0	0	0		
WA HANFORD	100	71	105	58	85	-	0.00	-	0.00	1.01	-	4.49	-	50	15	7	0	0	0		
WA OLYMPIA	83	53	92	48	68	5	0.00	-0.17	0.00	1.72	75	26.48	100	97	41	1	0	0	0		
WA QUILLAYUTE	71	52	79	45	61	2	0.08	-0.48	0.06	3.00	58	47.82	84	100	82	0	0	3	0		
WA SEATTLE-TACOMA	81	58	90	58	69	3	0.00	-0.17	0.00	1.68	79	19.06	100	89	40	1	0	0	0		
WA SPOKANE	93	61	98	52	77	7	0.03	-0.11	0.03	1.30	71	10.13	108	63	18	5	0	1	0		
WA YAKIMA	96	59	100	50	78	7	0.00	-0.03	0.00	0.57	86	6.73	157	71	19	6	0	0	0		
WV BECKLEY	81	63	87	60	72	2	1.28	0.22	0.55	10.03	131	35.71	147	100	64	0	0	4	1		
WV CHARLESTON	85	66	90	61	75	0	0.89	-0.27	0.56	13.89	182	35.00	143	100	62	1	0	5	1		
WV ELKINS	83	60	90	55	72	2	1.99	0.97	1.94	13.40	166	32.61	126	99	54	1	0	4	1		
WV HUNTINGTON	86	67	92	60	76	1	0.99	-0.08	0.80	8.73	120	30.36	125	98	56	1	0	4	1		
WI EAU CLAIRE	83	60	94	51	72	0	0.09	-0.80	0.06	5.91	80	21.06	121	91	35	1	0	2	0		
WI GREEN BAY	81	59	87	52	70	0	0.16	-0.53	0.13	9.00	153	19.73	129	96	55	0	0	3	0		
WI MADISON	81	62	88	55	71	0	1.13	0.36	0.76	9.96	167	27.78	167	96	60	0	0	3	1		
WI MILWAUKEE	83	67	91	60	75	3	0.31	-0.49	0.16	3.90	85	19.53	108	81	44	2	0	3	0		
WY CASPER	87	59	100	52	73	2	0.46	0.18	0.24	3.50	139	6.80	82	74	27	2	0	2	0		
WY CHEYENNE	82	60	96	57	71	2	0.17	-0.30	0.09	2.29	61	6.78	73	81	39	3	0	4	0		
WY LANDER	85	62	98	59	74	2	0.76	0.80	0.82	4.48	207	10.49	120	82	26	3	0	2	1		
WY SHERIDAN	88	58	100	53	73	3	0.00	-0.15	0.00	4.61	153	8.57	90	83	34	2	0	0	0		

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 20 - 26, 1998

### HIGHLIGHTS

**Crop development remained ahead of normal in the Corn Belt, as warm weather continued to promote rapid growth. Rain relieved excessive dryness in some areas of the eastern Corn Belt, but caused additional flooding in the river bottoms of the lower Missouri and Ohio Valleys. Storms also delivered soaking rains in the central Great Plains, but the southern Plains received only a few isolated sprinkles with damaging winds and hail. Across the northern Great Plains and**

**Pacific Northwest, sunny weather promoted rapid crop development and aided the small grain harvest. Widely scattered showers brought slight relief from the heat in the Lower Mississippi Valley. Crops responded well to showers that replenished topsoil moisture along the eastern Gulf Coast and parts of the Southeast. Field activities progressed normally in California, where seasonable temperatures and dry weather provided ideal growing conditions for late developing crops.**

**Corn:** Rapid development in the Corn Belt and Great Plains was aided by seasonable temperatures and adequate moisture supplies. Corn in the silking stage or beyond advanced to 80 percent, 25 percentage points above the previous week and more than 1 week ahead of normal. Corn in the dough stage or beyond was less than 1 week ahead of normal, at 12 percent. The fair weather boosted crop conditions across most of the Corn Belt, although evidence of uneven growth became more pronounced where flooding and heavy rains had leached nitrogen from the soil. Dry weather in the northern Corn Belt had little adverse effect, but severe windstorms caused isolated damage. Triple digit temperatures quickly ripened fields in eastern Texas, where harvest continued. Along the western Gulf Coast, harvest was nearly complete.

**Soybeans:** Seventy-five percent of the Nation's soybeans were blooming compared with 58 percent the previous week and 56 percent normally blooming by this date. Thirty percent of the crop was setting pods, 1 week ahead of the 5-year average. Warm, sunny weather aided crop conditions across most of the Corn Belt. Rain in the Mississippi Delta significantly boosted crop conditions, especially east of the river. Conditions further deteriorated in the southern Atlantic Coast States due to hot, dry weather.

**All Wheat:** Eighty-seven percent of the winter wheat and 3 percent of the spring wheat has been harvested. Winter wheat harvest slowed as progress approached completion in the central Great Plains and eastern Corn Belt. In the northern Great Plains and Pacific Northwest, winter and spring wheat harvest was in the early stages, but gained momentum as dry weather prevailed. Nearly all of the spring wheat has headed except in Idaho, where development lagged slightly behind normal. Spring wheat conditions remained nearly unchanged, despite dry weather that stressed fields in some areas.

**Cotton:** Crop development advanced to 92 percent squaring and 73 percent setting bolls. Development remained 2 to 3 weeks behind normal in California, despite warm, sunny weather that promoted rapid growth. Conditions improved in the eastern Gulf Coast due to additional rainfall. In the southern Great Plains, conditions continued to deteriorate due to extreme heat and excessive dryness. The hot weather caused plants to drop small bolls in the Texas Blacklands. Heat rapidly opened bolls in southern Texas, where harvest activity increased.

**Rice:** Forty-three percent of the crop has headed, slightly more than normal for this date. Harvest began in the southern Mississippi Delta and western Gulf Coast areas, where hot weather sped ripening. Hot, dry weather caused conditions to decline in Arkansas, but rain relieved stress in other parts of the Mississippi Delta. Warm weather aided crop development in California, but progress lagged slightly behind the 5-year average.

**Other small grains:** Oat harvest accelerated in the Corn Belt, as hot weather quickly ripened the crop, and dry weather permitted nearly uninterrupted combining for most of the week. Dry weather quickly dried ripening barley fields and allowed harvest to begin in the northern Great Plains and Pacific Northwest, with 4 percent of the crop harvested.

**Other crops:** Rain substantially improved peanut conditions in southeast Alabama and northern Florida, while nearby Georgia peanut fields remained very dry. Rain also relieved dry conditions in the mid-Atlantic peanut-producing region. Sorghum headed, at 43 percent, was less than 1 week ahead of normal. However, progress was more advanced in the Mississippi Delta and to a lesser extent, in the western Corn Belt. Sorghum turning color was 20 percent, equal to the 5-year average.

# Crop Progress and Condition

Week Ending July 26, 1998

Soybeans Percent Blooming				
	Jul 26 1998	Prev Week	Prev Year	5-Yr Avg
AL	40	36	33	40
AR	56	41	34	38
GA	60	40	54	48
IL	72	46	70	57
IN	68	49	63	60
IA	90	77	83	69
KS	80	66	72	51
KY	40	25	18	38
LA	93	84	80	70
MI	69	45	47	43
MN	93	78	75	65
MS	92	85	59	62
MO	62	44	59	43
NE	80	67	71	58
NC	40	25	27	27
OH	78	60	75	63
SC	31	27	33	31
SD	72	57	58	50
TN	40	23	31	35
ALL	75	58	65	56

These 19 States planted 93% of last year's soybean acreage.

Winter Wheat Percent Harvested				
	Jul 26 1998	Prev Week	Prev Year	5-Yr Avg
AR	100	100	100	100
CA	92	85	99	98
CO	95	90	94	80
GA	100	100	100	100
ID	5	0	4	6
IL	99	99	97	96
IN	100	99	87	93
KS	100	100	100	96
MI	97	90	56	53
MO	100	100	100	94
MT	14	0	9	3
NE	92	73	85	71
NC	100	100	100	98
OH	100	100	78	91
OK	100	100	100	100
OR	9	1	26	21
SD	79	45	20	30
TX	100	100	100	99
WA	22	8	5	15
ALL	87	83	82	80

These 19 States planted 91% of last year's winter wheat acreage.

Corn Percent Silking				
	Jul 26 1998	Prev Week	Prev Year	5-Yr Avg
CO	60	25	28	29
GA	99	98	100	100
IL	81	54	67	64
IN	71	45	35	51
IA	84	49	62	44
KS	99	80	86	76
KY	83	62	58	73
MI	67	33	13	25
MN	95	82	64	54
MO	88	75	80	63
NE	87	67	64	54
NC	85	80	90	94
OH	57	26	19	36
PA	52	37	27	37
SD	54	16	19	19
TX	94	91	86	87
WI	76	47	24	25
ALL	80	55	54	51

These 17 States planted 90% of last year's corn acreage.

Soybeans Percent Setting Pods				
	Jul 26 1998	Prev Week	Prev Year	5-Yr Avg
AL	25	17	12	14
AR	18	11	6	13
GA	26	15	24	22
IL	20	8	16	15
IN	22	7	14	10
IA	50	22	26	25
KS	32	12	19	13
KY	17	10	6	12
LA	63	47	53	40
MI	27	14	0	5
MN	38	23	14	16
MS	67	57	36	33
MO	20	9	14	10
NE	20	6	8	13
NC	10	0	9	6
OH	25	13	13	14
SC	14	12	17	12
SD	31	26	22	16
TN	17	7	8	10
ALL	30	16	17	16

These 19 States planted 93% of last year's soybean acreage.

Oats Percent Harvested				
	Jul 26 1998	Prev Week	Prev Year	5-Yr Avg
IA	66	15	29	34
MI	41	6	0	4
MN	26	3	0	5
NE	70	27	75	55
ND	4	0	0	0
OH	33	16	14	24
PA	21	5	27	20
SD	29	12	12	11
WI	32	14	2	7
ALL	30	9	11	13

These 9 States planted 57% of last year's oat acreage.

Corn Percent Dough				
	Jul 26 1998	Prev Week	Prev Year	5-Yr Avg
CO	1	0	0	1
GA	91	90	93	95
IL	17	7	4	9
IN	15	6	1	3
IA	0	0	0	0
KS	32	13	29	21
KY	24	0	0	18
MI	0	0	0	0
MN	0	0	0	0
MO	37	22	26	21
NE	4	0	2	5
NC	61	50	61	70
OH	8	3	0	2
PA	2	0	0	1
SD	8	0	1	1
TX	76	68	56	65
WI	0	0	0	0
ALL	12	6	6	8

These 17 States planted 90% of last year's corn acreage.

# Crop Progress and Condition

Week Ending July 26, 1998

## Cotton Percent Squaring

	Jul 26 1998	Prev Week	Prev Year	5-Yr Avg
AL	97	93	86	93
AZ	99	96	100	100
AR	100	100	100	100
CA	55	45	100	99
GA	99	95	96	98
LA	100	100	100	100
MS	100	100	96	99
MO	100	100	99	100
NM	95	92	100	94
NC	93	85	85	87
OK	93	80	93	91
SC	99	94	93	96
TN	100	98	100	100
TX	91	89	95	91
ALL	92	89	96	95

These 14 States planted 98% of last year's cotton acreage.

## Cotton Percent Setting Boils

	Jul 26 1998	Prev Week	Prev Year	5-Yr Avg
AL	80	60	48	64
AZ	96	28	95	90
AR	96	86	77	83
CA	9	5	66	66
GA	90	77	76	82
LA	97	96	90	94
MS	100	96	81	84
MO	96	91	67	73
NM	70	42	83	65
NC	61	45	54	64
OK	65	*43	16	36
SC	70	54	46	66
TN	84	55	66	77
TX	66	57	48	49
ALL	73	61	61	65

These 14 States planted 98% of last year's cotton acreage.

## Rice Percent Headed

	Jul 26 1998	Prev Week	Prev Year	5-Yr Avg
AR	33	24	11	24
CA	0	0	9	3
LA	82	82	65	65
MS	50	38	50	45
TX	90	80	55	71
ALL	43	37	28	34

These 5 States planted 96% of last year's rice acreage.

## Sorghum Percent Headed

	Jul 26 1998	Prev Week	Prev Year	5-Yr Avg
AR	83	74	45	60
CO	4	2	11	8
IL	9	5	15	12
KS	32	19	21	17
LA	82	78	77	83
MS	94	86	89	80
MO	59	38	37	31
NE	16	1	9	12
NM	1	0	3	6
OK	16	11	14	26
SD	15	11	14	10
TX	71	62	66	73
ALL	43	33	35	37

These 12 States planted 99% of last year's sorghum acreage.

## Sorghum Percent Coloring

	Jul 26 1998	Prev Week	Prev Year	5-Yr Avg
AR	17	10	5	18
CO	0	0	0	0
IL	0	0	0	1
KS	2	0	0	0
LA	28	19	19	26
MS	23	17	38	30
MO	4	0	1	1
NE	0	0	0	0
NM	0	0	0	0
OK	4	2	3	7
SD	0	0	1	0
TX	55	49	49	58
ALL	20	17	17	20

These 12 States planted 99% of last year's sorghum acreage.

## Peanuts Percent Pegging

	Jul 26 1998	Prev Week	Prev Year	5-Yr Avg
AL	85	80	78	78
FL	80	66	98	NA
GA	95	87	91	96
NC	80	70	76	49
OK	91	90	90	79
SC	70	60	63	37
TX	70	57	66	74
VA	95	82	68	NA
ALL	85	76	81	81

These 8 States planted 99% of last year's peanut acreage.

## Barley Percent Headed

	Jul 26 1998	Prev Week	Prev Year	5-Yr Avg
ID	89	80	98	93
MN	99	98	98	98
MT	99	91	97	94
ND	99	95	93	92
SD	100	100	98	98
WA	100	100	100	100
ALL	98	93	96	94

These 6 States planted 83% of last year's barley acreage.

## Barley Percent Harvested

	Jul 26 1998	Prev Week	Prev Year	5-Yr Avg
ID	3	NA	1	2
MN	4	NA	0	2
MT	1	NA	0	0
ND	4	NA	0	0
SD	17	NA	2	5
WA	12	NA	0	9
ALL	4	NA	NA	1

These 6 States planted 83% of last year's barley acreage.

## Spring Wheat Percent Headed

	Jul 26 1998	Prev Week	Prev Year	5-Yr Avg
ID	91	81	98	94
MN	99	99	96	97
MT	99	94	97	94
ND	98	91	94	89
SD	100	100	97	99
ALL	98	94	95	93

These 5 States planted 96% of last year's spring wheat acreage.

## Spring Wheat Percent Harvested

	Jul 26 1998	Prev Week	Prev Year	5-Yr Avg
ID	0	NA	0	1
MN	3	NA	0	1
MT	1	NA	0	0
ND	1	NA	0	0
SD	14	NA	2	3
ALL	3	NA	NA	1

These 5 States planted 96% of last year's spring wheat acreage.

# Crop Progress and Condition

Week Ending July 26, 1998

Soybeans Crop Condition by Percent					
	VP	P	F	G	EX
AL	5	8	63	20	4
AR	8	18	41	28	5
GA	37	26	28	9	0
IL	4	9	23	48	16
IN	3	6	26	50	15
IA	2	6	19	49	24
KS	0	3	23	57	17
KY	1	6	24	52	17
LA	9	25	32	32	2
MI	4	9	34	47	6
MN	1	4	22	53	20
MS	2	8	25	55	10
MO	3	15	32	41	9
NE	1	3	16	58	22
NC	7	11	42	37	3
OH	2	6	25	51	16
SC	16	27	42	15	0
SD	0	1	13	55	31
TN	1	6	23	56	14
ALL	3	8	25	48	16
Prev Wk	3	9	27	47	14
Prev Yr	2	7	29	50	12

Corn Crop Condition by Percent					
	VP	P	F	G	EX
CO	1	7	25	47	20
GA	42	22	17	18	1
IL	3	8	28	45	16
IN	3	7	26	51	13
IA	3	7	21	46	23
KS	1	3	23	59	14
KY	1	2	21	59	17
MI	6	18	33	38	5
MN	1	3	17	52	27
MO	1	12	31	43	13
NE	1	3	14	61	21
NC	15	30	31	23	1
OH	2	6	25	50	17
PA	3	6	23	57	11
SD	0	1	8	56	35
TX	24	31	28	17	0
WI	1	3	17	43	36
ALL	3	7	22	48	19
Prev Wk	4	7	23	47	19
Prev Yr	2	6	24	51	17

Cotton Crop Condition by Percent					
	VP	P	F	G	EX
AL	5	13	64	17	1
AZ	5	16	43	26	10
AR	0	14	37	38	11
CA	0	15	55	30	0
GA	16	25	30	22	7
LA	2	8	33	54	3
MS	2	4	23	58	13
MO	0	17	16	43	24
NM	0	12	30	38	20
NC	3	14	20	58	5
OK	6	14	34	37	9
SC	9	22	42	27	0
TN	1	5	21	53	20
TX	25	28	27	19	1
ALL	13	20	32	30	5
Prev Wk	13	19	34	29	5
Prev Yr	3	11	31	45	10

Sorghum Crop Condition by Percent					
	VP	P	F	G	EX
AR	3	17	39	39	2
CO	0	7	26	59	8
IL	0	10	34	54	2
KS	1	4	25	61	9
LA	2	14	39	43	2
MS	1	8	25	59	7
MO	1	8	27	44	20
NE	0	2	24	66	8
NM	22	58	13	7	0
OK	12	16	34	37	1
SD	0	2	13	76	9
TX	22	29	34	14	1
ALL	9	15	28	42	6
Prev Wk	8	13	29	44	6
Prev Yr	1	7	29	50	13

Oats Crop Condition by Percent					
	VP	P	F	G	EX
IA	2	11	32	44	11
MI	4	17	46	32	1
MN	1	5	31	49	14
NE	3	5	18	64	10
ND	0	3	41	50	6
OH	0	6	29	58	7
PA	0	4	31	56	9
SD	0	1	12	63	24
WI	0	3	22	58	17
ALL	1	5	29	53	12
Prev Wk	1	4	25	57	13
Prev Yr	3	7	31	49	10

Peanuts Crop Condition by Percent					
	VP	P	F	G	EX
AL	7	29	30	33	1
FL	0	0	14	86	0
GA	10	20	37	27	6
NC	0	2	3	89	6
OK	0	14	47	37	2
SC	21	32	35	12	0
TX	4	12	39	34	11
VA	0	3	20	57	20
ALL	6	15	32	40	7
Prev Wk	7	14	36	36	7
Prev Yr	1	6	29	54	10

Barley Crop Condition by Percent					
	VP	P	F	G	EX
ID	0	0	7	65	28
MN	3	10	37	46	4
MT	1	13	47	32	7
ND	1	6	26	51	16
SD	0	1	8	59	32
WA	0	5	37	53	5
ALL	1	7	30	48	14
Prev Wk	1	6	23	52	18
Prev Yr	2	9	30	50	9

Spring Wheat Crop Condition by Percent					
	VP	P	F	G	EX
ID	0	0	8	66	26
MN	3	8	33	52	4
MT	3	7	34	50	6
ND	1	5	32	50	12
SD	0	1	12	59	28
ALL	2	5	29	52	12
Prev Wk	1	6	30	49	14
Prev Yr	2	11	37	44	6

Rice Crop Condition by Percent					
	VP	P	F	G	EX
AR	2	5	36	45	12
CA	0	0	30	70	0
LA	0	3	32	53	12
MS	0	5	29	55	11
TX	0	1	46	53	0
ALL	1	3	35	52	9
Prev Wk	1	5	31	52	11
Prev Yr	0	2	31	58	9

VP - Very Poor

P - Poor

F - Fair

G - Good

EX - Excellent

\* Revised

## 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/oc/waob/jawf>.*

**ALABAMA:** Days suitable for fieldwork 5.6. Topsoil 7% very short, 43% short, 50% adequate. Corn dented 68%, 59% 1997, 62% avg. Peanuts pegging 85%, 78% 1997, 78% avg. Soybeans blooming 40%, 33% 1997, 40% avg. Corn 24% very poor, 26% poor, 37% fair, 12% good, 1% excellent. Cotton 5% very poor, 13% poor, 64% fair, 17% good, 1% excellent. Soybean 5% very poor, 8% poor, 63% fair, 20% good, 4% excellent. Livestock 1% very poor, 10% poor, 63% fair, 23% good, 3% excellent. Pasture feed 4% very poor, 17% poor, 54% fair, 23% good, 2% excellent. Harvest of fruits, vegetables is under full-swing. Armyworms were found in some hay fields across the State.

**ALASKA:** Days suitable for fieldwork 2.5. Topsoil 5% short, 95% adequate. Subsoil moisture 35% short, 65% adequate. Scattered showers across the Tanana Valley, Kenai delayed the hay harvest. Daytime high temperatures upper 50's to the low 80's degrees Fahrenheit. Barley crop 25% headed, 75% in dough; 65% poor, 30% fair, 5% good. Oats 5% boot, 45% headed, 50% dough; 40% poor, 30% fair, 30% good. Wind, rain damage to small grains, 95% none, 5% light. Average height of potatoes 14.0 in.; acreage in bloom 30%; 35% fair, 55% good, 10% excellent. Grass hay crop 70% harvested. General crop growth 5% slow, 75% moderate, 20% rapid.

**ARIZONA:** Cotton progress is catching up to normal but is still slightly behind. As of July 19, virtually all cotton was reported as squaring compared with 100% for last year and the 5-year average. Alfalfa harvest activity was reported as 30% not being harvested, 3% light, 2% moderate, and 65% active. Alfalfa condition was reported as 3% poor, 23% fair, 56% good, 18% excellent. Scattered, heavy rains limited harvest, caused some damage. Recent rains have caused range and pasture condition to continue to improve. Central, western growers harvested grapes and melons last week. Central harvested an assortment of melons, including cantaloupe, honeydew, watermelon, a light volume of canary, casaba, orange flesh, santa claus, specialty melons. Melon shipments from western area producers included canary, cantaloupe, honeydew and watermelons. Grape shipments included seedless flames, perlettes, Thompsons. Central, western areas groves shipped a small volume of grapefruit last week.

**ARKANSAS:** Days suitable for fieldwork 6.5. Soil moisture 27% very short, 48% short, 25% adequate. Temperatures 5 to 10 degrees above normal for the week. Widely scattered showers and thunderstorms occurred over parts of State, bringing slight relief from the heat. A heat advisory was in effect for most of the week over southern areas. Main farming activities included spraying rice for insects, spraying cotton for bollworms, weevils, cultivating, spraying soybeans for weeds and crop irrigation. Other farm activities included scouting, applying nitrogen to rice, bush hogging pastures, fertilizing and harvesting hay, spraying soybeans for insects. Corn 6% very poor, 11% poor, 34% fair, 45% good, 4% excellent. Alfalfa 4% very poor, 15% poor, 47% fair, 33% good, 1% excellent. Other hay 4% very poor, 22% poor, 47% fair, 27% good. Range, pasture feed 10% very poor, 28% poor, 42% fair, 20% good.

**CALIFORNIA:** Field activities progressed normally under ideal conditions in most areas; however, development of most crops remained 2 to 3 weeks behind normal. Grain harvests of wheat, barley, oats were rapidly nearing completion in the San Joaquin, Sacramento Valleys, coastal valley. Small grain stubble was baled for straw, plowed under or burned. Growers continued to plant silage corn, following small grain harvest in central, northern counties. Corn silage harvest gained momentum in the San Joaquin Valley. Harvest of corn for grain was underway in southern counties. Rice was growing well, with some fields developing panicles. Many rice growers were still spraying heavily for weeds. Cotton showed good growth, although development remained 2 to 3 weeks behind normal in most fields. Cotton growers were cultivating, weeding and treating fields for aphids, lygus, mites, worms. Seed alfalfa was sprayed for lygus and mites. Blackeye beans were

blooming and setting pods. Safflower was in full bloom in most areas. Sugar beets were treated for weeds in the San Joaquin Valley. Alfalfa, sudangrass fields were cut for hay or greenchopped. Many alfalfa fields were sprayed for worms. Harvest activities dominated fruit growers' work. Picking of table grapes in the San Joaquin Valley continued last week in southern Kern County. Grape growers also treated vineyards to control fungus, worms, mites. In the Coachella Valley, harvest of grapes for fresh use continued. San Joaquin Valley stone fruit growers were actively picking nectarines, plums, apricots and freestone peaches. Growers were concerned about wind scarring, hail marks, and split pits. Bartlett pear harvest began in the Sacramento-San Joaquin area. Early varieties of clingstone peaches were also picked. Almond growers applied insecticides to control mites, navel orange worms. Walnut growers whitewashed trees for sunburn protection. Harvest of lemons in the southern coast area, grapefruit, valencia oranges remained active. Central valley strawberry season came to a close as some fields were being prepared for fall planting. Insect pressure was high on all vegetable crops. Lettuce harvest continued in the coastal areas. Onion, garlic yields were diminished by widespread fungus problems. Onions, garlic were also being harvested in the San Joaquin, Sacramento Valleys. Central coast area peppers were thriving; those fields on drip irrigation exhibited the most vigorous growth. Squash harvest came to a close in the southern San Joaquin Valley, while harvest continued in the northern part of the valley. Cantaloupe, honeydew, watermelon harvests increased in volume in the San Joaquin Valley, as melon harvests began in the southern Sacramento Valley. Sweet corn harvest continued in the valleys. Large export shipments of fresh tomatoes were leaving the southern San Joaquin Valley as harvest continued. Fresh tomato harvest was getting underway in the northern areas, in the Sacramento Valley. Processing tomatoes were harvested in most parts of the San Joaquin Valley. The Sacramento Valley and central coast areas were awaiting harvest; crop progress was good. Other vegetables harvested included eggplant, chile and bell peppers, snap beans, various herbs, cucumbers, beets, turnips, radishes, okra and exotic vegetables. Pasture, rangeland remained in generally good condition. Condition, quantity of feed were above normal for this time of year. At lower elevations, there was a very high danger of range fires from the surplus of dry grasses, other vegetation. Lowland pastures were irrigated. Cattle were moved to high-elevation ranges or to irrigated pastures as high temperatures, further dried the lower elevation grazing land. Bees continued to pollinate seed alfalfa, melon fields.

**COLORADO:** Days suitable for fieldwork 4.4. Topsoil 9% very short, 27% short, 62% adequate, 2% surplus. Subsoil moisture 13% very short, 30% short, 56% adequate 1% surplus. The week began with above-average temperatures. By the middle of week, State experienced cooler weather with evening thunderstorms. Eastern Plains, Front Range received heavy rains, with some flooding, hail on 25th. Spring barley 78% turning color, 77% 1997, 60% avg.; 15% harvested, 24% 1997, 13% avg.; 6% poor, 19% fair, 51% good, 24% excellent. Oats 71% turning color, 73% 1997, 68% avg.; 33% harvested, 53% 1997, 33% avg.; 8% poor, 21% fair, 55% good, 16% excellent. Dry onions 1% poor, 7% fair, 73% good, 19% excellent. Sugarbeets 2% poor, 16% fair, 65% good, 17% excellent. Summer potatoes 2% poor, 6% fair, 74% good, 18% excellent. Fall potatoes 7% poor, 14% fair, 49% good, 30% excellent. Dry beans 44% flowered, 47% 1997, 41% avg.; 1% very poor, 3% poor, 13% fair, 43% good, 40% excellent. Alfalfa 45% 2nd cutting, 55% 1997, 49% avg.; 6% poor, 26% fair, 53% good, 15% excellent. Winter wheat 98% ripe, 98% 1997, 97% avg. Spring wheat 60% turning color, 43% 1997, 45% avg.; 13% harvested, 0% 1997, 6% avg.; 6% poor, 21% fair, 44% good, 29% excellent. Livestock in mostly fair to good condition.

**DELAWARE:** Days suitable for fieldwork 7.0. Topsoil moisture 3% very short, 50% short, 47% adequate. Subsoil moisture 25% short, 75% adequate. Soybeans 20% bloomed, 40% 1997, 35% avg.; 10% setting pods, 6% 1997, 5% avg.; 2% poor, 17% fair, 65% good, 16% excellent. Apples 2% fair, 96% good, 2% excellent. Peaches 28% harvested, 17% 1997, 25% avg.; 1% fair, 97% good, 2% excellent. Sorghum 19% headed, 8% 1997,

12% avg.; 11% fair, 85% good, 4% excellent. Sweet corn 30% harvested, 28% 1997, 35% avg. Watermelons 20% harvested, 11% 1997, 12% avg. Cucumbers 36% harvested, 43% 1997, 44% avg. Snap beans 22% harvested, 14% 1997, 39% avg. Lima beans 20% harvested, 7% 1997, 8% avg. Tomatoes 11% harvested, 16% 1997, 18% avg. Potatoes 29% harvested, 27% 1997, 30% avg. Field corn 70% silked, 32% 1997, 67% avg.; 14% dough, 2% 1997, 5% dough, 1% 1997, 1% avg; 25 very poor, 6% poor, 26% fair, 57% good, 9% excellent. Alfalfa 97% 2nd cutting harvested, 93% 1997, 93% avg.; 36% 3rd cutting harvested, 10% 1997, 21% avg. Other hay 94% 2nd cutting harvested, 84% 1997, 78% avg.; 60% 3rd cutting, 4% 1997, 13% avg. Hay 2% short, 98% adequate. Pasture feed 13% poor, 56% fair, 31% good. Activities: Corn, topsoil moisture still at risk due to dry weather.

**FLORIDA:** Topsoil moisture supplies improved as showers covered most areas. Moisture ratings ranged from short to surplus, with most adequate. Cotton, peanuts improving due to recent rains. Scattered showers, warm temperatures continued. Rainfall ranged from about 0.20 in. at Jacksonville to about 1.66 in. at Orlando. Most temperatures averaged 1 degree Fahrenheit above normal. Daytime highs 90's, nighttime lows 70's degrees Fahrenheit. Some pastures dramatically improved; some haying slowed due to rains. Eighty percent of peanuts pegging. Peanut fair 14%, good 86%. Land preparation for fall vegetable planting getting underway in some southern Peninsula areas. Tomato transplanting around Quincy active. Harvesting of summer vegetables for local market continues. Summer weather with rain, hot temperatures, irrigation generally discontinued. Abundant new growth in most well-cared-for citrus groves. New crop fruit making good progress. Caretakers cutting cover crops, removing vines, pushing, burning dead trees, some fertilizing with a little spraying. Pasture feed poor 5%, fair 55%, good 30%, excellent 10%. Cattle fair 60%, good 30%, excellent 10%. Pastures continue to improve in most areas. Normal daily rains have fallen. Northern, central areas: Armyworms, loopers infesting pastures, some ranchers spraying to control them. Condition of cattle statewide slightly improved.

**GEORGIA:** Days suitable for fieldwork 5.9. Soil moisture 28% very short, 41% short, 30% adequate; 1% surplus. Corn 77% dent, 75% 1997, 79% avg.; 33% mature, 34% 1997, 37% avg.; 3% harvested for grain, 3% 1997, 2% avg. Hay 21% very poor, 34% poor, 28% fair, 16% good, 1% excellent. Peanuts 99% blooming, 99% 1997, 100% avg. Sorghum 11% very poor, 35% poor, 37% fair, 17% good; 99% planted, 99% 1997, 99% avg. Soybeans 98% planted, 100% 1997, 100% avg.; 93% emerged, NA 1997, NA avg. Tobacco 5% very poor, 14% poor, 43% fair, 36% good, 2% excellent; 29% harvested, 58% 1997, 49% avg. Watermelons 94% harvested, 83% 1997, 89% avg. Apples 2% very poor, 2% poor, 9% fair, 87% good; 2% harvested, 2% 1997, 3% avg. Peaches 21% very poor, 20% poor, 30% fair, 20% good, 9% excellent; 89% harvested, 95% 1997, 93% avg. Pecans 18% very poor, 25% poor, 39% fair, 17% good, 1% excellent. Scattered showers provided temporary relief to some areas. Most localities still need rain. Most non-irrigated corn lost or abandoned. Heavily irrigating peanuts, cotton. Extreme heat still causing severe problems in pasture, hay production; however, rain helpful. Cattlemen continue feeding hay in dry pastures. Tobacco harvesting continues. Large population of Aphids in cotton. Weed, insect control active, insects rapidly increasing in peanuts, tobacco. Activities: Spraying fungicides, herbicides, insecticides to cotton, peanuts, harvesting watermelons, peaches, other vegetables, routine care of livestock.

**HAWAII:** Days suitable for fieldwork 7.0. Mostly sunny, dry days with occasionally gusty winds fair for agriculture. Banana supplies heavy; harvesting very active on major producing islands. Orchard conditions mostly good. Papaya production active, increasing in some areas. Summer weather beneficial for most orchards. Most plantings in good condition. Yields hampered in some areas by wind damage and disease. Watermelon harvesting active. Most vegetables in fair to good condition. Head cabbage progressing well. Harvesting active, yields, quality reportedly good. Tomato supplies increasing in some areas. Cucumber harvesting steady.

**IDAHO:** Days suitable for fieldwork 6.9. Topsoil 72% adequate, 25% short, 3% very short. Grasshopper problems, thrip in barley fields. Temperatures near century mark across State. Alfalfa hay first cutting 99%, 1997 100% avg. 99%; second cutting 46%, 1997 43%, avg. 37%; third cutting 1%, 1997 1%, avg. none. Irrigation supply 40% excellent, 59% good, 1% fair. Cherries harvested 100%, 1997 100%, avg. 99%. Mint harvested 7%, 1997 7%, avg.

17%. Lentils harvested 5%, 1997 none, avg. 2%. Dry peas harvested 14%, 1997 7%, avg. 7%. Oats harvested 1%, 1997 5%, avg. 4%. Peaches harvested 2%, 1997 14%, avg. 15%. Potatoes 12" high 94%, 1997 95%, avg. 95%; closing middles 77%, 1997 88%, avg. 78%. Barley turning color 43%. Spring wheat turning color 54%. Winter wheat turning color 86%. Activities: haying, irrigating, spraying potatoes for late blight, harvesting peaches, mint, dry peas, preparing equipment for harvest.

**ILLINOIS:** Days suitable for fieldwork 5.3. Topsoil 1% very short, 15% short, 70% adequate, 14% surplus. Spotty rains combined with hot weather made a noticeable impact on topsoil moisture ratings last week. This marks the first week since early March that percent surplus fell below 20 percent statewide. The warm weather last week continued to promote rapid crop development as the maturity of the corn and soybean crops are well ahead of their respective five-year averages. Farmers made good progress harvesting the oat crop last week. Activities last week included planting soybeans for the first time for some farmers in the west, southeast districts, baling hay, moving grain, scouting for insects, attending fairs. Oats turning yellow 99%, 96% 1997, 91% avg.; ripe 89%, 66% 1997, 62% avg.; harvested 43%, 23% 1997, 30% avg. Alfalfa hay 1% very poor, 3% poor, 25% fair, 57% good, 14% excellent; 2nd cutting 88%, 81% 1997, 76% avg.; 3rd cutting 16%, 6% 1997, 9% avg.

**INDIANA:** Days suitable for fieldwork 4.0. Topsoil 5% short, 64% adequate, 31% surplus. Subsoil 6% short, 68% adequate, 26% surplus. Substantial rainfall was received across most of the state during the past week. The moisture was a welcome sight in northern areas where conditions were becoming dry. River bottom land, as well as some areas that received the heaviest rains were flooded once again. The recent hot, sunny weather combined with ample soil moisture has allowed corn and soybeans to progress ahead of normal. Range and pasture condition 1% very poor, 4% poor, 25% fair, 56% good, 14% excellent. Second cutting of alfalfa 81% complete, 51% 1997, 67% avg. Activities: Cutting alfalfa, spraying, cultivating crops, baling straw, attending 4-H fairs, caring for livestock.

**IOWA:** Days suitable for fieldwork 5.8. Topsoil very short 2%, short 14%, adequate 77%, surplus 7%. Subsoil very short 1%, short 9%, adequate 81%, surplus 9%. Farmers in the Northern one-third of the state are still looking for rain. Southwestern two-thirds of the state is reporting uneven crop growth brought on by rapid development and loss of nitrogen. Oats are being harvested and farmers are reporting low test weights. "Green snap" continues to be a problem in corn. 1998 row crops: Corn tasseled 95%, 79% 1997, 59% avg.; silking 84%, 62% 1997, 44% avg.; milk stage 15%, 7% 1997, 8% avg. Corn 3% very poor, 7% poor, 21% fair, 46% good, 23% excellent. Soybeans blooming 90%, 83% 1997, 69% avg.; setting pods 50%, 26% 1997, 25% avg. Soybean 2% very poor, 6% poor, 19% fair, 49% good, 24% excellent. Oats harvested for grain 66%, 29% 1997, 34% avg. Oats 2% very poor, 11% poor, 32% fair, 44% good, 11% excellent. Second crop alfalfa harvested 72%, 68% 1997, 56% avg. Second crop clover harvested 30%, 40% 1997, 24% avg. All hay 4% poor, 26% fair, 52% good, 18% excellent. Pasture 1% very poor, 5% poor, 26% fair, 52% good, 16% excellent.

**KANSAS:** Days suitable for fieldwork 5.2. Topsoil 3% very short, 32% short, 55% adequate, 10% surplus. Subsoil 4% very short, 25% short, 70% adequate, 1% surplus. Fall crop conditions declined until many areas received rain and cooler temperatures late in the week. Sunflowers planted 99%, 100% 1997; emerged 98%, 99% 1997; bloom 43%. Sunflowers 2% poor, 28% fair, 64% good, 6% excellent. Second cutting alfalfa hay 98%, 99% 1997, 92% avg.; 3rd cutting 51%, 34% 1997, 28% avg. Major field activities were cutting hay, working stubble, cultivating, irrigating, fertilizing, hauling grain. Pasture feed 1% very poor, 6% poor, 35% fair, 51% good, 7% excellent. Pastures in some areas still need rain. Stockwater supplies 9% short, 90% adequate, 1% surplus.

**KENTUCKY:** Days suitable for fieldwork 4.0. Topsoil 4% short, 61% adequate, 35% surplus. Subsoil 2% short, 59% adequate, 39% surplus. Monday storms accounted for most of precipitation last week. Dry rest of the week. Less humid, milder weather ended the week. Low lying areas were flooded in eastern areas with some tobacco fields getting washed out. Scalding, wilting was a major problem for tobacco in low lying areas. Corn, soybeans continue growing rapidly due to favorable moisture. Limited insect problems, but threat of blue mold, black shank increasing. Burley tobacco

blooming or beyond 41%. Burley topped 19%, 9% 1997, 14% avg. Dark tobacco topped 45%, 26% 1997, 24% avg. Conditions of set tobacco 2% very poor, 11% poor, 34% fair, 42% good, 11% excellent. Hay 2% poor, 25% fair, 56% good, 17% excellent. Pasture feed 2% poor, 16% fair, 59% good, 23% excellent.

**LOUISIANA:** Days suitable for fieldwork 5.6. Soil moisture 29% very short, 30% short, 37% adequate, 4% surplus. Corn 25% very poor, 19% poor, 42% fair, 9% good, 5% excellent; 100% dough stage, 95% 1997, 96% avg.; 80% mature, 30% 1997, 43% avg.; 6% harvested, 1% 1997, 3% avg. Cotton condition remains good. Hay 97% 1st cutting, 98% 1997, 99% avg.; 27% final cutting, 50% 1997, 32% avg. Peaches 93% harvested, 98% 1997, 78% avg. Rice 31% ripe, 18% 1997, 16% avg.; 10% harvested, 6% 1997, 7% avg. Harvest is beginning with reported yields from below average to excellent. Severe red rice problems are reported in some southern parishes. Sorghum 1% ripe, 1% 1997, 3% avg. Some soybean fields are showing signs of stunted growth, still blooming, setting pods. Sugarcane 4% very poor, 9% poor, 29% fair, 41% good, 17% excellent. Sweet potatoes 4% very poor, 9% poor, 43% fair, 44% good; 0% harvested, 2% 1997, 1% avg. Livestock 7% very poor, 14% poor, 39% fair, 37% good, 3% excellent. Vegetables 24% very poor, 23% poor, 29% fair, 22% good, 2% excellent. Army worm infestations are from light to heavy in pastures. Producers are culling cow herds to relieve pasture pressure.

**MARYLAND:** Days suitable for fieldwork 6.0. Topsoil moisture 16% very short, 53% short, 31% adequate. Subsoil moisture 12% very short, 38% short, 50% adequate. Rye 99% harvested, 88% 1997, 92% avg. Field corn 1% very poor, 9% poor, 27% fair, 56% good, 7% excellent; 70% silked, 32% 1997, 58% avg.; 21% dough, 2% 1997, 11% avg.; 4% dent, 1% 1997, 1% avg. Soybeans 49% poor, 15% fair, 32% good, 4% excellent; 35% bloomed, 31% 1997, 28% avg.; 17% setting pods, 8% 1997, 5% avg. Sorghum 25% poor, 3% fair, 71% good, 1% excellent; 50% headed, 3% 1997, 12% avg. Tobacco 1% very poor, 16% poor, 41% fair, 34% good, 8% excellent; 47% bloomed, 40% 1997, 41% avg. Sweet corn 49% harvested, 28% 1997, 34% avg. Snap beans 46% harvested, 46% 1997, 47% avg. Lima beans 80% harvested, 0% 1997, 5% avg. Cucumbers 45% harvested, 39% 1997, 51% avg. Pasture feed 5% very poor, 16% poor, 38% fair, 39% good, 2% excellent. Apples 15% fair, 75% good, 10% excellent. Cantaloupe 46% harvested, 40% 1997, 43% avg. Watermelons 26% harvested, 13% 1997, 23% avg. Potatoes 60% harvested, 16% 1997, 42% avg. Tomatoes 21% harvested, 13% 1997, 24% avg. Peaches 14% fair, 78% good, 8% excellent, 39% harvested, 6% 1997, 17% avg. Other hay 75% 2nd cutting harvested, 59% 1997, 61% avg.; 45% 3rd cutting, 2% 1997, 7% avg. Alfalfa hay 99% 2nd cutting harvested, 92% 1997, 90% avg.; 27% 3rd cutting, 13% 1997, 24% avg. Hay supplies 1% very short, 11% short, 73% adequate, 15% surplus. Activities: Insect damage is rising on untreated crops. This week's extreme heat and lack of rain has caused crop condition to decline.

**MICHIGAN:** Days suitable for fieldwork 6.0. Topsoil moisture 32% very short, 44% short, 23% adequate, 1% surplus. Subsoil moisture 36% very short, 51% short, 12% adequate, 1% surplus. Hay 2nd cutting 75%, 50% 1997, 48% avg. Corn height 65 inches, 59 inches 1997, 57 inches avg. Drybeans blooming 43%, 61% 1997, 36% avg.; drybeans setting pods 10%, 7% avg. Oats turning yellow 89%, 61% 1997, 60% avg. Dry weather continued. Southern counties received between 1 and 4 inches rain early in week. Thumb, central area rain spotty, light. Precipitation next 7 to 10 days critical to yields, even plant survival in some areas. The dry weather ideal for completion of wheat harvest with good yields and test weights reported. Most other field crops suffering from dryness, especially northern, central areas. Second alfalfa cutting three-fourths complete, with dryness reducing yields and regrowth. Soybeans in good condition except driest areas. Drybeans doing well in most areas. Sugarbeets fairing best through dryness. Early potato harvest continued, vines laying down from heat. Cabbage harvest continued, with good quality, planting for fall harvest complete. Cantaloupes sizing well. Carrot growth slowed by hot weather. Cucumber volume was heavy. Pumpkin vines continued to size, with some wind damage reported Southeast. Sweet corn harvest underway. Tomato harvest for market increasing. Harvest of sweet cherries completed, cracking not as severe as anticipated. Shaking of tart cherries completed in western central area and about two-thirds done northwestern. Harvesting of Jersey blueberries began. Peach growers picking Red Havens, New Havens.

**MINNESOTA:** Days suitable for fieldwork 5.6. Topsoil 1% very short, 8% short, 80% adequate, 11% surplus. Corn 15% milk, 4% 1997, 4% avg. Spring wheat 81% turning ripe, 32% 1997, 40% avg. Oats 91% turning ripe, 74% 1997, 67% avg. Barley 82% turning ripe, 26% 1997, 43% avg. Rye 47% harvested, 10% 1997, 22% avg. Winter wheat 18% harvested, 3% 1997, 10% avg. Pasture feed 2% very poor, 6% poor, 24% fair, 57% good, 11% excellent. Sugar beets 2% very poor, 3% poor, 37% fair, 41% good, 17% excellent. Sunflowers 6% very poor, 13% poor, 39% fair, 40% good, 2% excellent. Dry beans 1% very poor, 3% poor, 50% fair, 38% good, 8% excellent. Little or no precipitation was recorded across large parts of the State, severe windstorms damaged corn and soybeans in the south central district. Corn pollination appears to be satisfactory, further moisture will help fill ears. Drier conditions have helped soybeans recover a healthy green color. Fair weather allowed the small grain harvest to make a good beginning from the southern Red River Valley southward.

**MISSISSIPPI:** Days suitable for fieldwork 5.4. Soil moisture 25% short, 69% adequate, 6% surplus. Corn 95% dough, 82% 1997, 84% avg.; 76% dent, 56% 1997, 44% avg.; 16% mature, 9% 1997, 9% avg.; 53% silage harvested 25% 1997, 19% avg.; 4% very poor, 19% poor, 46% fair, 27% good, 4% excellent. Rice 50% heading, 50% 1997, 45% avg.; 5% poor, 29% fair, 55% good, 11% excellent. Soybeans 92% blooming, 59% 1997, 62% avg.; 67% setting pods, 36% 1997, 33% avg.; 2% very poor, 8% poor, 25% fair, 55% good, 10% excellent. Peanuts, 70% pegging, 82% 1997, 16% avg.; 25% fair, 67% good, 8% excellent. Hay 67% harvested (warm season) 64% 1997, 71% avg.; 6% poor, 53% fair, 39% good, 2% excellent. Peaches 89% harvested, 73% 1997, 80% avg.; 18% fair, 63% good, 9% excellent. Sweet potatoes 65% fair, 35% good. Watermelons 70% harvested, 57% 1997, 63% avg.; 10% poor, 50% fair, 40% good. Blueberries 17% fair, 80% good, 3% excellent. Cattle 4% poor, 26% fair, 62% good, 8% excellent. Pasture feed 8% poor, 23% fair, 57% good, 12% excellent. Activities: Soybeans, cotton development continues to progress ahead of normal.

**MISSOURI:** Days suitable for fieldwork 5.9. Topsoil 4% very short, 28% short, 65% adequate, 3% surplus. Row crops in most areas will benefit from the past weekend rainfall, cooler temperatures. Several central, southern counties experienced heavy downpours which flooded crops along river bottoms, other low areas. Major row crops are developing ahead of 1997, normal. Prior to weekend showers, southwest, southeast were main areas of moisture shortage at 54%, 75% short to very short, respectively. Oats harvested 87%, 88% 1997, 79% avg. Second crop alfalfa cut 90%, 91% 1997, 78% avg.; 3rd crop alfalfa cut 19%, 9% 1997, 9% avg. Other hay cut 89%, 90% 1997, 86% avg. Precipitation past week avg 2.22 in., varying from less than 0.45 in. in northeast, north-central to over 3.50 in. in central, west-central, south-central. Many counties received from 4 to 8 in., resulting in flash flooding along rivers, creeks. Pasture feed 1% very poor, 9% poor, 35% fair, 50% good, 5% excellent

**MONTANA:** Days suitable for fieldwork 6.9. Topsoil 16% very short, 53% short, 30% adequate, 1% surplus. Subsoil 15% very short, 40% short, 44% adequate, 1% surplus. Hot weather has caused small grain crops to progress very quickly over the past week. Grasshoppers are still being reported in several areas of the state. Oats headed 97%, 92% 1997, 92% avg.; turning 58%, 30% 1997, 33% avg.; 1% very poor, 9% poor, 30% fair, 55% good, 5% excellent. First cutting alfalfa 94%, 91% 1997, 86% avg. Second cutting alfalfa 12%, 6% 1997, 6% avg. First cutting other hay 69%, 73% 1997, 67% avg.

**NEBRASKA:** Days suitable for fieldwork 5.2. Topsoil 2% very short, 24% short, 71% adequate, 3% surplus. Subsoil 2% very short, 19% short, 78% adequate, 1% surplus. Temperatures averaged near normals for the week, with triple digit highs recorded early in the week and sharply lower temperatures the last half. Precipitation of an inch or more recorded in most areas of the southern 2/3 of the State. Wheat 92% harvested, 85% 1997, 71% avg. Corn 1% very poor, 3% poor, 14% fair, 61% good, 21% excellent; silking 87%, 64% last year, 54% avg.; dough 4%, 2% 1998, 5% avg. Comments regarding pollination were positive, citing high humidity, lack of hot dry winds as having benefited the crop's development. Some stored corn going out of condition due to inadequate drying last fall. Soybean 1% very poor, 3% poor, 16% fair, 58% good, 22% excellent; 80% blooming, 71% 1997, 58% avg.; podding 20%, 8% 1997, 13% avg. Sorghum 2% poor, 24% fair, 66% good, 8% excellent; headed 16%, 9% 1997, 12% avg. Dry bean condition 6% poor, 37% fair, 49% good, 8% excellent; blooming 42%, 69%

1997, 53% avg. Oats 3% very poor, 5% poor, 18% fair, 64% good, 10% excellent; harvest 70%, 75% 1997, 55% avg. Alfalfa 1% very poor, 4% poor, 22% fair, 61% good, 12% excellent, 2nd cutting 86%, 76% 1997, 72% avg. Wild hay 1% very poor, 7% poor, 21% fair, 59% good, 12% excellent. Pasture feed 2% very poor, 6% poor, 17% fair, 62% good, 13% excellent. Herds being rotated to ungrazed pastures to allow for re-growth. Monitoring cattle for heat stress, some supplemental feeding in portions of the southwest. Activities: Weed control, working summer fallow, livestock care.

**NEVADA:** Warm, dry summer weather continued. Temperatures moderated in the south, averaged several degrees above normal northwest. Temperatures averaged near normal northeast. Only traces of precipitation were recorded across the State. Irrigation water continued to be in adequate supply most areas. Alfalfa growers made good progress with haying. First cutting of alfalfa was completed northeast, second cutting advanced in central, northwestern valleys. Alfalfa second crop condition very good, dry weather conditions benefitted hay quality. Grass hay harvest also continued with good crop condition. Small grains were ripening rapidly and corn was growing faster due to the warmer weather. Potatoes remain in good condition. Onions, garlic in good condition. Pasture and range condition mostly good. Main farm, ranch activities: Hay harvest, irrigating, fence repair, weed, pest control.

**NEW ENGLAND:** Days suitable for fieldwork 6.1. Topsoil 4% very short, 9% short, 67% adequate, 20% surplus. Subsoil 9% short, 70% adequate, 21% surplus. Pasture feed 1% poor, 32% fair, 52% good, 15% excellent. Maine potatoes <5% harvested, 0% 1997, 0% avg.; condition good. Massachusetts potatoes 5% harvested, <5% 1997, <5% avg.; condition good. Rhode Island potatoes condition good. Oats in Maine condition good. Barley in Maine condition good. Field corn 100% emerged, condition good to fair. Sweet corn 100% planted, 99% 1997, 100% avg.; 99% emerged, 35% harvested, 10% 1997, 15% avg.; condition good to fair. Shade tobacco 60% harvested, 20% 1997, 15% avg.; condition good to fair. Broadleaf tobacco 20% harvested, <5% 1997, <5% average, condition good to fair. First cut hay 90% harvested, 95% 1997, 95% avg.; condition fair to good. Second cut hay 40% harvested, 40% 1997, 30% avg.; condition good to fair. Apples set below average to average, size average; condition good to fair. Peaches 10% harvested, 0% 1997, 0% average, set average, size average; condition good to excellent. Pears set average, size average; condition good to excellent. Strawberries 100% harvested, 99% 1997, 99% avg.; set average, size average, condition good to fair. Cranberries petal fall, set average, size average, condition good to excellent. Highbush blueberries 40% harvested, 25% 1997, 30% avg.; set average to above average, size average; condition good to excellent. Wild blueberries set above average, size average to above average; condition excellent. The warm temperatures provided excellent crop conditions. Major farm activities: Harvesting highbush blueberries, string weaving tomatoes, hand weeding row vegetables, spreading manure, spraying herbicides and pesticides, cutting first, second cut hay.

**NEW JERSEY:** Days suitable for fieldwork 7. Weather has been a little dry. Sprays are working well in orchards, vegetable fields. Irrigation has been a must. Topsoil moisture is short. Farmers are harvesting, cutting hay, irrigating, spraying for disease, pests. Crop progress is at a normal pace. Feed requirements are average. Good volume of tomatoes, sweet corn, watermelons cantaloupe, cucumbers, peppers, all beans, green and yellow squas, eggplant. Moderate volume of beets, herbs, leeks, and turnips. Light, declining volume of parsley, spring greens, spring spinach, escarole, lettuce (Bib, Boston and iceberg). Most summer varieties are in good condition, although irrigation, spraying have been a necessity. Fruits, berries are continuing to size well. Harvest of Loring peaches is beginning. All peaches are increasing with a good volume; color and size are good. The blueberry harvest is winding down although a moderate volume still exists. Apples and cranberries are sizing well and ahead of normal. Crops are in need of rain. Harvesting of wheat is now completed. Soybeans, corn are progressing well, but need rain. The weather has been good for haying, such that farmers are up to their 2nd even 3rd cuttings. Pastures are in an average to dry condition.

**NEW MEXICO:** Days suitable for fieldwork 6.0 limited due to weather. Most of the state received some rainfall last week. Accumulated totals ranged from just a trace to over 3 inches. Temperatures ranged from a few degrees below normal to 5 degrees above normal in the eastern plains. The precipitation pushed topsoil moisture up slightly; 27% very short, 35% short,

36% adequate, 2% surplus. Cotton 12% poor, 30% fair, 38% good, 20% excellent; 95% squaring, 100% 1997, 94% avg.; 70% setting bolls, 83% 1997, 65% avg. Corn crop was 50% tasseled last week, 61% 1997; 5% in dough stage, 0% 1997; 1% very poor, 14% poor, 25% fair, 51% good, 9% excellent. With time running out sorghum plantings moved to 92% planted, 100% 1997, 100% avg.; condition 22% very poor, 58% poor, 13% fair, 7% good. Rain showers slowed alfalfa harvest; second cutting of alfalfa moved ahead slightly to 92% complete, 96% 1997; third cutting 62% complete, 74% 1997; condition 7% poor, 31% fair, 48% good, 14% excellent. The chile crop responded well to the recent weather; condition 4% poor, 21% fair, 59% good, 16% excellent; pod set 75% avg. Onion harvest progressed to 77% complete; condition remained good to excellent. Apples, pecans continued in good condition. Cattle, sheep conditions remained fair to good. Overall, range, pasture feed condition remained steady at 17% very poor, 29% poor, 38% fair, 15% good, 1% excellent.

**NEW YORK:** Days suitable for fieldwork 5.0. Soil moisture 7% short, 76% adequate, 17% surplus. Pasture feed 3% poor, 20% fair, 76% good, 1% excellent. Corn has tasseled, crop is excellent. Corn 15% fair, 55% good, 30% excellent. Wheat 90% harvested, 31% 1997, 48% avg. Sprouting a problem. Oats harvested 15%, 5% 1997, 12% av. Alfalfa second cutting 62%, 49% 1997, 46% avg. Tonnage, quality excellent. Cultivating dry beans. Vegetable harvests in full swing. Vegetable crops in good condition. Sweet corn harvest progressing. Tart cherry picking virtually complete. High winds hurt harvest. Grapes in good condition at bunch closure stage. Development ahead of normal.

**NORTH CAROLINA:** Days suitable for fieldwork 6.1. Soil moisture 29% very short, 41% short, 26% adequate, 4% surplus. Above normal temperatures, below normal precipitation were realized across the state, as drought-like conditions persist. Corn yield reductions have been reported. Likewise, without significant rainfall soybean, tobacco crops are expected to see yield reductions. The dry weather has allowed Irish potato harvest to near completion. Activities: Pest control in all crops; harvesting, irrigating tobacco; tending livestock. Reports of Granville wilt, black shank diseases in tobacco were received.

**NORTH DAKOTA:** Days suitable for fieldwork 7. Topsoil 8% very short, 34% short, 55% adequate, 3% surplus. Subsoil 7% very short, 23% short, 65% adequate, 5% surplus. Small grains were turning color rapidly, swathing of wheat, barley, oat fields was common throughout the State. Development of all crops remained one to two weeks ahead of average. Durum wheat was 68% milk, 39% 1997, 35% avg.; 24% turning, 7% 1997, 6% avg. Canola 34% turning, 6% 1997; 5% swathed, 0% 1997. Corn 73% tasseling, 55% 1997, 38% avg.; 14% milk, 3% 1997, 3% avg. Dry edible beans 47% podding, 28% 1997, 25% avg. Flaxseed 94% blooming, 85% 1997, 60% avg.; 14% turning, 2% 1997, 2% avg. Potatoes 89% rows filled, 68% 1997, 66% avg. Soybeans 85% blooming, 90% 1997, 64% avg.; 37% podding, 32% 1997, 28% avg. Sunflower 11% blooming, 5% 1997, 7% avg. Small grain crop conditions declined due to below normal precipitation as the crop approaches maturity. Conditions of late season crops, except dry edible beans, declined or were stable. Emerged crop condition: Durum 1% very poor, 3% poor, 25% fair, 62% good, 9% excellent; canola 1% very poor, 3% poor, 19% fair, 58% good, 19% excellent; corn 2% very poor, 8% poor, 35% fair, 45% good, 10% excellent; dry edible beans 1% very poor, 7% poor, 29% fair, 51% good, 12% excellent; flaxseed 3% poor, 23% fair, 61% good, 13% excellent; potatoes 3% poor, 18% fair, 52% good, 27% excellent; soybeans 4% very poor, 16% poor, 36% fair, 37% good, 7% excellent; sugar beets 2% very poor, 4% poor, 14% fair, 53% good, 27% excellent; sunflower 1% very poor, 8% poor, 28% fair, 50% good, 13% excellent. Stockwater supplies 2% very short, 9% short, 80% adequate, 9% surplus. Hay condition 64% of normal.

**OHIO:** Days suitable for fieldwork 4.2. Topsoil 1% very short, 8% short, 75% adequate, 16% surplus. Corn development stage for the State was 15 to 16 leaves; 13 to 14 leaves, 1997. Soybeans blooming 1 day ahead of last year, 6 days avg. Soybeans setting pods 25%, 13% 1997, 14% avg. Oats 83% ripe, 60% 1997, 81% avg.; 33% harvested, 14% 1997, 23% avg. Alfalfa hay 82% 2nd cutting, 64% 1997, 69% avg.; 10% 3rd cutting, 4% 1997, 3% avg. Other hay 57% 2nd cutting, 36% 1997, 42% avg.; 5% 3rd cutting, 2% 1997, 0% avg. Summer apples 56% harvested, 7% 1997, 14% avg. Peaches 35% harvested. Hay 3% very poor, 6% poor, 28% fair, 48% good, 15% excellent. Farm activities for the State include applying herbicides;

cutting, baling straw, hay; tilling wheat ground; mowing ditches, conservation reserve ground; submitting production evidence for 1998 wheat loan deficiency payments; plow, chisel set-up; installing tile; harvesting oats; storm clean up; scouting fields; hauling manure; maintenance, repair of equipment; spraying fence rows; building grain bins; moving cattle; irrigating vegetable crops; starting fall greenhouse crops; spreading fertilizer; picking tomatoes, sweet corn, pickles, peppers, squash, cucumbers, other fresh market crops; attending county fairs; completing 4-H projects. Weed pressure continues to be a problem throughout the state with reporters noting the following weeds: giant, common ragweed; Canadian thistles; sourdock; foxtail; broadleaves; velvetleaf; ironweed; Johnsongrass; cocklebur; yellow nutsedge. Reported insects were potato leafhopper in soybeans, alfalfa; gnats in tobacco; spittlebugs; Japanese beetles; weevils; aphids; army worms; corn root worm. Reported diseases were early blight on tomatoes; molds, mildews; phytophthora in soybeans; fruit rot on peppers; blue mold, target spot on tobacco. Producers who were beginning to feel drought stress were relieved to see the rain over the past week. Although the rain was welcome, there were reports of crop damage from storms. A Putnam county reporter mentioned cutting tree tops out of corn, soybean fields. Crop damage from high winds, storms were also reported in the counties of Huron, Lorain, Wayne, Darke, Clermont. Hail was reported in Sandusky, Wayne, Fayette counties. Most farmers are reporting good fruit, vegetable conditions. A Huron county reporter mentioned peaches were of good quality but too small to meet demand. Some of the fruit, vegetable crops were damaged by excessive rain from earlier this year, were replanted in the southern, southeastern part of the state. Most reporters mentioned good to excellent pasture conditions. Rain this past week has improved conditions in most areas of the state. Livestock are beginning to recover from the heat, humidity with the cooler temperatures of late last week. However, mosquitoes, face flies, horse flies are a problem this year. Problems with pinkeye, pneumonia were reported, as well as some livestock being killed by lightning in Morrow county.

**OKLAHOMA:** Days suitable for fieldwork 6.5. Topsoil 35% very short, 51% short, 14% adequate. Subsoil 26% very short, 46% short, 28% adequate. Prolonged hot, dry weather reduced subsoil moisture to lowest level since May 1996. Wheat plowed 77%, 81% 1997, 84% avg.; seedbed prepared 6%, 16% 1997, 7% avg. Oats plowed 78%, 66% 1997, 84% avg.; seedbed prepared 5%, 2% 1997, 1% avg. Corn 5% poor, 48% fair, 47% good; tasseled 99%, 57% 1997, 82% avg.; milk-to-soft 21%, 19% 1997, 33% avg.; mature 2%, 0% 1997, 4% avg. Soybeans 4% very poor, 22% poor, 32% fair, 40% good, 2% excellent; flowering 59%, 69% 1997, 52% avg.; setting pods 19%, 32% 1997, 24% avg. Peanuts setting pods 43%, 66% 1997, 49% avg. Alfalfa hay 2% very poor, 20% poor, 43% fair, 30% good, 5% excellent; 3rd cutting 61%, 41% 1997, 53% avg.; 4th cutting 5%, 0% 1997, 4% avg. Other hay 1st cutting 88%, 89% 1997, 95% avg.; 2nd cutting 3%, 12% 1997, 45% avg. Livestock 3% very poor, 5% poor, 29% fair, 62% good, 1% excellent. Feeder steer prices up \$1.00 per cwt. from the preceding week.

**OREGON:** Days suitable for fieldwork 6.9. Topsoil 14% short, 82% adequate, 4% surplus. Subsoil 1% very short, 15% short, 83% adequate, 1% surplus. Barley harvested 11%, 19% 1997, 19% average. Winter wheat harvested 9%, 26% 1997, 21% average. Spring wheat 2% harvested. Range, pasture feed 1% poor, 8% fair, 78% good, 13% excellent. Activities: Grain harvest progressing rapidly on eastside. Mint, grass seed harvest underway in Northeast. Irrigation, haying continued. On westside, producers busy with grass seed harvest, baling straw, haying. Wheat harvest started in Willamette Valley. Field corn tasseling, red clover in full bloom. Irrigation at nurseries heavy because of high temperatures. Easter lily growers hand weeding fields. Iris bulbs starting to be harvested in Willamette Valley. Most 1998 Christmas trees sold, growers now establishing what is available for harvest. Harvest of processing potatoes continued in northeast, start of fresh pack harvest grew closer. Green pea harvest continued. Spraying of preventative late blight applications reported. In Willamette Valley, harvest of snap beans, sweet corn, cucumbers, summer squash underway. Seeding, transplanting, fertilizing continued. Green pea harvest complete. Cucumber beetles in snap beans reported. In Willamette Valley, Marion variety of blackberries harvest at peak. Blueberries, raspberries continued to be harvested. Hot sunny weather has caused sun burning in raspberries, Marion variety of blackberries. Early transparent apples, peaches started to be harvested. In Rogue River Valley, peach harvest began, sprays being applied for codling moth, pear psylla, spider mites. On South Coast, blueberry harvest underway, cranberry bloom nearing the end. Livestock condition fair to mostly good, excellent in the northeast mountains. Eastside

continues to report good forage at higher elevations, although these ranges are starting to dry up. Lower elevation range, pasture drying rapidly unless irrigated. Western pastures also drying out under warm, dry weather.

**PENNSYLVANIA:** Days suitable for fieldwork 5.2. Soil moisture 8% very short, 33% short, 51% adequate, 8% surplus. Avg. corn height 59 in., 48 in. 1997, 58 in. avg. Barley 100% ripe, 99% 1997, 96% avg. Barley 100% harvested, 93% 1997, 87% avg. Wheat 5% poor, 25% fair, 60% good, 10% excellent. Oats 90% turning yellow, 88% 1997, 83% avg.; 56% ripe, 54% 1997, 46% avg. Alfalfa 2nd cutting 74% complete, 68% 1997, 64% avg. Alfalfa 3rd cutting 15% complete, 6% 1997, 3% avg. Timothy clover 1st 94% complete, 96% 1997, 95% avg. Timothy clover second cutting 32% complete, 29% 1997, 26% avg. Quality of hay made 2% very poor, 9% poor, 20% fair, 57% good, 12% excellent. Peach 5% very poor, 5% poor, 20% fair, 65% good, 5% excellent. Apple 2% very poor, 6% poor, 15% fair, 70% good, 7% excellent. Activities: Spraying field crops, fruit trees; cutting hay and haylage; harvesting winter wheat, oats; picking apricots, nectarines, peaches, early variety apples; machinery maintenance; fixing fences; hauling manure; caring for livestock.

**SOUTH CAROLINA:** Days suitable for fieldwork 6.2. Soil moisture 26% very short, 42% short, 32% adequate. Apples 42% poor, 24% fair, 34% good. Cantaloupes 93% harvested, 96% 1997, 85% avg.; 14% fair, 72% good, 14% excellent. Corn 100% silked, 99% 1997, 99% avg.; 90% doughed, 80% 1997, 87% avg.; 60% mature, 31% 1997, 40% avg.; 8% harvested, 5% 1997, 5% avg.; 30% very poor, 33% poor, 28% fair, 9% good. Peaches 70% harvested, 63% 1997, 66% avg.; 4% very poor, 9% poor, 24% fair, 58% good, 5% excellent. Snap beans 98% harvested, 90% 1997, 80% avg. Sorghum 72% headed, 71% 1997; 45% turned color, 61% 1997; 15% very poor, 40% poor 39% fair, 6% good. Sweet potatoes 18% poor, 69% fair, 13% good. Tobacco 98% topped, 99% 1997, 96% avg.; 35% harvested, 30% 1997, 30% avg.; 13% very poor, 22% poor, 41% fair, 24% good. Watermelons 99% harvested, 91% 1997, 86% avg.

**SOUTH DAKOTA:** Days suitable for fieldwork 5.8. Topsoil 1% very short, 22% short, 70% adequate, 7% surplus. Subsoil 12% short, 78% adequate, 10% surplus. Warm weather bringing row crop development along rapidly, aiding small grain harvest. Winter wheat 1% poor, 14% fair, 50% good, 35% excellent; 99% ripe, 71% 1997, 73% avg. Winter rye 1% poor, 10% fair, 58% good, 31% excellent; 93% ripe, 76% 1997, 73% avg.; 57% harvested, 11% 1997, 15% avg. Spring wheat 94% turning color, 63% 1997, 64% avg.; 58% ripe, 10% 1997, 15% avg. Oats 95% turning color, 67% 1997, 70% avg.; 67% ripe, 28% 1997, 35% avg.; 29% harvested, 12% 1997, 11% avg. Barley 92% turning color, 72% 1997, 70% avg.; 57% ripe, 17% 1997, 22% avg. Flaxseed 2% poor, 16% fair, 78% good, 4% excellent; 86% blooming, 85% 1997, 74% avg.; 57% ripe, 0% 1997, 1% avg.; 10% harvested, 0% 1997, 0% avg. Sunflower 4% poor, 9% fair, 65% good, 22% excellent; 32% blooming, 10% 1997, 9% avg. Alfalfa 8% poor, 28% fair, 51% good, 13% excellent; 69% cut twice, 47% 1997, 43% avg. Other hay 71% harvested, 70% 1997, 61% avg. Corn 98% cultivated twice, 92% 1997, 82% avg.; averages 73 inches tall, 60 inches 1997, 54 inches avg.; 76% tasseled, 54% 1997, 38% avg. Livestock 7% fair, 69% good, 24% excellent. Stockwater supplies 3% short, 86% adequate, 11% surplus.

**TENNESSEE:** Days suitable for fieldwork 5.0. Topsoil 3% very short, 21% short, 65% adequate, 11% surplus. Subsoil 2% very short, 21% short, 67% adequate, 10% surplus. Corn 95% tasseled, 91% 1997, 93% avg.; 49% dough, 32% 1997, 45% avg.; 18% dent, 10% 1997, 12% avg.; 3% very poor, 8% poor, 23% fair, 51% good, 15% excellent. Tobacco 25% topped, 29% 1997, 29% avg.; 5% very poor, 12% poor, 31% fair, 42% good, 10% excellent. Alfalfa hay 93% harvested, 88% 1997, 94% avg.; 1% very poor, 4% poor, 32% fair, 49% good, 14% excellent. Pasture feed 2% very poor, 6% poor, 27% fair, 55% good, 10% excellent. Corn, soybean producers concentrated heavily on making insecticide, herbicide applications between showers last week. Spraying activities took place to fight army worms, weeds. Tobacco producers topped an additional 11 percent of the State's acreage, reaching 25% by weekend. Besides diseased pressured tobacco fields, last week's rain helped the condition of crops, promoted growth. Bledsoe County reported better pollination, bloom retention in their vegetable crops due to cooler temperatures, precipitation.

**TEXAS:** Agricultural producers suffered through another week scorching temperatures, virtually no rainfall. Few sparse showers sprang up, however benefit minimal. Storms in Plains brought little rain, but high winds, hail caused damage some fields. Harvest operations moved ahead without delay. Irrigation operations remained steady. Hot temperatures made hard keep up with water demands. Ranges, pastures continued decline under dry conditions. Grasshoppers adding to drought problems. Haying operations remained slow, non-existent most areas. Hay fields grazed many parts state. Producers have not been willing spend money on fertilizer under dry conditions. Culling herds continued.

**Crops:** Corn fields in Plains in pollination stage, many showing signs stress despite steady watering. Harvest continued Blacklands. High aflatoxin levels continued. Some fields destroyed because excessively high levels. Harvest winding down Coastal Bend, along Upper Coast. Harvest continued without delay central. Low yields continued. 59% dented, 36% 1997, 50% avg. 51% mature, 17% 1997, 32% avg. 28% harvested, 3% 1997, 10% avg. Cotton: Dryland fields in Plains continued deteriorate, many fields being zeroed out. Irrigation remained steady, hot temperatures causing heavy water demands. Boll set continued. Dryland fields in Blacklands trying to hold but shedding small bolls. Bolls opening rapidly under hot temperatures. Harvest increased Rio Grande Valley under hot conditions. Harvest continued Coastal Bend, defoliation activity increased along Upper Coast. 16% open bolls, 5% 1997, 8% avg. 4% harvested, 0% 1997, 1% avg. Grain Sorghum: Prospects for dryland fields Plains remained dismal as some have never emerged. Irrigated fields continued make fair progress where enough water available. Fields continued turn color rapidly North Central and Blackland areas. Harvest began in Blacklands, Central early planted fields. Later planted fields continued stressed under very hot temperatures. Harvest continued along Upper Coast winding down Coastal Bend. Yields only fair. 55% turning color, 49% 1997, 58% avg. 46% mature, 32% 1997, 44% avg. 40% harvested, 15% 1997, 31% avg. Peanuts: Fields in Plains, North Central continued make good progress, however constant irrigation necessary. Insect problems remained low. Growth, development slow South Central fields even though irrigation steady. Rice: Harvest began along the Upper Coast during the week. Continued hot temperatures caused additional stress later fields. 5% harvested, 0% 1997, 4% avg. Soybeans: Fields in High Plains making fair progress under steady watering last week. Harvest increased Blacklands where yields been poor. Some fields abandoned along Upper Coast where harvest increased during week. Other Crops: Sunflowers 97% planted, 100% 1997, 99% avg. Oats 98% harvested, 100% 1997, 96% avg.

**Commercial Vegetables:** Rio Grande Valley, land preparation slowly increased, however many producers remain uncertain as to planting intentions due lack of water. San Antonio-Winter Garden, a few fields watermelons harvested with land preparations for fall crops increasing. East, production remained low most fields. Sweetpotato fields slow progress due hot temperatures. High Plains, potato, onion harvest continued with below normal yields reported. Trans Pecos, cantaloup, onion harvest continued. Chilies shedding blooms due hot conditions. Peaches: Harvest continued Hill Country where quality remained very good. Pecans: Hot, dry conditions along moderate casebearer damage continued lower expectations. Nut drop continued most areas. Leaves beginning fall off some areas.

**Range and Livestock:** Range, pasture conditions continued decline across State. Haying operations remained well behind normal. Hay shortage may be big concern going into fall, winter months. Selling light weight calves, lambs continued. Culling older breeding stock also continued. Prices at local auctions continued decrease.

**UTAH:** Days suitable for fieldwork 7. Topsoil 2% very short, 8% short, 89% adequate, 1% surplus. Subsoil 2% very short, 8% short, 90% adequate. Pasture feed, range 4% poor, 38% fair, 54% good, 4% excellent. Irrigation water supplies 13% short, 79% adequate, 8% surplus. Spring wheat harvested 4%. Stockwater 17% short, 75% adequate, 8% surplus. Spring wheat headed 91%. Winter wheat harvested 13%. Oats headed 81%. Oats harvested for hay or silage 52%. Corn height 51 inches, 55 inches 1997, 50 inches avg. Corn silked 1%. Alfalfa hay 2nd cutting 44%, 41% 1997, 51% avg. Barley headed 88%; harvested for grain 8%. Other hay cut 61%, 78% 1997, 68% avg. Tart cherries picked 6%, 68% 1997. Good range conditions reported Statewide.

**VIRGINIA:** Days suitable for fieldwork 6.4. Topsoil 20% very short, 50% short, 30% adequate. Subsoil 7% very short, 54% short, 39% adequate. Corn 62% silked; 61% 1997, 62% avg.; 27% dough; 23% 1997, 25% avg.; 1% very poor, 16% poor, 41% fair, 38% good, 4% excellent. Cotton squaring

99%; 97% 1997; 90% setting bolls; 70% 1997; 3% poor, 19% fair, 63% good, 15% excellent. Soybeans 100% planted; 99% 1997, 100% avg.; 98% emerged; 27% blooming; 22% 1997, 25% avg.; 2% very poor, 13% poor, 32% fair, 46% good, 7% excellent. Flue-cured tobacco 5% harvested; 10% poor, 35% fair, 40% good, 15% excellent. Dark fire cured tobacco 7% poor, 48% fair, 34% good, 11% excellent. Burley tobacco 10% very poor, 14% poor, 61% fair, 5% good, 10% excellent. Sun Tobacco 20% poor, 70% fair, 10% good. Winter Wheat 100% harvested, 99% 1997, 98% avg.; 25% poor, 50% fair, 25% good. Barley 100% harvested, 100% 1997, 100% avg. Summer potatoes 65% harvested; 77% 1997, 64% avg.; 5% poor, 25% fair, 55% good, 15% excellent. Apples 61% harvested; 3% very poor, 2% poor, 35% fair, 54% good, 6% excellent. Peaches 40% harvested; 1% poor, 40% fair, 57% good, 2% excellent. Pasture feed 7% very poor, 31% poor, 38% fair, 23% good, 1% excellent. Alfalfa 3% very poor, 11% poor, 46% fair, 34% good, 6% excellent. Other hay 5% very poor, 28% poor, 47% fair, 18% good, 2% excellent. Some isolated areas received limited showers this past week. These showers, however, were not enough to replenish soil moisture levels. Non-irrigated crops throughout the Commonwealth are still suffering from the hot, dry conditions, especially corn, soybeans. Beef producers in a few isolated localities are finding it necessary to feed their livestock supplemental hay due to poor pasture conditions. Peach harvest continues with good conditions reported. Recent weather conditions have been helpful in reducing the spread of blue mold in tobacco. However, corn ear worms are a problem for farmers in some localities. Other activities for the week included fruit and vegetable harvesting, planting cucumbers, preparing land for fall vegetables, second cutting of hay, topping tobacco, limited harvesting of flue tobacco, spraying livestock for flies, applying growth regulator to cotton, other herbicide, insecticide application to crops.

**WASHINGTON:** Days suitable for fieldwork 7.0. Topsoil 8% very short, 53% short; 39% adequate. Subsoil 1% very short, 50% short, 49% adequate. Winter wheat 22% harvested, 5% 1997, 15% avg. Spring wheat 100% headed, 100% 1997, 100% avg. Spring wheat, dryland 32% fair, 58% good, 10% excellent; irrigated 99% good, 1% excellent. Barley dryland, 5% poor, 40% fair, 50% good, 5% excellent; irrigated 97% good, 3% excellent. Potatoes 9% fair, 88% good, 3% excellent. Wheat harvest was well underway. Winter wheat variety trial harvest data reflected very good yields. Limited harvest data available on spring crops, yields were expected to be good, hot temperatures may affect test weights. Early potato harvest continued. Hay, other roughage supplies, 5% short, 70% adequate, 25% surplus. Second cutting alfalfa neared completion, 3rd cutting well underway. Range, pasture feed 2% very poor, 14% poor, 24% fair, 45% good, 15% excellent. Cherry, raspberry harvests were nearly completed, apricot harvest began to wind down in central areas. Blueberry harvest continued. Extremely hot temperatures have required orchard cooling, increased irrigation. Most vegetables were being harvested in western areas, daffodil, tulip fields were being prepared for planting.

**WEST VIRGINIA:** Days suitable for fieldwork 5.6. Topsoil 11% short, 84% adequate, 5% surplus. Crop, pasture conditions remain good despite dry areas of the State. Wheat harvested 78%, 98% 1997, 82% avg. Apple 70% fair, 15% good, 15% excellent. Peach 100% good. Hay 3% poor, 23% fair, 69% good, 5% excellent; Hay 1st cut 95%, 97% 1997, 98% avg.; 2nd cut 26%, 25% 1997, 31% avg. Corn 1% poor, 20% fair, 68% good, 11% excellent; silked 46%, 41% 1997, 47% avg.; doughing 2%, 2% 1997, 10% avg. Oats 11% poor, 33% fair, 56% good; harvested 38%, 29% 1997, 50% avg. Soybean 1% poor, 16% fair, 77% good, 6% excellent; Soybeans 21% bloomed, 72% 1997, 60% avg.; 10% podding, 19% 1997. Tobacco 9% poor, 52% fair, 38% good, 1% excellent; topped 7%, 4% 1997. Cattle 14% fair, 79% good, 7% excellent. Sheep 9% fair, 85% good, 6% excellent.

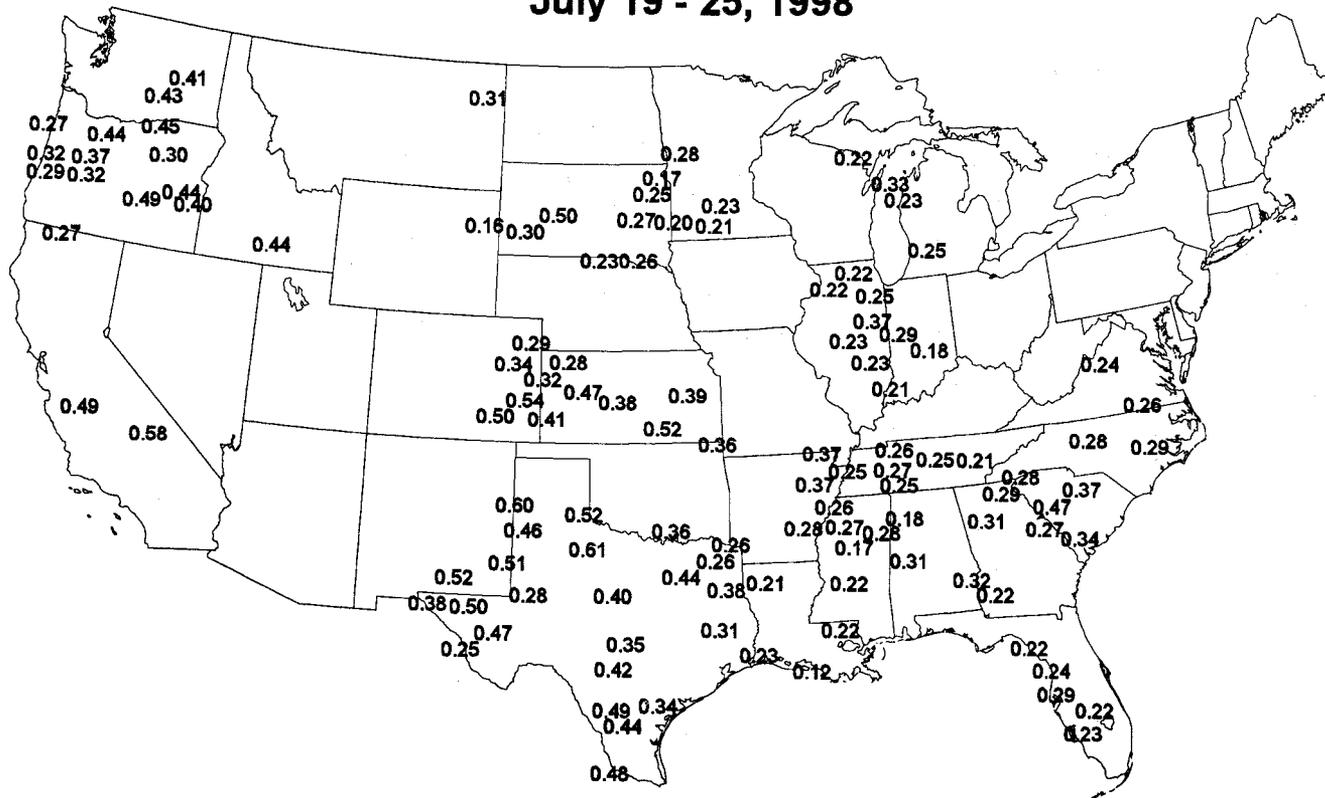
**WISCONSIN:** Days suitable for fieldwork 5.9. Soil moisture 10% very short, 33% short, 53% adequate, 4% surplus. Soybeans bloomed 71%, 47% 1997; setting pods 35%, 17% 1997; 3% poor, 13% fair, 47% good, 37% excellent. Corn height 82 inches, 72 inches 1997, 63 inches avg. Second crop hay harvested 82%, 44% 1997, 40% avg. Corn is tasseling statewide, lack of rain in the northern part of the State may hinder further development of ears. A Marinette County reporter expected significant loss of corn and soybean yields on sandy soils due to the lack of moisture. In Monroe County, an excess of moisture has caused some flooding, and a reporter noted that around 10% of the corn crop shows strain from the June rains. Farmers were busy harvesting small grains. Soybean crop is way ahead of last year, Grant County, the plants were reportedly flowering, podding, looked good.

Waupaca County reporter noted the prevalence of weeds in the fields but otherwise expected a healthy crop. Third crop hay has already reached 1 foot in height in Waukesha County, while a Chippewa County reporter described a damaged crop due to the dry weather. Ashland County, barley harvest will begin this week, oats were reportedly turning color. Weeds pester oat fields in Fond du Lac, Monroe counties. Sauk County reporter will begin picking early apple varieties this week. Winter wheat harvested 75%, 3% 1997, 15% avg. Pasture feed conditions 1% very poor, 9% poor, 29% fair, 46% good, 15% excellent.

1997, 1% avg. Spring wheat turning color 73%, 72% 1997, 55% avg.; mature 36%, 20% 1997, 13% avg.; harvested 12%, 2% 1997, 1% avg. Corn average height 59 inches; tassled 35%, 55% 1997, 43% avg. Dry beans bloom 75%, 72% 1997, 68% avg.; setting pod 30%, 25% 1997, 22% avg. Alfalfa 1st cutting 91%, 95% 1997, 93% avg.; 2nd cutting 7%, 9% 1997, 10% avg. Other hay cut 60%, 56% 1997, 57% avg. Winter wheat 3% very poor, 5% poor, 16% fair, 75% good, 1% excellent. Barley 1% poor 14% fair, 72% good, 13% excellent. Oats 1% poor, 32% fair, 63% good, 4% excellent. Spring wheat 3% poor, 41% fair, 52% good, 4% excellent. Sugar beet 12% poor, 21% fair, 67% good. Corn 1% poor, 19% fair, 61% good, 19% excellent. Dry bean 1% poor, 12% fair, 75% good, 12% excellent. Range, pasture feed 1% very poor, 10% poor, 30% fair, 57% good, 2% excellent. Hot, dry conditions continued. Winter wheat harvested ahead of average pace.

**WYOMING:** Days suitable for fieldwork 5.9. Topsoil 5% very short, 48% short, 46% adequate, 1% surplus. Winter wheat harvested 55%, 33% 1997, 30% avg. Barley turning color 71%, 86% 1997, 79% avg.; mature 22%, 24% 1997, 20% avg.; harvested 4%, 2% 1997, 3% avg. Oats turning color 60%, 36% 1997, 31% avg.; mature 31%, 7% 1997, 7% avg.; harvested 6%, 0%

### Average Pan Evaporation (Inches/Day) July 19 - 25, 1998



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY  
Based on preliminary data

# International Weather and Crop Summary

July 19 - 25, 1998

## HIGHLIGHTS

**FSU-WESTERN:** Generally dry weather in most of Ukraine and Russia favored rapid winter wheat harvesting but worsened conditions for summer crops in Russia's Volga Valley and North Caucasus regions.

**FSU-NEW LANDS:** Unseasonably warm, dry weather in Kazakstan and central producing areas in Russia stressed spring grains in the filling stage.

**EUROPE:** Weather conditions favored winter grain and oilseed harvesting in most areas.

**AUSTRALIA:** Locally heavy rain soaked pastures and semi-dormant winter grains in eastern agricultural areas.

**CANADA:** Dry, generally mild weather aided reproductive to filling Prairie grains and oilseeds.

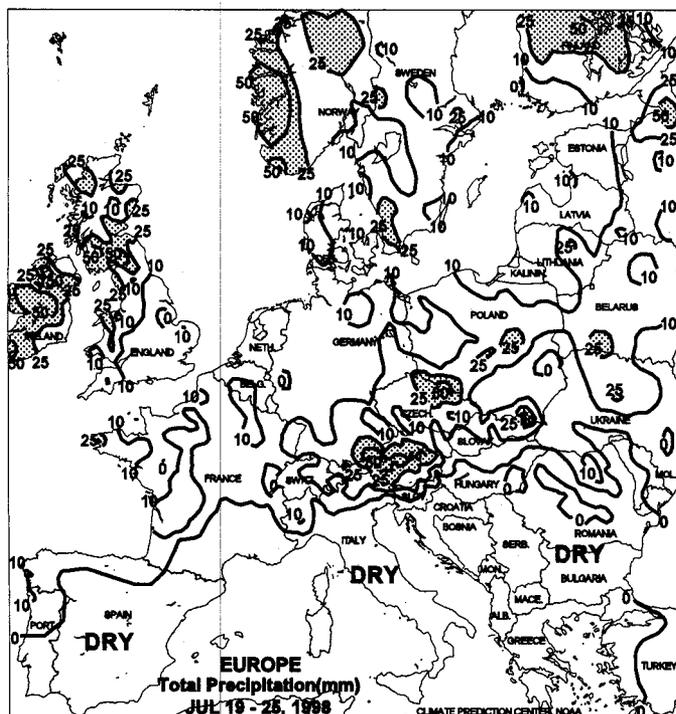
**SOUTH ASIA:** A break in the monsoon spurred planting and early development of grains, oilseeds, and cotton.

**SOUTHEAST ASIA:** Drier weather continued to reduce moisture supplies for grains and sugarcane across Indochina and the Philippines.

**EASTERN ASIA:** Excessive showers caused flooding and possible rice damage along portions of the Yangtze Valley. In the North China Plain, widespread rain is needed for reproductive rainfed summer crops.

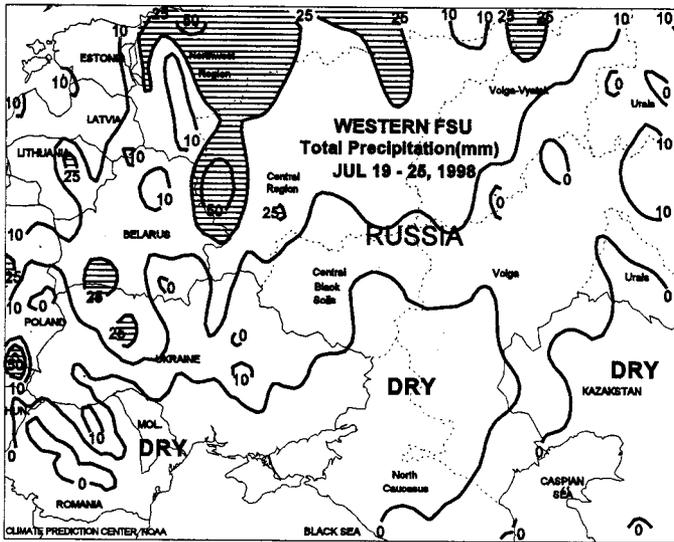
**SOUTH AMERICA:** Rain boosted topsoil moisture for wheat germination across eastern Argentina, but topsoils are becoming dry in the southern and western wheat areas.

**MEXICO:** Scattered showers prevailed across the Southern Plateau Corn Belt, providing some moisture for vegetative corn, but more widespread rain is needed.



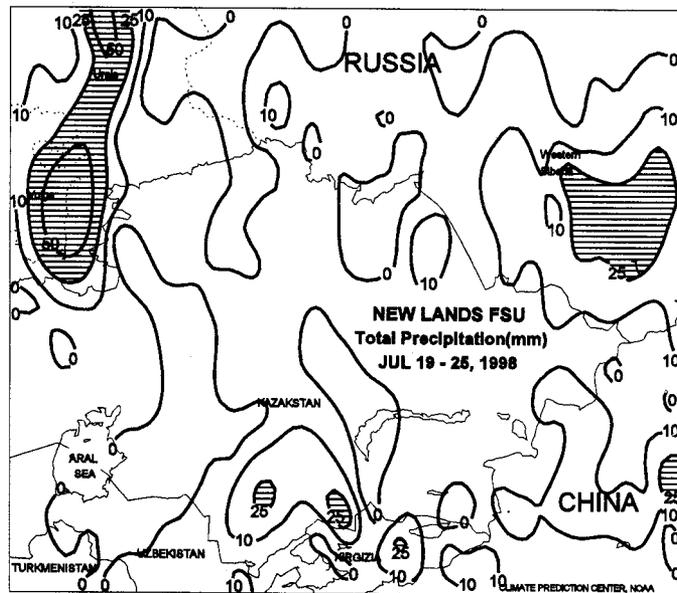
## EUROPE

Generally dry weather (precipitation amounts less than 8 mm) prevailed over most areas, allowing the swift harvest of winter grains and oilseeds. Significant showers (10-25 mm) were confined to Austria, the Czech Republic, central Poland, and localized areas in western France. Unusually warm weather prevailed over most of the continent, with weekly temperatures averaging 2 to 5 degrees C above normal. Hot weather in southern Europe spread north and eastward during the week, promoting rapid development in summer crops and increasing crop moisture requirements. In northern Europe, the hottest weather occurred from July 20-21, with maximum temperatures ranging from 32 to 37 degrees C. In southern Europe, the combination of unusually high temperatures (extreme maximum temperatures ranging from 34 to 41 degrees C) and a lack of soil moisture in southern France increased stress on corn and sunflowers, likely in the reproductive to filling stages of development. Light showers farther north in western France were timely for corn and sunflower development. Elsewhere, dry weather stretched from Spain eastward across Italy into southeastern Europe, stressing dryland crops and increasing irrigation requirements.



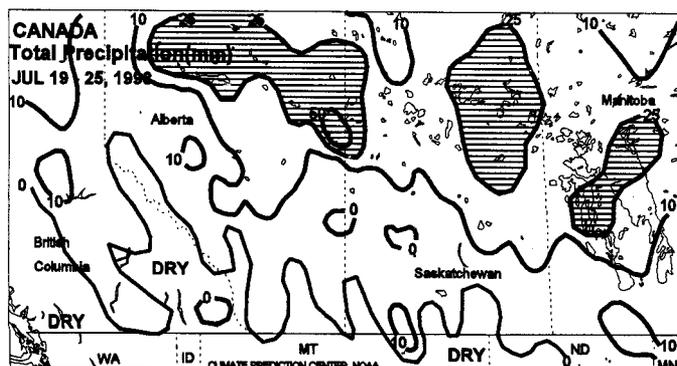
**FSU-WESTERN**

In Russia, dry weather in the Volga Valley, central Black Soils region, and the North Caucasus favored rapid winter grain harvesting. However, the dryness was accompanied by unusually warm weather, worsening conditions for summer crop development. Highest maximum temperatures in these areas ranged from 31 to 33 degrees C. Farther north, light showers (10-20 mm) in the Central Region and Volga Vyatsk caused only brief harvest delays and favored immature spring grains. In Ukraine, drier weather prevailed in most areas, improving conditions for winter grain harvesting. Significant precipitation (10-25 mm) was confined to the extreme northwestern portion of the country. Although unseasonably warm weather accelerated the development of summer crops in Ukraine, soil moisture supplies were adequate to meet increasing crop water demands. In Belarus and Lithuania, warmer, drier weather eased excessive wetness, improving conditions for winter grain harvesting and summer crop development. Weekly temperatures averaged 2 to 5 degrees C above normal in Russia, Ukraine, Belarus, and Lithuania.



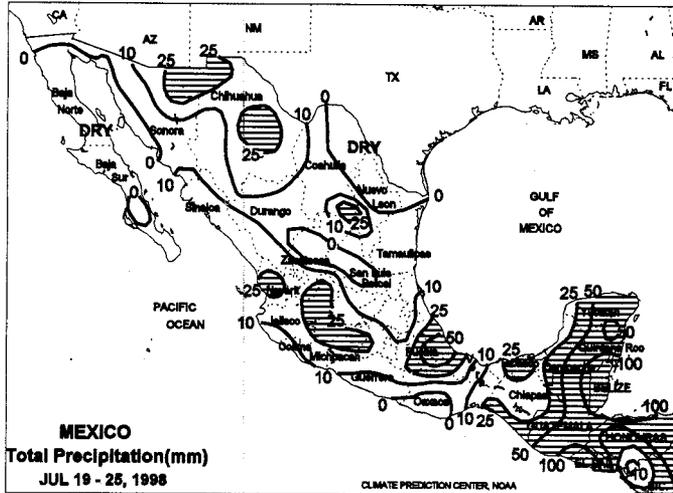
**FSU-NEW LANDS**

In Kazakstan, hot, generally dry weather (precipitation amounts less than 5 mm) increased stress on spring grains in the filling stage. Extreme maximum temperatures ranged from 32 to 39 degrees C in western and central Kazakstan, and 27 to 30 degrees C in minor producing areas farther east. In Russia, weather conditions for crops were mixed during the week. Mostly dry weather favored maturing crops in the southern Urals, but created a lack of moisture for filling crops in central producing areas of Western Siberia. Farther east, widespread showers (10-43 mm) fell in eastern spring grain-producing areas of Western Siberia and Eastern Siberia, benefiting spring grains in the reproductive to filling stages. Weekly temperatures averaged 2 to 5 degrees C above normal in the western two-thirds of Russia and Kazakstan and were near normal in eastern Kazakstan and adjacent areas in Russia. In cotton-producing areas of Central Asia, seasonably warm, dry weather favored normal cotton development.



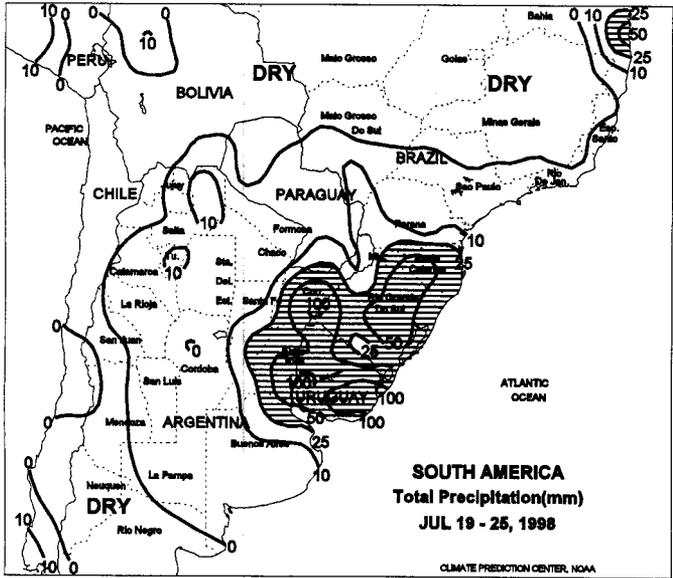
**CANADA**

Mostly dry weather continued for the second week throughout the Prairies, with significant rainfall (10 mm or more) confined to northern producing areas and sections of Manitoba. Mild weather favored filling spring grains and oilseeds for much of the week, but a brief outbreak of summer heat (highs from 33-36 degrees C) invaded the southwest at week's end. For the week, temperatures averaged 1 to 2 degrees C above normal in Alberta and western Saskatchewan and 1 to 2 degrees C below eastward through Manitoba. In eastern Canada, moderate to heavy rain (24-55 mm) increased moisture levels for corn and soybeans in southern Ontario. Rainfall was light elsewhere, including the agricultural region of Quebec. Seasonable warmth aided summer crop development.



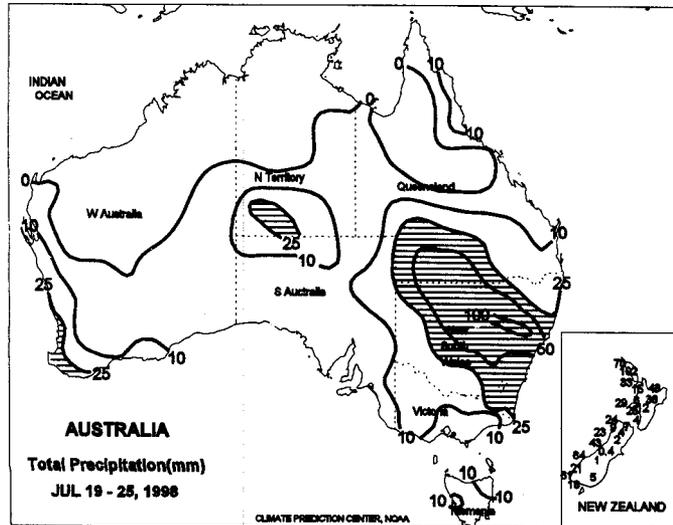
**MEXICO**

Scattered showers (5-50 mm) covered the Southern Plateau Corn Belt, aiding vegetative corn. However, more rain is needed to increase soil moisture supplies. Showers (10-40 mm) favored pasture growth across north-central Mexico. In the northeast, isolated showers (10-35 mm) brought limited drought relief. Temperatures averaged 1 to 3 degrees C above normal across most of Mexico.



**SOUTH AMERICA**

Light to moderate rain (5-20 mm) increased topsoil moisture for germinating winter wheat across eastern Argentina. However, more rain is needed across the wheat areas of La Pampa and southern Buenos Aires. According to reports as of July 17, Argentine cotton, soybean, and corn crops were 82, 99 and 95 percent harvested, respectively. Last year at this time, cotton, soybean, and corn crops were 96, 100, and 97 percent harvested, respectively. Winter wheat planting was 68 percent complete, compared with 58 percent last year. In southern Brazil, rain (10-70 mm) maintained adequate moisture supplies for winter wheat. Dry, warm weather favored coffee and citrus harvesting in Minas Gerais and northern Sao Paulo. Temperatures averaged 2 to 4 degrees C above normal across the region.

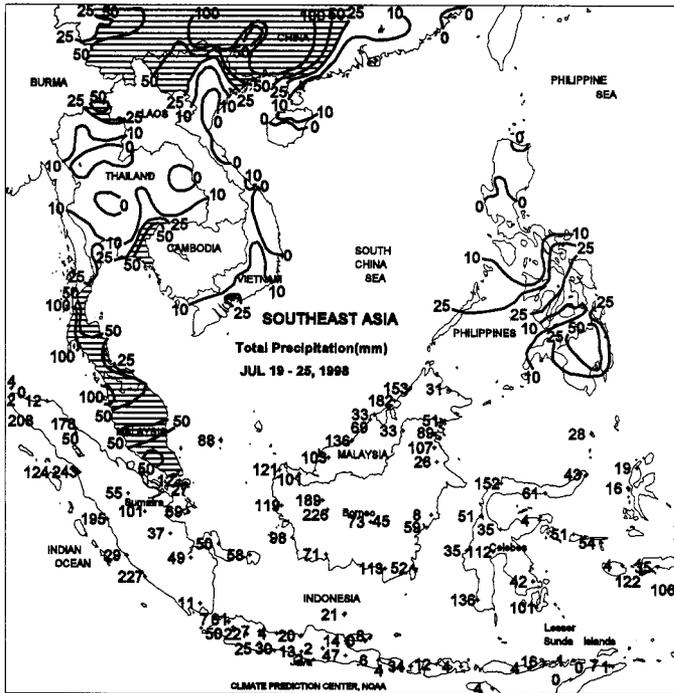


**AUSTRALIA**

Moderate to heavy rain (25-50 mm or more) fell over broad sections of New South Wales and southwestern Queensland, increasing moisture reserves for pastures and semi-dormant winter grains. More moderate showers (10-25 mm) covered major winter grain areas from Darling Downs northward. Rainfall was lighter still (15 mm or less) in the main wheat and barley areas of Western Australia, South Australia, and Victoria. Temperatures averaged 2 to 3 degrees C above normal in the northeastern winter grain areas and near normal elsewhere. In New Zealand, scattered showers (5-35 mm, exceeding 50 mm in north-coastal areas) covered much of North Island. However, a dry spell continued over eastern agricultural areas of South Island, extending this week into the southern tip of North Island.

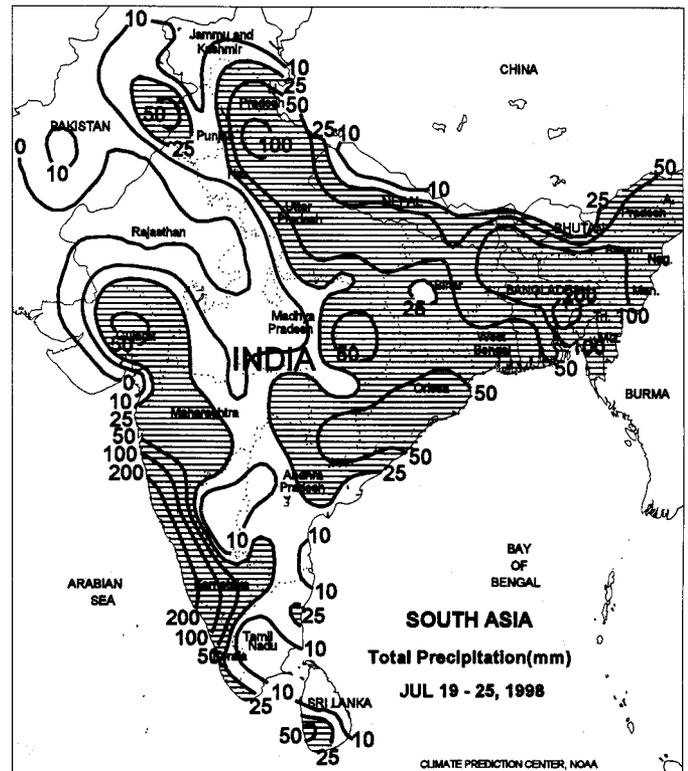
**SOUTHEAST ASIA**

Drier weather continued across Indochina and the Philippines, reducing moisture for rainfed grains and sugarcane. Light showers (less than 10 mm) prevailed across Thailand and northern Vietnam, while light to moderate showers (10-40 mm) were reported in southern Vietnam. In the Philippines, light showers (less than 10 mm) dominated Luzon, while heavier showers (20-100 mm) fell across the central Islands and Mindanao. Heavy showers (50-80 mm, with isolated amounts greater than 100 mm) favored oil palm across peninsular Malaysia. In Java, unseasonably heavy showers (10-40 mm) continued to maintain adequate irrigation supplies for second-season corn and rice.



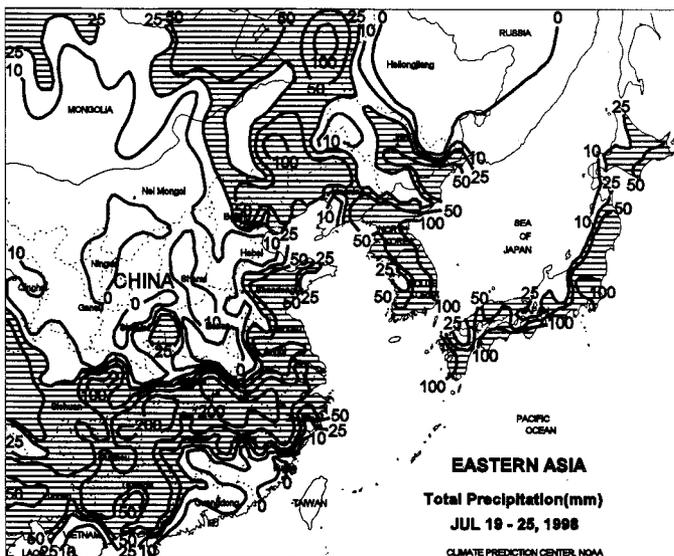
**SOUTH ASIA**

A break in the monsoon brought warmer, drier weather to much of central and northern India. Grain, oilseed, and cotton planting was likely widespread in response to the reduction in rainfall. Moderate to heavy rain (50 mm or more) continued in the primary rice areas from eastern Uttar Pradesh eastward, with some additional flooding likely in sections of Bangladesh. In southern India, light to moderate showers (10-35 mm) benefited interior summer crop areas as heavy rain (100-300 mm or more) returned to sections of the southwest coast. Temperatures averaged 1 to 3 degrees C above normal throughout India, with highs in the mid to upper 30's degrees C, although temperatures hit 40 degrees C in sections of the northwest.



**EASTERN ASIA**

Excessive showers (200-450 mm) caused flooding and possible damage to late double-crop and single-crop rice along portions of the Yangtze Valley. The axis of the heaviest rain stretched from northeastern Guizhou to northern Hunan and to extreme western Zhejiang. Heavy rain (50-150 mm) also covered Guangxi in southern China, causing local flooding. Lighter showers (less than 20 mm) prevailed across southeastern China (Guangdong and Fujian). In the North China Plain, showers (15-50 mm, with an isolated amount greater than 100 mm) covered Shandong and northern Jiangsu, aiding rainfed reproductive summer crops. However, lighter rainfall (less than 10 mm) prevailed across Henan and Hebei, reducing moisture for summer crops. Widespread rain is needed across the region to ensure adequate moisture for reproductive to filling summer crops. Widespread rain (25-75 mm) covered southern Manchuria (Liaoning and Jilin), aiding summer crops, with northern Manchuria (Heilongjiang) experiencing mostly dry weather. Temperatures averaged 1 to 2 degrees C below normal across southern Manchuria and near- to slightly above-normal elsewhere across China. Widespread rain (25-75 mm, with scattered amounts greater than 100 mm) covered the Korean Peninsula and Japan, maintaining moisture supplies for rice and possibly causing isolated flooding. Temperatures averaged 1 to 3 degrees C below normal across most of the Korean Peninsula and near normal across Japan.



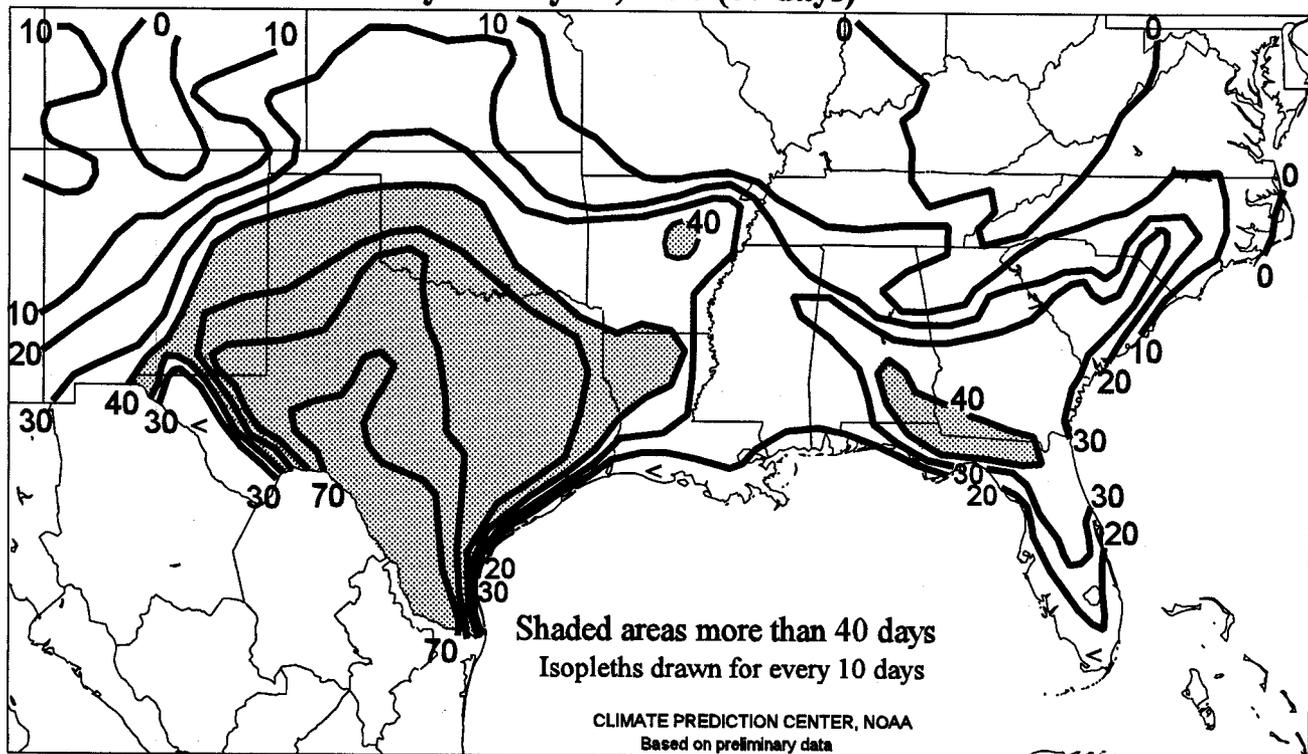
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### Number of Days Highs $\geq 95^\circ\text{F}$ May 1 - July 26, 1998 (87 days)



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