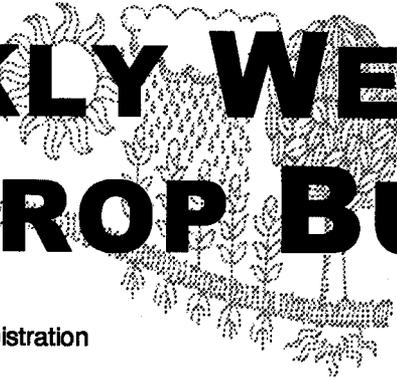


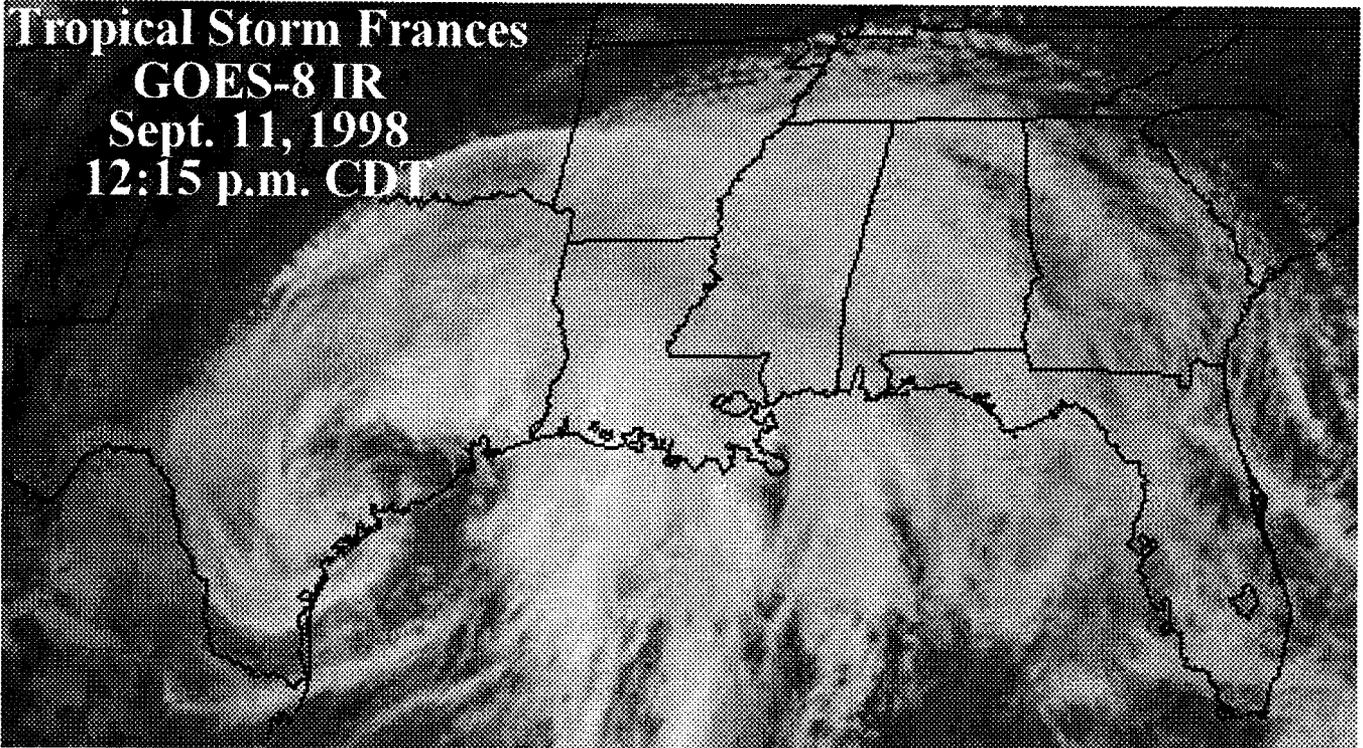
WEEKLY WEATHER AND CROP BULLETIN



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

Tropical Storm Frances
GOES-8 IR
Sept. 11, 1998
12:15 p.m. CDT



HIGHLIGHTS

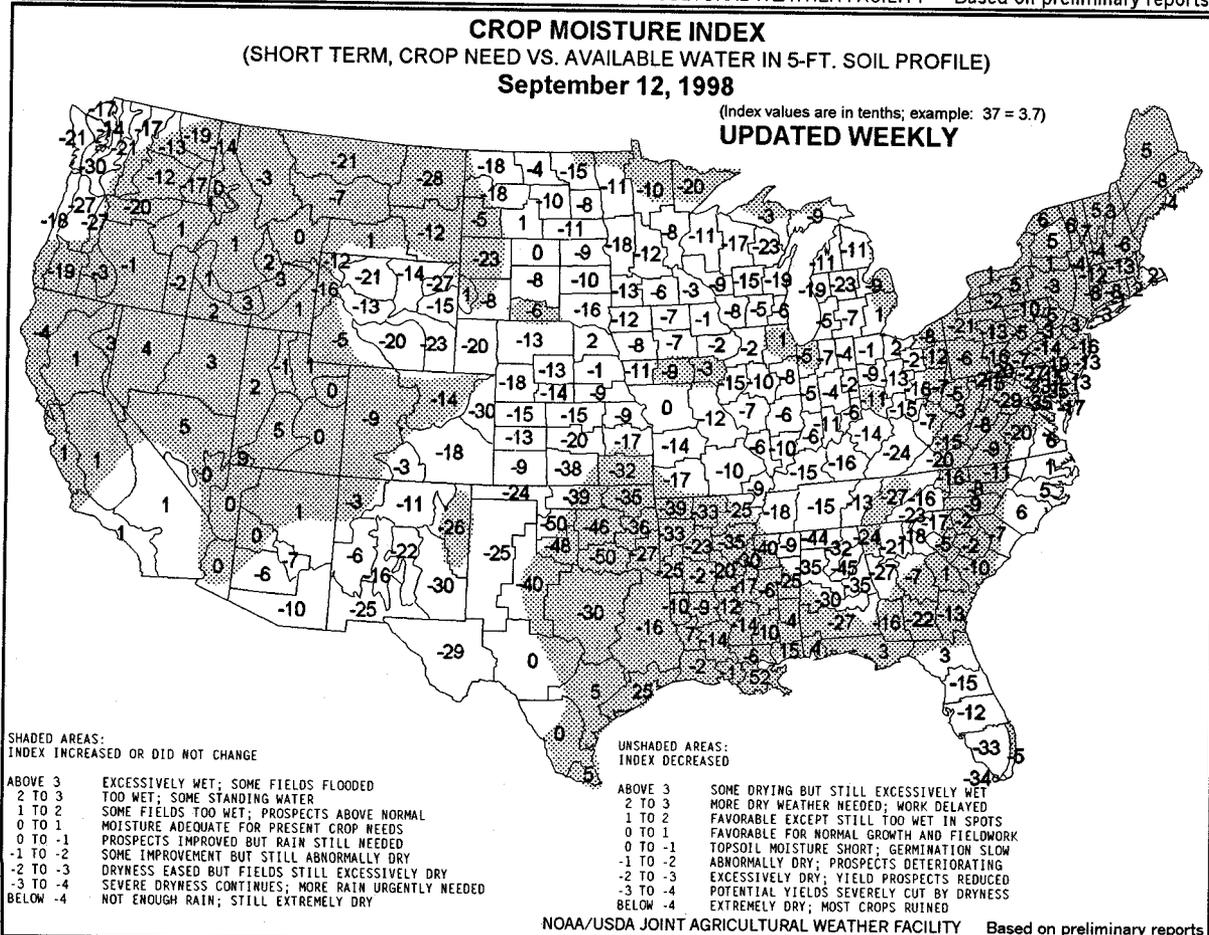
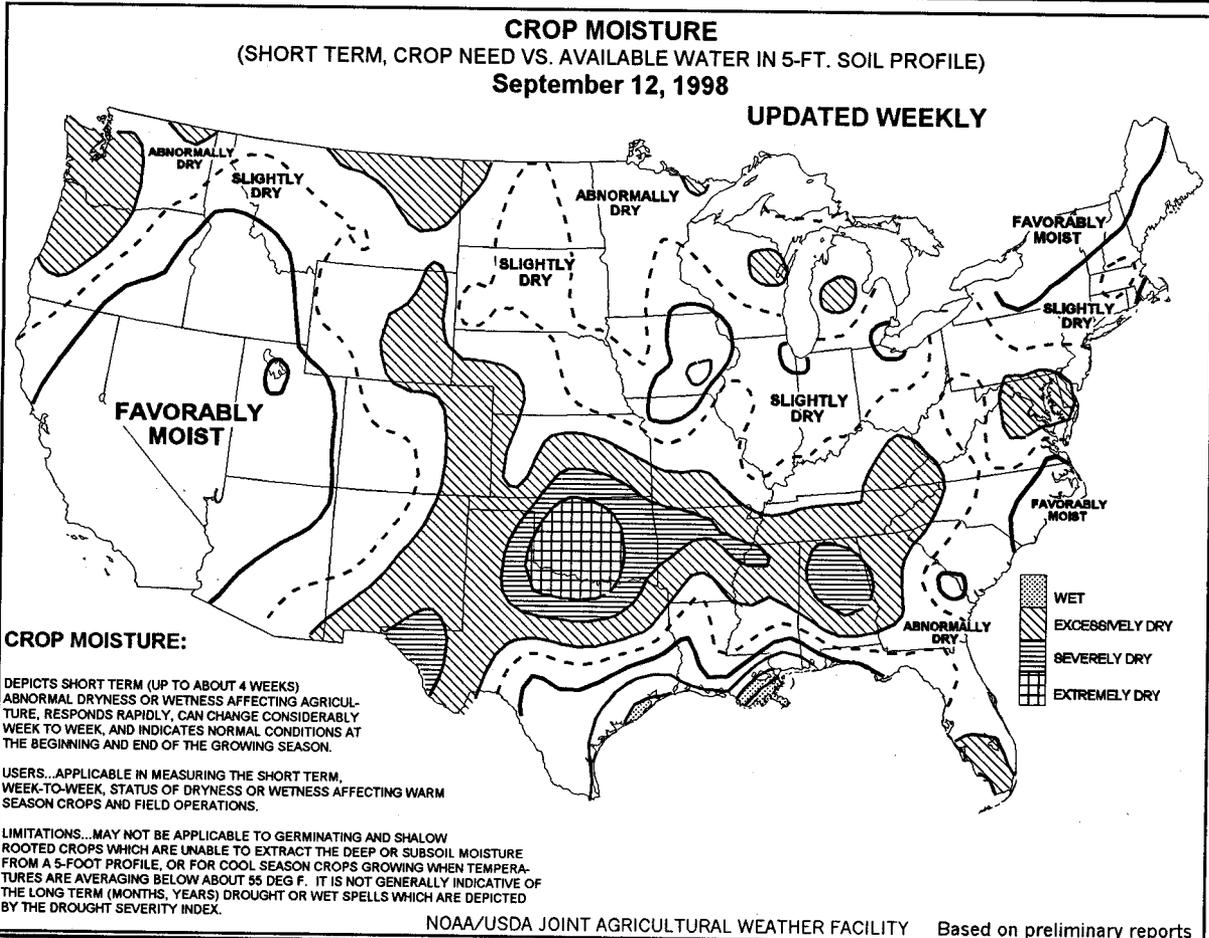
September 6 - 12, 1998

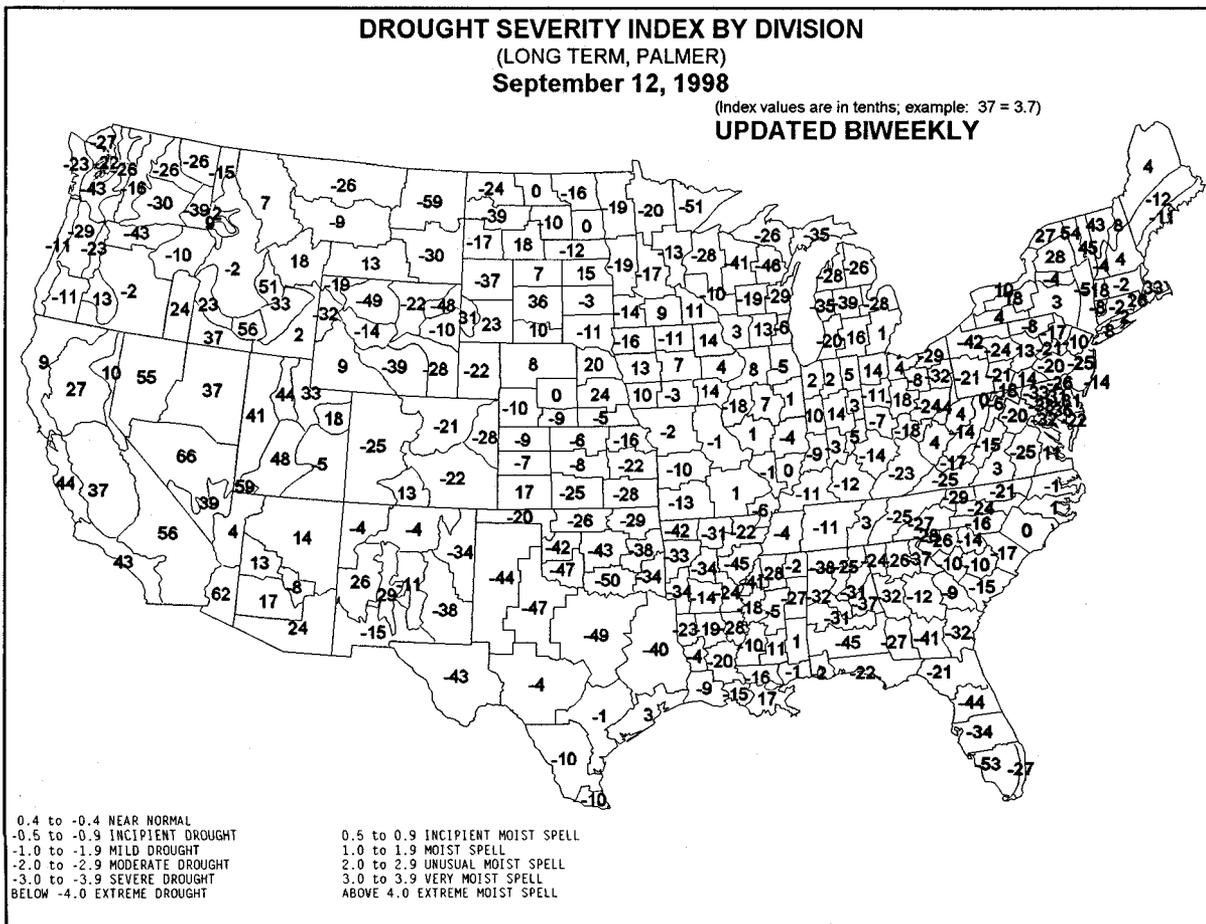
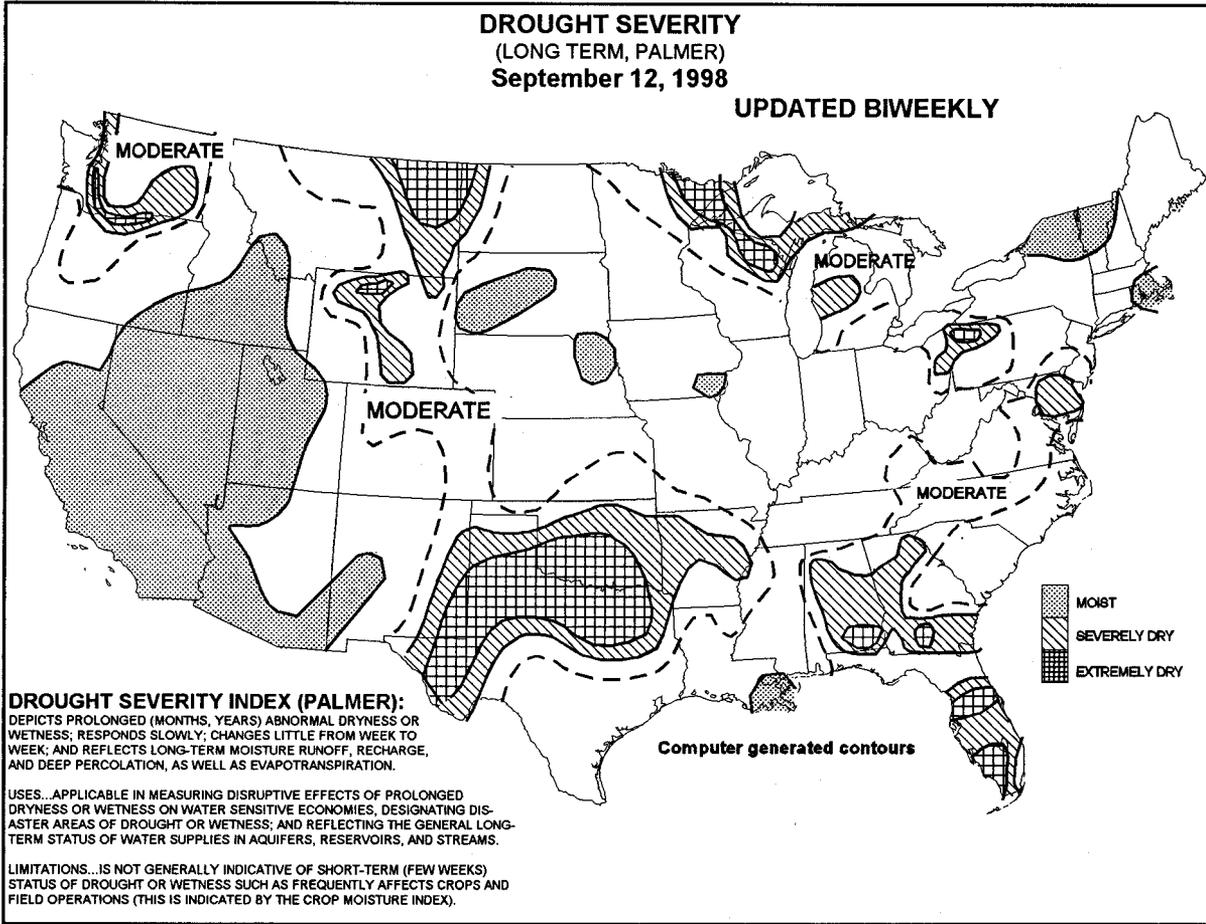
Tropical Storm Frances made landfall north of **Corpus Christi, TX** before dawn on September 11, producing torrential rainfall and flash flooding across parts of **Louisiana and eastern Texas**. Rain fell in the **Delta** cotton region, where bolls were mostly open, but excessive totals were confined to areas south and west of the main crop area. Although rainfall on the **eastern Plains** halted fieldwork, the moisture was welcomed for winter wheat planting and emergence. Only isolated showers dotted the western portion of the **central and southern Plains**, leaving topsoils unfavorably dry. Meanwhile, very warm, mostly dry weather prevailed in the **northern Plains and Northwest**, promoting

(Continued on page 5)

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U.S. Crop Production Highlights

The following information was released by USDA's Agricultural Statistics Board on September 11, 1998. Forecasts refer to September 1.

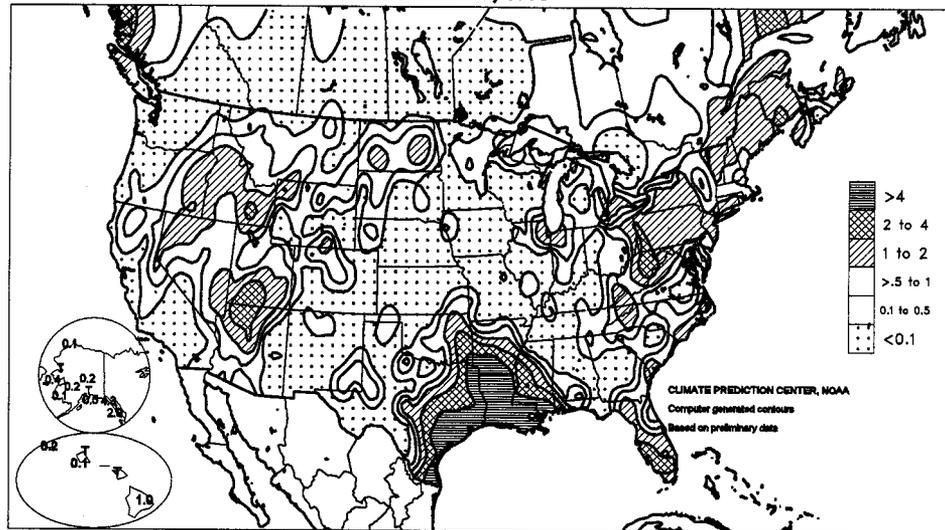
Corn grain production is forecast at 9.74 billion bushels, up 2 percent (%) from last month and up 4% from 1997. Yields are expected to average 132.0 bushels per acre, up 2.0 bushels from last month and up 5.0 bushels from a year ago. If realized, this would be the second-largest production and the second-highest yield on record. Acreage for harvest is estimated at 73.8 million acres, unchanged from last month and virtually unchanged from 1997.

All cotton production is forecast at 13.6 million bales, down 5% from last month and 28% from 1997. Yield is expected to average 614 pounds per harvested acre, down 66 pounds from last year. Hot and dry conditions continued during the month in the Cotton Belt, which lowered yield potential.

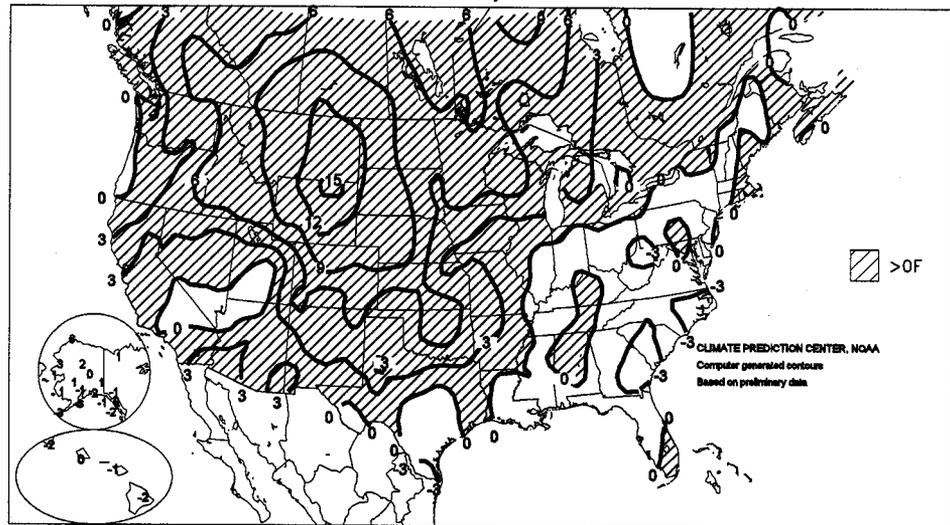
Soybean production is forecast at a record-high 2.91 billion bushels, up 3% from August 1, and up 7% from last year's record of 2.73 billion bushels. The yield forecast, at 40.6 bushels per acre, increased 1.1 bushels from last month and is 1.6 bushels above the 1997 final yield. If realized, this will be the second-highest yield on record, behind 41.4 bushels in 1994. Acreage for harvest is estimated at a record 71.6 million acres, unchanged from August 1 but up 2% from 1997.

All wheat production is placed at 2.56 billion bushels, up 1% from the August forecast and 2% from 1997. The yield is forecast at 43.3 bushels per acre. This is up 0.3 bushels from last month and is a new record-high yield.

Total Precipitation (Inches)
SEP 6 - 12, 1998



Departure of Average Temperature from Normal (°F)
SEP 6 - 12, 1998



Other spring wheat production is forecast at 519 million bushels, up 2% from last month, but down 7% from last season. The final forecast of average yield is 34.9 bushels per acre, 0.7 bushels higher than a month ago. Hard Red Spring production is up 2% from August at 467 million bushels. White Spring production is down about 2% to 52 million bushels.

Durum wheat production is forecast at 132 million bushels, up 4% from last month and 53% from 1997. This is the biggest durum crop since 1982. The yield is forecast at 36.8 bushels per acre, up 1.6 bushels from last month and second only to the 1992 record high.

California Navel Oranges: Production for 1998-99 is forecast at 34.0 million boxes, down 23% from last season's production of 44.0 million boxes. This initial forecast of the 1998-99 season is based on an objective measurement survey conducted in California's Central Valley. Fruit set and size are considerably less than last season. Crop development was delayed by the wet, cool spring.

(Continued from front cover)

fieldwork and crop development. Farther east, warm, dry conditions in the **Corn Belt** favored crop maturation and early harvesting.

Weekly temperatures ranged from 5 to 15°F above normal on the **northern and central Plains**, resulting in many of the week's nearly six dozen daily-record highs. Meanwhile, cool air briefly overspread the **Midwest and East**, producing nearly two dozen daily-record lows from September 9-11. Weekly temperatures were as much as 5°F below normal in the **central Appalachians**. Late in the week, cooler air shifted into the **Northwest**, allowing hot weather to return to the **East**.

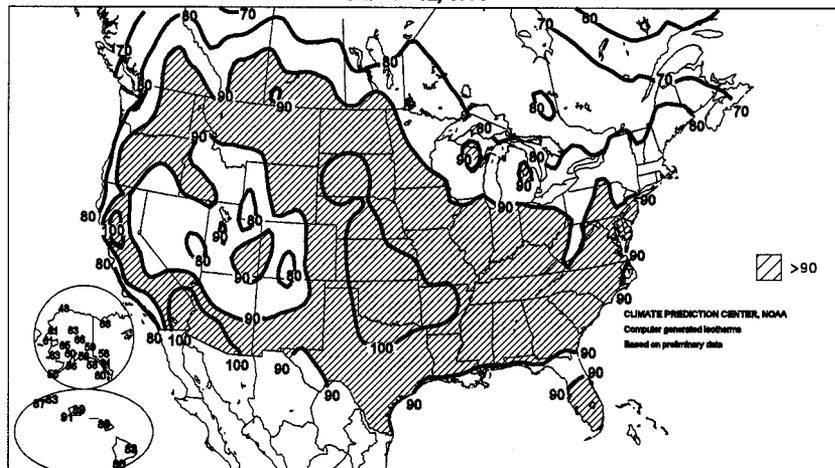
On Sunday, the highest temperatures of the year-to-date were observed in several locations, including **Binghamton, NY (90°F)**, **Louisville, KY (96°F)**, and **Nashville, TN (99°F)**. Meanwhile in **Washington**, streaks of September record-setting warmth ended at 6 days (September 1-6) at or above 90°F in **Spokane** and 10 days (August 28 - September 6) at or above 80°F in **Seattle**. Elsewhere on September 6, highs on the **central Plains** soared to 105°F in **Hill City, KS** and 102°F in **Hastings, NE**.

A day later, a strong cold front swept through the **Northeast**, delivering beneficial rainfall but sparking severe weather. On the night of September 6-7, winds gusted to 89 mph in **Rochester, NY**. By Wednesday, daily-record lows were established in locations such as **Bluefield, WV (41°F)** and **Cincinnati, OH (43°F)**. **Gilbert, AR** posted a low of 39°F the next morning.

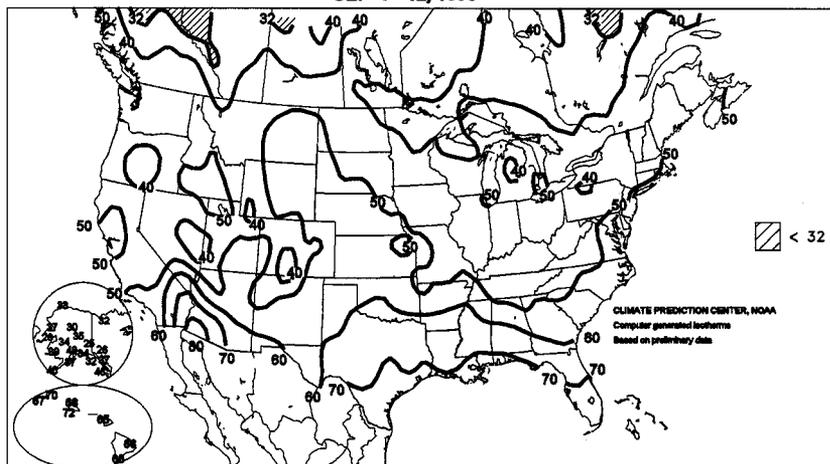
Hot weather persisted, however, across the remainder of the Nation. On Tuesday, **Dallas-Ft. Worth, TX** notched their fifth day of triple-digit heat this month and 56th this year, second only to 6 days in September 1951 and 69 days in 1980, respectively. In **Wichita, KS**, highs reached or exceeded 100°F on 5 consecutive days (September 3-7), tying their September record set in 1985. Farther north, **Huron, SD** recorded 100°F on Wednesday, their first triple-digit maximum since August 27, 1991. As hot weather returned to the **Midwest and East** toward week's end, a September-record high was tied in **Marquette, MI (92°F on Friday)**. In **West Virginia**, **Bluefield** logged a daily-record high (87°F on Saturday) less than 60 hours after a daily-record low of 42°F.

Frances came ashore between **Port Aransas** and **Port O'Connor**, packing 65 mph sustained winds. Rainfall in excess of 4 inches (with localized totals reaching 16 inches in

Extreme Maximum Temperature (°F)
SEP 6 - 12, 1998



Extreme Minimum Temperature (°F)
SEP 6 - 12, 1998

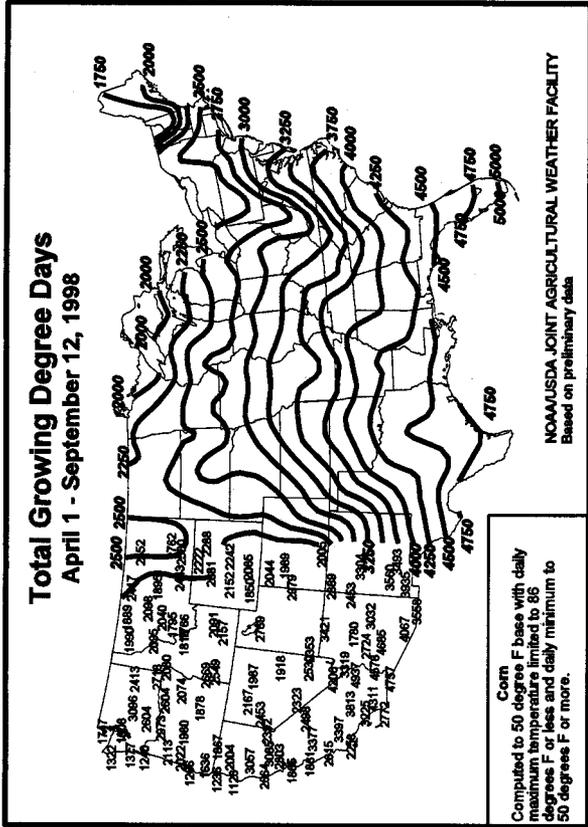
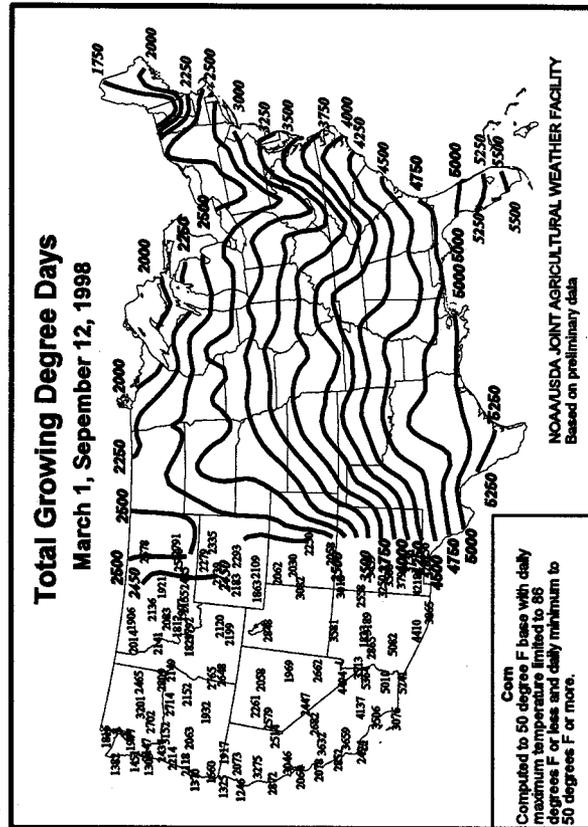


southern Louisiana) fell across eastern Texas, Louisiana, southern Mississippi, southwestern Arkansas, and southeastern Oklahoma. Even before Frances formed on September 6, and for several days after landfall, on-shore winds brought coastal flooding to parts of the **western and central Gulf Coast**.

The remnants of Frances were responsible for ending a 31-day dry spell (August 12 - September 11) in **Little Rock, AR**, their longest since May-June 1977. In Louisiana, 48-hour (September 9-11) rainfall reached 13.16 inches in **New Orleans (Audubon Park)**. **Galveston, TX** netted 9.32 inches from September 9-12, 8.02 inches of which fell on Thursday. **Brownsville, TX**, which had received 4.43 inches during the first 8 months of the year, collected 7.11 inches during the first 12 days of September, including a daily-record total (4.53 inches) on Wednesday.

Dry pockets persisted in parts of the **East**, however, as **Charleston, WV** notched a 25th consecutive day (August 19 - September 12) without measurable rain. In **Kentucky**, August 10 - September 12, rainfall totaled only 0.17 inches in **Louisville** and 0.09 inches in **Lexington**. Despite 0.46 inches in **Dallas-Ft. Worth** from Frances' remnants, June 12 - September 13 (94-day) rainfall stood at only 0.92 inches. In **Wichita**, 30-day (August 15 - September 13) rainfall totaled 1.49 inches, a streak during which highs exceeded 90°F on the first 24 days.

In **Las Vegas, NV**, measurable rain fell on 7 of the first 12 days of the month, totaling 1.29 inches and representing their fourth-highest September precipitation on record. On Wednesday, **Winnemucca, NV** received 1.04 inches, their greatest single-day total in September. During the week, more than 2 inches of rain soaked parts of **northern Arizona** and **southern Utah**.



National Weather Data for Selected Cities

Weather Data for the Week Ending September 12, 1998

Data Provided by Climate Prediction Center (301-763-8000 EXT. 7503) and the Southern Regional Climate Center

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 Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL IN, SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	88	64	95	56	78	0	0.00	-0.94	0.00	0.00	0	53.98	135	78	39	3	0	0	0
AL HUNTSVILLE	89	61	97	50	75	1	0.00	-0.98	0.00	0.00	0	32.75	80	82	27	2	0	0	0
AL MOBILE	83	72	90	70	77	-2	3.39	1.87	2.78	5.90	223	59.78	124	100	70	2	0	4	2
AK MONTGOMERY	89	67	96	64	78	-1	0.02	-0.97	0.02	0.09	6	35.38	90	84	40	3	0	1	0
AK ANCHORAGE	57	44	60	40	50	-1	0.03	-0.60	0.01	0.04	4	8.57	85	95	62	0	0	3	0
AK BARROW	43	36	48	33	40	6	0.05	-0.10	0.02	0.20	74	2.51	79	95	74	0	0	4	0
AK FAIRBANKS	59	40	66	35	49	0	0.23	-0.02	0.14	0.32	70	8.74	111	93	43	0	0	3	0
AK JUNEAU	54	47	61	37	51	0	2.02	0.54	0.83	3.28	132	31.87	97	97	75	0	0	6	2
AK KODIAK	53	45	58	37	49	-3	2.83	1.25	1.84	4.95	187	71.65	168	95	72	0	0	6	2
AK NOME	54	39	61	28	47	1	0.36	-0.25	0.19	0.61	57	17.62	171	92	53	0	1	6	0
AZ FLAGSTAFF	71	49	77	44	60	1	1.74	1.23	1.02	4.28	473	21.89	139	97	48	0	0	5	2
AZ PHOENIX	101	78	105	75	90	2	0.25	0.04	0.15	0.28	78	8.62	176	67	24	7	0	3	0
AZ TUCSON	97	70	99	68	84	2	0.12	-0.30	0.08	1.11	150	12.27	148	81	25	7	0	3	0
AZ YUMA	105	84	107	83	95	6	0.00	-0.08	0.00	2.28	1413	4.38	213	58	24	7	0	0	0
AR FORT SMITH	93	67	102	55	80	5	0.81	0.07	0.79	0.81	65	27.81	98	76	32	5	0	2	1
AR LITTLE ROCK	89	67	102	58	78	2	0.75	-0.19	0.75	0.75	48	27.15	78	86	38	4	0	1	1
CA BAKERSFIELD	91	66	101	52	79	0	0.00	-0.03	0.00	0.30	600	11.98	301	77	32	3	0	0	0
CA EUREKA	65	48	70	44	56	-1	0.02	-0.18	0.02	0.02	8	41.07	189	100	74	0	0	1	0
CA FRESNO	92	66	101	54	79	3	0.00	-0.06	0.00	0.00	0	16.07	228	76	24	4	0	0	0
CA LOS ANGELES	76	67	77	64	71	1	0.00	-0.08	0.00	0.00	0	23.83	296	94	68	0	0	0	0
CA REDDING	92	67	99	54	80	3	0.00	-0.17	0.00	0.00	0	47.40	241	69	25	5	0	0	0
CA SACRAMENTO	89	61	99	52	75	2	0.00	-0.08	0.00	0.00	0	23.44	215	84	31	3	0	0	0
CA SAN DIEGO	75	68	77	64	72	0	0.00	-0.06	0.00	0.01	11	14.28	223	86	68	0	0	0	0
CA SAN FRANCISCO	77	58	84	53	67	2	0.00	-0.02	0.00	0.00	0	28.58	233	91	52	0	0	0	0
CO ALAMOSA	79	43	81	39	61	4	0.29	0.07	0.20	0.68	174	4.62	85	83	25	0	0	2	0
CO CO SPRINGS	85	54	90	50	70	7	0.17	-0.20	0.17	0.61	88	14.79	107	77	27	1	0	1	0
CO DENVER	90	60	94	56	75	10	0.13	-0.17	0.10	0.22	42	13.63	112	64	19	4	0	2	0
CO GRAND JUNCTION	84	62	95	57	73	4	0.80	0.61	0.44	0.95	288	6.57	112	68	30	2	0	3	0
CO PUEBLO	94	52	99	50	73	5	0.01	-0.24	0.01	0.14	30	9.10	98	74	17	6	0	1	0
CT BRIDGEPORT	77	57	85	52	67	-1	0.89	0.17	0.71	1.38	112	35.28	120	86	48	0	0	2	1
CT HARTFORD	78	53	90	48	68	0	0.50	-0.38	0.48	0.57	38	34.50	114	92	42	1	0	2	0
DC WASHINGTON	85	61	95	55	73	0	0.40	-0.40	0.29	0.40	29	31.25	114	78	30	3	0	2	0
DE WILMINGTON	81	58	91	52	69	-1	0.68	-0.15	0.67	1.12	79	30.79	105	86	36	2	0	2	1
FL DAYTONA BEACH	85	72	91	67	79	-1	0.11	-1.44	0.06	0.77	29	30.65	88	94	62	1	0	4	0
FL JACKSONVILLE	84	69	89	62	77	-3	1.68	-0.16	1.60	2.66	84	46.07	116	95	63	0	0	3	1
FL KEY WEST	89	80	91	75	84	0	0.28	-1.14	0.25	0.68	28	18.30	68	84	67	2	0	2	0
FL MIAMI	89	78	91	76	84	1	1.17	-0.67	0.56	3.60	114	45.10	109	87	63	3	0	6	1
FL ORLANDO	87	73	93	69	80	-2	0.48	-1.07	0.24	1.87	62	38.08	100	95	61	1	0	4	0
FL PENSACOLA	83	73	89	71	78	-2	0.60	-0.73	0.37	3.67	156	43.95	93	94	69	0	0	3	0
FL TALLAHASSEE	84	72	91	68	78	-2	0.81	-0.63	0.81	6.36	249	48.04	94	92	61	1	0	1	1
FL TAMPA	88	75	90	71	82	0	0.93	-0.65	0.56	2.63	94	47.77	137	92	64	3	0	4	1
FL WEST PALM BEACH	89	77	93	75	83	1	0.98	-1.00	0.73	3.63	109	44.86	107	89	59	4	0	4	1
GA ATHENS	86	60	92	51	73	-2	0.00	-0.80	0.00	1.81	132	41.43	113	90	39	3	0	0	0
GA ATLANTA	84	64	90	56	74	0	0.00	-0.82	0.00	2.70	191	40.35	108	80	40	1	0	0	0
GA AUGUSTA	87	59	93	51	73	-4	0.12	-0.63	0.12	8.05	605	45.20	132	100	42	3	0	1	0
GA COLUMBUS	87	68	96	62	77	-1	0.00	-0.80	0.00	0.30	22	25.22	66	81	38	3	0	0	0
GA MACON	86	63	94	53	74	-3	0.00	-0.69	0.00	4.84	387	37.58	111	96	44	3	0	0	0
GA SAVANNAH	86	63	93	55	75	-4	0.61	-0.58	0.61	2.85	133	42.88	109	100	45	2	0	1	1
HI HILO	82	68	83	66	75	-2	1.33	-0.70	0.34	3.49	101	59.56	68	96	71	0	0	7	0
HI HONOLULU	88	75	89	72	82	0	0.05	-0.07	0.03	0.05	26	2.68	22	88	49	0	0	2	0
HI KAHULUI	87	70	89	65	78	-1	0.02	-0.04	0.02	0.34	378	3.40	25	85	38	0	0	1	0
HI LIHUE	82	73	83	70	77	-2	0.18	-0.30	0.10	0.95	122	20.89	80	83	65	0	0	4	0
ID BOISE	82	63	94	56	73	8	1.15	0.96	0.45	1.15	371	13.18	165	87	40	2	0	5	0
ID LEWISTON	83	59	98	53	71	4	1.01	0.82	0.87	1.01	306	12.38	142	82	36	1	0	2	1
ID POCATELLO	79	56	90	50	68	6	1.47	1.28	0.75	1.47	445	10.78	128	84	43	1	0	7	1
IL CHICAGO/O'HARE	80	57	82	48	68	2	0.00	-0.96	0.00	0.00	0	26.78	104	88	41	1	0	0	0
IL MOLINE	83	55	92	45	69	2	0.00	-0.98	0.00	0.00	0	33.15	114	82	37	2	0	0	0
IL PEORIA	82	56	93	47	69	1	0.00	-0.92	0.00	0.03	2	32.59	124	88	36	2	0	0	0
IL ROCKFORD	80	54	91	47	67	1	0.08	-0.87	0.04	0.31	19	29.82	112	95	40	1	0	2	0
IL SPRINGFIELD	84	54	93	45	69	-1	0.00	-0.80	0.00	0.16	12	37.05	146	86	38	2	0	0	0
IN EVANSVILLE	86	55	96	47	70	-1	0.01	-0.68	0.01	0.02	2	33.57	108	96	34	2	0	1	0
IN FORT WAYNE	80	51	94	44	66	-1	0.20	-0.45	0.20	0.21	18	30.58	122	91	37	1	0	1	0
IN INDIANAPOLIS	83	54	94	48	68	-1	0.13	-0.57	0.13	0.13	11	38.22	131	92	36	1	0	1	0
IN SOUTH BEND	80	54	92	46	67	1	0.16	-0.73	0.15	0.18	11	28.91	106	93	43	1	0	2	1
IA BURLINGTON	84	58	95	50	71	4	0.00	-0.89	0.00	0.00	0	32.17	122	85	40	2	0	0	0
IA CEDAR RAPIDS	80	52	89	48	66	0	0.01	-0.86	0.01	0.02	1	32.17	126	96	44	0	0	1	0
IA DES MOINES	82	58	91	52	70	2	0.00	-0.87	0.00	0.00	0	34.31	135	87	40	2	0	0	0
IA DUBUQUE	79	54	90	47	68	2	0.01	-1.15	0.01	0.35	17	33.97	120	92	43	1	0	1	0
IA SIOUX CITY	86	55	94	47	70	5	0.01	-0.69	0.01	0.02	2	26.17	129	88	33	3	0	1	1
IA WATERLOO	83	51	94	42	67	3	0.01	-0.84	0.01	0.18	12	36.46	140	93	33	3	0	1	0
KS CONCORDIA	89	61	100	55	75	5	0.00	-0.78	0.00	0.01	1	22.57	98	76	31	3	0	0	0
KS DODGE CITY	93	62	102	53	78	8	0.00	-0.48	0.00	0.00	0	15.25	86	70	29	5	0	0	0
KS GOODLAND	91	59	96	51	75	6	0.00	-0.39	0.00	0.05	7	14.11	93	78	25	4	0	0	0
KS TOPEKA	89	60	100	51	74	4	0.00	-0.91	0.00	0.01	1	26.12	98	84	32	3	0	0	0

Based on 1961-90 normals

Weather Data for the Week Ending September 12, 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 Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL IN, SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	80 AND ABOVE	32 AND BELOW	TEMP. °F		.01 INCH OR MORE	.50 INCH OR MORE	
																		90 AND ABOVE	32 AND BELOW			
KY WICHITA	94	66	103	55	80	7	0.00	-0.85	0.00	0.00	0	17.73	79	87	26	4	0	0	0	0	0	0
KY JACKSON	83	57	95	46	70	0	0.01	-0.87	0.01	0.01	1	40.59	113	85	29	2	0	0	1	0	0	0
KY LEXINGTON	86	58	97	48	71	1	0.00	-0.77	0.00	0.00	0	41.94	128	86	30	3	0	0	0	0	0	0
KY LOUISVILLE	86	60	97	52	73	1	0.00	-0.78	0.00	0.00	0	39.40	121	83	30	3	0	0	0	0	0	0
KY PADUCAH	87	55	95	48	71	-1	0.00	-0.90	0.00	0.01	1	42.15	120	84	32	3	0	0	0	0	0	0
LA BATON ROUGE	85	73	92	70	79	-1	8.14	4.93	2.55	6.14	290	45.24	101	98	65	3	0	0	5	3	0	0
LA LAKE CHARLES	86	74	92	72	80	1	7.97	6.59	4.20	7.97	338	40.02	106	97	68	3	0	0	5	3	0	0
LA NEW ORLEANS	83	74	88	74	78	-1	12.78	11.39	5.67	13.49	555	68.06	145	96	78	0	0	0	7	5	0	0
LA SHREVEPORT	89	71	97	69	80	1	4.68	3.99	2.38	4.68	407	30.95	97	85	44	4	0	0	3	2	1	0
ME CARIBOU	62	49	75	46	56	0	1.26	0.42	0.59	1.87	128	28.58	118	96	66	0	0	0	5	1	0	0
ME PORTLAND	75	52	87	49	64	3	0.54	-0.15	0.50	0.57	48	38.50	134	93	51	0	0	0	2	1	1	0
MD BALTIMORE	84	56	95	51	70	-1	0.54	-0.29	0.54	0.54	37	30.19	104	86	30	3	0	0	1	1	1	0
MA BOSTON	77	58	88	54	68	1	0.21	-0.50	0.20	0.38	31	42.91	153	88	49	0	0	0	2	1	1	0
MA WORCESTER	72	53	84	47	63	0	0.33	-0.58	0.32	0.41	27	37.46	116	93	51	0	0	0	2	1	1	0
MI ALPENA	74	50	80	44	62	3	0.45	-0.32	0.44	0.96	72	22.84	110	91	43	1	0	0	2	0	0	0
MI GRAND RAPIDS	78	55	87	46	67	4	0.23	-0.79	0.22	1.08	62	24.39	99	89	40	0	0	0	2	0	0	0
MI HOUGHTON LAKE	77	50	89	34	64	4	0.07	-0.77	0.06	0.48	32	15.18	78	92	42	0	0	0	2	0	0	0
MI LANSING	80	51	90	37	65	2	0.21	-0.67	0.12	0.73	48	22.51	106	92	47	1	0	0	2	0	0	0
MI MARQUETTE	71	50	92	63	43	4	1.23	0.27	1.23	1.70	106	31.34	133	92	47	0	0	0	2	1	1	0
MI MUSKEGON	74	56	81	43	65	2	0.18	-0.76	0.17	1.05	65	18.37	86	93	50	0	0	0	2	0	0	0
MN DULUTH	73	52	84	43	63	6	0.02	-0.82	0.02	0.02	1	20.76	93	87	46	0	0	0	1	0	0	0
MN INTL FALLS	74	45	83	35	60	4	0.00	-0.77	0.00	0.00	0	16.00	86	93	48	0	0	0	0	0	0	0
MN MINNEAPOLIS	81	59	90	50	70	7	0.00	-0.68	0.00	0.00	0	29.00	132	81	38	1	0	0	0	0	0	0
MN ROCHESTER	79	53	89	43	68	5	0.00	-0.85	0.00	0.01	1	25.01	110	89	45	0	0	0	0	0	0	0
MN ST. CLOUD	81	52	90	37	66	7	0.02	-0.77	0.02	0.02	2	19.86	93	87	38	1	0	0	0	1	0	0
MS JACKSON	87	70	96	68	79	1	2.29	1.44	1.90	2.30	168	40.38	103	88	48	3	0	0	2	1	1	0
MS MERIDIAN	86	68	96	66	77	0	0.52	-0.31	0.37	0.52	36	44.15	108	92	49	3	0	0	2	0	0	0
MS TUPELO	88	62	97	52	76	-1	0.00	-0.83	0.00	0.00	0	37.00	94	89	37	2	0	0	0	0	0	0
MO COLUMBIA	86	57	95	48	72	1	0.00	-0.91	0.00	0.50	32	30.71	109	83	38	3	0	0	0	0	0	0
MO KANSAS CITY	84	60	94	52	72	2	0.00	-1.16	0.00	0.67	34	27.86	100	82	44	1	0	0	0	0	0	0
MO SAINT LOUIS	86	61	95	53	73	1	0.00	-0.74	0.00	0.62	42	36.22	136	82	37	3	0	0	0	0	0	0
MO SPRINGFIELD	89	62	98	51	78	5	0.00	-1.09	0.00	0.01	1	33.74	113	78	30	4	0	0	0	0	0	0
MT BILLINGS	85	61	97	57	73	12	0.96	0.64	0.57	0.95	187	11.99	104	85	32	3	0	0	4	1	1	0
MT BUTTE	77	52	87	49	65	12	0.86	0.55	0.38	0.86	158	12.87	132	82	39	0	0	0	3	0	0	0
MT GLASGOW	87	60	96	55	73	13	0.53	0.27	0.48	0.53	116	10.59	118	77	30	3	0	0	2	0	0	0
MT GREAT FALLS	83	58	95	47	69	11	0.55	0.24	0.45	0.55	100	14.48	118	81	31	1	0	0	2	0	0	0
MT KALISPELL	80	47	93	37	64	8	0.16	-0.15	0.08	0.16	29	15.30	129	90	29	1	0	0	3	0	0	0
MT MILES CITY	80	63	100	61	77	14	0.13	-0.17	0.05	0.13	26	10.26	91	70	26	4	0	0	3	0	0	0
NE MISSOULA	80	53	93	44	67	8	0.97	0.69	0.51	0.97	206	16.98	168	82	41	2	0	0	5	1	1	0
NE GRAND ISLAND	90	58	104	51	74	8	0.00	-0.72	0.00	0.00	0	21.80	107	80	28	4	0	0	0	0	0	0
NE LINCOLN	86	58	97	50	71	4	0.00	-0.85	0.00	0.01	1	25.70	117	87	36	3	0	0	0	0	0	0
NE NORFOLK	86	57	93	49	71	6	0.00	-0.80	0.00	0.00	0	28.70	141	80	36	4	0	0	0	0	0	0
NE NORTH PLATTE	92	58	100	54	75	11	0.00	-0.39	0.00	0.00	0	18.07	111	78	27	5	0	0	0	0	0	0
NE OMAHA	86	58	95	52	72	4	0.00	-0.91	0.00	0.00	0	34.61	151	87	36	3	0	0	0	0	0	0
NE SCOTTSBLUFF	92	58	97	53	74	10	0.22	-0.03	0.17	0.22	51	12.24	97	84	27	5	0	0	2	0	0	0
NE VALENTINE	91	60	100	54	75	11	0.00	-0.39	0.00	0.00	0	18.48	120	75	27	4	0	0	0	0	0	0
NV ELY	74	48	80	38	61	2	0.63	0.39	0.38	0.70	175	9.75	133	91	36	0	0	0	4	0	0	0
NV LAS VEGAS	92	70	98	64	81	-2	1.21	1.13	0.61	1.36	971	6.43	219	77	31	5	0	0	5	2	1	0
NV RENO	78	55	86	48	67	4	0.82	0.74	0.29	1.23	879	9.93	196	92	37	0	0	0	6	0	0	0
NV WINNEMUCCA	77	53	88	48	65	3	1.85	1.77	1.15	1.97	1407	12.28	220	96	37	0	0	0	7	1	1	0
NH CONCORD	75	47	91	41	61	0	0.40	-0.26	0.26	0.47	41	27.70	112	88	44	1	0	0	3	0	0	0
NJ NEWARK	81	58	92	54	69	-2	2.08	1.18	2.03	2.47	181	39.50	126	80	37	2	0	0	2	1	1	0
NM ALBUQUERQUE	88	66	99	62	78	5	0.00	-0.25	0.00	0.00	0	7.20	111	50	17	0	0	0	0	0	0	0
NY ALBANY	75	52	89	45	63	0	0.59	-0.11	0.43	1.00	81	31.43	123	92	52	0	0	0	3	0	0	0
NY BINGHAMTON	72	51	90	48	62	0	1.23	0.41	0.63	1.28	94	32.00	124	94	64	1	0	0	3	2	1	0
NY BUFFALO	70	55	79	48	63	-1	0.72	-0.13	0.59	1.63	109	28.78	111	93	57	0	0	0	2	1	1	0
NY ROCHESTER	71	53	84	45	62	-1	1.52	0.79	0.78	1.66	131	36.18	163	93	59	0	0	0	4	1	1	0
NY SYRACUSE	73	56	87	50	64	1	1.83	0.92	0.93	1.99	129	30.43	115	89	55	0	0	0	4	1	1	0
NC ASHEVILLE	83	61	91	40	67	-1	0.08	-0.85	0.08	0.28	17	39.09	113	95	29	1	0	0	1	0	0	0
NC CHARLOTTE	83	58	90	49	70	-4	0.00	-0.83	0.00	3.18	224	33										

Weather Data for the Week Ending September 12, 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 Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL IN, SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.	
																90 AND ABOVE	92 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OK TOLEDO	78	56	91	49	68	1	0.80	-0.10	0.58	0.68	55	27.98	118	83	45	1	0	2	1
OK YOUNGSTOWN	75	51	90	42	63	-1	1.10	0.27	0.47	1.11	78	28.56	107	91	49	1	0	3	0
OK OKLAHOMA CITY	96	70	104	57	83	7	0.05	-0.83	0.05	0.05	3	18.54	80	65	30	6	0	1	0
OR TULSA	96	68	105	56	82	7	0.02	-1.07	0.02	0.02	1	27.58	98	68	24	6	0	1	0
OR ASTORIA	68	50	73	44	59	-1	0.02	-0.54	0.01	0.04	4	45.55	120	100	60	0	0	2	0
OR BURNS	76	49	89	40	63	5	0.88	0.72	0.59	0.88	358	12.68	195	85	31	0	0	4	1
OR EUGENE	81	46	90	39	64	-1	0.00	-0.34	0.00	0.08	14	27.90	100	87	29	1	0	0	0
OR MEDFORD	83	53	97	42	68	1	0.00	-0.18	0.00	0.00	0	17.98	175	75	24	2	0	0	0
OR PENDLETON	81	57	96	48	69	3	0.24	0.10	0.21	0.24	100	9.29	121	79	31	1	0	3	0
OR PORTLAND	80	55	89	47	67	2	0.00	-0.37	0.00	0.00	0	25.01	119	84	33	0	0	0	0
OR SALEM	80	49	88	43	65	1	0.00	-0.31	0.00	0.00	0	28.50	129	89	32	0	0	0	0
PA ALLENTOWN	77	53	87	47	65	-2	0.91	-0.05	0.91	1.89	101	31.87	103	96	46	0	0	1	1
PA ERIE	74	60	83	56	67	1	0.56	-0.49	0.39	0.89	50	25.55	93	82	49	0	0	3	0
PA MIDDLETOWN	82	57	93	63	70	1	1.18	0.35	1.18	1.63	108	41.53	145	87	37	2	0	1	1
PA PHILADELPHIA	81	60	90	55	71	0	0.43	-0.41	0.42	1.15	79	27.11	90	82	38	2	0	2	0
PA PITTSBURGH	78	51	90	46	63	-3	0.79	0.07	0.36	0.79	63	28.32	105	90	47	1	0	3	0
PA WILKES-BARRE	73	51	84	45	62	-3	0.85	0.03	0.85	2.05	150	29.58	114	95	50	0	0	0	0
PA WILLIAMSPORT	79	52	91	47	65	0	0.34	-0.46	0.33	0.73	53	34.68	121	94	41	2	0	2	0
RI PROVIDENCE	78	56	88	52	67	1	1.06	0.24	0.58	1.06	75	43.65	141	88	46	0	0	3	1
SC BEAUFORT	86	65	93	55	75	-2	0.68	-1.30	0.68	2.89	67	45.32	111	99	47	3	0	1	1
SC CHARLESTON	86	64	93	54	75	-3	0.47	-0.78	0.47	3.08	139	49.58	123	96	44	2	0	1	0
SC COLUMBIA	88	61	94	51	74	-2	0.00	-0.94	0.00	5.33	314	41.59	108	88	37	3	0	0	0
SC GREENVILLE	85	59	92	50	72	-1	1.08	0.17	0.87	2.44	158	40.71	110	92	36	2	0	2	1
SD ABERDEEN	83	56	96	45	69	7	0.01	-0.45	0.01	0.01	1	19.57	127	83	38	1	0	1	0
SD HURON	86	58	100	47	72	8	0.00	-0.42	0.00	0.00	0	18.52	113	79	36	2	0	0	0
SD RAPID CITY	88	59	100	52	74	11	0.00	-0.30	0.00	0.00	0	12.87	93	80	33	2	0	0	0
SD SIOUX FALLS	84	56	92	43	70	6	0.02	-0.72	0.02	0.04	3	21.27	115	83	36	3	0	1	0
TN BRISTOL	83	51	93	42	67	-3	0.61	-0.16	0.60	0.61	46	35.19	118	98	32	0	0	2	1
TN CHATTANOOGA	90	60	97	50	75	0	0.00	-0.99	0.00	0.00	0	43.40	114	90	29	3	0	0	0
TN KNOXVILLE	86	57	96	49	72	0	0.13	-0.69	0.10	0.13	11	42.85	125	96	29	3	0	2	0
TN MEMPHIS	88	68	97	59	78	1	0.00	-0.85	0.00	0.00	0	41.95	118	74	37	2	0	0	0
TN NASHVILLE	88	58	99	48	73	-1	0.10	-0.75	0.08	0.10	7	40.00	118	86	28	3	0	2	0
TX ABILENE	92	69	99	67	80	2	0.07	-0.70	0.05	0.07	5	9.93	57	78	33	5	0	2	0
TX AMARILLO	91	62	97	56	78	5	1.08	0.68	1.08	1.08	118	9.77	61	69	28	3	0	1	1
TX AUSTIN	89	74	98	71	81	-1	2.78	2.06	2.36	2.88	240	17.24	78	94	52	4	0	3	1
TX BEAUMONT	86	75	90	73	81	0	6.72	5.20	3.24	6.72	259	40.25	102	95	70	2	0	5	3
TX BROWNSVILLE	87	75	94	73	81	-2	6.57	5.14	4.53	7.10	302	11.54	68	99	73	3	0	6	2
TX CORPUS CHRISTI	86	75	95	73	80	-2	2.89	1.37	1.12	2.89	122	13.68	65	96	68	2	0	7	2
TX DEL RIO	92	73	96	72	82	1	0.09	-0.54	0.09	0.09	9	23.91	188	95	51	5	0	1	0
TX EL PASO	91	66	93	64	78	2	0.00	-0.42	0.00	0.14	19	3.44	58	59	25	7	0	0	0
TX FORT WORTH	91	73	100	68	82	2	0.27	-0.48	0.15	0.27	22	18.86	79	75	40	5	0	2	0
TX GALVESTON	88	73	94	70	80	1	10.83	9.16	7.98	10.70	434	44.14	162	98	65	0	0	7	4
TX HOUSTON	88	73	94	70	80	1	7.58	6.45	6.14	7.58	406	30.28	97	99	64	4	0	6	3
TX LUBBOCK	89	61	92	57	75	2	0.00	-0.63	0.00	0.00	0	9.44	68	77	30	4	0	0	0
TX MIDLAND	92	66	98	63	79	4	0.00	-0.62	0.00	0.00	0	3.72	36	71	25	6	0	0	0
TX SAN ANGELO	91	66	95	62	78	1	0.08	-0.71	0.08	0.08	6	9.03	64	83	32	5	0	1	0
TX SAN ANTONIO	86	72	92	71	79	-3	1.60	0.82	0.95	1.60	122	20.24	94	92	53	4	0	6	1
TX VICTORIA	86	74	93	73	80	-1	6.31	5.00	3.59	6.47	298	20.56	79	97	64	3	0	5	2
TX WACO	90	71	99	69	80	0	1.98	1.20	1.06	1.98	156	17.94	81	88	48	4	0	3	2
TX WICHITA FALLS	95	70	102	57	83	5	0.00	-0.89	0.00	0.00	0	15.89	76	94	30	5	0	0	0
UT SALT LAKE CITY	82	62	91	57	72	5	0.59	0.31	0.34	0.59	128	19.07	189	78	35	1	0	4	0
VT BURLINGTON	71	54	87	47	62	1	1.30	0.49	0.77	1.90	134	42.89	178	94	57	0	0	4	1
VA LYNCHBURG	84	52	94	44	68	-2	0.07	-0.67	0.04	0.13	10	40.28	140	91	27	3	0	2	0
VA NORFOLK	83	63	94	58	73	-1	0.85	-0.31	0.84	1.93	117	46.08	139	83	43	1	0	2	1
VA RICHMOND	83	59	95	64	71	-1	0.73	-0.07	0.58	2.80	201	38.87	124	87	34	2	0	2	1
VA ROANOKE	85	57	95	49	71	1	0.42	-0.42	0.42	0.42	30	40.12	138	81	30	3	0	1	0
VA WASHDULLES	86	55	97	50	70	1	0.51	-0.30	0.51	0.51	38	32.44	114	87	31	3	0	1	1
WA HANFORD	85	58	94	48	72	-	0.00	-	0.00	0.00	-	4.32	-	56	23	1	0	0	0
WA OLYMPIA	77	46	86	40	62	2	0.02	-0.43	0.01	0.02	3	26.55	93	96	41	0	0	2	0
WA QUILLAYUTE	67	44	74	36	56	-2	0.13	-0.78	0.08	0.14	10	48.02	79	99	63	0	0	4	0
WA SEATTLE-TACOMA	74	54	81	50	64	2	0.00	-0.39	0.00	0.00	0	19.19	91	86	40	0	0	0	0
WA SPOKANE	81	53	94	42	67	5	0.04	-0.13	0.04	0.04	14	10.25	87	76	22	1	0	1	0
WV YAKIMA	84	50	95	41	67	4	0.00	-0.09	0.00	0.00	0	6.93	142	83	29	1	0	0	0
WV BECKLEY	78	49	88	41	63	-2	0.42	-0.38	0.31	0.42	31	38.65	129	97	36	0	0	3	0
WV CHARLESTON	80	52	94	46	66	-4	1.29	0.50	1.12	1.29	94	40.41	131	99	39	1	0	3	1
WV ELKINS	73	46	86	41	59	-5	2.89	2.07	2.78	3.03	191	40.39	123	100	50	0	0	4	1
WV HUNTINGTON	84	53	94	44	69	-1	0.34	-0.38	0.34	0.34	28	35.38	117	96	30	3			

Summer Weather Review

Highlights: Although Tropical Storm Charley eased or ended long-term dryness in parts of southern Texas and caused severe flooding near the Del Rio, TX area in late August, drought stretched into a sixth month in a broad region centered on the Red River (Texas-Oklahoma border). Drought also persisted in the Southeast, despite limited improvement during July and August. In the Northwest, nearly forgotten amid heat and dryness in the South, very hot weather prevailed. Warm weather finally arrived in the West, including California's Central Valley, during July, promoting crop development after a very cool, wet spring. Meanwhile in the Midwest, nearly ideal temperatures and soil moisture helped corn and soybeans through reproductive and filling phases with little stress. A few areas across the Nation's northern tier remained unfavorably dry, especially in the upper Great Lakes region, and drought developed in parts of the Mid-Atlantic States as summer progressed. In late August, Hurricane Bonnie grazed eastern North Carolina and southeastern Virginia with heavy rain, high winds, and rough surf.

June: Very cool weather continued in the West, accompanied by unseasonably wet conditions, severely delaying crop development. Heavy rain in the Midwest, Ohio Valley, and Northeast caused some lowland flooding but provided ample moisture for developing crops. In contrast, drought intensified under a hot, dry regime from eastern New Mexico to the southern Atlantic Coast. Wildfires spread quickly in parts of Florida, becoming especially severe in east-central parts of the State.

In California, where temperatures ranged from 2 to 8°F below normal in inland areas, drier weather finally arrived early in

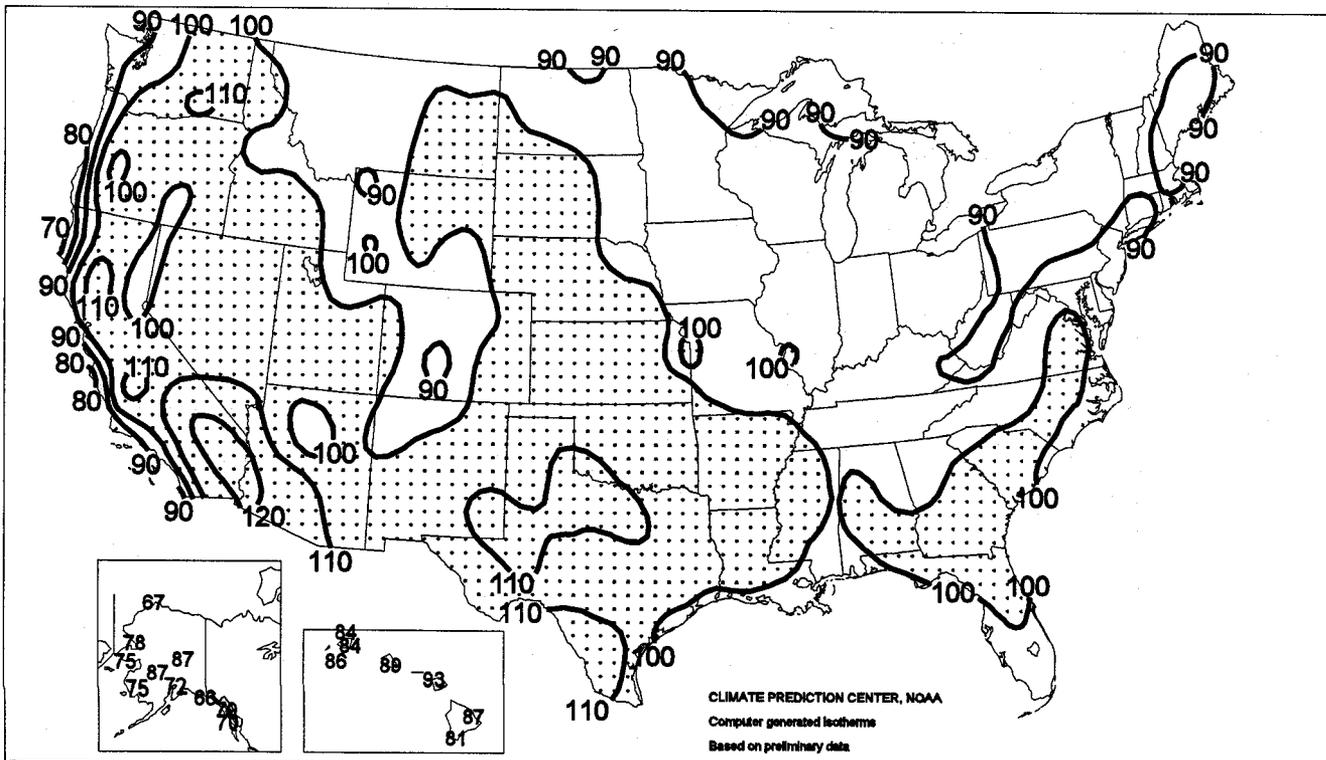
the month. Monthly temperatures also averaged more than 2°F below normal across the Great Basin, northern Plains, upper Midwest, and northern Rockies, with departures reaching -8°F in the latter region. In contrast, monthly temperatures ranged from 2 to 6°F above normal from the southern Plains into the Southeast.

July: Punishingly hot, dry weather gripped a five-State area from eastern New Mexico to parts of Arkansas and Louisiana. In the Southeast, however, increased rainfall and slightly cooler weather eased crop stress and gradually suppressed the wildfire threat. Farther north, Midwestern temperature and rainfall patterns remained very favorable for corn and soybeans entering and progressing through reproduction, although some dry pockets developed in the northern Corn Belt. Portions of the Mid-Atlantic States turned unfavorably dry and occasionally hot. Meanwhile in the West, a mid-month break in seasonal shower (monsoonal) activity permitted a spell of very hot weather to take hold. The heat briefly expanded across the Central States, especially from July 11-20. Later in the month, frequent thunderstorms developed on the central Plains, boosting soil moisture after the hot weather.

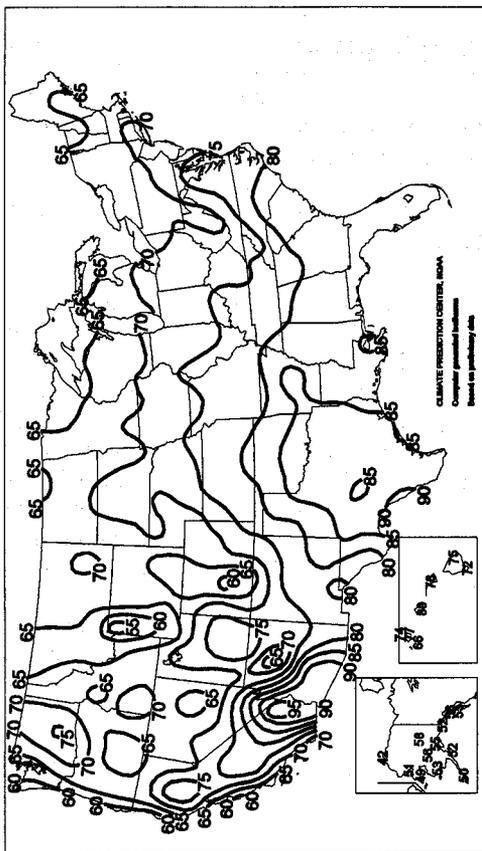
Monthly temperatures averaged 3 to 7°F above normal in the South Central States' drought area, but were within 2°F of normal in the Corn Belt. Departures reached +6°F in the Northwest and ranged from 0 to +4°F in the northern Plains and the Southeast. Near-normal temperatures prevailed elsewhere.

August: A complete summary appeared in last week's *Bulletin*.

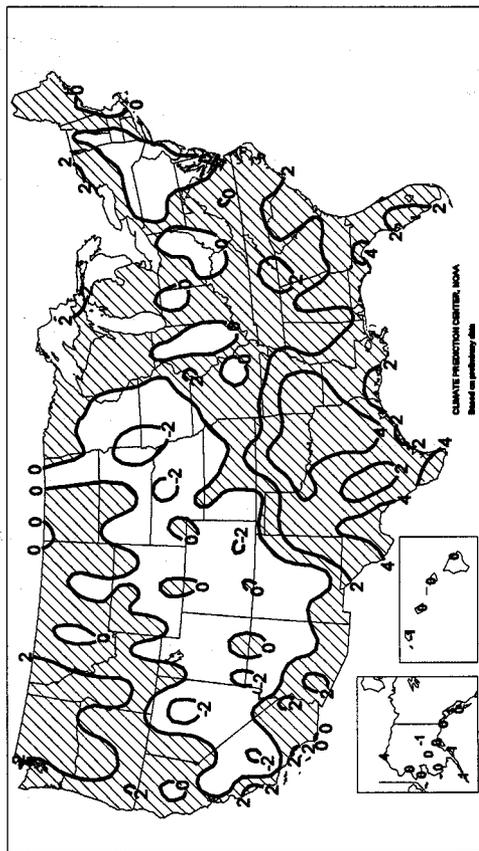
Summer Extreme Maximum Temperature (°F) JUN - AUG 1998



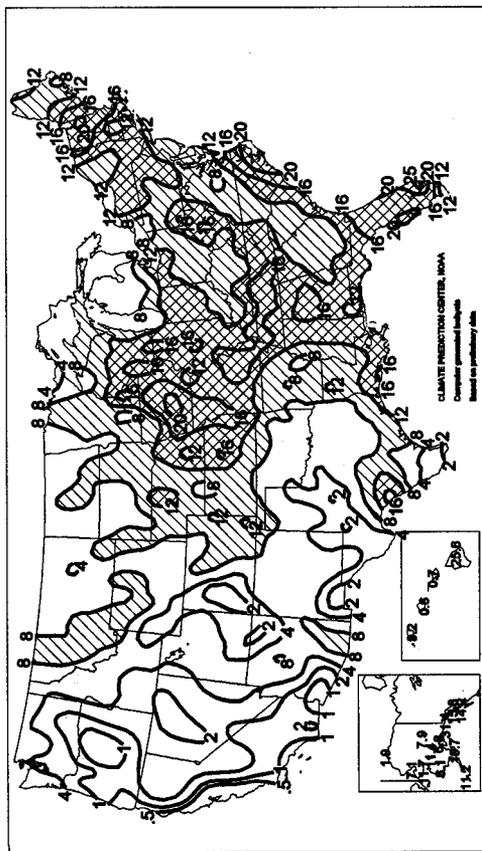
Summer Average Temperature (°F)
JUN - AUG 1998



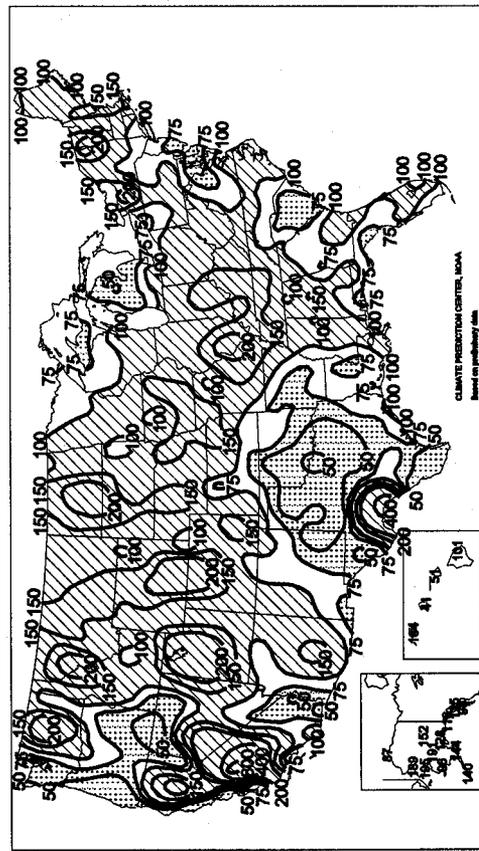
Summer Departure from Normal Average Temperature (°F)
JUN - AUG 1998



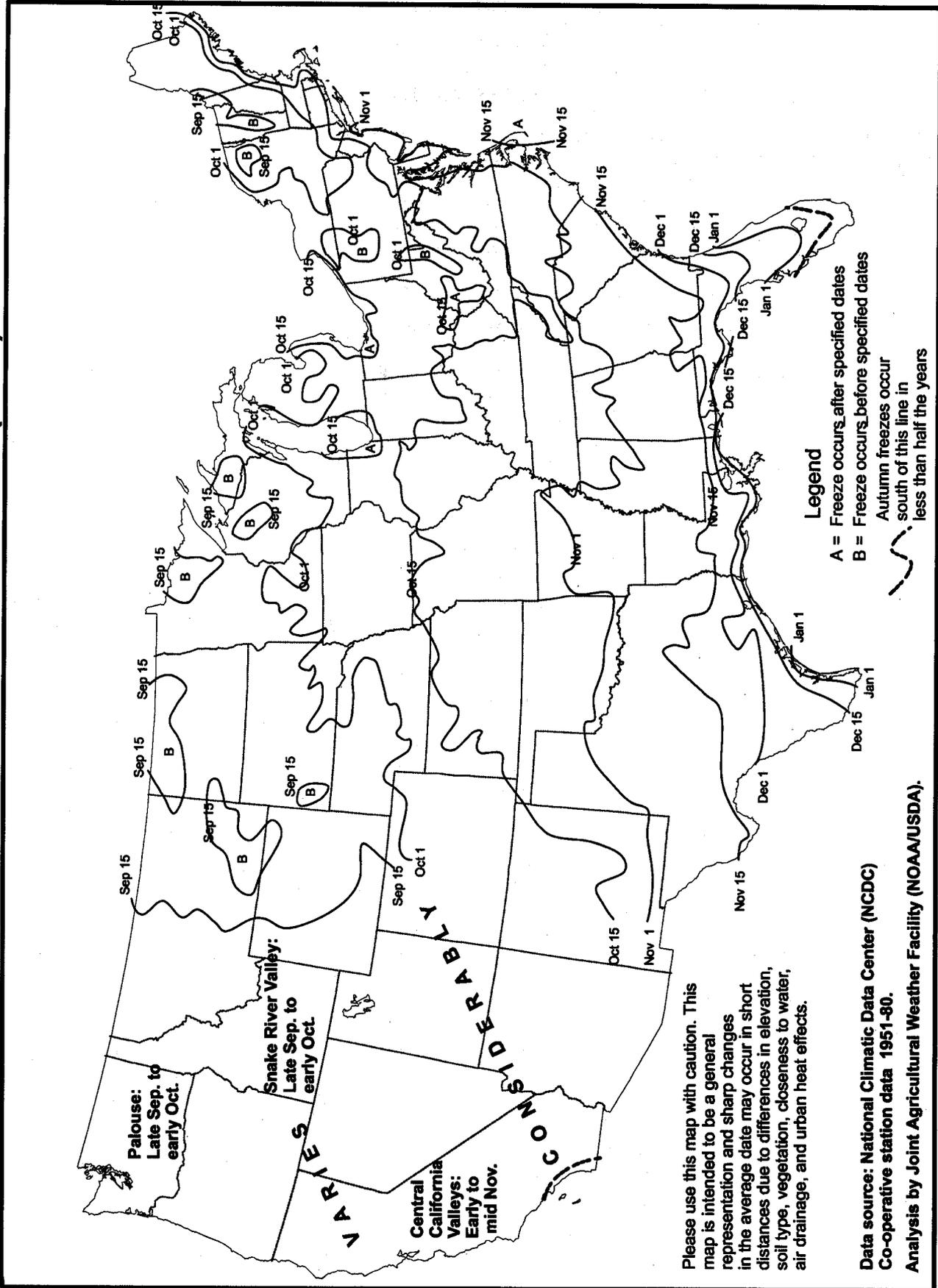
Summer Total Precipitation (Inches)
JUN - AUG 1998



Summer Percent of Normal Precipitation
JUN - AUG 1998



United States: Average dates of first autumn freeze (32°F)



Please use this map with caution. This map is intended to be a general representation and sharp changes in the average date may occur in short distances due to differences in elevation, soil type, vegetation, closeness to water, air drainage, and urban heat effects.

Data source: National Climatic Data Center (NCDC)
 Co-operative station data 1951-80.
 Analysis by Joint Agricultural Weather Facility (NOAA/USDA).

National Agricultural Summary

September 7 - 13, 1998

HIGHLIGHTS

Rains from Tropical Storm Frances reached the western Gulf Coast at midweek, halting harvest and other fieldwork. In eastern Texas and the Mississippi Delta, late-season crops benefited from the rains, but severe flooding caused considerable damage in low-lying areas. In the Corn Belt, warm, dry weather promoted rapid drying of crops and harvest activity began. Late-developing fields in the driest areas of the

Corn Belt remained stressed by dry conditions. Across the northern Great Plains and Pacific Northwest, dry weather allowed small grain harvest to approach completion and aided fall tillage and seeding operations. In the central and southern Great Plains, fall tillage continued, but dry soils forced most growers to delay planting. Crop development in the Southwest continued to lag.

Corn: Above-normal temperatures across most of the Corn Belt and Great Plains continued to promote rapid development and dry down. Corn in the dent stage or beyond advanced to 93 percent and over half of the crop has reached maturity. Nationally, progress in both stages remained a week or more ahead of normal, and 2 weeks ahead of the average across most of the northern Corn Belt. Development lagged behind normal along the Atlantic Coast. Dry weather stressed developing fields in the Corn Belt and Great Plains, but also allowed harvest progress to double, to 8 percent. Harvest was most active along the Ohio and middle Mississippi River Valleys, with progress as much as 2 weeks ahead of normal.

Soybeans: Thirty-eight percent of the Nation's soybeans were dropping leaves, up from 13 percent the previous week and well ahead of the 19 percent average pace. Development was especially rapid across the northern Corn Belt, where leaves were dropping at twice the normal pace. Harvest was 2 percent complete, with progress just beginning in the Corn Belt and northern Mississippi Delta. Farmers made rapid progress in the lower Mississippi Delta until heavy rains from Tropical Storm Frances halted progress late in the week. Hot, dry weather stressed fields in the Southeast and Ohio Valley, while diseases caused isolated damage in the Corn Belt.

Cotton: Bolls were opening on 62 percent of the Nation's cotton fields, nearly 1 week ahead of the normal pace of 53 percent. In Oklahoma, progress of bolls opening more than doubled, and was more than 3 times than the normal pace. Harvest was also ahead of the 5-year average at 12 percent. Progress was most advanced in Texas, but was also ahead of normal in most of the Gulf Coast States. Late-week rain halted progress in Texas and the lower Mississippi Valley. Growers in the southern Great Plains, Mississippi Delta, and Southeast were applying defoliant to prepare fields for harvest.

Development continued to lag up to 3 weeks behind normal in the Southwest. Lack of moisture stressed cotton in the Southeastern States.

Winter wheat: Dry weather in the Great Plains and Pacific Northwest provided good conditions to prepare fields for planting winter wheat. However, planting fell slightly behind the 5-year average, as growers in parts of the central and southern Great Plains and eastern Corn Belt waited for rain to replenish soil moisture. Seeding progress continued at a rapid pace in Washington and the northern Great Plains, where soil moisture was adequate to germinate seeds. Three percent of the crop had emerged due to rapid emergence in South Dakota and Washington.

Rice: Harvest progressed to 48 percent complete, as activity shifted from the western Gulf Coast region to inland Mississippi Delta rice-producing areas. Late-week rain halted harvest but provided much-needed moisture for second growth stubble. Harvest was just beginning in the San Joaquin Valley.

Sorghum: Sorghum coloring reached 90 percent, more than 1 week ahead of the 78 percent average for this date. Harvest was active in the Mississippi Delta States until late-week rains from Tropical Storm Frances moved inland from the Gulf Coast. Late-planted fields in the southern Great Plains and lower Mississippi Valley benefited from the moisture.

Peanuts: The peanut harvest accelerated, but remained behind the 9 percent normal pace. Texas growers made good progress until tropical storms halted activity late in the week. Major peanut-producing States in the Southeast and along the Atlantic Coast were dry, but hard ground impeded harvest in many areas. White mold continued to infect fields, especially in Florida.

Crop Progress and Condition

Week Ending September 13, 1998

Soybeans Percent Dropping Leaves

	Sep 13 1998	Prev Week	Prev Year	5-Yr Avg
AL	22	18	16	17
AR	17	6	7	9
GA	29	23	26	20
IL	22	6	13	16
IN	63	32	24	23
IA	34	4	17	16
KS	60	27	26	25
KY	18	10	8	13
LA	65	37	41	31
MI	44	25	9	19
MN	53	12	21	19
MS	55	36	38	33
MO	27	6	14	11
NE	25	4	15	18
NC	15	5	12	10
OH	50	17	19	28
SC	7	5	10	3
SD	62	25	44	39
TN	24	10	8	12
ALL	38	13	19	19

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

Soybeans Percent Harvested

	Sep 13 1998	Prev Week	Prev Year	5-Yr Avg
AL	1	NA	0	0
AR	4	NA	2	3
GA	0	NA	0	0
IL	1	NA	0	1
IN	3	NA	0	1
IA	0	NA	0	0
KS	4	NA	3	1
KY	0	NA	0	0
LA	25	NA	18	10
MI	1	NA	0	0
MN	1	NA	0	0
MS	17	NA	10	10
MO	1	NA	0	0
NE	1	NA	0	1
NC	0	NA	0	0
OH	1	NA	0	1
SC	0	NA	0	0
SD	1	NA	0	0
TN	0	NA	0	0
ALL	2	NA	1	1

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

Winter Wheat Percent Planted

	Sep 13 1998	Prev Week	Prev Year	5-Yr Avg
AR	0	0	0	1
CA	0	0	0	0
CO	25	6	27	26
GA	0	0	0	0
ID	7	2	14	10
IL	0	0	0	0
IN	1	1	3	2
KS	5	2	6	7
MI	4	1	7	7
MO	0	0	1	1
MT	8	4	17	7
NE	33	9	36	29
NC	0	0	1	1
OH	0	0	1	1
OK	4	1	12	13
OR	1	0	3	4
SD	29	17	42	31
TX	25	16	18	21
WA	55	35	28	40
ALL	13	6	14	14

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

Winter Wheat Percent Emerged

	Sep 13 1998	Prev Week	Prev Year	5-Yr Avg
AR	0	NA	0	0
CA	0	NA	0	0
CO	0	NA	0	1
GA	0	NA	0	0
ID	1	NA	3	1
IL	0	NA	0	0
IN	0	NA	2	0
KS	0	NA	2	2
MI	0	NA	1	0
MO	0	NA	0	0
MT	0	NA	0	0
NE	3	NA	3	3
NC	0	NA	0	0
OH	0	NA	0	0
OK	0	NA	2	1
OR	0	NA	0	0
SD	10	NA	9	7
TX	6	NA	3	5
WA	25	NA	15	22
ALL	3	NA	3	3

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

Cotton Percent Bolls Opening

	Sep 13 1998	Prev Week	Prev Year	5-Yr Avg
AL	62	51	32	46
AZ	80	64	93	95
AR	65	48	42	55
CA	5	3	93	78
GA	68	59	42	59
LA	91	88	77	83
MS	95	86	54	75
MO	78	51	50	49
NM	51	33	56	57
NC	70	50	28	52
OK	78	35	14	24
SC	60	40	35	51
TN	70	50	32	60
TX	57	49	37	39
ALL	62	51	46	53

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

Cotton Percent Harvested

	Sep 13 1998	Prev Week	Prev Year	5-Yr Avg
AL	4	NA	1	1
AZ	4	NA	7	6
AR	1	NA	0	2
CA	0	NA	0	0
GA	7	NA	0	3
LA	7	NA	1	4
MS	8	NA	3	4
MO	0	NA	0	1
NM	0	NA	0	0
NC	0	NA	0	1
OK	1	NA	0	0
SC	3	NA	0	1
TN	2	NA	0	1
TX	26	NA	14	18
ALL	12	NA	6	8

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

Rice Percent Harvested

	Sep 13 1998	Prev Week	Prev Year	5-Yr Avg
AR	41	17	17	25
CA	1	0	19	5
LA	87	86	82	77
MS	57	40	30	40
TX	89	85	69	77
ALL	48	35	35	37

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

Crop Progress and Condition

Week Ending September 13, 1998

Corn Percent Dented				
	Sep 13 1998	Prev Week	Prev Year	5-Yr Avg
CO	79	50	65	66
GA	100	100	100	100
IL	87	72	84	82
IN	85	76	64	77
IA	96	88	80	74
KS	99	96	93	89
KY	95	88	88	94
MI	93	79	24	48
MN	99	96	75	69
MO	100	93	96	88
NE	99	94	84	79
NC	90	85	95	97
OH	87	60	62	71
PA	50	44	54	63
SD	93	74	75	68
TX	100	99	98	97
WI	95	77	42	55
ALL	93	82	76	76
These 17 States planted 90% of last year's corn acreage.				

Corn Percent Mature				
	Sep 13 1998	Prev Week	Prev Year	5-Yr Avg
CO	30	0	16	9
GA	100	99	99	99
IL	45	20	13	23
IN	46	28	17	22
IA	65	29	20	26
KS	83	58	41	48
KY	68	54	40	57
MI	47	16	2	9
MN	41	13	2	10
MO	75	52	55	50
NE	47	9	11	15
NC	85	70	87	92
OH	19	8	2	11
PA	16	7	16	16
SD	35	21	17	17
TX	92	88	75	78
WI	36	9	5	15
ALL	51	25	19	25
These 17 States planted 90% of last year's corn acreage.				

Corn Percent Harvested				
	Sep 13 1998	Prev Week	Prev Year	5-Yr Avg
CO	0	0	0	0
GA	86	70	77	77
IL	3	0	0	1
IN	4	1	1	1
IA	3	0	0	1
KS	21	12	6	9
KY	28	2	9	12
MI	4	1	0	0
MN	1	0	0	0
MO	25	19	15	13
NE	2	1	0	1
NC	50	30	34	40
OH	3	2	0	1
PA	1	0	5	2
SD	1	0	0	0
TX	67	65	54	63
WI	2	0	0	0
ALL	8	4	4	4
These 17 States planted 90% of last year's corn acreage.				

Sorghum Percent Coloring				
	Sep 13 1998	Prev Week	Prev Year	5-Yr Avg
AR	95	90	96	97
CO	72	51	27	54
IL	74	47	61	68
KS	92	83	75	73
LA	100	100	100	99
MS	100	97	96	97
MO	94	89	85	79
NE	92	79	79	71
NM	33	25	48	46
OK	93	75	74	74
SD	86	68	79	66
TX	92	87	85	88
ALL	90	81	78	78
These 12 States planted 99% of last year's sorghum acreage.				

Sorghum Percent Mature				
	Sep 13 1998	Prev Week	Prev Year	5-Yr Avg
AR	80	66	60	73
CO	18	1	0	8
IL	20	19	7	14
KS	38	25	18	16
LA	100	99	97	92
MS	92	83	87	87
MO	50	43	30	34
NE	29	5	6	10
NM	2	1	2	5
OK	31	22	15	18
SD	32	16	20	18
TX	70	65	59	70
ALL	48	37	32	36
These 12 States planted 99% of last year's sorghum acreage.				

Sorghum Percent Harvested				
	Sep 13 1998	Prev Week	Prev Year	5-Yr Avg
AR	58	41	35	45
CO	0	0	0	0
IL	1	0	0	0
KS	10	9	5	3
LA	90	77	78	67
MS	70	49	38	54
MO	18	5	4	7
NE	0	0	0	0
NM	0	0	0	0
OK	13	5	3	4
SD	6	4	0	0
TX	57	54	54	63
ALL	27	24	22	25
These 12 States planted 99% of last year's sorghum acreage.				

Crop Progress and Condition

Week Ending September 13, 1998

Peanuts Percent Harvested

	Sep 13 1998	Prev Week	Prev Year	5-Yr Avg
AL	10	2	21	16
FL	10	9	23	8
GA	5	1	12	14
NC	0	0	1	1
OK	0	0	1	1
SC	13	10	11	13
TX	13	2	5	4
VA	1	1	0	2
ALL	7	2	10	9

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

Soybeans Crop Condition by Percent

	VP	P	F	G	EX
AL	5	36	30	26	3
AR	10	24	41	21	4
GA	27	21	36	16	0
IL	4	9	27	43	17
IN	3	9	28	46	14
IA	2	5	20	47	26
KS	3	13	26	47	11
KY	3	20	44	29	4
LA	14	26	33	23	4
MI	4	19	37	30	10
MN	2	4	23	52	19
MS	5	22	34	34	5
MO	8	16	33	34	9
NE	0	1	16	62	21
NC	4	8	30	53	5
OH	1	5	23	52	19
SC	11	22	44	23	0
SD	0	3	14	52	31
TN	6	15	29	40	10
ALL	4	10	26	44	16
Prev Wk	3	9	25	47	16
Prev Yr	2	9	31	46	12

Rice Crop Condition by Percent

	VP	P	F	G	EX
AR	0	9	28	43	20
CA	0	0	5	90	5
LA	0	3	35	54	8
MS	0	5	28	52	15
TX	0	5	26	58	11
ALL	0	6	25	55	14
Prev Wk	0	5	24	56	15
Prev Yr	0	2	34	53	11

Corn Crop Condition by Percent

	VP	P	F	G	EX
CO	1	2	13	45	39
GA	37	29	23	10	1
IL	4	9	29	45	13
IN	2	7	31	46	14
IA	2	7	23	45	23
KS	1	3	19	56	21
KY	2	4	28	53	13
MI	8	26	35	26	5
MN	2	3	21	53	21
MO	2	14	37	37	10
NE	0	3	16	61	20
NC	10	24	40	26	0
OH	2	7	24	49	18
PA	3	9	32	50	6
SD	0	3	11	53	33
TX	5	31	32	27	5
WI	1	6	22	40	31
ALL	3	8	24	47	18
Prev Wk	3	7	23	50	17
Prev Yr	3	8	28	47	14

Cotton Crop Condition by Percent

	VP	P	F	G	EX
AL	6	10	50	32	2
AZ	0	6	38	29	27
AR	3	15	39	36	7
CA	0	0	55	45	0
GA	14	20	34	27	5
LA	10	24	37	24	5
MS	5	13	35	42	5
MO	9	21	38	32	0
NM	0	9	19	49	23
NC	1	5	35	51	8
OK	6	14	34	40	6
SC	9	22	42	27	0
TN	4	12	31	45	8
TX	20	25	35	17	3
ALL	12	18	37	28	5
Prev Wk	13	19	34	29	5
Prev Yr	2	11	29	47	11

Sorghum Crop Condition by Percent

	VP	P	F	G	EX
AR	4	19	42	31	4
CO	0	1	7	78	14
IL	6	9	32	52	1
KS	1	5	25	54	15
LA	1	22	43	31	3
MS	0	21	57	22	0
MO	1	10	30	52	7
NE	0	1	11	72	16
NM	14	52	23	11	0
OK	7	6	13	73	1
SD	0	3	13	70	14
TX	17	31	34	16	2
ALL	7	15	26	43	9
Prev Wk	6	15	27	44	8
Prev Yr	3	5	22	57	13

Peanuts Crop Condition by Percent

	VP	P	F	G	EX
AL	1	10	61	25	3
FL	0	0	73	27	0
GA	7	13	32	39	9
NC	0	0	12	81	7
OK	4	16	42	37	1
SC	12	34	42	12	0
TX	14	19	36	20	11
VA	1	11	31	53	4
ALL	6	12	39	36	7
Prev Wk	7	11	35	40	7
Prev Yr	4	18	40	30	8

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

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/ocel/waobljawf>.

ALABAMA: Days suitable for fieldwork 6.6. Topsoil moisture 48% very short, 32% short, 20% adequate. Dry conditions prevailed over most of the State. Overnight temperatures dropped in many areas. Cotton bolls opened 62%, 22% 1997, 33% avg. Soybeans setting pods 97%, 89% 1997, 89% avg. Soybeans dropping leaves 22%, 16% 1997, 17% avg. Peanuts dug 14%, 29% 1997, 24% avg. Cotton 6% very poor, 10% poor, 50% fair, 32% good, 2% excellent. Soybean 5% very poor, 36% poor, 30% fair, 26% good, 3% excellent. Peanut 1% very poor, 10% poor, 61% fair, 25% good, and 3% excellent. Livestock 1% very poor, 6%, poor, 53% fair, 37% good, 3% excellent. Pasture feed 8% very poor, 35% poor, 44% fair, 13% good. Some cotton was defoliated. Soybean pod filling was affected by dry weather. Hard ground caused by lack of rainfall impeded peanut harvest in many areas. Cattlemen prepared ground for fall forage crops.

ALASKA: Days suitable for fieldwork 4.5. Topsoil 100% adequate. Subsoil 25% short, 75% adequate. Continued favorable conditions across the Tanana, Matanuska Valleys allowed fall harvests to advance. Daytime high temperatures ranged mostly in the upper 50's degrees Fahrenheit to low-60's. However, some highs in the upper 40's reported at week's end. Barley crop 70% harvested. Oats crop 10% harvested. Wind, rain damage to crops, 95% none, 5% light. Commercial potato crop 50% harvested. Second-crop hay, 35% harvested. Winter hay supplies, 35% short, 65% adequate. Other vegetable harvests started to decline.

ARIZONA: Cotton bolls opening was 80%, 93% 1997, 95% avg. The crop is catching up a little but is still roughly 1-2 weeks behind normal. Cotton condition improved a little from the previous week. Some reporters are indicating cotton boll rot has appeared in some fields. With the increased amount of rain this summer, weeds are also causing some management problems. Condition 6% poor, 38% fair, 29% good, 27% excellent. Alfalfa harvest activity was reported as 5% not being harvested, 36% light, 38% moderate, 8% active, 13% finished. Alfalfa condition declined from the previous week. Condition was reported as 1% poor, 7% fair, 70% good, 22% excellent. Range, pasture feed 2% very poor, 9% poor, 27% fair, 51% good, 11% excellent. Central area growers continued harvesting cantaloupes, watermelons while gala apples were harvested by eastern areas growers last week. Western areas citrus producers harvested lemons.

ARKANSAS: Days suitable for fieldwork 6.8. Soil moisture 50% very short, 42% short, 8% adequate. Tropical Storm Francis moved north from the Gulf across State 11th bringing abundant rain to southern areas; amounts in excess of 3 inches were common. Rain, clouds broke the hot, dry summer of 1998. Cooler weather improved working conditions throughout the week; however, crops have sustained their earlier-than-normal progress due to the hot, dry conditions that prevailed during the crop's earlier development stages. Main farming activities included starting the soybean, cotton harvest, continuing the rice, sorghum harvest, finishing the corn harvest. Other farm activities included defoliating cotton, irrigating late-variety soybeans, treating soybeans for insects, spraying pastures for armyworms, harvesting hay, bush hogging pastures. Dry weather has had an adverse effect on pasture conditions; as a result, some producers continue to feed hay to their herds. In addition, fall cattle herds are calving, some calves are being weaned. Cattle were also treated for external parasites and were reported in fair condition statewide. Corn 8% very poor, 19% poor, 45% fair, 25% good, 3% excellent. Alfalfa 8% very poor, 32% poor, 37% fair, 23% good, 0% excellent. Other hay 24% very poor, 32% poor, 31% fair, 13% good. Range, pasture feed 32% very poor, 31% poor, 29% fair, 8% good.

CALIFORNIA: Field activities progressed normally despite light rain in some areas. Ground preparation for fall seeded small grain crops continued. Harvest of corn for grain and silage remained active in the San Joaquin and Sacramento Valleys. Rice harvest began on a limited basis in the Sacramento Valley. Cotton bolls were opening in a few fields in the San Joaquin Valley. Excessive heat was still causing some cotton plants to shed bolls. Cotton growers were actively spraying for aphids, lygus, mites, worms

and whiteflies. Seed alfalfa, sugar beet harvests were ongoing in the San Joaquin, Imperial Valleys. Safflower harvest was winding down in the Sacramento Valley, while sunflower harvest was in full swing. Alfalfa, sugar beets were treated for armyworms. New crop sugarbeets were planted, bermuda grass seed was harvested in the Imperial Valley. Alfalfa, sudan grass were cut for hay or greenchopped. San Joaquin Valley flame seedless, red globe, fantasy seedless grapes were actively harvested for fresh consumption. French colombar grapes were harvested for wine. Thompson seedless variety grapes were picked for fresh, raisin, wine uses. About one-half of the grape crop intended for raisin use has been harvested, placed on open trays. Less than 10% have been rolled, 1% picked up. Rain caused sand to be embedded in drying grapes. Growers remain concerned about low sugar levels, bunch rot. Late-variety stone fruit picking continued. Gala, Granny Smith apple picking was active. Fig harvesting continued. Bartlett pear picking was active in Lake, Mendocino Counties. Asian pear picking was also active in the San Joaquin Valley. The prune harvest continued. Growers were concerned about fruit quality. Almond harvesting activity continued to increase. Walnut harvest was underway. Valencia orange harvest continued at a slow pace. New crop navel oranges were maturing, small sized fruit. Lemon, grapefruit picking continued. Strawberries were being planted, blossoms were seen in some fields. Fresh market, processing tomato harvest continued throughout the San Joaquin, Sacramento Valleys. Late blight persisted in several areas. Cauliflower, broccoli plants were progressing normally. Cabbage, carrot planting continued in the San Joaquin Valley. Honeydew, cantaloupe harvests continued in the San Joaquin, Sacramento Valleys. Watermelon harvesting continued in the Sacramento Valley. Ground was being prepared for winter onions in the Imperial Valley. San Joaquin Valley late pumpkin, squash crops were progressing well. Fall melons were still being treated for whitefly in the Imperial Valley. Insect pressure remained high throughout State major agricultural regions. Other vegetables harvested included bell peppers, sweet potatoes, eggplant, green onions, okra, processing onions, garlic, sweet corn, green beans, various herbs, cucumbers, carrots, beets, squash, radishes, exotic vegetables. Native pasture, rangeland were in good to fair condition over much of the State, with plenty of dry feed, adequate stockwater available. Supplemental feeding was necessary in a few areas. Irrigated pastures were in excellent condition. Low elevation range vegetation were very dry, fire danger was extreme. High temperatures contributed to livestock stress. Bees continued pollinating late-season melons.

COLORADO: Days suitable for fieldwork 6.7. Topsoil moisture 9% very short, 35% short, 55% adequate, 1% surplus. Subsoil moisture 8% very short, 26% short, 65% adequate 1% surplus. Continued hot, dry days with cooling nighttime temperatures have favored final maturity, early harvest of late-season crops. Spring barley 96% harvested, 97% 1997, 88% avg. Oats 89% harvested, 96% 1997, 82% avg. Dry onions 63% harvested, 75% 1997, 64% avg. Sugar beets 4% fair, 66% good, 30% excellent. Summer potatoes 73% harvested, 63% 1997, 62% avg. Fall potatoes 19% harvested, 13% 1997, 12% avg.; 2% poor, 7% fair, 40% good, 51% excellent. Dry beans 63% cut, 51% 1997, 52% avg.; 30% threshed, 33% 1997, 34% avg.; 1% poor, 29% fair, 49% good, 21% excellent. Alfalfa 61% 3rd cutting, 53% 1997, 49% avg.; 1% very poor, 3% poor, 21% fair, 61% good, 14% excellent. Spring wheat 72% harvested, 59% 1997, 67% avg. Pasture feed, range feed in mostly fair to good condition.

DELAWARE: Days suitable for fieldwork 5.7. Topsoil moisture 3% very short, 49% short, 48% adequate. Subsoil moisture 38% short, 62% adequate. Soybeans 83% setting pods, 79% 1997, 88% avg.; 25% turned, 12% 1997, 17% avg.; 8% shedding leaves, 5% 1997, 6% avg.; 10% poor, 34% fair, 48% good, 8% excellent. Field corn 85% dent, 80% 1997, 90% avg.; 45% mature, 28% 1997, 47% avg.; 18% combined, 6% 1997, 11% avg.; 4% very poor, 24% poor, 38% fair, 30% good, 4% excellent. Silage 60% harvested, 58% 1997, 65% avg. Apples 53% harvested, 60% 1997, 48% avg.; 2% poor, 12% fair, 75% good, 11% excellent. Sorghum 45% turning color, 32% 1997, 39% avg.; 8% mature, 0% 1997, 10% avg.; 5% poor, 40% fair, 55% good condition. Sweet corn 82% harvested, 94% 1997, 97% avg. Watermelons 81% harvested, 92% 1997, 96% avg. Cucumbers 83%

harvested, 98% 1997, 98% avg. Cantaloupe 84% harvested, 90% 1997, 97% avg. Snap beans 80% harvested, 82% 1997, 89% avg. Lima beans 55% harvested, 71% 1997, 58% avg. Tomatoes 81% picked, 90% 1997, 94% avg. Alfalfa hay 45% 4th cutting, 34% 1997, 36% avg. Other hay 90% 3rd cutting, 96% 1997, 78% avg.; 35% 4th cutting, 15% 1997, 7% avg. Hay supplies 20% short, 80% adequate. Pasture feed 27% poor, 31% fair, 42% good. Activities: Continued harvesting of fruits, vegetables, harvesting grain corn.

FLORIDA: Topsoil Panhandle adequate, other areas of State mostly adequate, scattered areas short or surplus. Haying active. Tobacco marketing active. Fall armyworms serious pest in hay fields. White mold a serious problem in many peanut fields. Sugarcane planting started. Ten percent of peanut acreage for nuts harvested. Peanut fair 73%, good 27%. Most southern Peninsula growers irrigated young plants to maintain proper moisture levels for growth, fruit development. A slow, cold front provided moisture in most citrus areas, some irrigation continues. New growth showed on most trees. New crop fruit making good progress in well-cared-for groves, low maintenance groves have some yellowing foliage, fruit of varying sizes. Harvest for 1998-99 season progressing slowly. Packers moving white, colored grapefruit. Caretakers cutting cover crops, fertilizing, spraying, pushing dead trees, burning trash. Pasture feed fair 15%, good 75%, excellent 10%. Condition of cattle fair 25%, good 70%, excellent 5%. Armyworms serious pest, considerable loss to pasture in Panhandle, northern counties. Permanent pastures in central counties and Peninsula County made good growth under favorable moisture conditions. West-central grass growth slowed seasonally. Cattle, calves in fair to good condition, statewide.

GEORGIA: Days suitable for fieldwork 6.2. Soil moisture 12% very short, 27% short, 58% adequate, 3% surplus. Corn 37% very poor, 29% poor, 23% fair, 10% good, 1% excellent; 86% harvested for grain, 77% 1997, 77% avg. Cotton 14% very poor, 20% poor, 34% fair, 27% good, 5% excellent; 68% bolls open, 42% 1997, 59% avg.; 7% harvested, 0% 1997, 3% avg. Hay 9% very poor, 20% poor, 40% fair, 29% good, 2% excellent. Peanuts 7% very poor, 13% poor, 32% fair, 39% good, 9% excellent; 10% dug, 21% 1997, 26% avg.; 5% threshed, 12% 1997, 14% 1997. Rye 3% planted, 3% 1997, 2% avg. Sorghum 10% very poor, 21% poor, 38% fair, 30% good, 1% excellent; 47% harvested for grain, 30% 1997, 36% avg. Soybeans 27% very poor, 21% poor, 36% fair, 16% good; 98% setting pods, 96% 1997, 96% avg.; 29% dropping leaves, 26% 1997, 20% avg. Tobacco 3% very poor, 11% poor, 52% fair, 33% good, 1% excellent; 86% harvested, 100% 1997, 98% avg. Apples 8% very poor, 16% poor, 29% fair, 46% good, 1% excellent; 43% harvested, 48% 1997, 40% avg. Pecans 14% very poor, 25% poor, 34% fair, 26% good, 1% excellent. Pasture feed 10% very poor, 20% poor, 43% fair, 24% good, 3% excellent. Soil moisture levels mostly adequate across the State. Northwestern areas still dry and in need of rain. Heat stress becoming evident in pastures, hay fields as some cattlemen are feeding hay. Fall armyworm infestation continues to cause moderate to severe damage on pastures, hay fields. Spraying is still active. Cotton harvest is underway. Defoliating efforts are active. Other activities included irrigating, harvesting cotton, peanuts; planting of fall vegetables, mowing, raking, baling hay.

HAWAII: Typical trade wind weather had variable effect on agriculture. Windward areas beneficial mix of sunshine, light to moderate showers. Leeward areas mostly sunny, dry. Heavy irrigation ensured normal crop progress. Certain areas remain parched, need of rain. Overall crop progress was mostly fair. Banana, papaya harvesting remain steady. Weather mostly beneficial for orchards. Head cabbage in fair to good condition. Harvesting is very active, of good quality. Tomato harvesting at peak from Hawaii island. Sweet corn harvesting active, but roadside sales are slower than normal. Ginger root benefited from recent weather. Harvesting of 1997/98 crop slowing.

IDAHO: Days suitable for fieldwork 5.2. Topsoil moisture 1% surplus, 56% adequate, 39% short, 4% very short. Late-week thunderstorms slow harvest across State. Potatoes smaller than normal due to heat stress, wet spring. Alfalfa hay 3rd cutting 68%, 1997 53%, avg. 47%. Irrigation supply 31% excellent, 61% good, 7% fair, 1% poor. Lentils harvested 96%, 1997 65%, 68% avg. Dry beans harvested 21%, 1997 27%, 34% avg. Oats harvested 88%, 1997 74%, 74% avg. Onions harvested 21%, 1997 35%, 36% avg. Hops harvested 55%, 1997 56%, 61% avg. Peaches harvested 72%, 1997 85%, 82% avg. Prunes, plums harvested 30%, 1997 75%, 63% avg. Apples harvested 9%, 1997 14%, 11% avg. Potato vines dead/killed 34%, 1997

60%, 64% avg.; harvested 8%, 1997 9%, 9% avg. Sweet corn harvested 70%, 1997 75%, 78% avg. Corn harvested for silage 10%, 1997 21%, 17% avg. Corn harvested for grain 1%, 1997 1%, 0% avg. Barley harvested 94%, 1997 83%, 82% avg. Spring wheat harvested 95%, 1997 86%, 80% avg. Activities: Applying fungicides to combat late blight, finishing up cereal grain, lentil harvest, harvesting potatoes, hay, dry beans, oats, onions, hops, sweet corn, peaches, preparing equipment for sugar beet harvest.

ILLINOIS: Days suitable for fieldwork 6.9. Topsoil moisture 17% very short, 49% short, 33% adequate, 1% surplus. Both the corn, soybean crops are continuing to progress quickly with the help of last week's warm, dry weather. Farmers started harvesting both corn, soybeans. However, due to some of the soybeans being planted late this spring, they will be somewhat behind corn this year. The concern for sudden death syndrome has lessened as a result of dry weather, maturation of the crop. Activities for last week included hauling grain, mowing roadsides, preparing equipment for harvest. Corn dough 98%, 95% 1997, 96% avg. Soybeans turning yellow 59%, 49% 1997, 46% avg. Alfalfa 3rd cutting 92%, 83% 1997, 82% avg.

INDIANA: Days suitable for fieldwork 6.8. Topsoil moisture 23% very short, 51% short, 26% adequate. Subsoil moisture 18% very short, 41% short, 41% adequate. Corn, soybean harvests got underway across the State this past week. Crops are continuing to mature ahead of average due to warmer-than-normal temperatures, lack of rainfall. Tobacco harvest 63% complete, 19% 1997, 50% avg. Range, pasture feed 7% very poor, 20% poor, 42% fair, 26% good, 5% excellent. Activities: Harvesting corn, soybeans, baling alfalfa, harvesting tobacco, mowing lots, roadsides, caring for livestock, preparing equipment for fall harvest.

IOWA: Days suitable for fieldwork 7.0. Topsoil moisture very short 10%, short 31%, adequate 57%, surplus 2%. Subsoil moisture very short 6%, short 24%, adequate 66%, surplus 4%. Harvest underway. Crops maturing rapidly, but dry conditions may be stressing plants. Some reports of green snap. 1998 row crops: Corn dent stage 96%, 80% 1997, 74% avg.; corn acreage mature 65%, 20% 1997, 26% avg.; corn acreage harvested 3%, 0% 1997, 1% avg. Corn 2% very poor, 7% poor, 23% fair, 45% good, 23% excellent. Isolated cases of brown stem rot, cyst nematode. Soybeans leaves turning color 80%, 65% 1997, 51% avg.; soybeans leaves dropping 34%, 17% 1997, 16% avg.; 2% very poor, 5% poor, 20% fair, 47% good, 26% excellent. Lack of rain hard on pastures, hay. Third-crop alfalfa harvested 77%, 82% 1997, 72% avg. Livestock generally in good condition; calves being weaned; some pinkeye; flies very bad for cattle, calves in some areas. Pasture feed 6% very poor, 15% poor, 32% fair, 36% good, 11% excellent.

KANSAS: Days suitable for fieldwork 6.8. Topsoil moisture 21% very short, 54% short, 25% adequate. Subsoil moisture 10% very short, 36% short, 53% adequate, 1% surplus. Wheat seeding delayed due to dry conditions. Fall harvest continues ahead of normal. Moisture would be welcomed across the State. Sunflowers ray flowers dry 93%; bracts yellow 74%; mature 26%, 27% 1997; harvested 6%, 2% 1997. Sunflowers 1% very poor, 2% poor, 24% fair, 59% good, 14% excellent. Alfalfa 4th cutting 74%, 54% 1997, 49% avg. Major field activities were seeding, preparing for seeding, applying fertilizer, cutting hay, harvesting silage, harvesting grain. Pasture feed 2% very poor, 11% poor, 43% fair, 42% good, 2% excellent. Pasture, ponds need moisture to improve conditions. Stockwater 2% very short, 13% short, 84% adequate, 1% surplus.

KENTUCKY: Days suitable for fieldwork 6.0. Topsoil moisture 60% very short, 36% short, 4% adequate. Subsoil moisture 43% very short, 48% short, 9% adequate. For week slightly above-normal temperatures statewide, rainfall 0.74 in. below normal. Late tobacco, soybeans still need rain badly. Rain or cool damp mornings needed to slow curing process of tobacco, bringing tobacco into case. Tobacco condition variable; most early set still expected to have high yields. Later set tobacco is suffering from heat, dry soils. Burley tobacco cut 78%, 42% 1997, 64% avg. Dark tobacco cut 76%, 59% 1997, 73% avg. Tobacco in field 7% very poor, 30% poor, 36% fair, 23% good, 4% excellent. Hay 7% very poor, 25% poor, 44% fair, 23% good 1% excellent. Pasture feed 12% very poor, 39% poor, 40% fair, 9% good. Some feeding hay due to stressed pastures, water shortage is a concern.

LOUISIANA: Days suitable for fieldwork 4.7. Soil moisture 11% very short, 21% short, 33% adequate, 35% surplus. Drought conditions were alleviated due to rain associated with Tropical Storm Frances. Corn 99% harvested, 92% 1997, 92% avg. Cotton: defoliation was active. Harvest was halted on

11th by rain. Hay 75% final cutting, 94% 1997, 81% avg. Rice 99% ripe, 93% 1997, 93% avg. Harvest moved at a brisk pace. Soybeans 85% turning color, 62% 1997, 54% avg. Group VI varieties were sprayed for worms, stinkbugs. Harvest continued until rain came on 10th. Sugarcane 4% very poor, 20% poor, 23% fair, 34% good, 19% excellent; 60% planted, 76% 1997, 61% avg. Planting gained momentum but was halted on 10th by heavy rain. Sweet potatoes 4% very poor, 10% poor, 50% fair, 36% good; 27% harvested, 32% 1997, 29% avg. Livestock 2% very poor, 11% poor, 47% fair, 38% good, 2% excellent. Vegetables 17% very poor, 24% poor, 43% fair, 15% good, 1% excellent. Pastures: Rain should help boost pasture growth going into the winter months.

MARYLAND: Days suitable for fieldwork 6.3. Topsoil moisture 23% very short, 46% short, 30% adequate, 1% surplus. Subsoil moisture 17% very short, 52% short, 29% adequate, 2% surplus. Field corn 6% very poor, 18% poor, 40% fair, 31% good, 5% excellent; 94% dough, 90% 1997, 95% avg.; 80% dent, 67% 1997, 81% avg.; 51% mature, 21% 1997, 42% avg.; 15% combined, 3% 1997, 10% avg.; 45% harvested for silage, 37% 1997, 46% avg. Soybeans 18% very poor, 24% poor, 30% fair, 25% good, 3% excellent; 24% have turned, 19% 1997, 24% avg.; 7% shedding leaves, 7% 1997, 9% avg. Sorghum 3% very poor, 35% poor, 46% fair, 15% good, 1% excellent; 50% turned, 28% 1997, 48% avg. Tobacco 79% harvested, 83% 1997, 77% avg. Snap beans 92% harvested, 83% 1997, 91% avg. Lima beans 55% harvested, 44% 1997, 49% avg. Cucumbers 90% harvested, 100% 1997, 98% avg. Pasture feed 11% very poor, 42% poor, 23% fair, 22% good, 2% excellent. Watermelons 94% harvested, 95% 1997, 95% avg. Apples 17% fair, 75% good, 8% excellent; 28% harvested, 27% 1997, 33% avg. Other hay 82% 3rd cutting harvested, 66% 1997, 66% avg.; 40% 4th cutting, 6% 1997, 18% avg. Alfalfa hay 59% 4th cutting, 49% 1997, 57% avg. Hay supplies 2% very short, 25% short, 64% adequate, 9% surplus. Activities: Harvesting of grain corn and silage, reports of low silage yields due to dry weather, some harvesting of soybeans have begun on eastern shore.

MICHIGAN: Days suitable for fieldwork 7.0. Topsoil moisture 30% very short, 44% short, 26% adequate. Subsoil moisture 36% very short, 41% short, 23% adequate. Hay 3rd cutting 84%, 57% 1997, 56% avg.; 4th cutting 20%, 5% 1997, 8% avg. Dry beans, mature 92%, 13% 1997, 28% avg.; harvested 33%, 2% 1997, 12% avg. Silage harvested 53%, 3% 1997, 13% avg. Soybeans, turning leaves 83%, 28% 1997, 48% avg.; mature 12%, 3% 1997, 5% avg. Dry weather continued to encourage crop maturity. Only sugar beets, double cropped soybeans would benefit from additional rain. Dry bean harvest in full swing with problems of seeds shattering, splitting in drier areas. Corn harvest starting many areas. Grain moisture percentage in some areas in mid 20's. Due to dry summer, many farmers chopping corn originally intended for grain. Dry weather also affected sugarbeets by reducing weight gain. Rye planted for a cover crop was beginning to emerge. Potato harvest for the fresh market now has most going into storage. Fourth alfalfa cutting picked up in few areas that have had sufficient moisture. Ground being prepared for winter wheat planting. Normal to above normal temperatures, adequate moisture levels have matured vegetables earlier this year. Cucumber harvest continued with no significant problems. Snap bean harvest finished. Fall squash harvest continued. Pepper harvest was over 50% complete with good quality. Pumpkin vines starting to mature. Sweet corn harvest was complete on some fields, late varieties maturing. Tomato volume was decreasing as harvest was complete on many fields. Fruit insects, diseases continued largely in check. White apple leafhoppers a significant problem some regions. Stanley plum harvest continued northwest, west central. Jonathan apple harvest will start this week. Coloring of some apple varieties hampered by unseasonably high temperatures. Niagara grape harvest neared completion. Concord grape harvest will start this week.

MINNESOTA: Days suitable for fieldwork 6.7. Topsoil moisture 16% very short, 26% short, 57% adequate, 1% surplus. Soybeans 90% turning yellow, 72% 1997, 60% avg.; 12% mature, 2% 1997, 3% avg. Sweet corn 93% harvested, 82% 1997, 76% avg. Potatoes 27% harvested, 24% 1997, 22% avg. Dry beans 75% harvested, 25% 1997, 26% avg. Rye 70% seeded, 68% 1997, 54% avg. Winter wheat 66% seeded, 77% 1997, 59% avg. Flax 51% harvested, 18% 1997, 23% avg. Sugar beets 3% harvested, 2% 1997, 3% avg. Corn 76% silage cut, 12% 1997, 14% avg. Stubble plowed 67%, 53% 1997, 46% avg. Pasture feed 11% very poor, 20% poor, 31% fair, 35% good, 3% excellent. Sugar beets 2% poor, 17% fair, 55% good, 26% excellent. Sunflowers 10% poor, 30% fair, 56% good, 4% excellent. Dry beans 1% very poor, 7% poor, 50% fair, 33% good, 9% excellent. Five consecutive weeks of above-normal temperatures, combined with 3 straight

weeks of below-normal precipitation statewide, have caused major row crops to rapidly advance toward maturity. Corn, soybean harvest has started in some areas of the State. Corn is starting to get too dry to be cut for silage.

MISSISSIPPI: Days suitable for fieldwork 5.7. Soil moisture 24% very short, 42% short, 26% adequate, 8% surplus. Corn 100% mature, 97% 1997, 96% avg.; 89% harvested, 64% 1997, 56% avg.; 93% silage harvested 93% 1997, 91% avg.; 11% very poor, 26% poor, 35% fair, 26% good, 2% excellent. Cotton 95% open bolls, 54% 1997, 75% avg.; 8% harvested, 3% 1997, 4% avg.; 5% very poor, 13% poor, 35% fair, 42% good, 5% excellent. Rice 88% mature, 71% 1997, 76% avg.; 57% harvested, 30% 1997, 40% avg.; 5% poor, 28% fair, 52% good, 15% excellent. Sorghum 100% turning color, 96% 1997, 97% avg.; 92% mature, 87% 1997, 87% avg.; 70% harvested, 38% 1997, 54% avg.; 85% silage harvested, 66% 1997, 72% avg.; 21% poor, 57% fair, 22% good. Soybeans 81% turning color, 61% 1997, 55% avg.; 55% shedding leaves, 38% 1997, 33% avg.; 17% harvested, 10% 1997, 10% avg.; 5% very poor, 22% poor, 34% fair, 34% good, 5% excellent. Sweet potatoes 25% harvested, 11% 1997, 31% avg.; 2% very poor, 9% poor, 49% fair, 40% good. Wheat 2% planted, 2% 1997, 1% avg. Peanuts 6% harvested, 9% 1997, 18% avg.; 3% poor, 31% fair, 59% good, 7% excellent. Hay 95% harvested (warm season) 90% 1997, 94% avg. Cattle 3% very poor, 5% poor, 37% fair, 47% good, 8% excellent. Pasture feed 11% very poor, 22% poor, 37% fair, 27% good, 3% excellent. Activities: Many areas of the State received a much-needed rain. Corn harvest is nearing completion, winter wheat is starting to be planted.

MISSOURI: Days suitable for fieldwork 6.8. Topsoil moisture 24% very short, 44% percent short, 30% adequate, 2% surplus. The most notable shortages continue in southwest with 100% short to very short, followed by northeast, south-central, southeast with 95%, 84%, 87% short to very short, respectively. Corn mature 75%, 55% 1997, 50% avg. Proportion of corn mature or harvested is 2 weeks ahead of normal. All corn is mature in the southwest and southeast, with over 75% harvested. Corn crop is least advanced in northeast at 39% mature, while other districts are over 70% mature. Progress for soybeans turning color, dropping leaves is about 4 days ahead of last year and about a week ahead of normal. Soybean development by district is most advanced in the northern third of the State, ranging from 64% turning color in northeast to 74% in north-central. Least advanced is south-central, southeast at 25%, 37% turning color, respectively. Sorghum ripening is about 2 weeks ahead of normal when 79% was turning color, 34% mature. Sorghum harvest is 12 days ahead of the 7% average for this date. Rainfall past week avg 1.55 in., ranging from only minor amounts in east central, south-central, southeast to over 3 inches in north-central, nearly 5 in. west-central. Pasture feed 7% very poor, 25% poor, 36% fair, 30% good, 2% excellent.

MONTANA: Days suitable for fieldwork 6.2. Topsoil moisture 31% very short, 51% short, 18% adequate. Subsoil moisture 30% very short, 51% short, 19% adequate. Conditions were again very hot, majority of the State received some amounts of precipitation. Spring wheat harvested 98%, 86% 1997, 74% avg. Barley harvested 98%, 87% 1997, 75% avg. Oats harvested 98%, 84% 1997, 74% avg. Corn harvested for silage 57%, 35% 1997, 28% avg. Dry beans harvested 63%, 54% 1997, 44% avg. Second-cutting alfalfa 94%, 85% 1997, 85% avg. Sugar beets harvested 0%, 1% 1997, 1% avg. Potatoes harvested 0%, 2% 1997, 1% avg. Range, pasture remains in mostly fair to poor condition. Lack of rain still causing a lot of stress to range conditions. Therefore, ranchers are moving cattle and sheep off of pasture at percentages greater than last year the 5-year average.

NEBRASKA: Days suitable for fieldwork 7.0. Topsoil moisture 9% very short, 49% short, 42% adequate. Subsoil moisture 3% very short, 31% short, 66% adequate. Corn 3% poor, 16% fair, 61% good, 20% excellent; irrigated corn 82% good or excellent; dryland corn 79% good or excellent; mature 47%, 11% 1997, 15% avg.; harvested 2%, 0% 1997, 1% avg. Soybean 1% poor, 16% fair, 62% good, 21% excellent; coloring 75%, 64% 1997, 53% avg.; dropping leaves 25%, 15% 1997, 18% avg. A few isolated fields harvested. Sorghum 1% poor, 11% fair, 72% good, 16% excellent; coloring 92%, 79% 1997, 71% avg.; mature 29%, 6% 1997, 10% avg. Dry beans 1% very poor, 11% poor, 32% fair, 43% good, 13% excellent; nearly all the crop was coloring; dropping leaves 73%, 63% 1997, 61% avg.; harvested 26%, 27% 1997, 24% avg. Alfalfa 1% very poor, 4% poor, 22% fair, 66% good, 7% excellent; 3rd cutting virtually complete, with fourth cuttings occurring where adequate moisture or irrigation was available. Wheat seeding 33%, 36% 1997, 29% avg. Pasture feed 2% very poor, 9%

poor, 31% fair, 51% good, 7% excellent. Producer activities; corn silage harvest, moving grain, machinery maintenance, livestock care, marketing.

NEVADA: Rain was seen statewide throughout the week with the northwest seeing the most. Northwest continued to see above normal temperatures. Temperatures in the northeast, south were above normal at beginning of week, fell to slightly below normal by week's end. Harvest activities were hampered slightly by rains, continued when weather permitted. The 3rd, 4th cutting of alfalfa continued in northern valleys with crop condition mostly good. Alfalfa seed harvest was underway. Winter wheat, spring wheat, barley harvests were near completion in the northwest. Mint harvest continued. Harvest of garlic for seed use continued. Onion harvest continued in full swing. Some corn was being cut for silage. Potatoes were in fair condition due to cool temperatures and rain. Pasture, range condition remained mainly good despite seasonal drying. Cattle movement, calf marketing continued. Main farm, ranch activities: haying, alfalfa seed harvest, onion harvest, mint harvest, garlic harvest, planting winter grains, fall seeding of alfalfa, irrigating, cattle marketing.

NEW ENGLAND: Days suitable for fieldwork 5.6. Topsoil moisture 3% very short, 24% short, 66% adequate, 7% surplus. Subsoil moisture 2% very short, 24% short, 70% adequate, 4% surplus. Pasture feed 2% very poor, 15% poor, 47% fair, 27% good, 9% excellent. Maine potatoes 5% harvested, 5% 1997, 10% avg.; condition good to fair. Massachusetts potatoes 60% harvested, 55% 1997, 65% avg.; condition good to fair. Rhode Island potatoes 35% harvested, 50% 1997, 50% avg.; condition good to fair. Oats in Maine 75% harvested, 25% 1997, 65% avg.; condition good to fair. Barley in Maine 90% harvested, 30% 1997; condition good to fair. Field corn 10% harvested, 5% 1997, 10% avg.; condition good to fair. Sweet corn 85% harvested, 85% 1997, 90% avg.; condition good to fair. Broadleaf tobacco 99% harvested, 99% 1997, 99% avg.; condition good to fair. First-cut hay 99% harvested, 99% 1997, 99% avg.; condition fair. Second-cut hay 85% harvested, 75% 1997, 85% avg.; condition good to fair. Third-cut hay 45% harvested, 55% 1997, 45% avg.; condition good to excellent. Apples 20% harvested, 25% 1997, 25% avg.; size average; condition good. Peaches 95% harvested, 90% 1997, 90% avg.; size average; condition good. Pears 35% harvested, 20% 1997, 45% avg.; size average; condition good. Cranberries <5% harvested, <5% 1997, <5% average; size average to above average, condition good to excellent. Highbush blueberries 100% harvested, 99% 1997, 99% avg.; size average; condition good. Major farm activities included: harvesting end of season vegetables, potatoes, field corn, apples, pears, peaches, small grains. Farmers also spread manure, planted cover crops, irrigated where possible.

NEW JERSEY: Days suitable for fieldwork 6. Farmers are planting cover crops, irrigating crops, spraying for disease, pests, harvesting vegetables, fruits, cutting hay. Feed requirements are average. The irrigation water supply is adequate. Good volume of green beans, sweet corn, eggplant, peppers, all squash. Moderate volume of beets, cabbage, cucumbers, endive, escarole, leeks, spinach, tomatoes, pickles. Light supply of herbs, okra, watermelon, cantaloupe, turnips. Light, increasing harvest of Boston, Romaine, bib lettuce. Harvesting of sweet potatoes is increasing. Apple harvest is increasing with red delicious, Paula red, ginger gold, gala being the main varieties. Peach harvest is virtually complete, with a light volume expected for the week. Light, increasing harvest of corn for silage reported. Soybeans are past the pod setting stage, are starting to drop their leaves. Some fourth cuttings of alfalfa occurring. Pastures are in poor to fair condition.

NEW MEXICO: Days suitable for fieldwork 6.9. Topsoil moisture declined to 17% very short, 49% short, 33% adequate, 1% surplus, with the range, pasture feed condition rating also falling off. Dry weather with above-normal temperatures were predominant last week. Wheat producers continued planting last week as apple, green chile harvests continued. Forty-seven percent of the fall wheat crop was in the ground last week, 42% 1997, 48% avg.; 16% emerged, 11% 1997, 8% avg. Apple 37% picked, 34% 1997; 25% fair, 71% good, 4% excellent. Green chile harvest reached 50% complete, 54% 1997; 2% poor, 18% fair, 61% good, 19% excellent. Forty-four percent of the corn for silage crop had been harvested by the end of last week. Overall, corn crop 6% poor, 25% fair, 60% good, 9% excellent; 88% dented, 84% 1997; 37% mature, 26% 1997. As the sorghum crop continued to color and mature, the outlook remained poor. Fourth, 5th, 6th cuttings of alfalfa moved to 85%, 61%, 12% complete respectively; 1% poor, 35% fair, 55% good, 9% excellent. With cotton harvest 4 to 6 weeks away the

condition of the crop remained stable, with approximately one-half the bolls open. Lettuce was rated 22% fair, 33% good, 45% excellent. Pecans remained in good condition, with an average drop reported this year. Cattle were in fair to good condition, while sheep remained in mostly fair condition.

NEW YORK: Days suitable for fieldwork 4.4. Soil moisture 4% very short, 8% short, 59% adequate, 29% surplus. Pasture feed 2% poor, 16% fair, 61% good, 21% excellent. Hay condition 93% good, 7% excellent. Third cutting alfalfa 73% finished, 67% 1997, 66% avg. Silage corn 21% harvested, 6% 1997, 8% avg. Corn 7% fair, 66% good, 27% excellent. Dry beans 10% harvested. Potato digging continued active. Apples 15 to 20% harvested. Grape harvest gained momentum. Severe damage, loss to apples, cherries resulted from violent storms on Labor Day. High winds, hail caused heavy losses. Vegetable harvest continued very active. Cabbage for kraut harvest ready to begin. Pumpkin harvest underway.

NORTH CAROLINA: Days suitable for fieldwork 6. Soil moisture 14% very short, 34% short, 42% adequate, 10% surplus. State realized a seasonably normal week with just slightly below normal temperatures, rainfall. Many areas of the State are still very dry, especially the western half. Reports of possible hay shortages, due to early hay feedings to livestock which would otherwise still be pastured, have been received. Activities included: Harvesting tobacco, corn; cutting hay, tending livestock. Farmers are gearing up for cotton, soybean harvests, small grain plantings.

NORTH DAKOTA: Days suitable for fieldwork 6. Soil moisture supplies improved slightly from showers late in the week. Topsoil 12% very short, 33% short, 55% adequate, 0% surplus. Subsoil 11% very short, 36% short, 52% adequate, 1% surplus. Favorable weather allowed producers to nearly complete the small grain harvest three weeks ahead of average. Late season crop progress continued ahead of average, with substantial progress made on harvest. Durum wheat 94% combined, 79% 1997, 60% avg. Canola 94% combined, 61% 1997. Corn for grain 95% denting, 75% 1997, 71% avg.; 41% ripe, 13% 1997, 17% avg. Corn for silage 21% chopped, 18% 1997, 15% avg. Dry edible beans 83% cut, 49% 1997, 36% avg.; 68% combined, 29% 1997, 23% avg. Flaxseed 84% combined, 64% 1997, 32% avg. Potatoes 84% vines killed, 74% 1997, 74% avg.; 13% dug, 13% 1997, 21% avg. Soybeans 48% mature leaves dropping, 37% 1997, 39% avg.; 4% harvested, 3% 1997, 2% avg. Sugar beets 4% lifted, 1% 1997, 2% avg. Sunflower 85% bracts turned yellow, 72% 1997, 64% avg.; 27% bracts turned brown, 25% 1997, 24% avg. Most late season crop conditions remained relatively unchanged as the crop rapidly approaches maturity. Producers reported blackbird problems among sunflower fields in eastern districts. Emerged crop condition: corn for grain 2% very poor, 12% poor, 24% fair, 55% good, 7% excellent; corn for silage 7% poor, 38% fair, 45% good, 10% excellent; dry edible beans 2% very poor, 9% poor, 36% fair, 46% good, 7% excellent; potatoes 2% poor, 13% fair, 52% good, 33% excellent; soybeans 4% very poor, 18% poor, 30% fair, 42% good, 6% excellent; sugarbeets 4% very poor, 11% poor, 15% fair, 48% good, 22% excellent; sunflower 1% very poor, 5% poor, 26% fair, 53% good, 15% excellent. Stockwater 8% short, 87% adequate, 5% surplus. Fall tillage progress has been hindered due to dry conditions; ranchers were moving cattle out on stubble, fall pasture.

OHIO: Days suitable for fieldwork 6.2. Topsoil 14% very short, 32% short, 52% adequate, 2% surplus. Corn dented 87%, 62% 1997, 71% avg.; mature 19%, 2% 1997, 11% avg.; harvested for silage 25%, 5% 1997, 16% avg.; harvested for grain 3%, 0% 1997, 1% avg. Soybeans dropping leaves 50%, 19% 1997, 29% avg.; eight days ahead of 1997. Soybeans mature 10%, 1% 1997, 5% avg.; harvested 1%, 0% 1997, avg. Alfalfa hay 94% 3rd cutting, 74% 1997, 80% avg.; 34% 4th cutting. Other hay 72% 3rd cutting, 47% 1997, 50% avg. Tobacco 96% topped, 97% 1997; 61% cut, 38% 1997. Fall, winter apples 24% harvested, 6% 1997, 3% avg. Hay 3% very poor, 10% poor, 30% fair, 48% good, 9% excellent. Farm activities include making hay; land leveling; installing tile; tilling wheat stubble; installing grass waterways; fall plowing; preparing to plant Winter wheat; mowing ditch banks; moving grain in bins; cleaning out barns, sheds; combining clover seed; chopping corn for silage; seeding CRP ground; hauling manure; spraying wheat stubble; building grain storage; spreading lime, fertilizer; maintaining fences; making cider; shelling corn; combining soybeans; scouting fields for insects, diseases; cutting, hanging tobacco; attending field days; harvesting timber; selling livestock; bushhogging pastures; harvesting tomatoes, carrots, other fresh market vegetables. The following weed pressures were reported: goldenrod; giant ragweed; foxtail; Canadian thistle; velvetleaf; lambsquarter; pigweed; ironweed; horseweed; Johnsongrass. Reported insects were

mosquitoes, barn flies; grasshoppers in corn, soybeans; leafhoppers. Some reporters mentioned bird damage in corn. Reported diseases were rot, mildew on pumpkins, squash; sudden death syndrome, white mold, root rot in soybeans, grey leaf spot, smut, Stewart's wilt in corn. Most of the vegetable, fruit crop continues to be good with a few exceptions. A Wood county reporter some damage due to excess rain. Reporters commented on damage to the pumpkin crop due to early maturity. Fruits, vegetables in the southern part of the State has suffered from very dry weather. Rainfall in the northern part of the State has replenished and improved pastures, grasses. Many reporters from the remaining districts comment on poor forage growth, parched grass, hay due to lack of rain. Mild weather continued to alleviate stress on livestock with the only problems reported being face flies; poor pasture, some pinkeys.

OKLAHOMA: Days suitable for fieldwork 6.6. Topsoil 50% very short, 40% short, 10% adequate. Subsoil 29% very short, 52% short, 19% adequate. Remnants of tropical storm Frances provided relief to drought stressed areas of eastern areas. Wheat seedbed prepared 70%, 81% 1997, 80% avg. Oats seedbed prepared 56%, 67% 1997, 65% avg.; planted 7%, 0% 1997, 6% avg. Corn 5% very poor, 2% poor, 5% fair, 88% good; mature 90%, 22% 1997, 62% avg.; harvested 67%, 11% 1997, 29% avg. Soybeans 14% very poor, 58% poor, 18% fair, 9% good, 1% excellent; setting pods 94%, 97% 1997, 93% avg.; mature 63%, 16% 1997, 34% avg.; harvested 20%, 2% 1997, 9% avg. Peanuts mature 42%, 20% 1997, 21% avg. Alfalfa hay 19% very poor, 18% poor, 36% fair, 24% good, 3% excellent; 3rd cutting 88%, 99% 1997, 99% avg.; 4th cutting 34%, 66% 1997, 73% avg. Other hay 1st cutting 96%, 99% 1997, 99% avg.; 2nd cutting 22%, 39% 1997, 85% avg. Livestock 3% very poor, 11% poor, 33% fair, 52% good, 1% excellent. Prices for feeder steers up \$1.00 per cwt. from last week.

OREGON: Days suitable for fieldwork 6.4. Topsoil 18% very short, 32% short, 45% adequate, 5% surplus. Subsoil 14% very short, 19% short, 62% adequate, 5% surplus. Barley harvested 90%, 90% 1997, 83% avg. Winter wheat harvested 100%, 100% 1997, 99% avg.; planted 1%, 3% 1997, 4% avg. Spring wheat 97% harvested. Range, pasture feed 5% very poor, 17% poor, 33% fair, 45% good. Activities: Harvest of small grains, mint winding down across State. Alfalfa hay harvest underway in Rogue River, 3rd cutting of hay in northeast continued. Some winter wheat planted, many growers waiting for moisture. Field preparation for fall seeding continued. Greenhouses, nurseries irrigating heavily. Field preparation for fall planting continued with limited movement of containers. Iris growers finished digging, replanting. On the south coast Easter Lily growers digging yearlings, sorting planting stock, planting. Western valley green bean harvest nearing completion. Sweet corn harvest continued, pumpkins coloring. Onion, potato harvest continued on east side, some onions went into storage. Willamette Valley Evergreen blackberry harvest nearing end, prune harvest underway, late varieties of peaches, some apple varieties being harvested. Rogue River Valley pear, apple harvest continued. On the south coast cranberries developing color, size small due to late fruit set. Hood River Valley Bartlett pear harvest completed. Lower valley Anjou pear harvest began & Gala apple harvest finished. Livestock good. Fall calving, early weaning continued in northeast. Southern Willamette Valley sheep on pastures with good regrowth. Ranges, pastures continued to dry up.

PENNSYLVANIA: Days suitable for fieldwork 4.8. Soil moisture 19% very short, 46% short, 34% adequate, 1% surplus. Due to dry soils, barley and oats planted are lagging behind the five-year average. Corn silage is being cut in southern areas where corn is drying out quickly. Late planted corn is progressing slowly. Ensilage corn harvested 22% harvested, 16% 1997, 22% avg. Soybean 1% very poor, 9% poor, 25% fair, 55% good, 10% excellent. Wheat planted 5% complete, 24% 1997, 18% avg. Wheat emerged 1% complete, 5% 1997, average not available. Oats harvested 99% complete, 99% 1997, 99% avg. Barley planted 17% complete, 24% 1997, 19% avg.; emerged 9% complete, 13% 1997, average not available. Tobacco 85% harvested, 67% 1997, 79% avg. Potato harvested 33% complete, 33% 1997, 39% avg. Alfalfa 3rd cutting 75% complete, 74% 1997, 73% avg.; 4th cutting 40% complete, 48% 1997, 35% avg. Timothy clover 2nd cutting 88% complete, 92% 1997, 90% avg. Quality of hay made 2% very poor, 8% poor, 33% fair, 40% good, 17% excellent. Apple harvest 33% complete, 33% 1997, 33% avg. Peach harvest 91% complete, 91% 1997, 90% avg. Grape harvest 10% complete, 9% 1997, 28% avg. Fall plowing 29% complete, 43% 1997, 38% avg. Activities: fall plowing; cutting hay, haylage; harvesting fruit; filling silos; machinery maintenance; fixing fences; hauling manure; caring for livestock; attending county fairs.

SOUTH CAROLINA: Days suitable for fieldwork 6.3. Soil moisture 2% very short, 16% short, 77% adequate, 5% surplus. Apples 39% harvested, 47% 1997, 45% avg.; 27% poor, 35% fair, 38% good. Corn 86% harvested, 76% 1997, 69% avg.; 31% very poor, 33% poor, 28% fair, 8% good. Grapes 17% fair, 64% good, 19% excellent. Hay 95% cut, 98% 1997, 78% avg. Livestock 4% poor, 34% fair, 59% good, 3% excellent. Pasture feed 2% very poor, 16% poor, 43% fair, 38% good, 1% excellent. Peanuts 95% pegged, 100% 1997, 78% avg.; 13% harvested, 11% 1997, 13% avg.; 12% very poor, 34% poor, 42% fair, 12% good. Sorghum 92% turned color, 86% 1997; 62% matured, 52% 1997; 40% harvested, 39% 1997, 1% very poor, 10% poor, 17% fair, 71% good, 1% excellent. Sweet potatoes 15% harvested, 17% 1997, 13% avg.; 13% fair, 87% good. Tobacco 94% harvested, 95% 1997, 91% avg.; 54% stalks destroyed, 71% 1997, 53% avg. Winter grazings 17% planted, 19% 1997, 15% avg.; 46% fair, 54% good.

SOUTH DAKOTA: Days suitable for fieldwork 6.5. Topsoil 7% very short, 36% short, 56% adequate, 1% surplus. Subsoil 6% very short, 26% short, 68% adequate. Row crop harvest just beginning, small grain is completed. Flaxseed 97% harvested, 87% 1997, 78% avg. Hot, dry weather hastened row crop development. Sunflower 7% poor, 15% fair, 55% good, 23% excellent; 92% ray flowers dry, 89% 1997, 92% avg.; 74% bracts yellow, 69% 1997, 69% avg.; 21% mature, 20% 1997, 17% avg.; 6% harvested, 0% 1997, 0% avg. Sorghum harvested for silage 22%, 14% 1997, 9% avg. Corn harvested for silage 53%, 14% 1997, 11% avg. Winter Rye seeded 42%, 36% 1997, 32% avg. Winter Rye emerged 30%, 16% 1997, 9% avg. Alfalfa 7% poor, 30% fair, 52% good, 11% excellent. Livestock 1% poor, 9% fair, 66% good, 24% excellent. Stockwater supplies 2% very short, 10% short, 83% adequate, 5% surplus.

TENNESSEE: Days suitable for fieldwork 7.0. Topsoil moisture 33% very short, 50% short, 17% adequate. Subsoil moisture 20% very short, 52% short, 28% adequate. Corn 85% mature, 72% 1997, 75% avg.; 50% harvested, 17% 1997, 23% avg.; silage 85% harvested, 73% 1997, 75% avg. Tobacco 91% topped, 90% 1997, 96% avg.; burley 60% harvested, 59% 1997, 66% avg.; dark-air 70% harvested, 73% 1997, 75% avg.; dark-fire 69% harvested, 61% 1997, 72% avg.; 3% very poor, 11% poor, 30% fair, 46% good, 10% excellent. Pastures 9% very poor, 26% poor, 41% fair, 24% good. Producers took advantage of the dry, hot weather to make good progress with corn and tobacco harvest last week. One-half of the corn crop was harvested by week's end, 10 days ahead of schedule. Tobacco topping was virtually completed as of Sunday and producers focused on harvest, which was slightly behind schedule. Fall fertilization, early grain seedings have been delayed due to the lack of moisture throughout the State.

TEXAS: Tropical storm Francis brought very heavy rain, flooding conditions Coastal areas, parts East. Rain spread Central, Blacklands lighter amounts, very beneficial. Fieldwork non-existent late week these areas. The rain should further benefit pastures. Plains, fieldwork active most week. Only light showers occurred as result of tropical storm. Cooler temperatures came with rain.

Crops: Small Grains: Planting continued where adequate moisture existed Plains with early fields emerging to stands. Land preparation continued in Blacklands, parts Central early week. Corn: Harvest slowly increased in Plains last week. Some later fields could still benefit from additional moisture. Cotton: Bolls continued open in Plains, some harvest aids applied during week. The irrigated crop still needs a little more maturing time, however dryland harvest should begin soon. Harvest virtually completed Blacklands, but late week rains halted progress. Grain Sorghum: A few early fields harvested Plains, however most fields still need more maturing time. Later fields still benefit from additional moisture. Harvest winding down North Central areas with many poor yields reported. Additional baling, plowing of stalks continued. Peanuts: Fields in Plains, North Central areas rapidly maturing, harvest should begin soon. Some later fields still being irrigated. Disease increased some fields. Some harvest occurred South Central early week, however Tropical storm halted activity by late week.

Rice: Harvest winding down along Upper Coast until heavy rains stalled progress. The rain should benefit fields where second crop will be cut. Soybeans: Plants drying down Plains where harvest should begin soon. Most fields appear good. Along Upper Coast, rain halted final harvest progress.

Commercial Vegetables: Rio Grande Valley, late week rain slowed field activity. San Antonio-Winter Garden, cucumber harvest continued until late week. Some planting activity occurred early week. East, few more sweetpotatoes harvested as conditions allowed. Reported yields, sizes down from year ago. High Plains, watermelon harvest continued. A few early fields

pumpkins also harvested. Trans Pecos, most harvest completed. Pecans: Additional rains South, Central will benefit trees, however crop will still be low. Prospects from other areas also remained low with additional nut drop reported.

Range and Livestock: Improvement expected many Southern, Central pastures with additional rain. Haying activity increased these areas, parts East before activity slowed by wet conditions. Armyworms, grasshoppers remained problem many areas. Auctions reported brisk sales as many producers continued to sell off cattle in anticipation of higher feed costs, a lack of pastures.

UTAH: Days suitable for fieldwork 6. Topsoil 6% very short, 10% short, 82% adequate, 2% surplus. Subsoil 5% very short, 12% short, 82% adequate, 1% surplus. Pasture feed, range 3% poor, 22% fair, 73% good, 2% excellent. Irrigation water supplies 1% very short, 14% short, 84% adequate, 1% surplus. Stock water supplies 2% very short, 14% short, 82% adequate, 2% surplus. Cattle moved from summer range 10%, 14% 1997, 19% avg. Sheep moved from summer range 5%, 8% 1997, 14% avg. Winter wheat seeded 33%. Oats harvested for grain 87%, 77% 1997, 82% avg. Corn in dough stage 74%, 84% 1997; in dent stage 31%, 35% 1997; mature 6%. Corn silage harvested 8%. Alfalfa hay 3rd cutting 67%, 48% 1997, 60% avg; 4th cutting 7%, 10% 1997. Alfalfa seed harvested 36%. Onions harvested 26%, 23% 1997, 30% avg. Dry beans harvested 50%. Potatoes harvested 4%. Peaches picked 49%, 74% 1997, 85% avg. Pears picked 48%, 64% 1997, 77% avg. Apples 3% picked, 16% 1997, 17% avg. Major farm/ranch activities included: Small grain harvest, fruit harvest, winter grain planting.

VIRGINIA: Days suitable for fieldwork 6.4. Topsoil 35% very short, 43% short, 22% adequate. Subsoil 31% very short, 44% short, 25% adequate. Corn 97% dough, 92% 1997, 97% avg.; 85% dent, 76% 1997, 81% avg.; 65% mature, 56% 1997, 63% avg.; 35% harvested, 9% 1997, 21% avg.; 65% harvested for silage, 31% 1997, 42% avg.; 11% very poor, 23% poor, 41% fair, 22% good, 3% excellent. Cotton 90% bolls opening, 48% 1997, 38% avg.; 9% poor, 25% fair, 51% good, 15% excellent. Soybeans 99% blooming, 94% 1997, 98% avg.; 93% setting pods, 81% 1997, 89% avg.; 9% dropping leaves, 13% 1997, 3% avg.; 7% very poor, 20% poor, 31% fair, 37% good, 5% excellent. Winter Wheat 0% seeded, 0% 1997, 2% avg. Flue-cured tobacco 48% harvested, 47% 1997, 60% avg.; 8% very poor, 13% poor, 26% fair, 41% good, 12% excellent. Dark fire cured tobacco 85% harvested, 75% 1997, 76% avg.; 3% very poor, 18% poor, 44% fair, 30% good, 5% excellent. Burley tobacco 62% harvested, 44% 1997, 48% avg.; 6% very poor, 15% poor, 31% fair, 33% good, 15% excellent. Sun tobacco 74% harvested, 74% 1997, 74% avg.; 1% very poor, 14% poor, 70% fair, 15% good. Fall Apples 13% harvested, 17% 1997, 43% avg. Apples 4% very poor, 16% poor, 38% fair, 39% good, 3% excellent. Peaches 98% harvested, 95% 1997, 99% avg. Pasture feed 20% very poor, 37% poor, 32% fair, 11% good. Alfalfa 14% very poor, 28% poor, 39% fair, 18% good, 1% excellent. Other hay 18% very poor, 44% poor, 31% fair, 7% good. Moisture supplies continued to diminish throughout the Commonwealth last week. Some isolated areas received scattered showers, not enough to replenish necessary topsoil moisture. While conditions for most crops continued to decline, many cotton, peanut producers are reporting that their crops are ahead of schedule this year, that harvest will begin in the coming weeks. Corn and soybeans are progressing ahead of schedule as well. Corn producers in the extreme southeastern part of the Commonwealth report that damage from Hurricane Bonnie was not as bad as previously thought. Tobacco harvest continues throughout the Commonwealth with burley and fire types being harvested ahead of normal schedule, flue lagging slightly behind. Some flue tobacco producers are reporting a shortage of barn space as reason for being behind in harvesting their crop. Livestock producers continued to market cattle due to poor, dry pastures and dwindling water supplies. Small grain producers are reporting that fall planting may be delayed and fall crops hurt due to the lack of soil moisture. Other activities for the past week included scouting and spraying of cotton, peanuts, and soybeans, preparing for harvest of cotton and peanuts, preparing land for planting of fall crops, preparing to move pumpkins to retail markets, as well as, other general fieldwork

WASHINGTON: Days suitable for fieldwork 7.0. Topsoil 5% very short, 62% short; 33% adequate. Subsoil 5% very short, 34% short, 61% adequate. Potatoes 35% harvested, 33% 1997, 29% avg. Potatoes, 5% fair, 95% good. Winter wheat seeding was well underway or neared completion in central areas. Most producers in eastern areas had not planted wheat, expected to start this week. Some were waiting to avoid potential disease problems

associated with aphid flights. Emerged wheat was in good condition. Potato, mint, dry bean harvests continued. Hay, other roughage supplies, 5% short, 60% adequate, 35% surplus. Silage harvest continued, fourth cutting alfalfa hay production continued. Range, pasture feed 5% very poor, 30% poor, 35% fair, 30% good. Pastures were very dry with no growth in most areas. Moderate weather improved growing conditions for tree fruits, but fruit color, cracking have been more of a problem than last year. Pear harvest was nearly complete, Golden Delicious, Granny Smith apple harvests were underway. Blueberry, blackberry harvests continued in western areas, cranberry color increased as growers prepared for next month's harvest. Vegetable harvests progressed, irrigated sweet corn fields thrived under the warm conditions. Christmas tree growers reported drought-related losses in newly established plantations.

WEST VIRGINIA: Days suitable for fieldwork 6.5. Topsoil 12% very short, 50% short, 38% adequate. Apple 17% poor, 75% fair, 8% good. Crop conditions declined from lack of moisture, above average temperatures. Most areas of the State were still in need of rain. Weather conditions favorable for apple harvest. Hay 10% poor, 46% fair, 40% good, 4% excellent; 2nd cut 90%, 81% 1997, 82% avg.; 3rd cut 39%, 27% 1997, 46% avg. Dry weather conditions conducive to hay harvesting. Corn 5% poor, 40% fair, 53% good, 2% excellent; Corn silked 95%, 100% 1997, 100% avg.; corn doughing 73%, 86% 1997, 85% avg.; dent 40%, 32% 1997; maturing 15%, 4% 1997, 27% avg. Producers busy harvesting corn silage. Soybean 1% poor, 43% fair, 56% good; Soybeans 96% bloomed, 100% 1997, 100% avg.; 87% podding, 95% 1997, 97% avg.; 34% dropping leaves, 41% 1997. Tobacco 11% poor, 61% fair, 28% good; topped 80%, 99% 1997, 99% avg. Some fields were being harvested. Cattle 26% fair, 69% good, 5% excellent. Some reports of pink eye. Sheep 33% fair, 62% good, 5% excellent.

WISCONSIN: Days suitable for fieldwork 6.8. Soil moisture 23% very short, 31% short, 44% adequate, 2% surplus. Soybeans leaves turning 93%, 54% 1997, 44% avg. Soybeans leaves dropping 38%, 10% 1997, 9% avg. Soybean 3% poor, 15% fair, 48% good, 34% excellent. Third crop hay harvested 92%, 63% 1997, 63% avg. Fourth crop hay harvested 34%. Corn for silage harvested 43%, 4% 1997, 7% avg. Dry weather was pushing the crops to harvest last week. It appears that high moisture corn will have a short window to harvest. One Winnebago County producer started combining, indicated a moisture level under 22%. Moisture levels in Chippewa, Buffalo Counties ranged from low 30s to mid 20s. Corn harvest for grain should start in 10 days to two weeks in most areas of the State. Corn silage in Fond du Lac County was at 60% moisture. Corn harvested for silage jumped to 43%; however, predicted rain showers should slow fieldwork. In Marathon County soybean pods were well filled. Soybean fields in the State with leaves already dropped were at 38%, compared to 10% 1997. Northern hay was good in quality, low on quantities due to dry weather conditions. Forage harvest was approximately 50% of normal in Price County. Sweet corn, snap bean harvests were winding down in Portage County. Winter wheat planted in Winnebago County was reported in need of rain to germinate. A huge apple crop was reported in Dane County. Pasture feed 3% very poor, 16% poor, 32% fair, 41% good, 8% excellent.

WYOMING: Days suitable for fieldwork 5.9. Topsoil 14% very short, 46% short, 40% adequate. Subsoil 6% very short, 63% short, 31% adequate. Winter wheat planted 64%, 72% 1997, 66% avg.; emerged 25%, 34% 1997, 33% avg. Barley harvested 87%, 90% 1997, 89% avg. Oats harvested 88%, 82% 1997, 78% avg. Spring wheat harvested 93%, 88% 1997, 82% avg. Corn dented 81%, 90% 1997, 66% avg.; mature 18%, 55% 1997, 30% avg. Dry beans windrowed 73%, 88% 1997, 77% avg.; combined 32%, 52% 1997, 39% avg. Alfalfa 2nd cutting 90%, 91% 1997, 91% avg.; 3rd cutting 22%, 22% 1997, 33% avg. Range, pasture feed 2% very poor, 10% poor, 36% fair, 45% good, 7% excellent. Dry bean 1% poor, 19% fair, 80% good. Corn 2% poor, 6% fair, 85% good, 7% excellent. Sugar beet 13% fair, 86% good, 1% excellent. Livestock 2% fair, 95% good, 3% excellent. Stockwater 2% very short, 3% short, 94% adequate, 1% surplus. Hot, dry conditions continued through most of the week with a little relief in the form of cooler temperatures, precipitation moving in 11th. Soil moisture supplies remained down.

International Weather and Crop Summary

September 6 - 12, 1998

HIGHLIGHTS

FSU-WESTERN: Dry weather in Russia and Ukraine helped crop harvesting and winter grain planting.

FSU-NEW LANDS: Generally dry weather favored spring grain harvesting.

EUROPE: Light to moderate rain interrupted summer crop harvesting and winter crop planting in most areas, except the Iberian Peninsula and the eastern Balkans.

AUSTRALIA: Continued wetness in the east left winter grains and sugarcane in need of dryness.

CANADA: Prairie harvests were nearing completion.

SOUTH ASIA: Late-season rain in western India boosted moisture reserves for immature oilseeds and cotton.

SOUTHEAST ASIA: Showers maintained moisture supplies for sugarcane in Thailand and the Philippines, but slowed filling rice.

EASTERN ASIA: Mostly dry weather aided maturing summer crops across most of China, South Korea, and Japan.

SOUTH AMERICA: In central Argentina, cool weather and dry topsoils stressed emerging winter wheat.

MEXICO: Showers eased dryness in northeastern Mexico and maintained adequate moisture supplies across the Southern Plateau Corn Belt.

August 1998

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

*** DATA NOT AVAILABLE

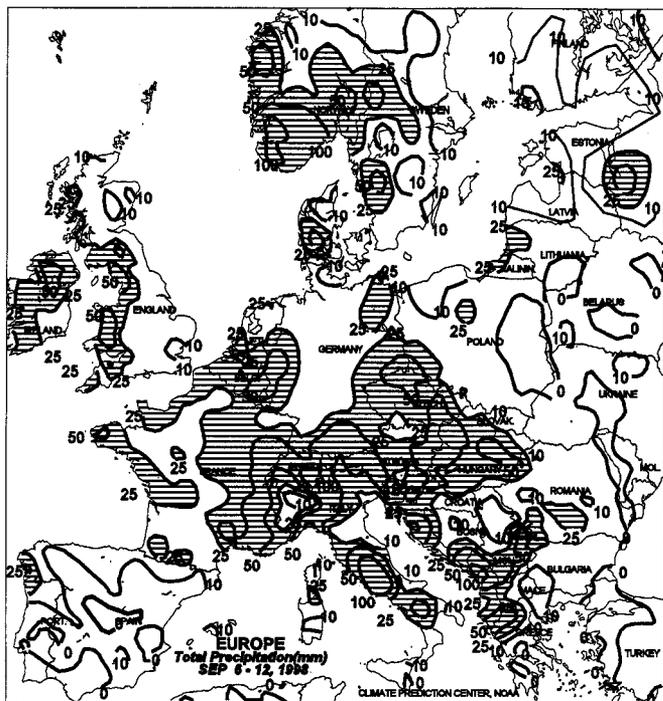
COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM
NORWAY	OSLO	18	10	22	6	15	0.8	87	-2
SWEDEN	STOCKHOLM	19	11	22	5	15	-1.2	0	-85
FINLAND	HELSINKI	17	11	21	6	14	-1.1	111	31
UKINGDO	GLASGOW	18	10	23	3	14	-1.2	88	-3
	EDINBURGH	19	11	24	3	15	0.3	62	-3
IRELAND	DUBLIN	20	11	24	5	15	-0.1	45	-26
ICELAND	REYKJAVIK	14	9	16	5	11	1.0	101	39
DENMARK	COPENHAGEN	19	12	21	7	15	-2.2	36	-30
LUXEMBO	LUXEMBOURG	23	13	37	7	18	1.3	27	-45
SWITZERL	ZURICH	24	14	33	6	19	1.6	70	-67
	GENEVA	27	14	36	7	20	1.9	30	-51
FRANCE	PARIS/ORLY	26	13	36	7	20	***	19	**
	STRASBOURG	26	13	36	5	19	0.9	32	-36
	BOURGES	27	14	36	7	21	2.0	21	-39
	BORDEAUX	29	16	39	10	22	2.4	14	-40
	TOULOUSE	28	17	38	9	22	1.9	9	-39
	MARSEILLE	30	19	35	13	24	1.4	39	11
SPAIN	VALLADOLID	32	15	38	8	23	2.4	17	5
	MADRID	34	18	39	13	26	2.2	79	69
	SEVILLE	36	22	41	17	29	0.7	0	-4
PORTUGA	LISBON	30	19	38	15	24	1.9	0	-7
GERMANY	HAMBURG	21	12	29	9	16	-0.5	93	24
	BERLIN	23	14	31	10	18	-0.7	67	7
	DUSSELDORF	23	13	34	8	18	-0.3	57	-21
	LEIPZIG	23	13	35	8	18	0.4	47	-12
	DRESDEN	22	13	33	8	17	-0.8	153	81
	STUTTGART	24	12	35	4	18	1.4	53	-46
	NURNBERG	24	11	37	4	18	0.5	47	-18
AUSTRIA	VIENNA	26	15	35	8	21	1.4	61	-1
	INNSBRUCK	24	13	32	6	19	1.3	131	11
CZECHRE	PRAGUE	23	12	35	5	17	0.3	24	-45
POLAND	WARSAW	21	12	29	6	16	-0.9	52	-8
	LODZ	21	12	29	5	17	0.0	52	-15
	KATOWICE	23	12	31	8	17	0.9	108	18
	PRZEMYSL	22	13	33	5	18	0.5	42	-35
HUNGARY	BUDAPEST	28	16	37	8	22	1.8	36	-16
YUGOSLA	BELGRADE	29	18	39	10	24	2.2	44	-10
ROMANIA	BUCHAREST	31	15	39	8	23	0.7	26	-26
BULGARIA	SOFIA	29	16	36	10	23	4.5	18	-20
ITALY	MILAN	32	21	37	13	26	4.1	13	-80
	VERONA	31	21	36	14	26	2.7	26	-68
	VENICE	30	19	35	11	25	2.2	14	-67
	GENOA	28	22	34	17	25	1.1	28	-25
	ROME	31	20	37	13	26	1.9	3	-28
	NAPLES	32	22	36	17	27	3.0	22	-23
GREECE	THESSALONIKA	33	22	38	19	28	2.7	4	-17
	LARISSA	34	20	39	15	28	2.0	0	-16
	ATHENS	34	25	39	20	30	2.4	0	-4
TURKEY	ISTANBUL	29	23	34	19	26	2.7	0	-21
	ANKARA	32	14	35	10	23	-0.7	0	-37
CYPRUS	LARNACA	34	24	41	22	30	2.0	0	-1
ESTONIA	TALLINN	17	11	21	6	14	-1.1	121	44
LITHUANI	KAJNAS	19	11	26	4	15	-0.9	76	10
BELARUS	MINSK	19	12	27	6	15	-1.4	103	30
RUSSIA	KAZAN	21	13	36	7	17	0.0	59	-9
	MOSCOW	19	12	30	6	16	-0.9	139	65
	YEKATERINBURG	22	13	33	8	18	2.1	42	-23
	OMSK	27	14	35	7	20	4.3	34	-20
	NOVOSIBIRSK	25	14	35	7	20	3.4	52	-2
	BARNAUL	26	14	36	8	20	3.3	73	22
	KHABAROVSK	24	15	32	11	19	-0.8	139	-9
	VLADIVOSTOK	20	16	26	13	18	-1.6	226	70
	SARATOV	25	16	36	8	19	0.2	43	2
	VOLGOGRAD	28	16	38	7	22	-0.4	41	11
	ROSTOV	**	**	34	**	**	***	**	**
	ASTRAKHAN	31	18	40	9	24	0.8	37	18
	KRASNODAR	32	17	39	11	24	1.3	2	-54
	ORENBURG	28	15	38	8	22	2.1	20	-12
KAZAKHS	TSELINOGRAD	29	15	36	7	22	4.4	12	-28
	KARAGANDA	29	15	36	7	22	4.6	2	-31

Based on Preliminary Reports

August 1998

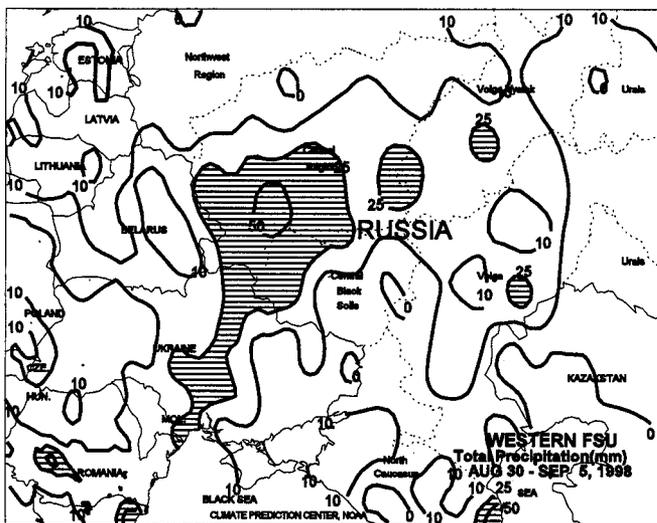
COUNTRY CITY	TEMPERATURE (C)					PRECIPITATION (MM)				COUNTRY CITY	TEMPERATURE (C)					PRECIPITATION (MM)			
	AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM	AVG MAX		AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM		
GEORGIA TBILISI	32	21	37	18	27	2.9	5	-41	S AFRICA PRETORIA	23	7	29	3	15	0.8	0	-5		
UZBEKIST TASHKENT	34	19	37	8	27	1.2	0	-2	JOHANNESBURG	19	4	25	-3	11	-1.1	0	-6		
TURKMENI ASHKHABAD	37	24	40	20	31	2.2	1	0	BETHAL	20	2	27	-4	12	0.2	0	-9		
SYRIA DAMASCUS	40	18	43	12	29	2.7	0	0	DURBAN	23	13	30	8	18	0.3	70	8		
ISRAEL JERUSALEM	33	20	37	16	26	3.0	0	0	CAPE TOWN	19	7	31	2	13	0.8	44	-34		
PAKISTAN KARACHI	32	28	37	27	30	0.9	1	-63	CANADA TORONTO	28	16	32	9	22	2.2	27	-57		
INDIA AMRITSAR	35	26	37	17	30	0.4	92	-87	MONTREAL	26	16	31	8	21	1.6	92	-8		
NEW DELHI	33	27	38	25	30	0.2	234	-20	WINNIPEG	28	13	32	7	21	2.4	102	27		
AHMEDABAD	33	26	38	24	30	1.3	203	-48	REGINA	28	12	34	7	20	1.8	40	0		
INDORE	30	23	34	22	27	1.4	221	-92	SASKATOON	28	12	38	5	20	2.6	42	6		
CALCUTTA	33	27	35	25	30	0.8	257	-31	LETHBRIDGE	29	10	35	5	20	1.8	36	-7		
VERAVAL	31	27	33	26	29	1.2	315	137	CALGARY	28	10	33	6	18	2.1	18	-32		
BOMBAY	31	26	33	25	28	1.6	577	-83	EDMONTON	25	14	35	7	19	2.7	70	3		
POONA	29	22	32	20	26	1.0	159	34	VANCOUVER	24	14	28	11	19	1.8	8	-30		
BEGAMPET	30	23	38	21	27	0.6	258	98	MEXICO GUADALAJARA	19	17	26	15	18	-2.4	249	37		
VISHAKHAPATNAM	31	26	33	24	29	***	190	**	MEXICO CITY	22	15	28	11	18	1.7	187	83		
MADRAS	34	26	38	24	30	0.0	113	-43	ACAPULCO	34	25	35	17	29	0.5	186	-58		
MANGALORE	30	24	32	22	27	0.6	413	-164	BERMUDA ST. GEORGES	31	26	32	22	29	1.1	140	-6		
HONGKO KINGS PEAK	32	27	34	24	29	***	268	**	BAHAMAS NASSAU	33	26	34	24	29	1.3	291	64		
N KOREA PYONGYANG	25	20	28	15	22	-2.1	291	59	JAMAICA KINGSTON	33	27	35	23	30	1.7	93	6		
S KOREA SEOUL	29	22	32	17	26	0.1	1251	1027	P RICO SAN JUAN	32	25	34	23	29	0.5	198	70		
JAPAN SAPPORO	24	19	29	15	21	-0.6	89	-57	GUADELO RAIZET	33	25	33	24	29	1.7	288	155		
NAGOYA	33	25	35	23	29	1.2	120	-26	MARTINIQ LAMENTIN	32	25	34	23	28	1.8	246	4		
TOKYO	31	25	36	20	27	0.2	144	-4	BARBADO BRIDGETOWN	31	26	35	24	29	1.1	128	-18		
YOKOHAMA	30	25	34	20	27	1.1	158	26	TRINIDAD PORT OF SPAIN	33	25	36	23	29	2.1	203	-32		
KYOTO	33	25	37	22	29	1.8	102	-74	COLOMBI BOGOTA	18	9	21	4	13	0.3	56	16		
OSAKA	33	27	36	22	29	1.0	43	-52	VENEZUE CARACAS	32	25	34	24	30	2.6	135	83		
THAILAND PHETCHABUN	33	25	36	23	29	1.6	164	-34	F GUIANA CAYENNE	32	23	34	22	28	1.5	121	-44		
BANGKOK	33	26	36	24	30	1.0	447	251	BRAZIL RECIFE	28	21	29	19	24	0.3	280	77		
MALAYSIA KUALA LUMPUR	32	24	34	23	27	0.8	349	213	BELO HORIZONTE	27	18	32	13	22	2.1	63	48		
VIETNAM HANOI	34	27	37	25	31	2.2	124	-219	FRANCA	26	17	30	13	22	3.7	59	35		
CHINA HARBIN	25	18	31	11	22	-0.1	250	146	RIO DE JANEIRO	26	23	34	20	25	2.6	22	-29		
HAMI	33	17	38	9	25	-0.1	8	3	LONDRINA	22	15	28	10	19	0.4	124	68		
LANCHOW	27	18	32	13	21	0.1	86	12	SANTA MARIA	19	13	28	5	16	1.0	168	31		
BEIJING	30	21	35	15	25	0.4	114	-68	PORTO ALEGRE	19	13	24	6	16	0.6	128	14		
TIENTSIN	30	22	35	18	26	0.2	98	-61	PERU LIMA	19	15	21	15	17	0.4	1	0		
LHASA	21	11	24	9	16	0.1	222	90	BOLIVIA LA PAZ	15	0	17	-4	6	-1.2	3	-13		
KUNMING	24	18	27	14	20	1.2	123	-82	CHILE SANTIAGO	18	2	29	-4	10	0.5	0	-48		
CHENGCHOW	30	23	34	18	26	0.7	186	73	ARGENTIN IGUAZU	22	14	29	7	18	***	331	**		
YEHCHANG	31	24	37	22	27	-0.4	383	189	FORMOSA	21	14	27	9	17	-0.4	80	19		
HANKOW	33	27	38	23	30	1.6	14	-114	CERES	20	8	25	3	13	-0.8	10	-13		
CHUNGKING	31	24	37	19	28	***	283	**	CORDOBA	19	7	26	3	12	-0.2	0	-11		
CHIHKIANG	33	24	37	19	28	0.5	119	2	RIO CUARTO	18	7	24	3	11	0.3	9	-7		
WU HU	33	25	37	19	29	***	118	**	ROSARIO	18	7	25	0	12	0.7	5	-32		
SHANGHAI	33	27	38	21	30	***	113	**	BUENOS AIRES	17	6	21	-2	11	0.3	8	-50		
NANCHANG	34	27	38	20	30	1.1	55	-44	SANTA ROSA	17	3	24	-5	9	-0.1	12	-11		
TAIPEI	33	27	35	25	30	2.0	401	116	TRES ARROYOS	17	4	21	-3	9	0.7	16	-27		
CANTON	34	26	37	24	29	0.8	121	-87	NEW CAL NOUMEA	25	20	30	16	22	2.1	49	-22		
NANNING	34	26	36	23	30	1.3	141	-77	FIJI NAUSORI	27	19	28	16	23	0.3	20	-120		
CANARY I LAS PALMAS	28	22	32	21	25	0.9	0	0	SAMOA PAGO PAGO	29	26	32	13	28	1.3	42	-128		
MOROCC CASABLANCA	26	21	31	18	23	0.7	0	0	TAHITI PAPEETE	29	22	31	20	25	1.0	13	-35		
MARRAKECH	38	22	44	18	29	0.5	0	-3	AUSTRALI DARWIN	31	22	35	19	26	0.1	2	-6		
ALGERIA ALGER	32	20	39	16	26	0.6	8	5	MOREE	**	**	23	23	**	**	**	**		
BATNA	34	18	39	11	25	1.4	14	-6	BRISBANE	21	13	24	7	17	0.8	120	74		
TUNISIA TUNIS	34	23	41	18	28	1.5	23	16	PERTH	19	11	28	6	15	1.5	160	49		
NIGER NIAMEY	31	24	35	20	28	-0.1	282	116	CEDUNA	19	7	29	1	13	0.2	6	-29		
MALI TIMBUKTU	37	29	42	21	32	1.7	45	-18	ADELAIDE	16	9	22	4	12	0.5	37	-14		
BAMAKO	30	23	34	20	26	0.2	294	14	MELBOURNE	14	6	18	0	10	-0.6	17	-33		
MAURITAN NOUAKCHOTT	33	26	38	23	29	1.0	28	-1	WAGGA	15	7	19	0	10	1.2	43	-16		
SENEGAL DAKAR	30	26	32	24	29	0.4	191	29	CANBERRA	13	5	17	-3	8	1.5	119	68		
CHAGOS DIEGO GARCIA	27	25	30	24	26	0.3	132	-52	INDONESIA DJAKARTA	31	25	34	21	28	1.4	141	**		
LIBYA TRIPOLI	36	22	44	18	29	2.6	0	0	PHILIPPI MANILA	32	27	33	24	29	1.9	202	-362		
BENGHAZI	33	24	37	21	28	1.7	0	0											
EGYPT CAIRO	36	24	41	23	30	2.1	0	0											
ASWAN	**	**	48	24	**	***	**	**											
ETHIOPIA ADDIS ABABA	20	12	24	10	16	0.1	213	-51											
KENYA NAIROBI	22	13	25	9	17	-0.2	7	-7											
TANZANIA DAR ES SALAAM	28	20	32	18	25	1.1	5	-22											
GABON LIBREVILLE	**	**	30	20	**	***	35	29											
TOGO LOME	29	23	31	22	25	0.1	15	-11											
BURKINA OUAGADOUGOU	31	24	35	22	27	0.4	182	-28											
COTE D'I ABIDJAN	28	22	29	21	24	-0.1	18	-22											
MOZAMBI MAPUTO	26	16	32	12	21	0.9	1	-12											
ZAMBIA LUSAKA	**	**	29	8	**	***	0	0											
ZIMBABW HARARE	24	10	29	5	16	0.6	0	-2											

Based on Preliminary Reports



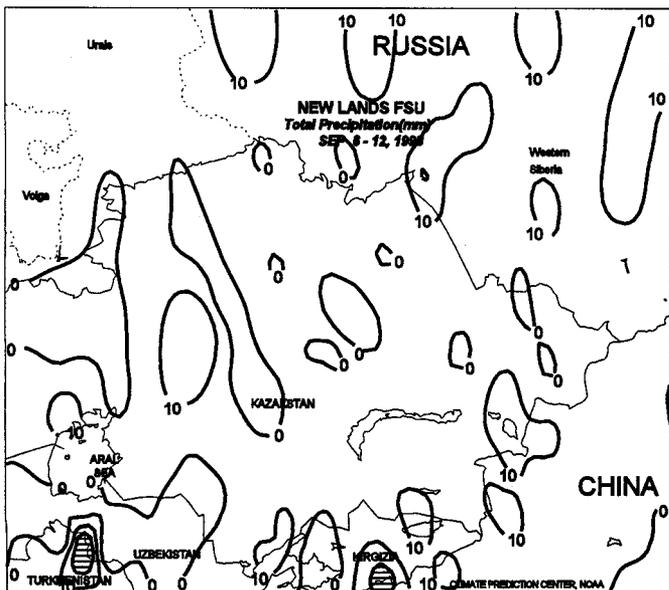
EUROPE

Light to moderate rain fell across most of the continent, interrupting fieldwork. The exceptions were in the Iberian Peninsula, eastern Poland, and the eastern Balkans, where dry weather prevailed. Light to moderate rain (10-40 mm, with local amounts in excess of 40 mm) fell in England, the Benelux countries, Scandinavia, France, Germany, and northern Italy, slowing the completion of small grain harvesting in northern areas and corn and sunflower harvests in the south. The wet weather in these areas provided soil moisture for winter grain and oilseed planting, typically underway in northern areas. Soaking rain (25-60 mm, with local amounts in excess of 60 mm) fell in the Czech Republic, Slovakia, Hungary, Slovenia, and central Italy, delaying summer crop harvesting but providing abundant soil moisture for winter crop planting. Mostly dry weather in Spain, Portugal, and eastern areas in the Balkans helped harvest activities.



FSU-WESTERN

In Russia, dry weather improved conditions for small grain harvesting and late winter grain planting in northern areas. Soil moisture across the north is abundant for winter grain emergence, but seasonable temperatures are needed for crop establishment. Farther south, although dry weather favored early summer crop harvesting in North Caucasus and lower Volga Valley, topsoils remained unfavorably dry for winter grain planting. Sufficient time remains for planting winter wheat in southern Russia, as planting can extend into mid-October. However, under normal weather conditions, planting after mid-October may not ensure that the crop becomes sufficiently established prior to dormancy. In Ukraine, dry weather favored early sugar beet and sunflower harvesting and allowed winter wheat planting to progress at a normal pace. Elsewhere, dry weather also favored fieldwork in Belarus, with late-week rain interrupting fieldwork in the Baltics. Weekly temperatures averaged 1 to 3 degrees C below normal in Ukraine and southern Russia and near to slightly above normal in northern Russia, Belarus, and the Baltics.

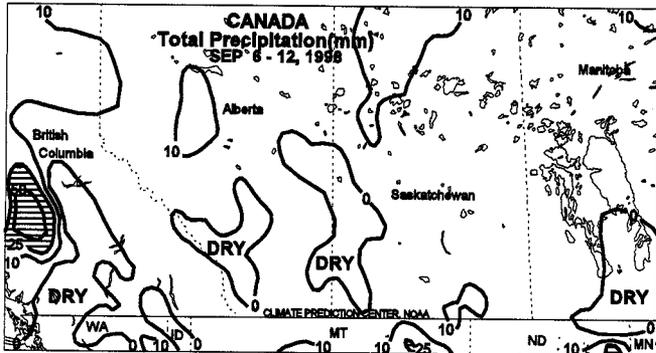


FSU-NEW LANDS

Spring grain harvesting was well underway in Russia and Kazakstan. In Russia, light showers (generally less than 10 mm) caused only minor delays in harvesting. Weekly temperatures averaged 2 to 4 degrees C below normal, slowing crop maturation. Furthermore, extreme minimum temperatures at or below freezing (0 C to -4 degrees C) were observed at most locations in the Urals, Western Siberia, and Eastern Siberia, ending the growing season. In Kazakstan, dry weather continued to favor rapid spring grain harvesting. Weekly temperatures averaged 2 to 4 degrees C below normal, with sub-freezing temperatures scattered throughout the country. In cotton-producing areas of Central Asia, mostly dry weather favored cotton harvesting.

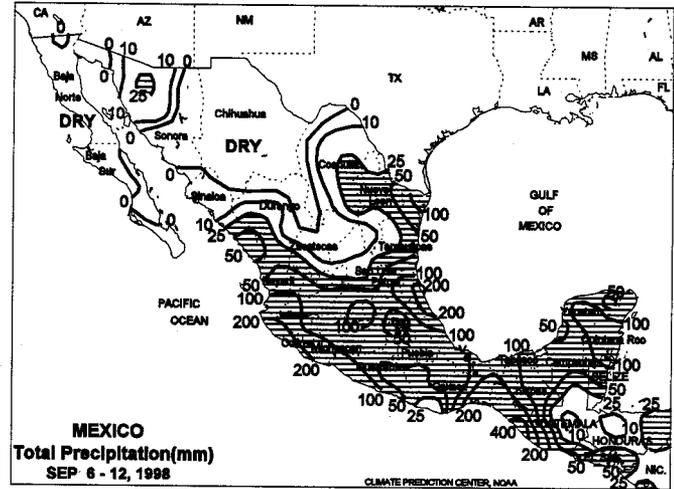
CANADA

Spring grain and oilseed harvests neared completion as warm, dry weather again dominated the Prairies. While the quality of newly harvested crops remained above average, provincial reports indicated problems with fall tillage and spraying due to the prolonged dry spell. Freezing temperatures have been uncommon so far this autumn, with virtually no damage to unharvested crops. In eastern Canada, above-normal temperatures hastened maturity of corn and soybeans in Ontario and Quebec. Light showers (10-20 mm) slowed early harvests but moistened topsoils for winter wheat germination.



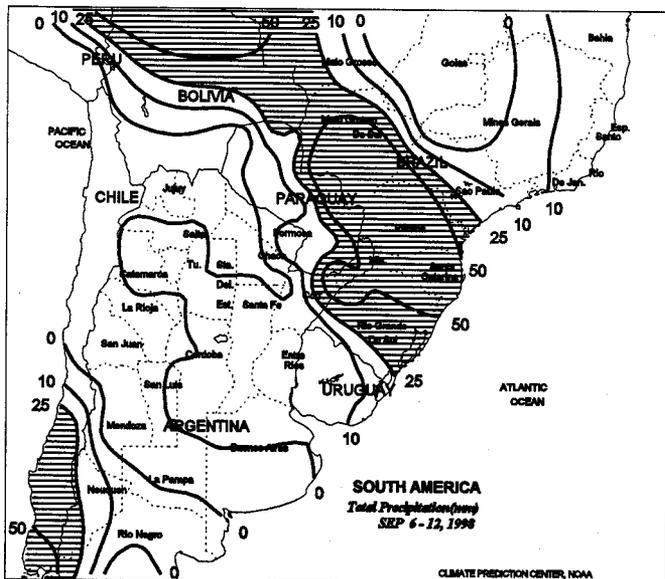
MEXICO

Showers (30-100 mm) maintained adequate moisture for corn development across Southern Plateau Corn Belt. Moderate rain (35-150 mm) eased dryness and increased reservoir levels in northeastern Mexico. Widespread rain (40-100 mm) covered southern Mexico. Heavy rain (100-300 mm) caused local flooding in Veracruz and Chiapas. Temperatures averaged 1 to 2 degrees C above normal across most of Mexico.



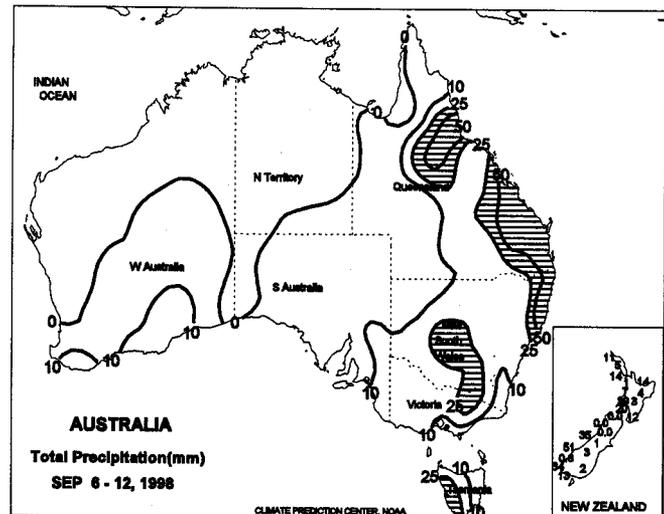
SOUTH AMERICA

Mostly dry weather (less than 5 mm) again prevailed across central Argentina, stressing emerging to vegetative winter wheat. Freezing temperatures also burned back wheat across most of Buenos Aires. According to reports as of September 4, winter wheat was 97 percent planted, compared with 95 percent last year. In southern Brazil, light to moderate rain (10-35 mm) favored reproductive to filling winter wheat in Rio Grande do Sul, but slowed harvesting farther north. The moisture also aided fieldwork preparations for summer crop planting. Temperatures averaged 1 to 2 degrees C above normal across Argentina and most of southern Brazil.



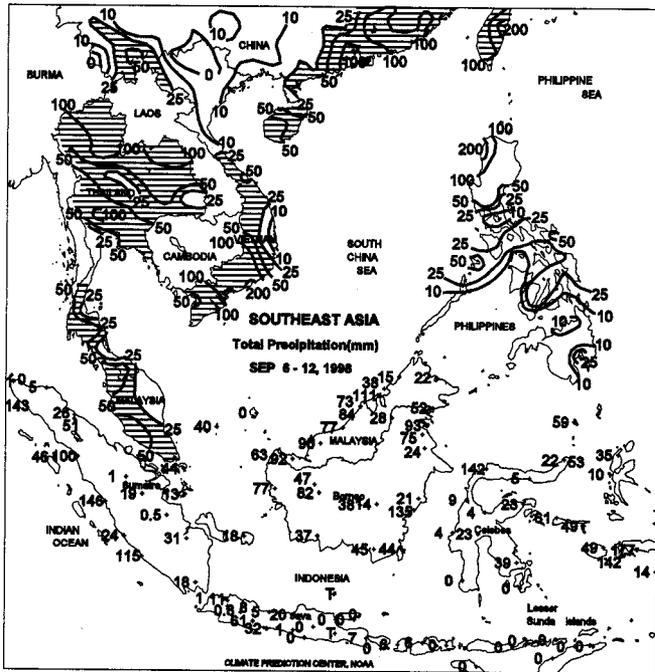
AUSTRALIA

Widespread, locally heavy rain (10-50 mm or more) covered most eastern crop areas. The soggy weather plaguing Queensland and northern New South Wales maintained abundant moisture reserves for crop development but caused concern for the quality of winter grains and sugarcane. In addition, wetness caused sorghum and cotton planting delays, although record moisture reserves favor good early development. Lighter showers (5-31 mm) benefited previously dry areas centered over western Victoria. In contrast, mostly dry weather continued over winter grain areas of South Australia. Showers were also light (less than 10 mm) in crop areas of Western Australia, dampening topsoils as crop growth increased. Near- to above-normal temperatures spurred crop development across Australia's wheat and barley belts. In New Zealand, showers were mostly light (15 mm or less) in the main pasture areas.



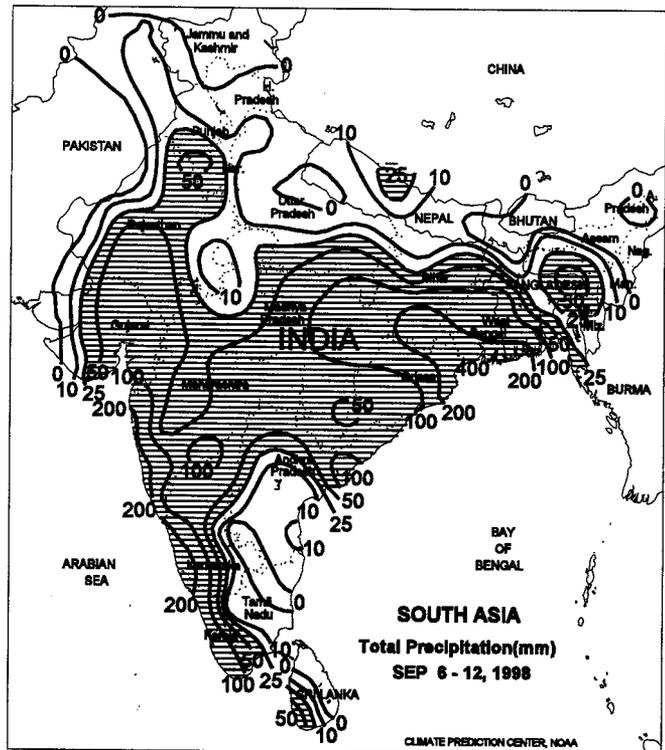
SOUTHEAST ASIA

Moderate showers (10-80 mm) maintained moisture supplies for sugarcane in Thailand, but slowed development of filling rice. Heavier showers (100-170 mm) caused local flooding in northern Thailand. Mostly dry weather favored 10th-month rice harvesting in northern Vietnam, but heavy showers (100-300 mm) slowed fieldwork in the south and caused local flooding. In the Philippines, heavy showers (50-100 mm, with isolated amounts greater than 200 mm in northwestern Luzon) boosted moisture supplies for sugarcane, but slowed rice development. Elsewhere in the Philippines, drier weather favored filling rice. Showers (20-60 mm) maintained moisture supplies for oil palm across peninsular Malaysia. In Java, drier weather (1-10 mm, with isolated amounts greater than 25 mm) favored maturing second crop rice and corn.



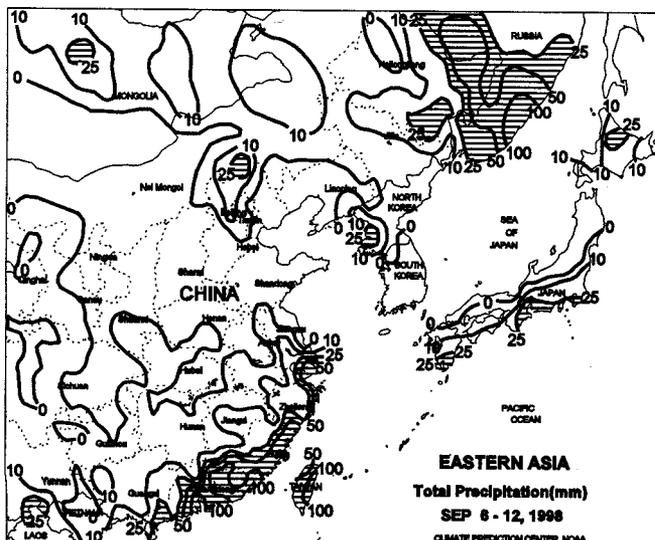
SOUTH ASIA

Moderate to heavy showers (25-50 mm or more) returned to important oilseed areas of western India (Gujarat and western Madhya Pradesh). The late shot of monsoon rainfall in that area benefited immature groundnuts, soybeans, and cotton, as well as coarse grains and sugarcane. Farther north, showers were generally scattered and light (5-25 mm, most areas) across rice and cotton areas of north-central India and Pakistan, but a few isolated storms (50 mm or greater) west of New Delhi may have damaged maturing crops. The southwest monsoon typically begins its seasonal withdrawal from the northwest at about this time, marking the imminent end of the rainy season. Elsewhere, a heavy surge of late-monsoon rainfall (100-300 mm or more) may have flooded rice along India's southwest coast. Rainfall tapered off over important rice areas of northern and far eastern India and Bangladesh, helping floodwaters to recede. However, inundating rain (100-200 mm or more) developed over rainfed rice areas of eastern India from Calcutta westward, likely causing damage in areas that had not previously experienced severe flooding.



EASTERN ASIA

Mostly dry, warm weather favored filling to maturing summer crops in the North China Plain and vegetative late rice in the Yangtze Valley. The dryness also aided flood recovery along the Yangtze Valley. Light to moderate rain (5-40 mm) delayed summer crop maturation in Manchuria. Variable showers (10-100 mm) prevailed across coastal China, from Jiangsu southward to Guangdong, increasing late-rice moisture supplies. Temperatures averaged 2 to 5 degrees C above normal across China. Warm, dry weather (temperatures averaged 1-3 degrees C above normal) also favored filing rice across the Korean Peninsula and Japan.



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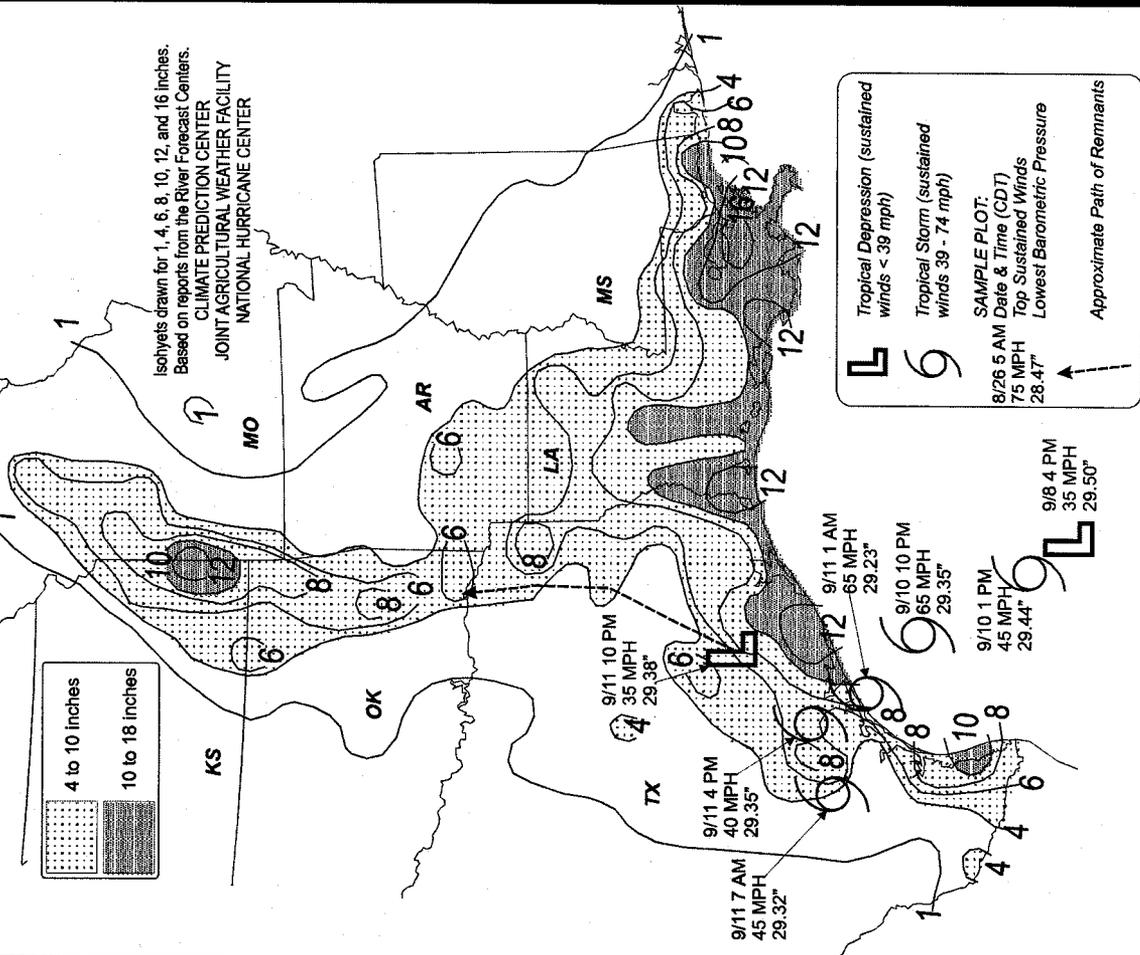
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National Oceanic and Atmospheric Administration
 National Weather Service/Climate Prediction Center
 Managing Editor *David Miskus*
 Meteorologists *Jeff Savadel and Brian Morris*
 Special Requests (202) 720-7917
 Subscriptions *John Kopman* (301) 763-8227, ext. 7534
 fax: (301) 763-8125

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 E.R.S. Editor *Sharon Lee*
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TOTAL PRECIPITATION (inches) & PATH OF TROPICAL STORM FRANCES
 September 5 - 13, 1998 [9 days]



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