

(Continued from front cover)

Early in the week, weakening Hurricane Edouard brushed the New England coastline. The center of Edouard passed about 80 miles east of Nantucket Island on Monday morning, producing a north-northeasterly wind gust to 75 mph in Nantucket, MA. On Cape Cod, Chatham, MA registered a gust to 71 mph. Massachusetts rainfall totals reached 6.37 inches in West Dennis and 5.20 inches in Hyannis. Edouard produced a modest 1- to 2-foot storm surge in the region.

Meanwhile, September opened with maxima reaching only 73°F in locations such as Longview, TX and Jackson, MS. In addition to the cooler-than-normal weather, weekly rainfall topped 2 inches in locations such as Beaumont, TX and Montgomery, AL. Locally heavy rain also struck, especially on Tuesday, in Arizona, where Tucson's weekly total of 2.60 inches represented more than one-third of their year-to-date total.

Hot weather gripped Peninsular Florida during the week, setting nearly a dozen daily-record highs. Ft. Myers notched September-record highs of 97°F on September 3 and 7, while Miami posted daily-record maxima of 93°F on September 1, 2, and 5. Farther north, weekly temperatures averaged more than 6°F above normal from the Dakotas to New England, with departures reaching +10 to +13°F in the western Great Lakes region. In contrast, more than a dozen daily-record lows were established in the Northwest and the Great Basin. Yakima, WA posted lows of 35°F on September 4 and 5. On Friday, lows dipped to 29°F in Pocatello, ID and 23°F in Elko, NV.

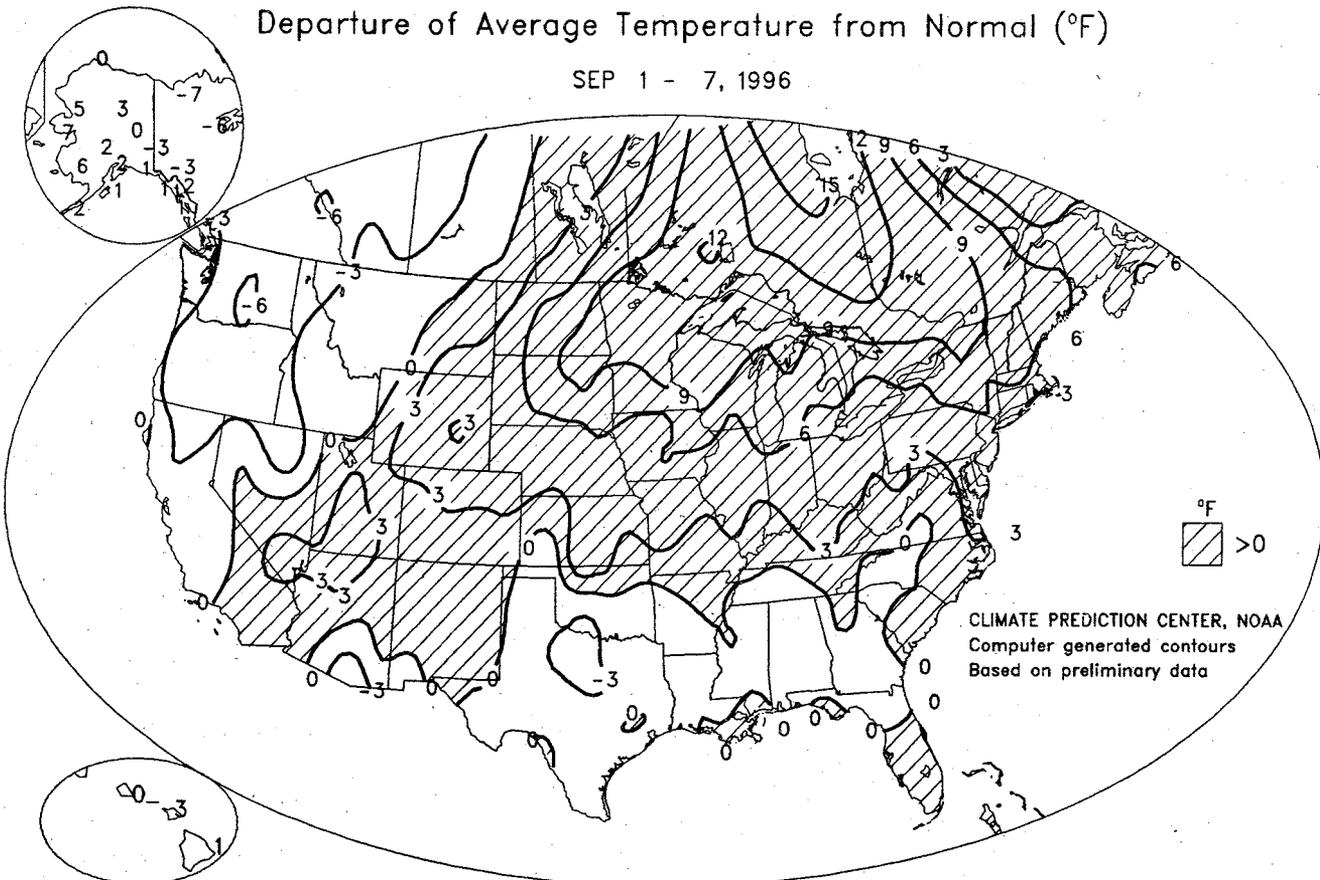
Very warm weather covered Alaska, except in the eastern interior. In McGrath, highs reached or exceeded 65°F on the first 7 days of the month, including daily records on September 4 (74°F) and 7 (69°F).

Several days before Fran's arrival, a slow-moving disturbance dumped heavy rain on parts of the Middle Atlantic States. In Greensboro, NC, pre-Fran rains totaled 5.65 inches, including a 3.94-inch rainfall on Tuesday (their 5th wettest September day and 12th wettest day on record). Totals in southwestern Virginia topped 11 inches by midweek in parts of Henry County. Hurricane Fran first struck Bald Head Island (Cape Fear, NC), south of Wilmington around 8 p.m. EDT on Thursday, carrying a central pressure of about 28.17 inches (954 millibars). South of Cape Fear, winds gusted to 124 mph at Frying Pan Shoals and seas swelled to 32 feet. Despite the storm's arrival near low tide, the storm surge ranged from around 6 feet in Horry County, SC to as much as 16 feet in North Carolina's Pender and New Hanover Counties.

Inland, gusts reached 86 mph (on Thursday) in Wilmington, NC and 79 mph (on Friday) in Raleigh-Durham, NC. In addition, Raleigh-Durham posted a September-record barometric pressure (28.84 inches) and an all-time record 24-hour rainfall (9.44 inches on September 5-6). Fran, in conjunction with the earlier disturbance, boosted weekly rainfall to more than 15 inches at some locations in Virginia's Henry and Franklin Counties. As a result, a flood rival to that observed in January 1996 coursed through the James, Rappahannock, and Potomac basins in Fran's aftermath. At Point of Rocks, MD, the Potomac River crested at 20.3 feet above flood stage (a.f.s.), 0.2 feet shy of the January flood crest and 4.7 feet below the March 1936 record. All-time crest records were established at several points along the Shenandoah River in Virginia, including Strasburg (15.3 feet a.f.s.). At the city locks in Richmond, VA, the James River crested at 14.7 feet a.f.s. Even as far north as Cleveland, OH, Fran (as an extratropical low-pressure system) deposited a 24-hour record rainfall (5.22 inches on September 6-7).

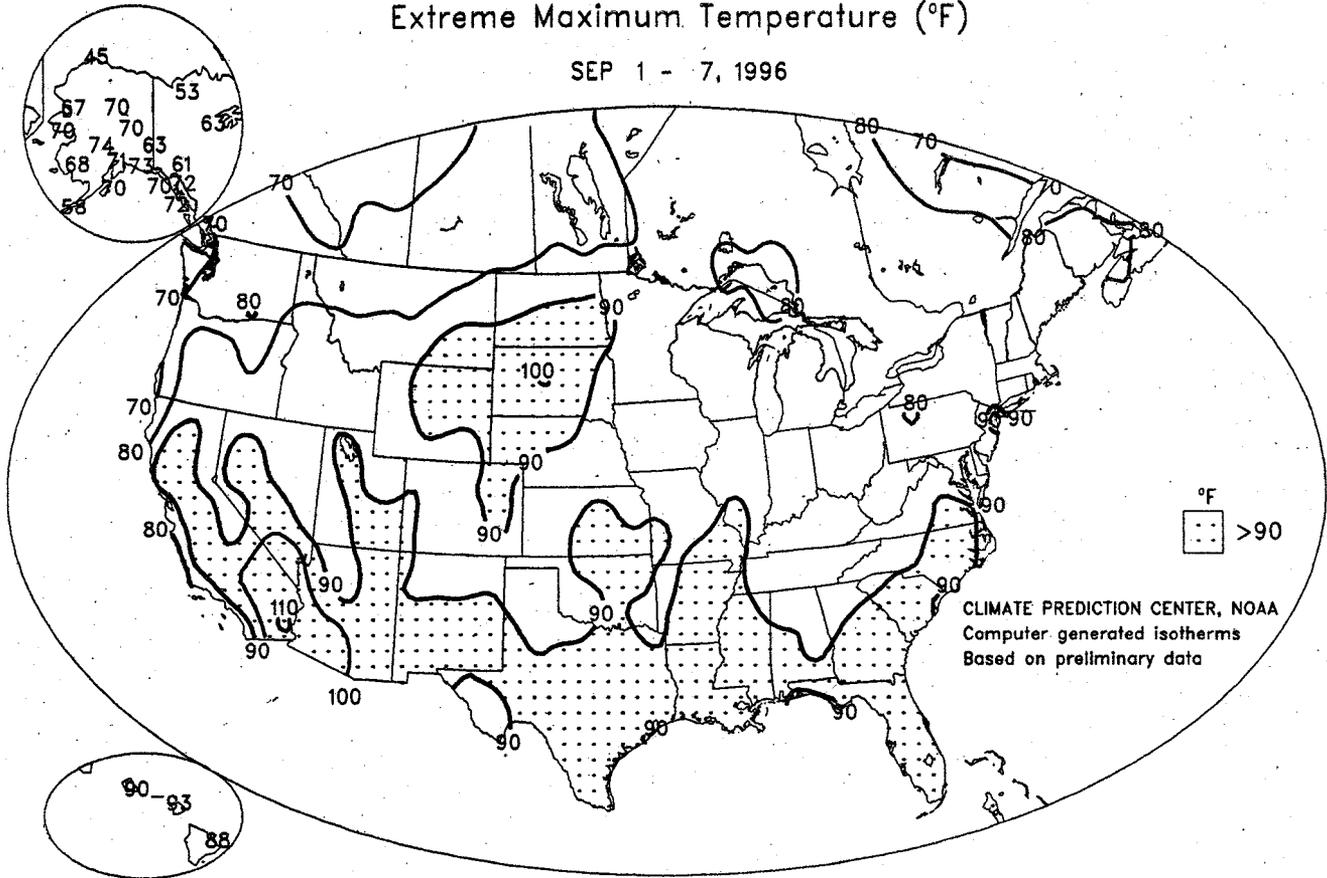
Departure of Average Temperature from Normal (°F)

SEP 1 - 7, 1996



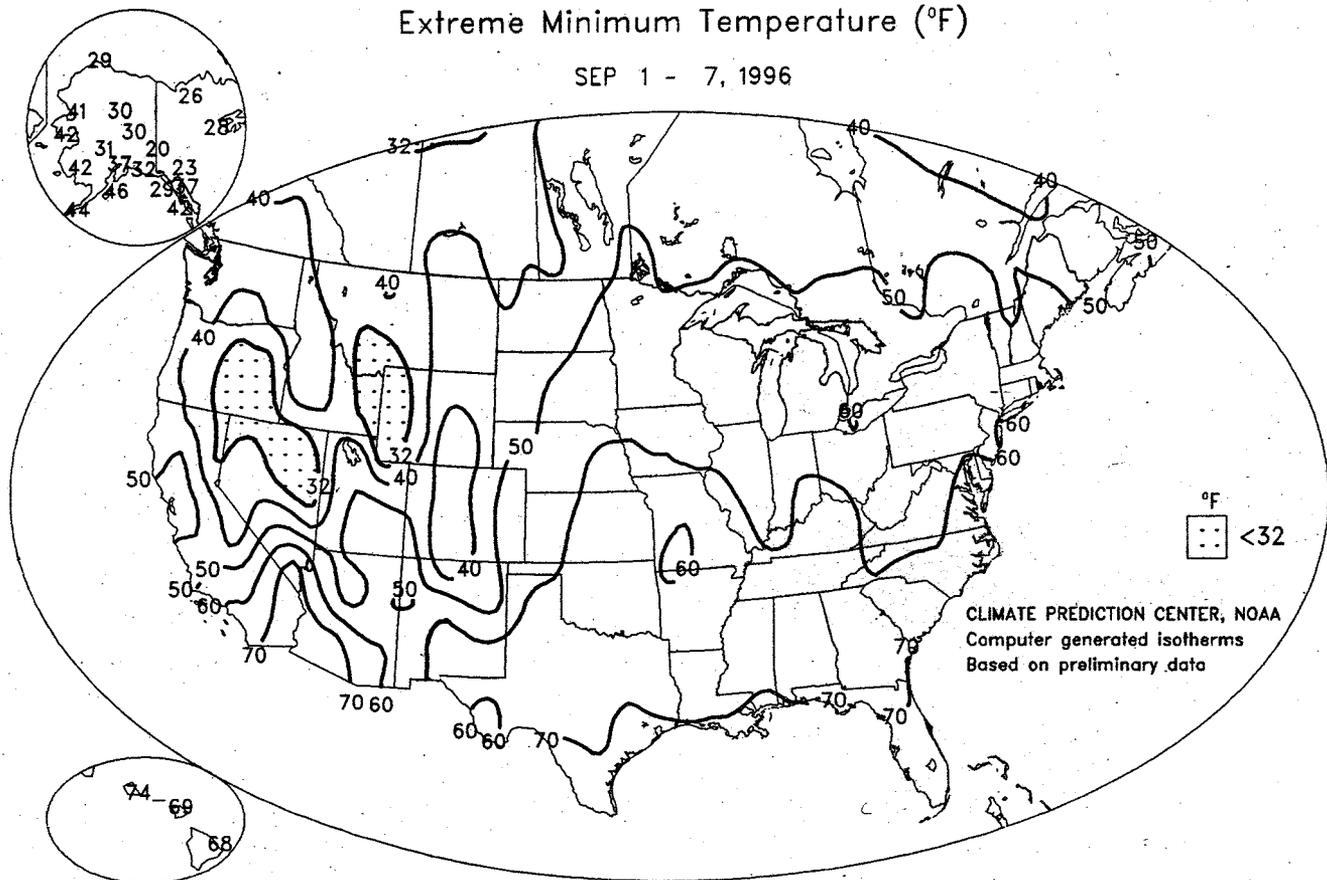
Extreme Maximum Temperature (°F)

SEP 1 - 7, 1996



Extreme Minimum Temperature (°F)

SEP 1 - 7, 1996





# National Weather Data for Selected Cities

Weather Data for the Week Ending September 7, 1996

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			
																90 AND ABOVE	82 AND BELOW	.01 INCH OR MORE	.05 INCH OR MORE
AL BIRMINGHAM	86	67	90	65	76	-1	1.37	0.43	1.22	1.37	145	47.36	120	98	82	1	0	3	1
MOBILE	87	70	90	68	79	-2	0.23	-1.34	0.14	0.23	16	50.33	108	97	81	1	0	2	0
MONTGOMERY	85	68	89	66	77	-1	2.87	1.93	2.82	2.87	305	50.06	123	97	82	0	0	2	1
AK ANCHORAGE	65	42	71	37	54	1	0.00	-0.63	0.00	0.00	0	8.29	85	90	48	0	0	0	0
BARROW	39	31	45	29	35	0	0.48	0.31	0.42	0.48	282	2.83	91	97	82	0	0	3	0
FAIRBANKS	67	38	70	30	51	0	0.04	-0.24	0.04	0.04	14	7.97	103	93	34	0	3	1	0
JUNEAU	62	44	72	37	53	2	-	-	-	-	-	-	95	58	0	0	-	-	-
KODIAK	60	48	70	48	54	1	3.14	1.62	1.51	3.14	207	32.11	76	93	89	0	0	4	2
NOME	61	46	70	42	54	7	0.00	-0.63	0.00	0.00	0	11.82	118	91	54	0	0	0	0
AZ PHOENIX	98	78	102	70	88	-1	0.43	0.21	0.22	0.43	195	3.56	74	68	30	7	0	3	0
PRESCOTT	82	60	90	51	71	-1	0.63	0.04	0.39	0.63	107	6.15	44	96	48	1	0	4	0
TUCSON	90	69	97	64	79	-3	2.60	2.18	1.45	2.60	591	7.44	92	77	34	4	0	3	2
YUMA	102	83	105	82	93	3	0.00	-0.09	0.00	0.00	0	0.93	46	73	32	7	0	0	0
AR FORT SMITH	87	66	90	63	76	-1	0.00	-0.72	0.00	0.00	0	35.64	128	96	58	1	0	0	0
LITTLE ROCK	-	-	-	-	-	-	0.07	-0.93	-	0.07	7	29.75	91	-	-	-	-	-	-
CA BAKERSFIELD	83	62	103	55	76	-2	0.00	-0.03	0.00	0.00	0	4.20	106	55	22	5	0	0	0
EUREKA	67	49	71	48	58	0	0.00	-0.14	0.00	0.00	0	29.44	136	91	59	0	0	0	0
FRESNO	94	60	101	56	77	0	0.00	-0.04	0.00	0.00	0	8.14	116	76	18	6	0	0	0
LOS ANGELES	78	66	83	63	72	1	0.00	-0.08	0.00	0.00	0	8.72	109	86	81	0	0	0	0
REDDING	92	57	99	52	74	-2	0.00	-0.15	0.00	0.00	0	27.68	141	58	12	5	0	0	0
SACRAMENTO	90	53	95	48	71	-2	0.00	-0.06	0.00	0.00	0	15.85	145	92	63	4	0	0	0
SAN DIEGO	77	69	80	68	73	1	0.00	-0.06	0.00	0.00	0	3.94	62	83	23	0	0	0	0
SAN FRANCISCO	75	53	86	52	64	0	0.00	0.00	0.00	0.00	0	18.46	150	87	46	0	0	0	0
CO DENVER	85	55	94	46	70	4	0.18	-0.12	0.17	0.19	61	6.72	56	67	26	4	0	2	0
GRAND JUNCTION	86	59	94	48	73	1	0.72	0.50	0.41	0.72	327	6.32	94	83	20	4	0	2	0
PUEBLO	87	50	93	46	69	-1	0.04	-0.24	0.02	0.04	14	10.65	116	91	27	4	0	2	0
CT BRIDGEPORT	81	67	87	61	74	5	0.06	-0.66	0.06	0.06	8	33.68	117	86	54	0	0	1	0
HARTFORD	82	61	87	55	71	5	0.77	-0.11	0.75	0.77	87	33.99	114	90	56	0	0	2	1
DC WASHINGTON	85	70	89	64	78	3	3.55	2.73	1.83	3.55	433	33.66	125	91	62	0	0	3	2
FL PANAMA CITY	87	74	88	72	80	0	-	-	-	-	-	-	97	85	0	0	-	-	
DAYTONA BEACH	89	73	92	71	81	1	1.18	-0.38	0.81	1.18	76	43.65	129	97	81	4	0	3	1
JACKSONVILLE	86	71	91	70	80	-1	0.24	-1.43	0.13	0.24	14	36.12	102	96	61	3	0	4	0
KEY WEST	90	78	90	77	84	0	0.61	-0.77	0.61	0.61	44	21.81	84	57	5	0	1	1	
MIAMI	92	77	93	75	85	2	2.11	0.26	0.95	2.11	114	40.41	100	89	51	7	0	4	2
ORLANDO	92	74	94	72	83	1	2.44	0.85	1.47	2.44	153	46.73	126	97	52	7	0	3	2
TALLAHASSEE	89	70	91	68	80	-1	1.23	-0.29	0.81	1.23	81	37.41	75	96	61	5	0	4	1
TAMPA	91	77	92	75	84	2	0.29	-1.37	0.29	0.29	17	35.31	104	89	80	7	0	1	0
WEST PALM BEACH	91	75	92	71	83	0	0.70	-0.91	0.56	0.70	43	28.10	70	93	56	6	0	3	1
GA ATLANTA	84	69	89	66	77	1	0.40	-0.43	0.24	0.40	48	32.67	88	90	58	0	0	3	0
AUGUSTA	85	69	92	66	77	0	0.71	-0.09	0.50	0.71	89	28.43	84	94	64	1	0	3	1
MACON	87	68	93	66	78	0	0.06	-0.66	0.04	0.06	8	25.58	76	97	58	3	0	2	0
SAVANNAH	87	72	91	70	79	0	1.05	-0.25	0.39	1.05	81	24.63	64	97	64	2	0	4	0
HI HILO	85	70	86	68	78	1	3.02	1.00	1.74	3.02	150	83.69	96	94	82	0	0	6	1
HONOLULU	86	75	90	74	82	0	0.56	0.45	-	0.56	509	12.01	98	86	63	2	0	-	-
KAHULUI	91	73	93	69	82	3	-	-	-	-	-	-	83	53	6	0	-	-	
LIHUE	-	76	-	73	-	-	-	-	-	-	-	-	88	67	0	0	-	-	
ID BOISE	78	49	85	45	63	-3	0.04	-0.13	0.04	0.04	24	7.69	97	66	21	0	0	1	0
LEWISTON	76	53	83	47	65	-3	0.00	-0.19	0.00	0.00	0	11.46	133	61	26	0	0	0	0
POCATELLO	78	40	86	29	59	-3	0.00	-0.19	0.00	0.00	0	7.54	91	64	16	0	2	0	0
IL CHICAGO	84	63	87	58	74	6	0.00	-0.98	0.00	0.00	0	23.46	93	97	50	0	0	0	0
MOLINE	85	59	86	57	72	4	0.00	-0.99	0.00	0.00	0	22.04	77	97	45	0	0	0	0
PEORIA	85	63	86	61	74	5	0.00	-0.90	0.00	0.00	0	21.85	85	93	44	0	0	0	0
QUINCY	84	62	85	60	73	3	-	-	-	-	-	-	93	45	0	0	-	-	
ROCKFORD	84	60	86	57	72	5	0.00	-0.94	0.00	0.00	0	34.59	133	98	47	0	0	0	0
SPRINGFIELD	86	62	88	58	74	3	0.00	-0.80	0.00	0.00	0	24.39	98	98	50	0	0	0	0
IN EVANSVILLE	85	64	87	56	74	0	0.79	0.05	0.72	0.79	107	40.29	124	95	48	0	0	2	1
FORT WAYNE	83	61	85	55	72	4	0.04	-0.63	0.04	0.04	8	31.51	128	96	52	0	0	1	0
INDIANAPOLIS	86	66	87	60	75	6	0.00	-0.72	0.00	0.00	0	34.97	122	83	49	0	0	0	0
SOUTH BEND	83	61	85	57	72	5	0.00	-0.87	0.00	0.00	0	32.26	120	92	44	0	0	0	0
IA DES MOINES	83	63	85	61	73	6	0.40	-0.52	0.40	0.40	43	26.70	106	90	48	0	0	1	0
SIoux CITY	81	63	85	58	72	5	1.19	0.47	0.82	1.19	165	27.47	138	97	56	0	0	3	1
WATERLOO	87	60	89	53	73	8	0.00	-0.85	0.00	0.00	0	18.68	73	91	50	0	0	0	0
KS CONCORDIA	87	65	89	60	76	5	0.00	-0.77	0.00	0.00	0	18.67	74	90	50	0	0	0	0
DODGE CITY	81	62	85	57	72	-1	1.89	1.18	1.34	1.89	331	21.62	124	96	58	0	0	3	1
GOODLAND	81	58	87	50	70	2	0.02	-0.37	0.02	0.02	5	17.84	119	93	57	0	0	1	0
TOPEKA	86	63	87	61	74	3	0.78	-0.13	0.55	0.78	86	28.30	109	93	50	0	0	2	1
WICHITA	86	66	90	64	76	3	0.00	-0.92	0.00	0.00	0	17.54	68	88	50	1	0	0	0
KY BOWLING GREEN	83	65	88	60	74	1	0.73	-0.15	0.39	0.73	83	38.02	106	100	60	0	0	3	0
LEXINGTON	83	65	88	62	74	2	0.09	-0.72	0.05										

Weather Data for the Week Ending September 7, 1996

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	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	90 AND ABOVE	92 AND BELOW	.01 INCH OR MORE		.05 INCH OR MORE	
																		01 INCH OR MORE	.05 INCH OR MORE		
ME CARIBOU	78	51	84	43	64	8	0.00	-0.86	0.00	0.00	0	27.94	115	93	48	0	0	0	0		
ME PORTLAND	77	60	86	54	68	6	0.97	0.28	0.91	0.97	141	30.04	106	94	58	0	0	2	1		
MD BALTIMORE	84	66	88	57	75	3	0.70	-0.15	0.48	0.70	82	35.56	124	97	59	0	0	3	0		
MA SALISBURY	86	66	90	60	78	5	0.00	-0.97	0.00	0.00	0	38.06	117	98	55	1	0	0	0		
MA BOSTON	77	65	85	61	71	3	1.31	0.58	0.68	1.31	182	28.79	104	83	61	0	0	3	2		
MA CHATHAM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MI ALPENA	81	54	84	50	68	7	0.10	-0.69	0.10	0.10	13	15.45	76	99	52	0	0	1	0		
MI DETROIT	82	63	86	59	73	6	0.98	0.24	0.98	0.98	132	16.13	70	86	48	0	0	1	1		
MI FLINT	83	57	86	54	70	5	0.45	-0.44	0.43	0.45	51	16.44	79	94	45	0	0	2	0		
MI GRAND RAPIDS	85	59	87	52	72	7	0.00	-1.02	0.00	0.00	0	18.05	75	91	40	0	0	0	0		
MI HOUGHTON LAKE	81	54	83	51	68	7	0.02	-0.83	0.02	0.02	2	23.44	121	98	49	0	0	1	0		
MI LANSING	81	58	85	39	69	5	0.05	-0.89	0.05	0.05	5	19.30	91	91	47	0	0	1	0		
MI MARQUETTE	84	56	88	52	70	13	0.07	-0.86	0.04	0.07	8	29.01	125	96	47	0	0	2	0		
MI MUSKOGON	84	58	87	53	72	7	0.00	-0.94	0.00	0.00	0	17.43	84	90	40	0	0	0	0		
MI SAULT ST. MARIE	80	55	82	50	67	9	0.04	-0.84	0.04	0.04	6	24.63	112	98	50	0	0	1	0		
MN ALEXANDRIA	81	62	87	57	72	10	1.00	-	-	-	-	-	-	95	56	0	0	-	-		
MN DULUTH	75	60	80	55	68	10	1.33	0.37	1.18	1.33	139	23.33	107	96	61	0	0	2	1		
MN INTL FALLS	79	56	85	47	68	11	0.70	-0.07	0.40	0.70	91	19.00	105	95	52	0	0	4	0		
MN MINNEAPOLIS	86	68	88	60	78	11	0.00	-0.70	0.00	0.00	0	14.91	89	88	49	0	0	0	0		
MN ROCHESTER	80	60	82	55	70	7	0.00	-0.87	0.00	0.00	0	19.72	88	94	58	0	0	0	0		
MS GREENWOOD	88	68	93	68	78	0	-	-	-	-	-	-	-	99	46	4	0	-	-		
MS JACKSON	86	67	91	66	78	-2	0.00	-0.70	0.00	0.00	0	43.73	113	99	59	2	0	0	0		
MS MERIDIAN	86	67	91	66	77	-2	1.33	0.48	1.28	1.33	156	43.77	108	97	60	2	0	0	0		
MO CAPE GIRARDEAU	87	65	90	65	78	3	0.38	-0.47	0.20	0.38	45	25.69	79	97	50	1	0	3	0		
MO COLUMBIA	86	61	88	60	74	3	1.21	0.32	0.75	1.21	136	26.08	98	94	46	0	0	3	1		
MO KANSAS CITY	85	63	86	62	74	3	0.20	-0.84	0.20	0.20	18	27.78	102	93	52	0	0	1	0		
MO SAINT LOUIS	86	66	88	64	76	3	0.06	-0.67	0.03	0.06	7	28.78	114	88	45	0	0	2	0		
MO SPRINGFIELD	87	61	89	57	74	2	0.24	-0.89	0.24	0.24	21	21.12	71	96	45	0	0	1	0		
MT BILLINGS	78	49	85	41	63	0	0.00	-0.30	0.00	0.00	0	8.74	77	87	22	0	0	0	0		
MT GLASGOW	75	48	80	42	61	0	0.00	-0.26	0.00	0.00	0	5.37	62	70	27	0	0	0	0		
MT GREAT FALLS	70	45	77	39	58	-3	0.23	-0.10	0.23	0.23	70	6.88	57	71	29	0	0	1	0		
MT HAVRE	74	44	80	36	59	-2	0.45	0.15	0.45	0.45	150	8.61	97	75	29	0	0	1	0		
MT HELENA	73	48	81	32	60	0	0.22	-0.08	0.22	0.22	73	8.20	90	78	26	0	1	1	0		
MT KALISPELL	86	42	72	32	54	-3	0.48	0.15	0.28	0.48	146	16.54	142	95	39	0	1	4	0		
MT MILES CITY	81	53	93	47	67	3	0.00	-0.30	0.00	0.00	0	10.14	92	63	21	1	0	0	0		
MT MISSOULA	71	46	82	37	58	-2	0.34	0.08	0.34	0.34	121	12.01	121	77	31	0	0	1	0		
NE GRAND ISLAND	84	63	89	61	74	6	0.00	-0.72	0.00	0.00	0	23.92	121	90	50	0	0	0	0		
NE LINCOLN	84	65	87	63	75	6	0.05	-0.80	0.05	0.05	6	28.61	133	93	56	0	0	1	0		
NE NORFOLK	82	64	86	60	73	6	0.67	0.08	0.67	0.67	110	18.81	94	91	53	0	0	1	1		
NE NORTH PLATTE	81	57	88	50	69	3	1.57	1.18	1.40	1.57	403	20.05	125	95	56	0	0	2	1		
NE OMAHA	85	64	87	61	74	5	1.24	0.35	-	1.24	139	23.46	105	91	48	0	0	-	-		
NE SCOTTSBLUFF	84	55	94	47	69	4	0.35	0.10	0.26	0.35	140	12.91	104	98	37	2	0	2	0		
NE VALENTINE	86	57	95	51	72	4	0.86	0.25	0.86	0.86	141	11.57	84	97	38	3	0	2	1		
NV ELY	83	44	88	30	63	3	0.00	-0.22	0.00	0.00	0	4.89	68	79	7	0	1	0	0		
NV LAS VEGAS	99	78	105	73	88	4	0.00	-0.08	0.00	0.00	0	0.91	31	34	16	7	0	0	0		
NV RENO	84	41	90	34	62	-2	0.00	-0.08	0.00	0.00	0	7.44	148	79	12	2	0	0	0		
NH WINNEMUCCA	84	37	90	30	61	-3	0.00	-0.08	0.00	0.00	0	6.13	111	70	13	2	2	0	0		
NH CONCORD	83	58	89	49	71	8	0.41	-0.26	0.24	0.41	61	27.80	114	93	43	0	0	3	0		
NJ ATLANTIC CITY	85	68	89	57	75	6	0.00	-0.78	0.00	0.00	0	32.35	113	91	59	0	0	0	0		
NM ALBUQUERQUE	86	63	90	60	75	3	0.08	-0.19	0.08	0.08	30	5.91	93	59	22	1	0	1	0		
NM CLOVIS	84	60	91	59	72	1	-	-	-	-	-	-	-	94	44	1	0	-	-		
NM ROSWELL	88	64	90	82	76	1	-	-	-	-	-	-	-	89	36	2	0	-	-		
NY ALBANY	80	61	84	55	71	6	0.38	-0.35	0.23	0.38	52	30.20	120	97	63	0	0	2	0		
NY BINGHAMTON	77	59	80	52	68	5	0.89	0.09	0.90	0.89	111	30.03	118	96	62	0	0	3	1		
NY BUFFALO	81	62	85	58	72	7	0.62	-0.27	0.61	0.62	70	30.06	118	93	52	0	0	2	1		
NY NEW YORK	84	72	89	67	78	7	0.37	-0.46	0.37	0.37	45	29.00	98	85	54	0	0	1	0		
NY ROCHESTER	82	60	84	53	71	6	0.60	-0.15	0.60	0.60	80	28.05	129	95	51	0	0	1	1		
NY SYRACUSE	83	61	87	54	72	7	0.22	-0.67	0.18	0.22	25	23.80	91	93	53	0	0	2	0		
NC ASHEVILLE	77	61	84	57	69	0	1.97	0.86	0.99	1.97	177	34.83	88	97	66	0	0	5	1		
NC CHARLOTTE	83	67	89	62	75	-1	1.82	0.99	0.81	1.82	219	30.06	99	93	60	0	0	5	2		
NC GREENSBORO	80	65	86	61	72	0	9.48	8.95	3.90	9.48	1142	38.91	129	96	66	0	0	5	4		
NC HATTERAS	84	74	86	67	79	3	0.42	-0.87	0.35	0.42	33	-	-	96	81	0	0	2	0		
NC NEW BERN	86	73	92	68	79	3	1.24	-0.12	1.13	1.24	91	37.67	92	96	85	1	0	2	1		
NC RALEIGH	84	67	94	59	75	1	9.67	8.87	4.96	9.67	1209	40.02	133	98	66	1	0	4	3		
NC WILMINGTON	84	72	91	67	78	2	6.99	5.23	4.44	6.99	397	47.88	115	95	86	1	0	4	3		
ND BISMARCK	84	54	97	40	69	8	0.16	-0.23	0.08	0.16	41	13.88	111	85	36	2	0	3	0		
ND FARGO	84	61	93	52	72	11	1.19	0.69	1.07	1.19	238	10.80	72	87	46	1	0	2	1		
ND GRAND FORKS	83	60	93	52	71	11	0.29	-0.28	0.14	0.29	51	11.83	82	93	42	1	0	3	0		
ND WILLISTON	78	49	84	37	63	3	0.33	0.00	0.17	0.33	100	9.19	84	83	32	0	0	2	0		
OH AKRON-CANTON	79	62	83	58	70	3	2.59	1.77	1.56	2.59	318	28.83	111	91	58	0	0	2	2		
OH CINCINNATI	85	68	86	63	75	5	0.00	-0.69	0.00	0.00	0	37.04	125	89	49	0	0	0	0		
OH CLEVELAND	80	64	83	59	72	5	5.40	4.55	4.38	5.40	835	27.97	110	91	60	0	0	2	2		
OH COLUMBUS	83	65	87	58	74	7	0.54	-0.24	0.33	0.54	69	33.45	124	90	54	0	0	2	0		
OH DAYTON	83	63	86	58	73	4	0.36	-0.27	0.36	0.36	57	37.57	143	91	50	0	0	1	0		

Based on 1961-90 normals

Weather Data for the Week Ending September 7, 1996

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	90 AND ABOVE	92 AND BELOW	TEMP. °F		PRECIP.	
																		01 INCH OR MORE	05 INCH OR MORE		
OK TOLEDO	84	62	88	57	73	7	0.16	-0.56	0.16	0.16	22	20.30	88	94	51	0	0	1	0		
OK YOUNGSTOWN	78	58	81	53	68	3	2.38	1.58	1.28	2.38	288	28.51	109	98	57	0	0	2	2		
OK OKLAHOMA CITY	86	64	88	62	75	2	0.02	-0.63	0.02	0.02	2	26.14	110	98	56	0	0	1	0		
OR TULSA	90	68	93	64	78	2	0.00	-1.06	0.00	0.00	0	13.22	47	89	43	4	0	0	0		
OR ASTORIA	65	52	68	46	59	-1	0.48	-0.01	0.28	0.48	98	46.94	124	94	67	0	0	3	0		
OR BURNS	74	38	80	28	56	-4	0.03	-0.11	0.03	0.03	21	8.23	128	74	20	0	2	1	0		
OR MEDFORD	83	47	89	42	65	-4	0.00	-0.17	0.00	0.00	0	14.69	145	80	21	0	0	0	0		
OR PENDLETON	75	50	80	44	62	-4	0.00	-0.14	0.00	0.00	0	8.95	117	65	28	0	0	0	0		
OR PORTLAND	71	54	79	49	63	-3	0.12	-0.23	0.09	0.12	34	32.20	156	96	48	0	0	3	0		
PA SALEM	74	46	81	45	60	-4	0.10	-0.19	0.10	0.10	34	35.35	161	93	40	0	0	1	0		
PA ALLENTOWN	84	61	88	51	72	4	0.21	-0.77	0.21	0.21	21	32.68	108	88	48	0	0	1	0		
PA ERIE	79	62	82	57	71	4	1.58	0.52	1.38	1.58	150	31.16	116	93	58	0	0	2	1		
PA HARRISBURG	83	66	88	61	75	5	1.11	0.28	1.11	1.11	134	36.07	128	99	59	0	0	2	1		
PA PHILADELPHIA	85	69	87	63	77	7	0.25	-0.74	0.18	0.25	25	33.46	104	91	56	0	0	2	0		
PA PITTSBURGH	79	62	84	57	71	4	1.70	0.97	1.58	1.70	233	32.97	124	92	58	0	0	2	1		
PA SCRANTON	81	61	84	53	71	5	0.77	-0.03	0.82	0.77	98	31.40	123	94	56	0	0	3	1		
RI PROVIDENCE	80	63	88	57	71	4	1.49	0.86	1.23	1.49	180	29.44	97	90	60	0	0	3	1		
SC CHARLESTON	85	72	91	69	79	0	2.92	1.61	1.54	2.92	223	29.97	75	95	68	2	0	4	2		
SC COLUMBIA	88	71	94	67	79	1	0.27	-0.75	0.14	0.27	26	24.87	66	92	53	2	0	4	0		
SC FLORENCE	84	69	91	64	77	0	0.00	-0.91	0.00	0.00	0	23.75	72	100	69	3	0	0	0		
SC GREENVILLE	82	66	89	64	74	0	1.22	0.31	0.87	1.22	134	38.80	106	95	64	0	0	5	1		
SD ABERDEEN	83	60	92	51	71	8	0.88	0.36	0.70	0.88	169	14.87	87	96	50	1	0	3	1		
SD HURON	86	82	92	62	74	9	0.24	-0.17	0.14	0.24	59	13.22	82	93	49	1	0	3	0		
SD RAPID CITY	83	56	97	44	69	5	0.22	-0.08	0.22	0.22	71	15.78	116	83	31	2	0	1	0		
SD SIOUX FALLS	81	66	86	60	73	8	1.49	0.75	0.89	1.49	201	13.50	76	90	60	0	0	3	2		
TN CHATTANOOGA	83	68	86	65	74	-1	1.48	0.51	0.53	1.48	163	39.00	104	96	83	0	0	4	2		
TN KNOXVILLE	83	68	86	65	75	2	0.91	0.19	0.57	0.91	126	34.89	103	95	57	0	0	4	1		
TN MEMPHIS	85	67	89	66	76	-1	0.68	-0.17	0.69	0.68	80	45.87	128	93	60	0	0	2	1		
TN NASHVILLE	83	67	88	65	75	0	2.14	1.12	1.12	2.14	252	32.71	98	98	61	0	0	3	2		
TX ABILENE	86	67	91	63	77	-2	0.40	-0.35	0.28	0.40	53	17.20	101	92	57	1	0	2	0		
TX AMARILLO	82	61	88	60	71	-1	0.83	0.27	0.57	0.83	148	17.38	111	96	57	0	0	3	1		
TX AUSTIN	89	71	92	70	80	-2	0.08	-0.63	0.08	0.08	9	18.40	85	92	50	3	0	1	0		
TX BEAUMONT	88	71	91	70	79	-1	2.01	0.51	1.06	2.01	134	28.03	72	99	60	1	0	3	2		
TX BROWNSVILLE	86	75	91	72	81	-2	1.12	-0.23	1.12	83	8.34	51	96	62	2	0	3	0			
TX CORPUS CHRISTI	89	73	91	71	81	-2	0.49	-0.78	0.26	0.49	39	13.38	66	96	60	2	0	3	0		
TX DEL RIO	92	72	94	69	82	1	0.08	-0.55	0.04	0.08	13	7.18	41	90	45	7	0	2	0		
TX EL PASO	90	66	94	63	78	0	0.50	0.07	0.44	0.50	118	8.21	139	71	30	3	0	3	0		
TX FORT WORTH	87	69	91	65	78	0	0.07	-0.93	0.07	0.07	7	19.13	76	83	54	1	0	1	0		
TX GALVESTON	86	78	88	72	81	-1	0.73	-0.71	0.68	0.73	51	19.14	68	91	68	0	0	2	1		
TX HOUSTON	90	71	92	70	80	0	0.67	-0.71	0.48	0.67	45	23.50	87	98	57	4	0	2	0		
TX LUBBOCK	84	63	87	61	74	0	0.09	-0.54	0.07	0.09	14	12.52	92	88	49	0	0	2	0		
TX MIDLAND	87	65	92	63	76	0	0.23	-0.53	0.23	0.23	30	6.72	66	91	48	2	0	1	0		
TX SAN ANGELO	88	66	90	64	76	-2	0.00	-0.75	0.00	0.00	0	14.69	108	93	54	2	0	0	0		
TX SAN ANTONIO	90	71	93	69	81	-1	0.04	-0.72	0.04	0.04	5	8.70	41	92	49	5	0	1	0		
TX VICTORIA	89	72	91	70	81	0	0.00	-1.40	0.00	0.00	0	17.11	58	99	51	4	0	0	0		
TX WACO	87	68	90	68	78	-4	0.01	-0.71	0.01	0.01	1	16.45	76	96	56	1	0	1	0		
TX WICHITA FALLS	86	67	89	66	77	-2	0.00	0.00	0.00	0.00	0	0.00	94	57	0	0	0	0			
UT CEDAR CITY	86	58	89	51	70	3	0.47	0.21	0.32	0.47	181	8.87	110	83	22	0	0	2	0		
UT SALT LAKE CITY	86	57	86	49	72	3	0.01	-0.26	0.01	0.01	4	11.43	103	72	17	2	0	1	0		
VT BURLINGTON	83	59	85	53	71	8	0.00	-0.84	0.00	0.00	0	28.82	122	95	48	0	0	0	0		
VA NORFOLK	83	73	90	68	78	3	0.58	-0.41	0.37	0.58	59	38.99	120	92	62	1	0	3	0		
VA RICHMOND	83	69	88	61	76	2	2.06	1.23	1.90	2.06	250	33.71	109	90	42	0	0	4	1		
VA ROANOKE	77	64	85	55	71	0	1.75	0.92	1.13	1.75	211	37.81	132	94	66	0	0	3	1		
WA QUILLAYUTE	63	50	68	41	57	-2	0.88	0.07	0.32	0.88	109	52.68	87	95	67	0	0	5	0		
WA SEATTLE-TACOMA	69	53	74	50	61	-2	0.53	0.16	0.35	0.53	143	28.37	137	92	57	0	0	4	0		
WA SPOKANE	69	45	78	40	57	-6	0.08	-0.09	0.05	0.08	47	13.00	125	78	34	0	0	3	0		
WA YAKIMA	74	41	80	35	58	-6	0.01	-0.09	0.01	0.01	10	5.54	115	83	32	0	0	1	0		
WV BECKLEY	75	61	80	54	68	2	2.58	1.78	2.47	2.58	322	42.03	143	96	66	0	0	3	1		
WV CHARLESTON	80	63	84	59	72	1	2.18	1.37	2.05	2.18	269	41.81	138	97	64	0	0	2	1		
WV HUNTINGTON	80	65	85	60	73	4	0.52	-0.28	0.38	0.52	64	37.70	122	95	63	0	0	2	0		
WV PARKERSBURG	79	63	85	59	71	1	1.79	1.04	1.63	1.79	239	36.60	121	100	58	0	0	3	1		
WI GREEN BAY	83	56	84	52	70	7	0.00	-0.86	0.00	0.00	0	18.43	90	98	56	0	0	0	0		
WI LACROSSE	86	63	90	52	76	10	0.00	-0.96	0.00	0.00	0	19.45	88	95	42	4	0	0	0		
WI MADISON	83	56	85	55	70	6	0.00	-0.93	0.00	0.00	0	23.44	101	96	48	0	0	0	0		
WI MILWAUKEE	82	64	85	59	73	8	0.00	-0.84	0.00	0.00	0	15.68	67	95	54	0	0	0	0		
WI WAUSAU	83	61	85	57	72	11	0.14	-0.83	0.14	0.14	13	25.41	107	95	49	0	0	1	0		
WY CASPER	83	44	94	36	63	1	0.02	-0.17	0.02	0.02	11	6.96	74	79	17	1	0	1	0		

## August Weather and Crop Summary

### Weather

Crop development accelerated across the Midwest in response to consistent warmth (near normal temperatures). Much drier weather prevailed, however, across the eastern half of the Corn Belt, with many locations receiving less than one-half of normal rainfall. Farther south, a meandering frontal boundary sparked cloudy, showery weather across the South. Along the tail of the front, tropical moisture pooled, significantly easing Texas' 11-month drought. In contrast, dry conditions persisted across the West, where heat, wind, and lightning strikes continued to fuel the worst wildfire season since 1969 (by month's end).

Monthly rainfall averaged less than 50 percent (%) of normal in many areas from the upper and middle Mississippi Valley eastward into New England. Paducah, KY recorded only 0.11 inches during the month, their driest August on record. In Ohio, Dayton's total of 0.03 inches represented their lowest total for any month, formerly set in March 1910 (0.05 inches). Only 0.06 inches fell during the month in Concord, NH.

In contrast, monthly totals were more than 200% of normal across a broad area of the central and southern Plains. In southern Texas, August rainfall accounted for 62% of the year-to-date total in Corpus Christi and 80% in Brownsville. Corpus Christi's total of 8.57 inches represented their third-highest August total, behind 1980 (14.79 inches) and 1953 (12.64 inches). Ironically, heavy August rains in 1980 and 1953 also tempered long stretches of hot, dry weather across southern Texas. Elsewhere in Texas, near-record August rainfall occurred in locations such as Austin (8.82 inches; second-wettest August) and Del Rio (4.76 inches; fifth wettest). Much of Texas' rain fell late in the month, as moisture associated with Hurricane Dolly--which made landfall in northeastern Mexico on August 23--settled over the region.

Near-record August rainfall occurred as far north as Kansas, where Dodge City's total of 7.34 inches was second only to a 7.44-inch total in 1977. In addition, Dodge City's monthly temperature averaged 4°F below normal. Highs reached or exceeded 90°F on only 4 days in Goodland, KS, tying their August record set in 1992 and 1923. Farther east, highs reached the 90-degree plateau only twice in Kansas City, MO and an August-record once in Charleston, SC.

Meanwhile, monthly temperatures averaged 2 to 4°F above normal from the Southwest to the northern High Plains. In downtown Sacramento, CA, triple-digit heat prevailed from August 8-16, tying their longest such streak on record, set in July 1984, June 1981, and August 1966. Sacramento also weathered their hottest August on record (80.3°F). On August 13, the heat peaked at August-record proportions in Bullfrog, UT (110°F) and Paso Robles, CA (113°F).

Cool, damp conditions prevailed in many parts of Alaska. A total of 7.91 inches of rain pelted Juneau, their seventh-wettest August. Fairbanks recorded their coolest August since 1969, while rainfall totaled 2.83 inches, 144% of normal. On August 28, a low of 28°F ended Fairbanks' growing season at 100 days, nearly 2 weeks shorter than normal. In contrast, hot weather blanketed Hawaii. Honolulu notched a monthly record high of 93°F on August 25, while Hilo tallied nine daily-record highs during the month.

### Fieldwork

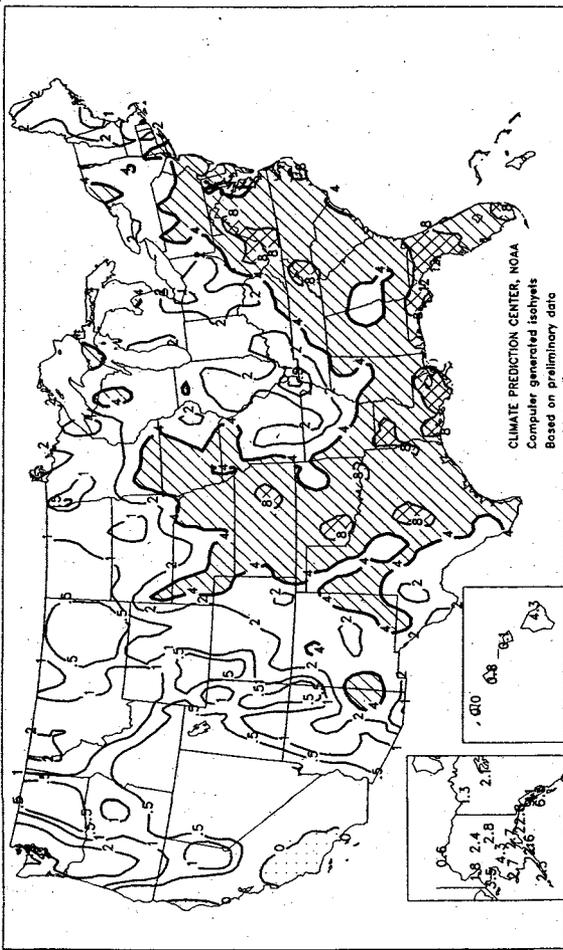
Early August brought warmer weather over most of the Corn Belt that accelerated row-crop development, but not enough to reach normal levels. Heavy rains in the western Corn Belt caused localized flooding early in the month, but the much-needed moisture prevented a decline in row-crop conditions. Warmer weather over the Great Lakes region spurred crop development but increased plant requirements for soil moisture. High temperatures and low soil moisture supplies in the northern Rocky Mountains provided ideal harvesting weather for small grains but pushed the region to near-drought levels. Windy conditions, combined with hot, dry weather in the Western States, provided ideal conditions for fires. Warm, dry weather over the Dakotas gave producers excellent harvest conditions and accelerated late-seeded crop development. Widespread showers early in the month over the Southeast improved crop conditions, but some dry pockets remained. Corn silking started the month significantly behind the average in the western Corn Belt, with progress in some States almost 2 weeks behind normal. The prolonged drought in central Texas stressed cotton fields and caused some plants to shed bolls.

Rangeland fires in the Pacific Northwest at mid-month were intensified by hot, dry windy weather. Cooler weather over the Corn Belt moderated crop stress from dry soil conditions, but slowed corn development and caused condition ratings to decline. Dry weather over the Dakotas allowed small grain harvest to proceed rapidly, but variation in crop maturity prolonged the harvest period. Heat stressed cotton in California and caused some bloom and boll drop in the San Joaquin Valley. Later in the month, scattered thunderstorms throughout the Midwest revived row crops, but warmer weather increased plant requirements for additional soil moisture. Heavy rains from Hurricane Dolly brought beneficial precipitation to southern Texas, but the rain arrived too late to benefit crops ready for harvest. The rains did replenish soil moisture in south Texas for recently planted small grains, but did not reach the Texas High Plains, where some dryland cotton fields continued to drop bolls due to the prolonged dry conditions. Hot weather and dry conditions continued in the West, increasing fire danger for pastures and rangeland. Some rice producers in the Delta completed the first harvest and were re-flooding fields to prepare for the second crop.

Warmer weather at the end of August advanced crop development, but crop development remained behind the average, leaving most Midwestern producers hoping for a late first freeze to allow crops to reach maturity. The warm weather increased plant moisture requirements, and a dry August stressed row crops. By month's end, soil moisture supplies declined from the Ohio Valley to the central Great Plains. In the Southeast, wet conditions and high winds damaged cotton fields that had open bolls. Dry conditions continued in the Dakotas, where wheat seeding started, but many producers were waiting for rainfall to improve soil moisture conditions. Winter wheat planting was also delayed in the West, where hot, dry weather allowed fires to continue. The end of August brought showers that hindered planting from the Southeast to Texas. August ended with most row crops' development behind the average while cotton and small grains were slightly ahead of normal.

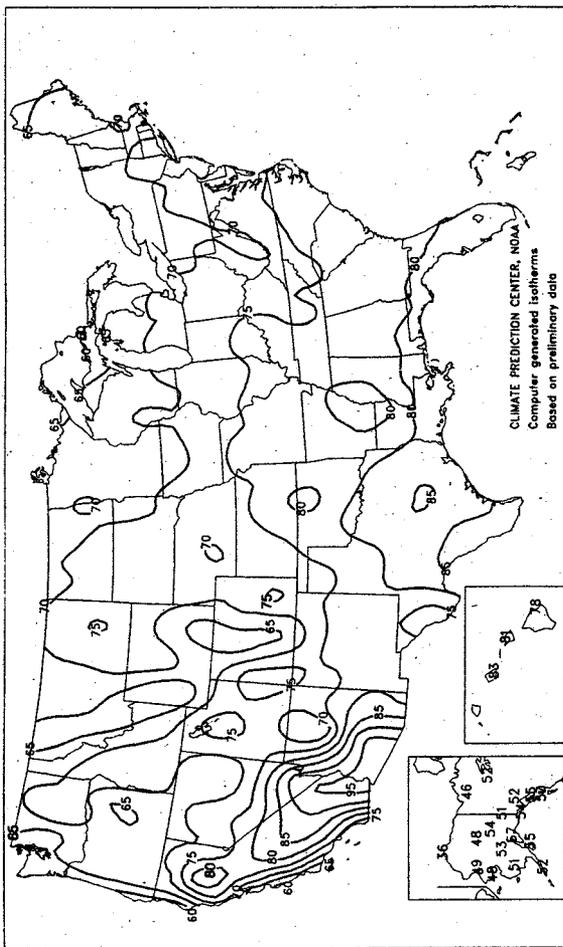
Total Precipitation (Inches)

AUG 1996



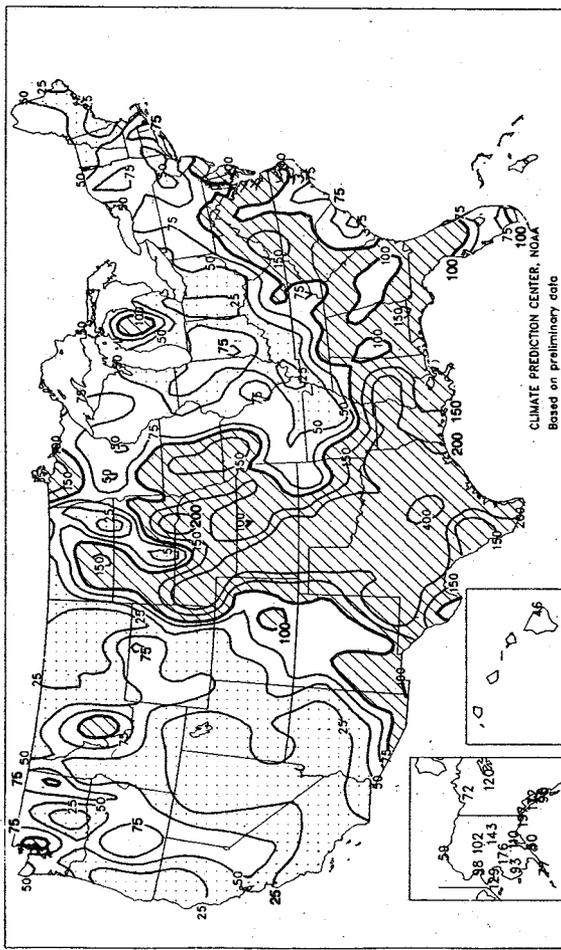
Average Temperature (°F)

AUG 1996



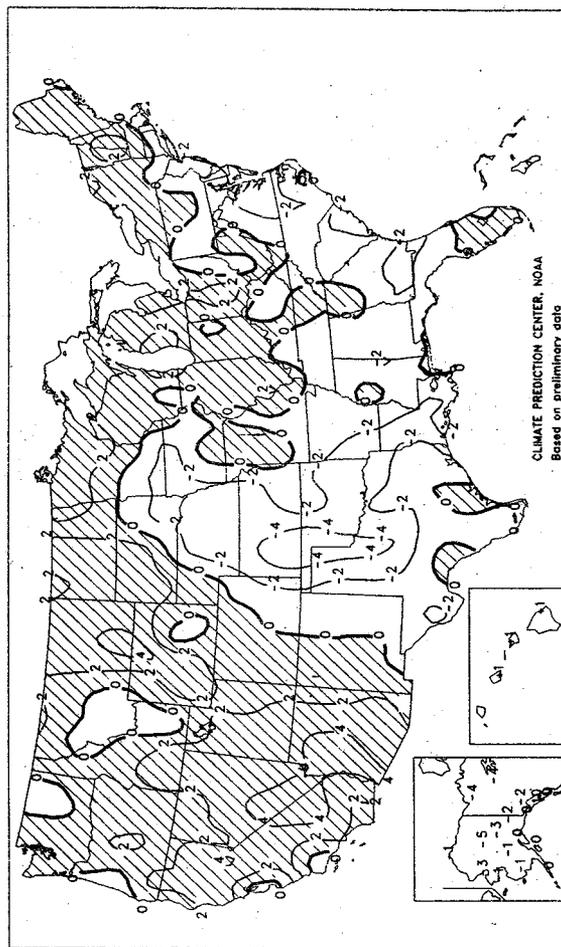
Percent Of Normal Precipitation

AUG 1996



Departure of Average Temperature from Normal (°F)

AUG 1996

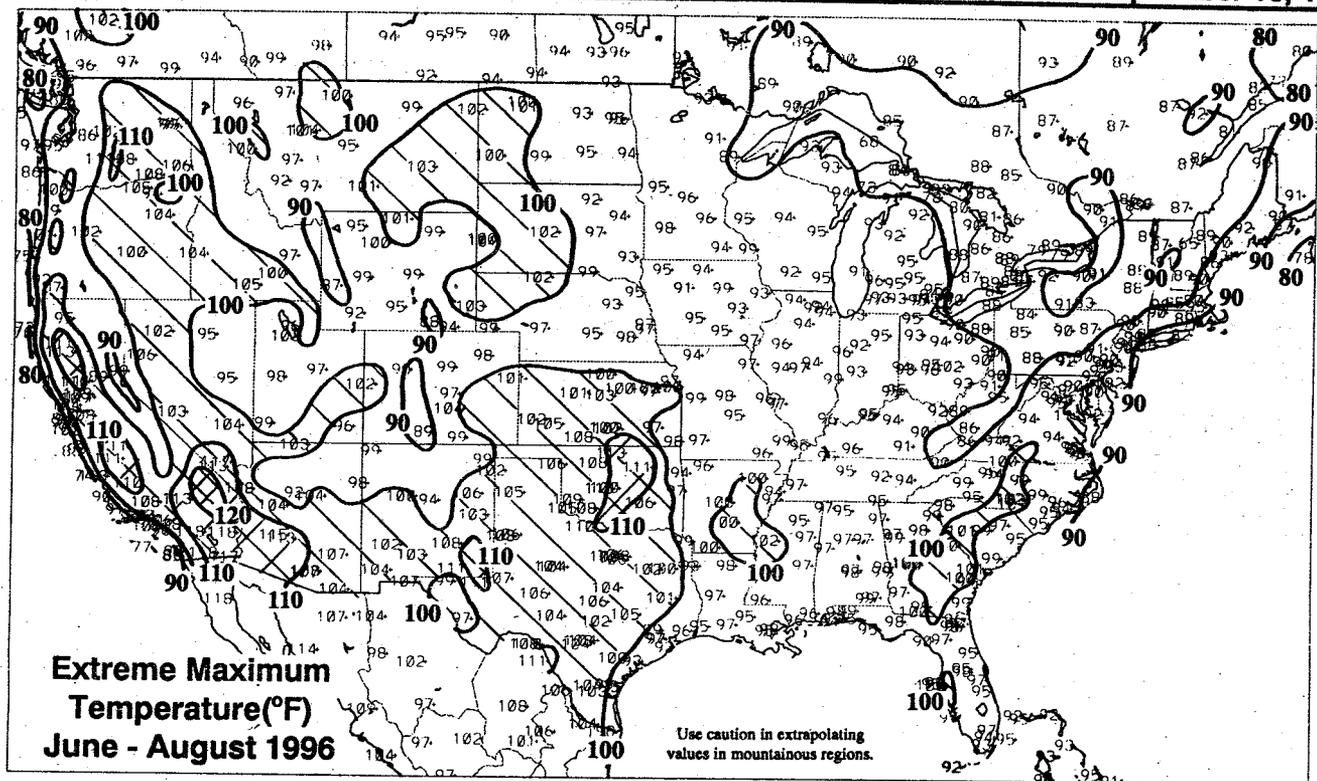


# TEMPERATURE AND PRECIPITATION SUMMARY

## August 1996

STATES AND STATIONS	TEMP. °F		PRECIP.		STATES AND STATIONS	TEMP. °F		PRECIP.		STATES AND STATIONS	TEMP. °F		PRECIP.	
	AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE
AL BIRMINGHAM	79	0	4.38	0.79	LA BATON ROUGE	80	-2	5.93	-0.07	OK YOUNGSTOWN	68	-1	2.33	-0.99
HUNTSVILLE	77	-1	4.41	0.94	LAKE CHARLES	81	-1	9.44	4.11	OKLAHOMA CITY	78	-2	5.84	3.24
MOBILE	80	-2	8.29	1.33	NEW ORLEANS	81	0	9.42	3.25	TULSA	80	-2	1.33	-1.79
AK MONTGOMERY	79	0	5.47	1.28	SHREVEPORT	80	-1	5.78	3.00	OR ASTORIA	80	0	0.76	-0.58
ANCHORAGE	57	0	2.53	0.09	ME CARIBOU	64	1	2.88	-1.41	BURNS	66	1	0.34	-0.32
BARROW	38	-2	0.55	-0.41	PORTLAND	67	0	0.50	-2.37	MEDFORD	74	2	0.08	-0.44
FAIRBANKS	53	-3	2.83	0.87	MD BALTIMORE	73	-2	4.17	0.25	PENDELTON	73	1	0.06	-0.48
JUNEAU	56	0	7.91	2.59	MA SALISBURY	73	-2	4.07	-1.28	PORTLAND	71	2	0.25	-0.84
KODIAK	55	0	2.51	-2.64	BOSTON	71	-1	1.54	-1.70	SALEM	68	1	0.20	-0.56
NOME	48	-2	3.46	0.75	MI CHATHAM	-	-	-	-	ALLENTOWN	71	-1	0.91	-3.37
AZ FLAGSTAFF	65	2	1.00	-1.75	ALPENA	66	2	1.74	-1.88	ERIE	71	1	1.52	-2.54
PHOENIX	94	3	0.34	-0.62	DETROIT	73	2	0.43	-3.00	HARRISBURG	74	0	2.22	-1.09
PRESCOTT	77	1	0.38	-3.05	FLINT	70	2	0.68	-2.81	PHILADELPHIA	74	1	4.29	0.43
TUSCON	86	2	1.87	-0.32	GRAND RAPIDS	72	3	0.32	-3.25	PITTSBURGH	71	0	1.99	-1.22
WINSLOW	79	3	-	-	HOUGHTON LAKE	66	1	5.51	2.14	SCRANTON	69	0	1.24	-2.08
YUMA	96	3	0.00	-0.64	LANSING	69	1	3.71	0.20	WILLIAMSPORT	70	0	2.17	-1.22
AR FORT SMITH	79	-2	4.38	1.46	MARQUETTE	66	2	2.11	-1.30	RI PROVIDENCE	71	0	2.17	-1.46
LITTLE ROCK	-	-	1.38	-1.74	MUSKEGON	70	1	1.10	-2.31	SC CHARLESTON	79	-2	5.73	-1.49
CA BAKERSFIELD	83	1	0.00	-0.09	MN SAULT ST. MARIE	63	0	1.32	-2.29	COLUMBIA	78	-1	3.76	-2.33
BISHOP	-	-	-	-	ALEXANDRIA	69	0	-	-	FLORENCE	78	-2	-	-
EUREKA	58	0	0.00	-0.48	DULUTH	65	2	2.92	-1.07	GREENVILLE	76	-1	6.27	2.32
FRESNO	83	3	0.00	-0.03	INT'L FALLS	66	2	3.52	0.41	ABERDEEN	70	0	0.24	-2.86
LOS ANGELES	73	3	0.00	-0.15	MIRNEAPOLIS	71	0	1.43	-2.19	HURON	72	0	2.41	0.44
REDDING	82	2	0.00	-0.46	ROCHESTER	67	-2	2.96	-0.92	RAPID CITY	73	3	1.43	-0.24
SACRAMENTO	78	3	0.00	-0.07	ST. CLOUD	68	1	2.09	-1.87	SIoux FALLS	70	-1	1.79	-1.06
SAN DIEGO	73	0	0.00	-0.10	MS GREENWOOD	81	0	-	-	TN BRISTOL	72	-1	3.63	0.46
SAN FRANCISCO	63	-1	0.00	-0.05	JACKSON	79	-1	6.70	3.35	CHATTANOOGA	77	-1	3.44	-0.09
SANTA MARIA	63	-1	0.00	-0.05	MERIDIAN	79	-2	3.75	0.17	KNOXVILLE	78	0	1.33	-1.80
CO ALAMOSA	63	0	0.96	-0.17	MO TUPELO	78	-1	-	-	MEMPHIS	80	-1	0.92	-2.51
CO. SPRINGS	67	-1	3.46	0.44	CAPE GIRARDEAU	79	2	0.22	-3.27	NASHVILLE	78	-1	1.09	-2.37
DENVER	72	0	0.56	-0.96	COLUMBIA	75	0	1.76	-1.36	TX ABILENE	80	-3	6.92	4.12
GRAND JUNCTION	78	1	0.16	-0.74	KANSAS CITY	75	-1	2.97	-1.04	AMARILLO	74	-2	6.43	3.21
PUEBLO	73	-2	2.12	0.13	SAINT LOUIS	78	0	1.57	-1.28	AUSTIN	84	-1	8.82	6.77
CT BRIDGEPORT	73	-1	1.34	-1.91	SPRINGFIELD	76	-1	1.92	-2.27	BEAUMONT	81	-2	6.34	1.00
HARTFORD	72	0	1.78	-1.87	MT BILLINGS	74	3	0.10	-0.91	BROWNSVILLE	85	0	5.77	3.00
DC WASHINGTON	76	-2	2.63	-1.28	GLASGOW	73	3	0.09	-1.28	CORPUS CHRISTI	84	0	8.57	5.26
FL PANAMA CITY	80	0	-	-	GREAT FALLS	67	1	0.63	-0.91	DEL RIO	86	3	4.77	2.08
DAYTONA BEACH	80	-1	5.70	-0.46	HAVRE	70	2	0.11	-1.12	EL PASO	80	0	2.09	0.51
FT. MYERS	83	0	3.89	-5.77	HELENA	67	-1	0.87	-0.42	FORT WORTH	83	0	5.02	2.78
JACKSONVILLE	79	-2	7.78	2.32	KALISPELL	63	0	0.79	-0.61	GALVESTON	83	-1	6.04	1.57
KEY WEST	84	0	6.48	1.45	MILES CITY	76	3	0.05	-1.10	HOUSTON	82	-1	10.58	6.63
MIAMI	83	0	4.74	-2.84	MISSOULA	86	-1	1.15	-0.05	LAREDO	-	-	-	-
ORLANDO	82	-1	11.33	4.56	NE GRAND ISLAND	71	-2	3.04	0.22	LUBBOCK	77	-1	4.53	2.02
TALLAHASSEE	80	-1	8.18	0.85	LINCOLN	72	-3	6.13	2.72	MIDLAND	80	0	2.94	1.07
TAMPA	83	1	7.39	-0.22	NORFOLK	71	-2	3.74	1.19	SAN ANGELO	81	-1	7.86	5.73
WEST PALM BEACH	82	-1	3.61	-2.96	NORTH PLATTE	70	-2	3.25	1.51	SAN ANTONIO	84	-1	2.86	0.32
GA ATHENS	77	-1	3.90	0.20	OMAHA	73	-1	2.17	-1.07	VICTORIA	83	1	7.05	3.42
ATLANTA	80	1	4.86	1.00	SCOTTSBLUFF	71	-1	2.24	1.17	WACO	84	-2	5.80	4.12
AUGUSTA	78	-2	6.25	1.75	VALENTINE	72	-1	0.57	-2.20	WICHITA FALLS	82	-2	5.49	2.86
MACON	79	-2	2.48	-1.15	NV ELKO	65	-3	-	-	UT BLANDING	-	-	-	-
SAVANNAH	79	-2	6.40	-1.08	ELY	67	2	0.13	-0.70	CEDAR CITY	75	3	0.03	-1.44
HI HILO	78	1	4.78	-4.58	LAS VEGAS	92	3	0.00	-0.49	SALT LAKE CITY	78	2	0.02	-0.84
HONOLULU	83	1	-	-	RENO	70	0	0.16	-0.16	BURLINGTON	69	1	1.47	-2.59
KAHULUI	81	1	-	-	WINNEMUCCA	70	1	0.08	-0.37	LYNCHBURG	72	-2	-	-
LIHUE	-	-	-	-	NH CONCORD	69	2	0.06	-3.26	NORFOLK	75	-2	5.21	0.40
ID BOISE	75	2	0.12	-0.31	NJ ATLANTIC CITY	72	-2	4.12	-0.02	RICHMOND	74	-3	4.41	0.01
LEWISTON	74	0	0.05	-0.73	NM ALBUQUERQUE	76	0	1.54	-0.10	ROANOKE	73	-1	6.39	2.24
POCATELLO	67	-1	0.12	-0.55	CLOVIS	75	0	-	-	WA COLVILLE	-	-	-	-
IL CAIRO	-	-	-	-	ROSWELL	78	0	-	-	QUILLAYUTE	61	2	1.24	-1.30
CHICAGO	72	1	1.48	-2.74	ALBANY	70	0	3.15	-0.32	SEATTLE-TACOMA	67	1	1.32	0.18
MOLINE	73	0	2.11	-2.11	BINGHAMTON	67	0	2.97	-0.39	SPOKANE	68	0	0.80	0.08
PEORIA	73	0	1.03	-2.07	BUFFALO	71	1	2.14	-2.03	WALLA WALLA	75	1	-	-
QUINCY	73	-1	-	-	NEW YORK	76	0	2.01	-1.74	YAKIMA	69	0	0.02	-0.38
ROCKFORD	71	0	2.71	-1.44	ROCHESTER	69	1	3.33	-0.07	BECKLEY	69	0	5.02	1.64
SPRINGFIELD	74	0	1.81	-1.48	SYRACUSE	70	2	1.71	-1.80	CHARLESTON	73	-1	2.82	-1.19
IN EVANSVILLE	76	-1	1.20	-2.10	NC ASHEVILLE	72	-1	6.68	0.88	ELKINS	68	0	4.91	-
FORT WAYNE	71	0	2.00	-1.37	CHARLOTTE	77	-2	4.74	1.01	HUNTINGTON	74	1	1.98	-2.15
INDIANAPOLIS	75	2	2.27	-1.37	GREENSBORO	74	-1	5.10	1.22	PARKERSBURG	71	-2	1.87	-2.02
SOUTH BEND	71	0	1.75	-1.92	HATTERAS	77	-1	5.06	-0.94	WI GREEN BAY	68	1	1.40	-2.10
IA DES MOINES	72	0	4.37	0.52	NEW BERN	79	0	4.47	-2.09	LACROSSE	73	2	2.16	-1.76
DUBUQUE	70	0	1.98	-2.70	RALEIGH	75	-2	3.72	-0.30	MADISON	69	0	1.64	-2.16
SIoux CITY	70	-2	4.71	1.74	WILMINGTON	78	-1	5.15	-1.95	MILWAUKEE	72	3	1.14	-2.39
WATERLOO	71	0	1.78	-1.86	ND BISMARCK	72	3	2.98	1.27	WAUSAU	69	2	3.70	-0.88
KS CONCORDIA	74	-3	3.89	0.15	FARGO	71	2	2.09	-0.34	CASPER	68	-1	0.32	-0.35
DODGE CITY	74	-4	7.34	4.81	GRAND FORKS	70	3	0.92	-1.48	CHEYENNE	66	0	1.79	0.10
GOODLAND	71	-2	3.41	1.61	WILLISTON	71	3	0.52	-0.73	LANDER	71	2	0.08	-0.45
TOPEKA	74	-2	6.09	2.20	OH AKRON-CANTON	70	-1	1.81	-1.51	SHERIDAN	72	3	0.79	-0.03
WICHITA	77	-1	5.24	1.63	CINCINNATI	74	1	0.78	-2.59	PR SAN JUAN	-	-	-	-
KY BOWLING GREEN	78	-1	1.67	-1.84	CLEVELAND	71	1	0.71	-2.89	-	-	-	-	
JACKSON	73	0	3.01	-0.90	COLUMBUS	74	4	1.58	-1.98	-	-	-	-	
LEXINGTON	77	-1	2.30	-1.63	DAYTON	73	1	0.03	-3.17	-	-	-	-	
LOUISVILLE	74	1	1.32	-2.22	MANSFIELD	71	0	2.86	-1.22	-	-	-	-	
PADUCAH	76	0	0.11	-3.23	TOLEDO	72	2	0.76	-2.49	-	-	-	-	

Based on 1961-90 normals.



From the Midwest into the East, temperatures at or above 90°F were an astoundingly infrequent occurrence. In Charleston, WV, the mercury hit the 90-degree mark three times during the first 8 months of 1996, all in April and May. The year-to-date's hottest day was May 20 in locations such as Philadelphia, PA (94°F) and Washington, DC (96°F). In Portland, ME, the summer maximum of 86°F tied their lowest on record, set in 1915. The relatively cool weather extended as far west as the Plains, where Bismarck, ND wrapped up their record-setting fifth consecutive summer without 100-degree heat (since August 28, 1991). In the West, however, Medford, OR notched 21 days of triple-digit heat, their third-highest total on record, while Tucson, AZ (87.4°F) endured near-record summer heat, second only to 1994 (89.9°F).

## Summer Weather Review

### Highlights

Midwestern crops, aided by timely July rainfall as they entered reproduction, were pushed toward maturity by near-normal August temperatures. Another feature of the summer of 1996 was the lack of heat stress from the Midwest into the East. Heat only briefly visited the central and southern Plains, but was relentless across southern Texas and much of the West. Significant rain arrived in New Mexico beginning in June, and spread to encompass Texas by summer's end, reducing the severity and areal extent of the 11-month drought. Meanwhile, little rain fell in the northern High Plains and northern Rockies, allowing 3-month precipitation deficits to mount. The combination of heat, dryness, wind, and lightning strikes left the West vulnerable to wildfires, which consumed more than 5 million U.S. acres by late August. Farther east, the summer's only U.S. landfalling hurricane was Bertha, which struck southeastern North Carolina on July 12. In the Northeastern and Middle Atlantic States, drier weather in August eased the effects of an 11-month wet spell, although Hurricanes Edouard and Fran lurked in the tropical Atlantic at month's end.

### June

Late-month rains eased drought in New Mexico and western Texas, but the 9-month drought intensified elsewhere across the southern Plains and the Southwest. Farther north, an early-month cessation of heavy rainfall promoted Midwestern planting and crop development, broken only by downpours across the northern Corn Belt on June 16-

18. In the Southeast, a turn toward dryness, accompanied by late-month heat, began to stress crops.

Temperatures averaged 2 to 4°F above normal across the interior Northeast, Texas, and in a band from the Southwest into the northern Plains. Near-normal readings prevailed from the Mississippi Valley to the Southeast. Only the Pacific Northwest, where departures reached -2°F, experienced sub-normal June temperatures.

### July

Midwestern crop development fell further behind normal under a cool regime, but mid-month rainfall halted a 3-week dry spell. Monthly temperatures averaged 2 to 5°F below normal from the northern and central Plains to New England. Frequent heavy rains were concentrated in an arc from the East and Southeast westward into Oklahoma and central Kansas, but one particularly wet storm tracked farther north. Between July 16-20, pockets of intense rainfall caused localized damage from the middle Missouri Valley to the Northeast.

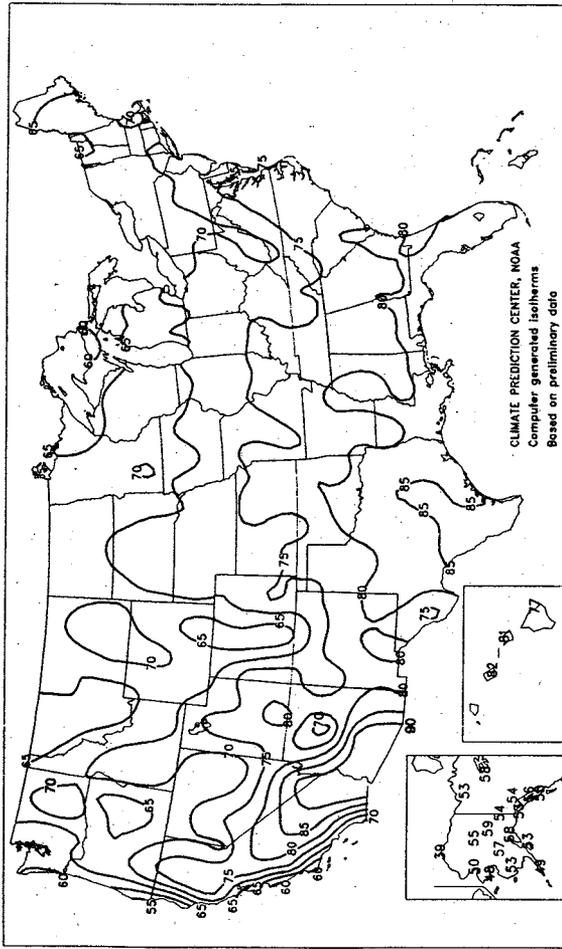
Hurricane Bertha made landfall in North Carolina on July 12, later boosting monthly rainfall along the Atlantic Seaboard. Elsewhere, monsoonal rains tempered an otherwise hot pattern in the Southwest (temperatures 2 to 5°F above normal), but the 10-month drought intensified across southern Texas.

### August

A complete summary begins on page 9.

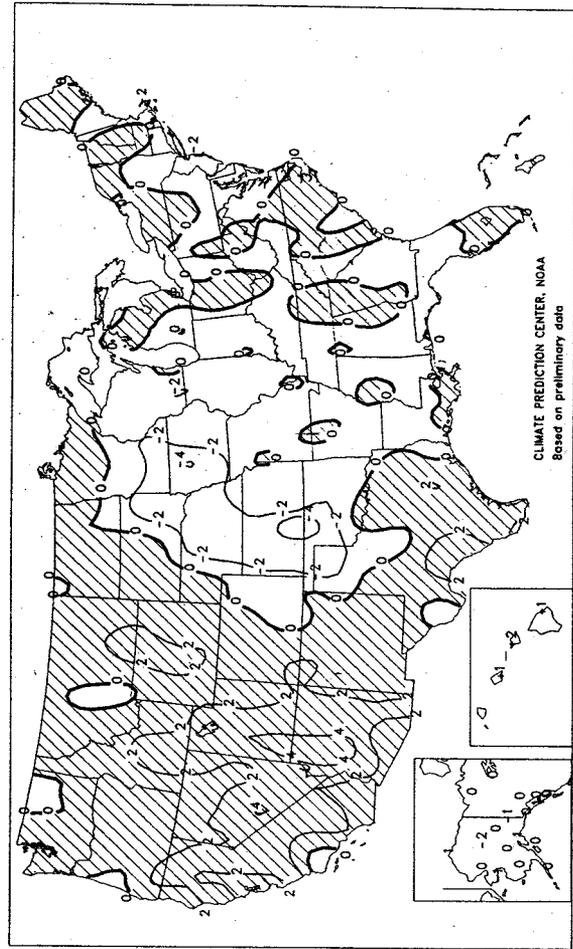
Summer Average Temperature (°F)

JUN-AUG 1996



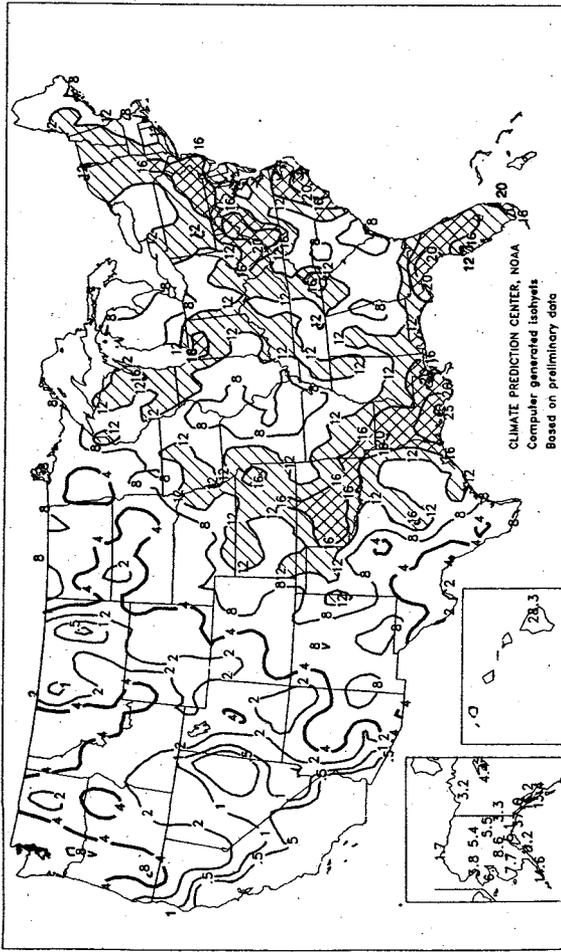
Summer Departure from Normal Average Temperature (°F)

JUN-AUG 1996



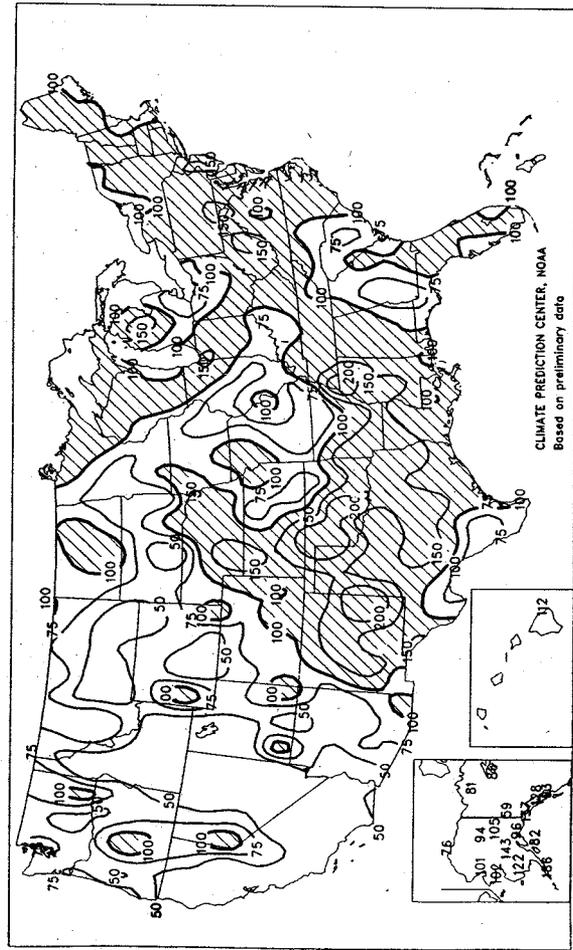
Summer Total Precipitation (inches)

JUN-AUG 1996



Summer Percent of Normal Precipitation

JUN-AUG 1996



# National Agricultural Summary

September 2 - 8, 1996

## HIGHLIGHTS

Heavy rains and high winds from Hurricane Fran damaged crops and caused lodging and flooding in many fields in the mid-Atlantic. Late-week rains relieved row crop stress from dry soil conditions in the Midwest. Some corn and soybean fields matured rapidly due to the lack of adequate soil moisture and very warm weather. Crop development remained about 2 weeks behind normal in the eastern Corn Belt despite recent warm weather. Much-needed rains arrived in the Great Lakes region during the weekend and restored soil moisture supplies. Scattered heavy showers in the Southeast delayed harvest activity, but the benefits from the rainfall outweighed the decline in harvest activity. Hot, dry weather over the middle

Mississippi Valley and the lack of significant precipitation resulted in soil moisture shortages. Above-normal temperatures in the central Great Plains boosted crop development, but many fields remained 1 to 2 weeks behind average. Localized thunderstorms eased producers' concern about the lack of adequate soil moisture in the Dakotas. Topsoil moisture in the Ohio Valley neared critically short levels before the weekend rains arrived. Cooler weather slowed crop maturity over the southern Great Plains, where wet fields from last week's heavy rains slowed fieldwork. Frost in northern Nevada signaled the end of the growing season.

The winter wheat crop in the 19 major producing States was 7 percent (%) planted, up 5 percentage points from the previous week but 1 point behind the 5-year average. Continued dry soil conditions in the West delayed winter wheat seeding. Winter wheat planting in Washington at 40% complete was up 23 points from last week and 13 points ahead of the average. The start of wheat seeding in the Dakotas was sluggish since many producers were waiting for precipitation to increase soil moisture and lower temperatures to reduce grasshopper activity. Last week's showers slowed land preparation and planting due to wet fields in the Texas High Plains. Greenbugs thrived on newly emerged fields.

Spring wheat harvested for the five major producing States was 83% complete, up 14 points from last week and 14 points ahead of the average. Spring wheat harvest activity in Montana at 88% complete was up 7 points from the previous week and 26 points ahead of normal. Small grain harvest activity remained ahead of the average in North Dakota.

Corn was in mostly good to fair condition, with doughing 88% complete for the 17 major producing States, up 14 points from the previous week, but was 2 points behind the average. Warm weather and dry conditions in the Midwest caused corn to dry quickly. Some corn harvest activity was beginning in southern Illinois as producers filled mid-September contracts. Harvest of early-planted corn was underway in Kentucky, where producers dried grain to acceptable moisture levels prior to sale. Corn doughing at 88% complete was up 14 points from the previous week but 2 points behind the average. Corn denting at 52% complete was up 19 points from the previous week but 15 points behind the average, while corn mature at 11% complete was 12 points behind the average. Doughing in Minnesota at 99% complete was up 52 points from last week and 14 points ahead of normal. In Ohio, corn denting at 22% complete was 51 points behind the average. In Indiana, corn denting lagged the average by 33 points.

Cotton bolls opening was 52% complete, up 13 points from last week and 10 points ahead of the average. Cotton condition declined slightly from the previous week but remained mostly good to fair for the 14 major producing States. Boll rot was prevalent in areas with excessive rainfall and insects were reported in the Delta. Many cotton fields received final irrigation in California. Warmer weather was needed in the Texas High Plains, where heavy showers damaged open bolls and caused regrowth. The precipitation was received too late to save some dryland fields in the Texas High Plains.

Rice harvested for the five major producing States was 33% complete, up 3 points from the previous week and 3 points ahead of normal. Rice condition was rated mostly good to excellent. Rice harvested in Texas at 85% complete was up 5 points from last week and 14 points ahead of the average. Rice growers in California were draining fields in preparation for the harvest. Rice harvest activity was slowed by continued wet conditions in Texas.

Sorghum condition for the 12 major producing States was mostly good to fair with sorghum turning color 69% complete, up 18 points from the previous week, and 5 points ahead of the average. The acreage of sorghum mature at 28% was 3 points behind normal. Nebraska sorghum turning color and mature was 12 points behind the average. Sorghum turning color in Illinois at 39% complete was up 13 points from the previous week but 22 points behind the average. In Kansas, corn earworms were reported in sorghum fields. Warmer weather was needed in Texas, where leaf blight was reported in some fields.

Soybeans condition was mostly good to fair with soybeans dropping leaves 8% complete, up 5 points from last week, but 6 points below the average. In Mississippi, soybeans dropping leaves at 48% complete was up 22 points from the previous week and 33 points ahead of the average. Soybeans were sprayed for worm control in the Delta. Many soybean fields in the Midwest were stressed by chronic dry soil conditions. Soybeans in the Great Lakes region were yellowing from lack of moisture.

# Crop Progress and Condition

Week Ending September 8, 1996

## Corn Percent Dough

	Sep 8 1996	Prev Week	Prev Year	5-Yr Avg
CO	96	90	74	80
GA	100	100	100	100
IL	88	78	97	96
IN	88	82	99	99
IA	84	64	93	85
KS	100	98	95	98
KY	100	98	100	80
MI	65	45	96	73
MN	99	47	98	85
MO	100	96	88	96
NE	96	89	91	96
NC	100	100	100	97
OH	79	66	100	99
PA	75	69	93	87
SD	84	80	90	86
TX	100	100	100	99
WI	71	58	98	77
ALL	88	74	95	90

These 17 States produced 91% of the 1995 corn crop.

## Corn Percent Mature

	Sep 8 1996	Prev Week	Prev Year	5-Yr Avg
CO	0	NA	0	7
GA	98	NA	100	99
IL	8	NA	16	30
IN	9	NA	17	21
IA	4	NA	20	21
KS	38	NA	13	44
KY	35	NA	51	48
MI	0	NA	7	6
MN	3	NA	7	9
MO	50	NA	24	40
NE	1	NA	1	16
NC	95	NA	94	87
OH	0	NA	8	14
PA	7	NA	16	8
SD	6	NA	4	18
TX	75	NA	74	70
WI	3	NA	29	15
ALL	11	NA	17	23

These 17 States produced 91% of the 1995 corn crop.

## Cotton Percent Bolls Opening

	Sep 8 1996	Prev Week	Prev Year	5-Yr Avg
AL	42	29	48	34
AZ	95	81	93	84
AR	64	37	59	35
CA	75	50	32	56
GA	57	52	70	44
LA	82	60	78	72
MS	84	77	78	59
MO	48	27	35	30
NM	70	35	26	36
NC	43	20	44	46
OK	16	8	4	15
SC	39	20	41	44
TN	59	31	44	39
TX	34	26	33	32
ALL	52	39	47	42

These 14 States produced 99% of the 1995 cotton crop.

## Corn Percent Dented

	Sep 8 1996	Prev Week	Prev Year	5-Yr Avg
CO	63	45	17	47
GA	100	100	100	100
IL	56	36	75	76
IN	42	30	77	75
IA	51	20	73	63
KS	88	74	62	78
KY	91	78	90	90
MI	17	8	72	44
MN	46	13	68	53
MO	94	79	60	82
NE	55	35	55	70
NC	100	100	99	95
OH	22	11	71	73
PA	41	36	70	50
SD	44	32	54	56
TX	99	98	93	94
WI	28	12	82	48
ALL	52	33	70	67

These 17 States produced 91% of the 1995 corn crop.

## Soybeans Percent Dropping Leaves

	Sep 8 1996	Prev Week	Prev Year	5-Yr Avg
AL	7	3	11	11
AR	15	9	7	6
GA	9	4	11	13
IL	2	0	5	16
IN	7	3	20	20
IA	0	0	4	9
KS	20	6	5	18
KY	7	3	6	12
LA	29	22	18	14
MI	3	1	16	14
MN	10	0	7	12
MS	48	26	32	15
MO	2	0	1	7
NE	1	0	2	15
NC	3	0	4	5
OH	4	0	22	28
SC	2	1	0	0
SD	35	12	15	30
TN	8	3	11	8
ALL	8	3	9	14

These 19 States produced 94% of the 1995 soybean crop.

## Sorghum Percent Coloring

	Sep 8 1996	Prev Week	Prev Year	5-Yr Avg
AR	96	90	96	91
CO	67	44	52	41
IL	39	26	35	61
KS	65	44	36	52
LA	100	98	98	96
MS	99	95	89	93
MO	72	54	57	73
NE	45	26	38	57
NM	30	8	11	34
OK	70	55	56	68
SD	72	37	41	44
TX	85	72	88	84
ALL	69	51	55	64

These 12 States produced 98% of the 1995 sorghum crop.

## Peanuts Percent Harvested

	Sep 8 1996	Prev Week	Prev Year	5-Yr Avg
AL	4	2	10	10
FL	6	5	NA	NA
GA	2	1	17	10
NC	0	0	1	0
OK	0	0	0	0
SC	10	5	18	8
TX	0	0	2	4
VA	0	0	0	0
ALL	2	1	9	6

These 8 States produced 99% of the 1995 peanut crop.

# Crop Progress and Condition

Week Ending September 8, 1996

## Winter Wheat Percent Planted

	Sep 8 1996	Prev Week	Prev Year	5-Yr Avg
AR	0	0	0	0
CA	0	0	0	0
CO	17	7	4	12
GA	0	0	0	0
ID	3	1	3	7
IL	0	0	0	0
IN	0	0	0	1
KS	3	0	1	4
MI	2	1	3	4
MO	0	0	0	0
MT	3	0	1	3
NE	11	2	11	13
NC	0	0	1	1
OH	0	0	0	0
OK	3	1	10	11
OR	0	0	1	3
SD	8	1	13	14
TX	10	5	11	13
WA	40	17	33	27
ALL	7	2	6	8

These 19 States produced 92% of the 1995 winter wheat crop.

## Rice Percent Harvested

	Sep 8 1996	Prev Week	Prev Year	5-Yr Avg
AR	15	6	13	15
CA	0	0	0	1
LA	76	75	80	70
MS	25	18	53	25
TX	85	80	71	71
ALL	33	27	34	30

These 5 States produced 96% of the 1995 rice crop.

## Spring Wheat Percent Harvested

	Sep 8 1996	Prev Week	Prev Year	5-Yr Avg
ID	85	70	70	74
MN	77	55	87	72
MT	88	81	58	62
ND	79	63	65	68
SD	100	97	98	96
ALL	83	69	68	69

These 5 States produced 96% of the 1995 spring wheat crop.

## Barley Percent Harvested

	Sep 8 1996	Prev Week	Prev Year	5-Yr Avg
ID	81	69	68	77
MN	82	60	86	83
MT	85	72	62	67
ND	91	77	84	86
SD	100	99	100	99
WA	90	86	93	91
ALL	87	74	78	81

These 6 States produced 82% of the 1995 barley crop.

## Peanuts Crop Condition by Percent

	VP	P	F	G	EX
AL	0	7	50	43	0
FL	0	0	4	85	11
GA	1	9	33	46	11
NC	0	4	55	31	10
OK	0	6	30	55	9
SC	0	5	29	66	0
TX	1	7	38	43	11
VA	0	12	23	58	7
ALL	1	7	36	47	9
Prev Wk	1	8	34	51	6
Prev Yr	NA	NA	NA	NA	NA

## Soybeans Crop Condition by Percent

	VP	P	F	G	EX
AL	0	2	17	74	7
AR	4	13	31	38	14
GA	1	4	25	52	18
IL	7	17	37	35	4
IN	6	19	40	31	4
IA	1	6	21	54	18
KS	0	1	13	59	27
KY	1	5	21	54	19
LA	0	1	25	65	9
MI	10	19	40	27	4
MN	3	8	40	45	4
MS	3	8	23	56	10
MO	2	12	32	44	10
NE	0	2	17	50	31
NC	0	6	40	49	5
OH	7	18	40	30	5
SC	1	5	30	57	7
SD	1	5	32	50	12
TN	0	2	17	62	19
ALL	3	11	31	44	11
Prev Wk	3	10	30	46	11
Prev Yr	2	12	35	43	8

## Corn Crop Condition by Percent

	VP	P	F	G	EX
CO	5	8	16	58	15
GA	1	12	34	45	8
IL	5	12	32	41	10
IN	5	17	37	36	5
IA	1	5	19	54	21
KS	1	2	10	62	25
KY	1	4	21	49	25
MI	11	26	32	27	4
MN	3	8	39	42	8
MO	0	6	25	51	18
NE	0	3	14	56	27
NC	13	15	30	32	10
OH	7	18	39	31	5
PA	1	4	15	60	20
SD	0	6	26	53	15
TX	7	9	9	35	40
WI	2	10	27	52	9
ALL	3	9	26	47	15
Prev Wk	3	9	26	45	17
Prev Yr	2	9	31	49	9

## Cotton Crop Condition by Percent

	VP	P	F	G	EX
AL	3	6	23	60	8
AZ	5	10	32	28	25
AR	0	5	28	48	19
CA	0	0	10	60	30
GA	1	7	31	51	10
LA	0	5	22	62	11
MS	1	7	28	49	15
MO	1	11	30	52	6
NM	0	2	15	63	20
NC	0	4	40	46	10
OK	1	17	21	54	7
SC	2	7	31	58	2
TN	0	5	25	53	17
TX	9	16	33	33	9
ALL	4	10	29	44	13
Prev Wk	3	10	28	43	16
Prev Yr	3	12	33	47	5

# Crop Progress and Condition

Week Ending September 8, 1996

Sorghum Percent Mature				
	Sep 8 1996	Prev Week	Prev Year	5-Yr Avg
AR	64	NA	66	68
CO	10	NA	0	4
IL	3	NA	1	14
KS	13	NA	2	8
LA	90	NA	82	82
MS	90	NA	75	77
MO	26	NA	26	33
NE	0	NA	0	12
NM	0	NA	0	4
OK	24	NA	8	14
SD	23	NA	3	12
TX	62	NA	78	73
ALL	28	NA	26	31

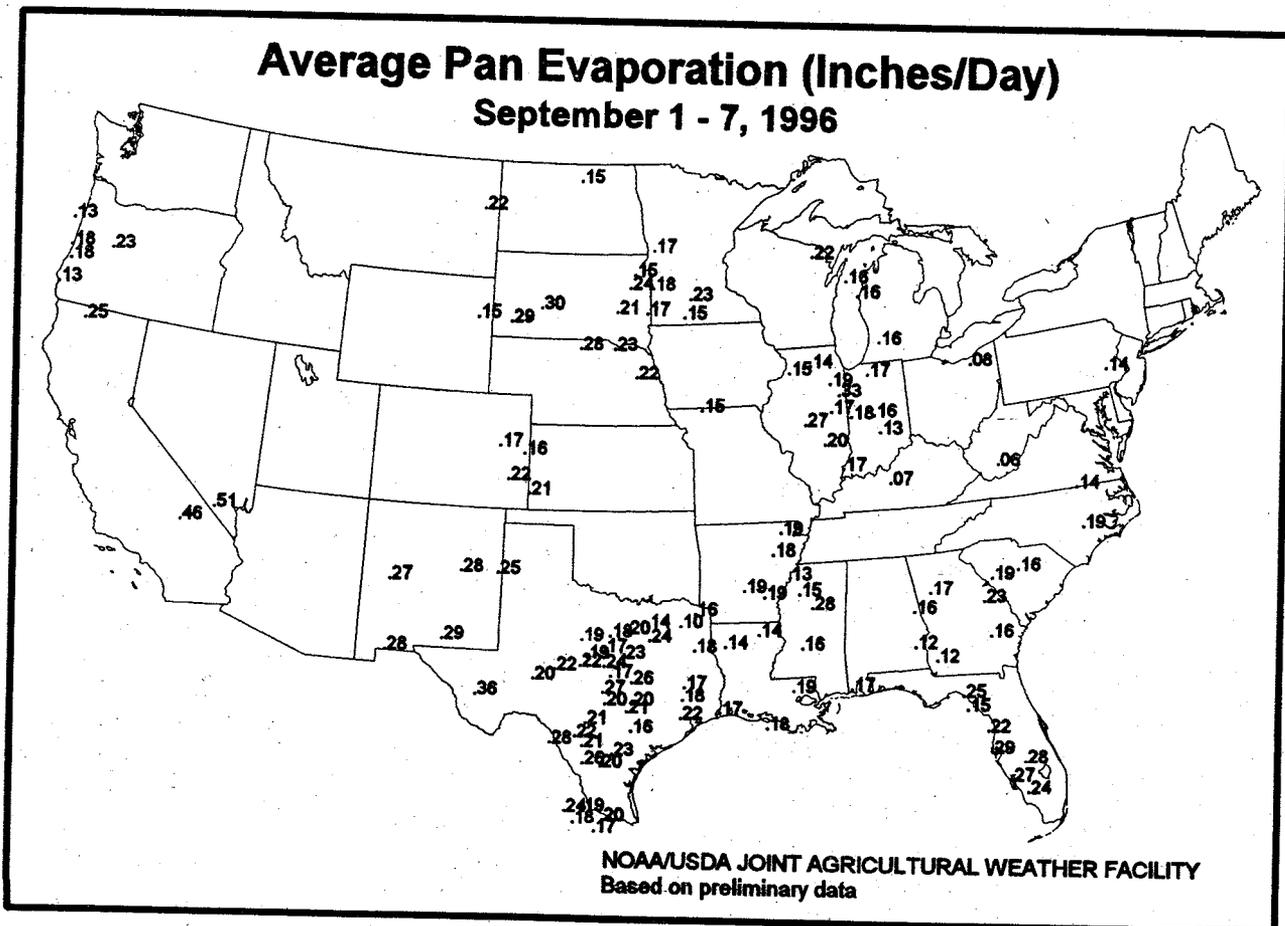
These 12 States produced 98% of the 1995 sorghum crop.

Sorghum Crop Condition by Percent					
	VP	P	F	G	EX
AR	0	11	34	46	9
CO	0	4	10	62	24
IL	12	12	21	52	3
KS	0	1	12	61	26
LA	0	0	33	66	1
MS	0	4	27	59	10
MO	2	8	34	45	11
NE	1	1	13	55	30
NM	15	27	20	36	2
OK	0	2	5	91	2
SD	0	7	34	52	7
TX	2	6	28	52	12
ALL	1	4	19	58	16
Prev Wk	3	5	20	53	19
Prev Yr	2	12	32	47	7

Rice Crop Condition by Percent					
	VP	P	F	G	EX
AR	0	2	18	54	26
CA	0	0	10	65	25
LA	0	2	17	72	9
MS	0	12	27	58	3
TX	0	0	12	60	28
ALL	0	2	17	60	21
Prev Wk	0	2	15	61	22
Prev Yr	0	4	30	53	13

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

National crop conditions for selected States are weighted based on 1995 planted acres.



## State Agricultural Summaries

*These summaries, issued weekly through the summer growing season, provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by NASS State Statistical Offices in cooperation with the National Weather Service. The crop weather reports are also available on the Internet through the NASS Home Page on the World Wide Web at <http://www.usda.gov/nass/> or from JAWF at <http://www.usda.gov/oce/waobljwaf>.*

**ALABAMA:** Days suitable for fieldwork 4.2. Topsoil 6% short, 83% adequate, 11% surplus. Corn mature 92%, 95% 1995, 94% avg.; harvested 46%, 44% 1995, 45% avg.; 1% very poor, 4% poor, 34% fair, 57% good, 4% excellent. Livestock 3% poor, 32% fair, 62% good, 3% excellent. Rains delayed harvest in many areas. Maintenance, repair of equipment was underway in preparation for harvest.

**ALASKA:** Crop growing areas received little moisture last week. Days available for making hay 5, 4 days for grain harvest, 6.5 days for potato harvest. Topsoil 10% short, 90% adequate. Subsoil 20% short, 80% adequate. Barley harvest 15%, 60% 1995. Second crop hay harvest 30%, 15% ahead of 1995. Commercial potato harvest 15%, 15% less than 1995.

**ARIZONA:** Storms continue hitting cotton crop across State, condition continues to decline. Harvest 5%, 2% 1995, 3% avg. Alfalfa quality improving. Harvest 3% light, 47% moderate, 13% active, 37% not being harvested. Condition 2% very poor, 2% poor, 7% fair, 75% good, 14% excellent. Cantaloupe, honeydew, watermelon harvest continued in central areas. Eastern growers harvested chili peppers, continued to harvest apples. Western, central growers harvested lemons.

**ARKANSAS:** Days suitable for fieldwork 6. Soil moisture 12% very short, 36% short, 49% adequate, 3% surplus. Main farming activities: Defoliating cotton, scouting and irrigating soybeans, draining rice fields, preparing for winter annuals planting and harvesting cotton, rice, corn, sorghum, soybeans, hay. Soybean irrigation continued in several counties. Harvest of soybeans continued in many counties. Numerous counties reported soybeans were sprayed for worm control. Some soybean fields were treated for podworms in Clay county. Craig head county reported bollworm treatment in soybean fields. Lime applications were applied to early soybeans in Conway county. Several counties reported cotton defoliation. Boll rot continued to cause serious problems for cotton producers in Lafayette county. Bollweevil pressure was reported by Drew county in some cotton fields. Armyworms were sprayed in cotton fields in Union county. St. Francis, Phillips counties reported cotton harvest. Rice scouting continued in many counties. Rice fields were being drained in preparation for harvest in numerous counties. Rice, corn, sorghum harvests continued in several counties. Faulkner county reported small grains, ryegrass were planted for winter pastures. Livestock were in good condition across State. Hay harvest proceeded.

**CALIFORNIA:** Field activities progressed normally in most areas. Small grain fields were burned, disced in preparation for fall planting. Rice growers in the Sacramento Valley were draining fields in preparation for harvest. Harvest was underway in a few fields. Cotton was sprayed for aphids, lygus, mites, worms, white flies. Many fields received final irrigation. Defoliation continued in the southern San Joaquin Valley, was virtually complete in the desert counties. Harvest began in the Imperial Valley. Grain sorghum was heading and turning color in Tulare County. Corn, grain sorghum were treated for insects. Corn for grain, silage, dry beans, safflower, seed alfalfa, sugar beets were harvested. Alfalfa, sudan grass were cut for hay. Grape harvest was active. Approximately 60% of the raisin crop was on trays, with 30% rolled, 9% picked up. Fresh grape varieties picked included Thompson Seedless, Flame Seedless, Ruby Seedless. Harvest of grapes for wine use continued. Prunes were actively harvested, harvest of other stone fruit was winding down. Picking of Granny Smith apples was active. Almond harvest was in full swing and the walnut harvest

was beginning. Rate of Valencia orange picking increased. Grapefruit, lemon harvests were also active. New crop navel oranges were progressing well. Strawberries were planted in the San Joaquin Valley. Broccoli, cauliflower were harvested along the coast, irrigated in the desert area. Garlic harvest in Kings County was winding down. Celery was harvested in Monterey, Ventura, San Luis Obispo counties. Melons were picked in the Sacramento, San Joaquin valleys. Onion harvesting continued. Bell, chili peppers were harvested in the San Joaquin Valley. Harvest of sweet potatoes proceeded in the Kingsburg/Dinuba area. Processing tomatoes were harvested in the San Joaquin, Sacramento valleys. Lettuce was harvested along the coast. Fall lettuce fields were planted, irrigated in the San Joaquin valley. Fall vegetables were sprayed for white flies, irrigated in the Imperial Valley. Range conditions at upper elevations were poor to fair, cooler temperatures with some moisture helped to slow deterioration. Ranchers provided hay, supplements at lower elevations. Near normal temperatures early in the week relieved the heat stress on livestock.

**COLORADO:** Days suitable for fieldwork 5.8. Topsoil 7% very short, 24% short, 64% adequate, 5% surplus. Subsoil 12% very short, 26% short, 60% adequate, 2% surplus. Spring barley 97% harvested, 57% 1995, 71% avg. Oats 84% harvested, 53% 1995, 72% avg. Dry onions 66% harvested, 37% 1995, 43% avg. Spring wheat 86% harvested, 52% 1995, 50% avg. Corn silage 18% harvested, 0% 1995, 7% avg. Sugar beets 1% very poor, 4% poor, 18% fair, 68% good, 9% excellent. Summer potatoes 54% harvested, 41% 1995, 56% avg. Fall potatoes 15% harvested, 1% 1995, 2% avg.; 1% very poor, 3% poor, 9% fair, 67% good, 20% excellent. Sorghum 97% headed, 93% 1995, 88% avg. Dry beans 43% cut, 6% 1995, 31% avg.; 24% harvested, 1% 1995, 16% avg.; 3% very poor, 10% poor, 20% fair, 48% good, 19% excellent. Alfalfa hay 42% 3rd cutting, 32% 1995, 35% avg.; 3% very poor, 6% poor, 20% fair, 57% good, 14% excellent.

**DELAWARE:** Days suitable for fieldwork 6.5. Topsoil 63% short, 37% adequate. Subsoil 37% short, 63% adequate. Corn 2% poor, 10% fair, 81% good, 7% excellent; 98% dough, 99% 1995 and 96% avg.; 84% dent, 96% 1995, 87% avg.; 36% mature, 72% 1995, 40% avg.; 5% harvested for grain, 14% 1995, 7% avg.; 42% harvested for silage, 80% 1995, 56% avg. Soybeans 4% poor, 37% fair, 56% good, 3% excellent; 80% setting pods, 96% 1995, 86% avg. Sorghum 34% fair, 64% good, 2% excellent; 28% turning color, 45% 1995, 27% avg. Sweet corn 91% harvested, 98% 1995, 95% avg. Potatoes 92% harvested, 96% 1995, 87% avg. Tomatoes 91% harvested, 93% 1995, 88% avg. Cantaloupe 92% harvested, 96% 1995, 96% avg. Watermelons 90% harvested, 96% 1995, 96% avg. Lima beans 45% harvested, 53% 1995, 48% avg. Apples 9% fair, 87% good, 4% excellent; 41% harvested, 36% 1995, 33% avg. Peaches 98% harvested, 88% 1995, 94% avg. Alfalfa hay 87% 3rd cutting, 100% 1995, 99% avg.; 18% 4th cutting, 36% 1995, 37% avg. Other hay 80% 3rd cutting, 86% 1995, 67% avg.; 10% 4th cutting, 6% 1995, 11% avg. Hay supplies 2% very short, 31% short, 66% adequate, 1% surplus. Activities: Harvesting vegetables, hay, corn for grain, silage.

**FLORIDA:** Topsoil mostly short to adequate throughout State. Peanut harvest 6%. Tobacco marketing active. Corn for grain harvest increasing. Haying active. Growers starting to pick cotton. Peanuts fair 4%, good 85%, excellent 11%. Most growers delayed planting of vegetables due to threat of Hurricane Fran. Growers putting off some vegetable planting for coming week until threat of Hurricane Hortense passes. Most southern Peninsula vegetables need rain. Citrus groves

very good condition. Moisture adequate most areas, some irrigation, new growth slowing. New crop fruit good condition. First harvest of the season Ambersweet oranges. Packing, shipping to be September 9-11. Caretakers cutting cover crops, fertilizing, herbiciding, liming, pushing dead trees, planting new trees. Pasture poor 5%, fair 45%, good 50%. Pasture fair to good most of State. Grass growth west central, south western areas fallen off due to drought. Cattle herds fair 30%, good 65%, excellent 5%.

**GEORGIA:** Days suitable for fieldwork 4.9. Soil moisture 3% very short, 16% short, 66% adequate, 15% surplus. Corn 62% harvested for grain, 82% 1995, 70% avg. Cotton 2% harvested, 4% 1995, 1% avg. Hay 5% poor, 31% fair, 60% good, 4% excellent. Peanuts 7% dug, 31% 1995, 18% avg. Rye 0% planted, 1% 1995, 1% avg. Sorghum 2% very poor, 6% poor, 36% fair, 54% good, 2% excellent; 20% harvested for grain, 27% 1995, 29% avg. Soybeans 98% blooming, 100% 1995, 100% avg.; 90% setting pods, 97% 1995, 94% avg. Tobacco 93% harvested, 100% 1995, 97% avg. Other small grains 0% planted, 1% 1995, 1% avg. Apples 1% fair, 99% good; 26% harvested, 44% 1995, 40% avg. Pecans 1% very poor, 10% poor, 34% fair, 45% good, 10% excellent. Rainfall continued for most of the State. Conditions held steady, some had moderate improvement. Benefits of rainfall outweigh the slowdown in field work. All crops in fair to good condition. Activities: Planting fall vegetables, defoliating cotton, spraying for insects, checking peanut maturity, rolling peanut hay, planting winter grazing.

**HAWAII:** Heavy weekend rain slowed farming. Hardest hit was Kauai island. Flooding caused damage to taro fields. Bananas in good condition. Papaya production relatively light. Tomato production higher, moderate level. Head cabbage supplies moderate to heavy. Coffee harvesting continues. Another surge expected later this year.

**IDAHO:** Days suitable for fieldwork 6.4. Topsoil 17% very short, 38% short, 45% adequate. Potatoes turning (vines senescing) 80%, 62% 1995, 84% avg.; vines dead/killed 30%, 36% 1995, 63% avg.; harvested 6%, 3% 1995, 7% avg.; 2% poor, 10% fair, 65% good, 23% excellent. Alfalfa hay harvested (2nd cutting) 95%, 92% 1995, 95% avg.; harvested (3rd cutting) 39%, 31% 1995, 38% avg. Oats harvested for grain 70%, 51% 1995, 74% avg. Corn harvested for silage 1%, 9% 1995, 11% avg. Dry peas harvested 83%, 80% 1995, 85% avg. Dry beans harvested 27%, 13% 1995, 26% avg. Lentils harvested 72%, 47% 1995, 73% avg. Mint harvested 93%, 84% 1995, 95% avg. Hops harvested 35%, 29% 1995, 52% avg. Sweet corn harvested 85%, 46% 1995, 60% avg. Onions harvested 32%, 8% 1995, 32% avg. Apples harvested 3%, 5% 1995, 8% avg. Peaches harvested 71%, 65% 1995, 84% avg. Prunes, plums harvested 46%, 38% 1995, 65% avg. Pasture feed, range 2% very poor, 21% poor, 40% fair, 33% good, 4% excellent. Irrigation water 2% poor, 8% fair, 52% good, 38% excellent. Activities: spraying, inspecting potatoes for late blight, preparing fields for fall grain seeding, applying fertilizer, harvesting small grains, alfalfa hay, onions, lentils, dry beans.

**ILLINOIS:** Days suitable for fieldwork 6.8. Topsoil 24% very short, 48% short, 28% adequate. Development of crops made good progress last week with temperatures remaining very warm. Crops are generally about two weeks behind normal. Some rain last week was beneficial to both corn, soybeans. Soybeans could still use more to promote growth, filling of pods. Corn is beginning to dry quickly due to the mostly dry, warm weather. Harvest of corn is in the early stages in the southern half of the State. It should be picking up within the next week in order to fill mid-September contracts. Most farm activities centered around harvest; preparing equipment and cleaning bins. Soybeans 96% setting pods, 99% 1995, 99% avg.; 14% turning yellow, 21% 1995, 43% avg. Sorghum 95% headed, 90% 1995, 97% avg. Alfalfa 70% 3rd cutting, 78% 1995, 78% avg.

**INDIANA:** Days suitable for fieldwork 6.9. Topsoil 38% very short, 44% short, 17% adequate, 1% surplus. Subsoil 24% very short, 47% short, 28% adequate, 1% surplus. Weekend showers will help some of the major crops and pastures. Many corn, soybean fields have been stressed by the lack of precipitation during the last few weeks. Corn harvest underway, southwestern areas. A few scattered soybean fields have been harvested. Corn in dent stage or beyond by region: 43% north, 40% central, 50% south. Tobacco harvest 37% complete, 44% 1995, 53% avg. Blue mold, some tobacco fields. Activities: Preparing equipment for fall harvest, filling silos, cleaning grain bins, cutting mint, baling hay, mowing roadsides, care of livestock.

**IOWA:** Days suitable for fieldwork 6.8. Topsoil very short 9%, short 32%, adequate 58%, surplus 1%. Subsoil moisture very short 5%, short 25%, adequate 69%, surplus 1%. Last week's warm temperatures excellent for corn, soybean maturation; some seed corn has begun to be harvested across the State. Several reporters mentioned that approximately three to four more weeks of normal temperatures would be helpful in bringing most of the corn, soybeans to full maturity. Some corn, beans, mostly in the eastern section of the State, are maturing (dying) more rapidly due to the lack of soil moisture in that area of the State. Soybeans leaves turning color 14%, 28% 1995, 33% avg. Alfalfa hay 3rd crop harvested 67%, 68% 1995, 63% avg. Clover hay 2nd crop harvested 92%, 99% 1995, 93% avg.; hay 3% very poor, 14% poor, 35% fair, 40% good, 8% excellent. Livestock in good condition. A few reports of pink eye were received. Pastures in areas under soil moisture stress becoming dormant, consequently, producers are supplementing livestock with hay which is tightening up supplies in these areas.

**KANSAS:** Days suitable for fieldwork 5.5. Topsoil 9% short, 87% adequate, 4% surplus. Subsoil 2% very short, 12% short, 83% adequate, 3% surplus. There have been many reports of corn earworms in sorghum. However, severity of damage is unknown at this time. Fall crops remain mostly in good to excellent condition, ahead of normal maturity. Feed grain 19% short, hay 8% short. Alfalfa 3rd cut 99% complete, 100% 1995, 98% avg. Alfalfa 4th cut 40% complete, 38% 1995, 37% avg. Activities: Preparing for wheat seeding, baling hay, preparing for fall harvest, cutting silage.

**KENTUCKY:** Scattered showers late in the week slowed fieldwork, improved pastures, hay, late seeded crops. Days suitable fieldwork 5.0. Topsoil 12% very short, 35% short, 50% adequate, 3% surplus. Subsoil 8% very short, 33% short, 57% adequate, 2% surplus. Burley tobacco cut 54%, 66%, 1995, 63% avg. Dark tobacco 62% cut. Most housed tobacco curing well, houseburn minimal. Tobacco in field condition 2% very poor, 10% poor, 31% fair, 45% good, 12% excellent. Early planted corn harvest underway, many producers drying grain to acceptable moisture levels before sale. Preliminary yields good to very good. More rain, needed for soybeans to mature. Hay crops, pastures hurt by dry weather. Pasture feed 5% very poor, 14% poor, 33% fair, 37% good, 11% excellent.

**LOUISIANA:** Days suitable for fieldwork 5.3. Soil moisture 9% short, 77% adequate, 14% surplus. Corn 95% harvested, 91% 1995, 86% avg. Corn harvest neared completion with farmers continuing to report good yields. Cotton 1% harvested, 1% 1995, 1% avg. A few cotton farmers began harvesting, most were still in the process of defoliating. Hay 87% 2nd cutting, 79% 1995, 68% avg. Hay producers took advantage of drier conditions, resumed harvesting. Rice 100% headed, 100% 1995, 98% avg.; 93% ripe, 96% 1995, 87% avg. Second cutting rice was losing quality due to wet conditions. Sorghum 66% harvested, 44% 1995, 54% avg. Soybeans 52% turning color, 34% 1995, 30% avg.; 10% harvested, 5% 1995, 2% avg. Soybean farmers reported problems with stinkbugs, aerial blight. Sugarcane 1% very poor, 7% poor, 23% fair, 50% good, 19% excellent; 19% planted, 53% 1995, 44% avg. Sweet potatoes 1% poor, 21% fair, 73% good, 5% excellent; 22% harvested, 9% 1995, 27% avg. Livestock 4% poor, 29% fair, 59%

good, 8% excellent. Cattlemen were busy weaning, marketing spring calves. Vegetables 1% very poor, 12% poor, 41% fair, 43% good, 3% excellent. Vegetable producers were planting broccoli, cauliflower, cabbage. Pasture feed 1% poor, 25% fair, 62% good, 12% excellent.

**MARYLAND:** Days suitable for fieldwork 5.1. Topsoil 4% very short, 14% short, 53% adequate, 29% surplus. Subsoil 2% very short, 9% short, 69% adequate, 20% surplus. Corn 1% poor, 14% fair, 51% good, 34% excellent; 89% dough, 94% 1995, 92% avg.; 65% dent, 85% 1995, 76% avg.; 20% mature, 50% 1995, 35% avg.; 4% harvested for grain, 10% 1995, 6% avg.; 22% harvested for silage, 57% 1995, 38% avg. Soybeans 7% poor, 29% fair, 48% good, 16% excellent; 90% setting pods, 94% 1995, 90% avg.; 6% turning, 26% 1995, 15% avg. Sorghum 2% very poor, 4% poor, 15% fair, 58% good, 21% excellent; 42% turning color, 44% 1995, 44% avg. Tobacco 85% harvested, 91% 1995, 64% avg. Sweet corn 87% harvested, 92% 1995, 94% avg. Tomatoes 86% harvested, 87% 1995, 89% avg. Cantaloupe 95% harvested, 94% 1995, 97% avg. Watermelons 87% harvested, 88% 1995, 94% avg. Apples 18% fair, 63% good, 19% excellent; 21% harvested, 37% 1995, 28% avg. Peaches 95% harvested, 90% 1995, 93% avg. Alfalfa hay 97% 3rd cutting, 96% 1995, 94% avg.; 35% 4th cutting, 63% 1995, 45% avg. Other hay 63% 3rd cutting, 61% 1995, 50% avg.; 9% 4th cutting, 9% 1995, 12% avg. Hay supplies 5% very short, 9% short, 76% adequate, 10% surplus. Activities: Harvesting vegetables, hay, corn for grain and silage.

**MICHIGAN:** Days suitable for fieldwork 5.5. Week continued to be very dry with no rain until the weekend when eastern areas received much needed rain. Topsoil 47% very short, 37% short, 15% adequate, 1% surplus. Subsoil moisture 44% very short, 31% short, 24% adequate, 1% surplus. Dry beans, leaves turning 60%, 92% 1995, 71% avg.; leaves shedding 17%, 67% 1995, 48% avg.; 4% very poor, 15% poor, 38% fair, 34% good, 9% excellent. All hay, 2nd cutting 97%, 97% 1995, 96% avg.; 10% very poor, 19% poor, 33% fair, 33% good, 5% excellent. Potatoes harvested 40%, 57% 1995, 39% avg. Oats harvested 95%, 99% 1995, 94% avg. Pasture for feed 26% very poor, 27% poor, 27% fair, 18% good, 4% excellent/

**MINNESOTA:** Days suitable for fieldwork 6.0. Topsoil 22% very short, 34% short, 41% adequate, 3% surplus. Corn 99% dough, 98% 1995, 85% avg.; 46% denting, 81% 1995, 56% avg.; 3% mature, 7% 1995, 9% avg. Soybeans 41% turning yellow, 38% 1995, 39% avg.; 10% shedding leaves, 7% 1995, 12% avg. Spring wheat 77% harvested, 75% 1995, 70% avg. Barley 82% harvested, 86% 1995, 83% avg. Rye 46% seeded, 32% 1995, 40% avg. Winter wheat 66% seeded, 30% 1995, 40% avg. Sweet corn 76% harvested, 62% 1995, 64% avg. Dry beans 18% harvested, 14% 1995, 25% avg. Potatoes 16% harvested, 11% 1995, 17% avg. Stubble plowed 45%, 31% 1995, 35% avg. Flax 8% harvested, 14% 1995, 26% avg. Sugar beets 2% harvested, 0% 1995, 0% avg. Pasture feed 15% very poor, 24% poor, 38% fair, 22% good, 1% excellent. Corn 3% very poor, 8% poor, 39% fair, 42% good, 8% excellent. Dry beans 5% poor, 26% fair, 63% good, 6% excellent. Soybeans 3% very poor, 8% poor, 40% fair, 45% good, 4% excellent. Sunflowers 2% very poor, 22% poor, 27% fair, 44% good, 5% excellent. Sugar beets 2% poor, 18% fair, 68% good, 12% excellent.

**MISSISSIPPI:** Days suitable for fieldwork 4.9. Soil moisture 3% very short, 15% short, 71% adequate, 11% surplus. Corn 97% mature, 93% 1995, 88% avg.; 53% harvested, 61% 1995, 41% avg.; 94% silage harvested, 91% 1995, 85% avg.; 4% poor, 27% fair, 60% good, 9% excellent. Soybeans 100% setting pods, 99% 1995, 94% avg.; 62% turning color, 54% 1995, 37% avg.; 48% shedding leaves, 32% 1995, 15% avg.; 17% harvested, 10% 1995, 2% avg.; 3% very poor, 8% poor, 23% fair, 56% good, 10% excellent. Hay (warm season) 92% harvested, 95% 1995, NA avg.; 3% very poor, 18% poor, 39% fair, 35% good, 5% excellent; Sweet potatoes 26% harvested, 22% 1995, 32% avg.; 1% very poor, 1% poor, 16% fair, 58% good, 24% excellent.

Watermelons 100% harvested, 100% 1995, 100% avg.; peanuts 2% poor, 21% fair, 77% good; cattle 1% very poor, 4% poor, 28% fair, 58% good, 9% excellent. Pasture feed 3% very poor, 11% poor, 40% fair, 41% good, 5% excellent. Main farming: Harvesting row crops and hay. Boll rot in cotton has become a major concern in parts of the State that have received excess rainfall. Afternoon showers have slowed down corn harvesting, benefited the fall, winter grasses. Insect activity is occurring in fall plantings.

**MISSOURI:** Days suitable for fieldwork 6.5. Topsoil 14% very short, 41% short, 45% adequate. Subsoil 9% very short, 30% short, 60% adequate, 1% surplus. Hot, dry weather existed across State, some precipitation falling over State on weekend. Favorable row crop conditions are found across the western third, central areas of State. Significant moisture shortages exist across the State, particularly southern third, pastures in need of additional rain. Corn 12% harvested, led by around 45% harvested southeast, southwest. Corn crop is least advanced northeast, 59% denting, 12% mature. Soybean pod setting 96%, progressing normally, 12% turning color, is 6 days behind norm. Sorghum 3% harvested, led by 8% Bootheel. Alfalfa 3rd cutting 88%, 88% 1995, 87% avg. Pasture feed, range 11% very poor, 20% poor, 38% fair, 28% good, 5% excellent.

**MONTANA:** Days suitable for fieldwork 5.8. Topsoil 49% very short, 42% short, 9% adequate. Subsoil moisture 42% very short, 47% short, 11% adequate. Small grain harvest well advanced. Continued dry conditions holding back winter wheat seeding. Winter wheat 99% harvested, 91% 1995, 88% avg. Spring wheat 98% ripe, 83% 1995, 85% avg. Barley 98% ripe, 84% 1995, 88% avg. Oats 97% ripe, 87% 1995, 86% avg. Oats 87% harvested, 63% 1995, 65% avg. Corn for silage 12% harvested, 8% 1995, 17% avg. Dry beans 18% harvested, 22% 1995, 19% avg. Alfalfa 2nd cut 85% complete, 84% 1995, 82% avg. Cattle, calves moved from summer ranges 9%. Sheep, lambs moved from summer ranges 7%.

**NEBRASKA:** Days suitable for fieldwork 6.0. Topsoil 1% very short, 27% short, 87% adequate, 5% surplus. Subsoil 17% short, 81% adequate, 2% surplus. Above normal temperatures last week continued to boost crop development toward maturity, however, row crops remained one to two weeks behind average. Rainfall averaged less than a inch in most areas with locally heavy rainfall amounts occurring in east central areas over the weekend. Corn 96% dough stage, 91% 1995, 96% avg.; 55% dent, 55% 1995, 70% avg.; 1% mature, 1% 1995, 16% avg.; grey leaf spot continued to be reported in the south, east. Soybeans 14% turning color, 17% 1995, 40% avg., 1% dropping leaves, 2% 1995, 15% avg. Dry beans 92% turning color, 74% 1995; dropping leaves 52%, 23% 1995. Alfalfa 1% very poor, 6% poor, 30% fair, 50% good, 13% excellent; 88% 3rd cutting, 85% 1995, 83% avg.; 6% 4th cutting, 4% 1995. Pasture feed, range 1% very poor, 7% poor, 24% fair, 52% good, 16% excellent. Activities: Preparing equipment for harvest, silage cutting, soil preparation for fall seeded wheat, livestock care.

**NEVADA:** An unseasonably strong low pressure system passed through the State on the 4th, bringing high winds and cooler temperatures. The first frost of the season was recorded at several northern Nevada localities, signaling the end of the garden season for many. Wheat, barley harvests complete. Limited acreage of oats remaining for harvest. Cutting of corn for silage in full swing. Alfalfa third cutting progressing North. Alfalfa 5th cutting in full swing extreme south. Alfalfa seed combining half complete in Pershing County. Grass hay harvest completed. Sudan being harvested extreme south. Potatoes harvest gaining momentum. Onion harvest continued. Main farm and ranch activities: haying, alfalfa seed harvest, potato digging, onion harvest, irrigating, preparing fields for fall planting.

**NEW ENGLAND:** Days suitable for fieldwork 5.8. Topsoil 9% very short, 25% short, 65% adequate, 1% surplus. Subsoil 7% very short, 20% short, 73% adequate. Pasture feed 5% poor, 49% fair, 45% good, 1% excellent. Maine potatoes 5% harvested, 5% 1995, 5% avg., condition good. Massachusetts potatoes 55% harvested, 45% 1995, 40% avg., condition good. Rhode island potatoes 65% harvested, 40% 1995, 45% avg., condition good/excellent. Maine oats 35%, 75% harvested 1995, 65% avg., condition good/excellent. Maine barley 50%, 90% harvested 1995, condition good/excellent. Silage corn <5% harvested, 10% harvested 1995, 5% avg., condition good/fair. Sweet corn 85% harvested, 90% 1995, 80% avg., condition good. Shade tobacco 95% harvested, 99% 1995, condition good/excellent. Broadleaf tobacco 95% harvested, 95% 1995, condition good/excellent. First hay 99% harvested, 99% 1995, 100% avg., condition good/fair. Second hay 80% harvested, 90% 1995, 85% avg., condition good/excellent. Hay 3rd cut 40% harvested, 50% 1995, 40% avg., condition good/excellent. Apples 15% harvested, 25% 1995, 20% avg., size average, condition good. Peaches 90% harvested, 95% 1995, size average, condition good. Pears 30% harvested, 45% harvested 1995, size average, condition good. Cranberries size average/above average, condition good/excellent. Highbush blueberries 95% harvested, 95% 1995, size average, condition good/excellent. Wild blueberries 100% harvested, 100% 1995, size above average, condition good/fair. Tropical Storm Eduard bypassed most of New England, except for Cape Cod and the islands of Massachusetts. The storm did very little damage to the region except for producing puddle damage in cranberry bogs, wind-blown salt spray problems. The remnants of Hurricane Fran dumped heavy rains over most of southern New England. Major farm activities: potato vine killing; harvesting hay and starting to harvest silage corn, harvesting both summer and early fall vegetables such as sweet corn, peppers, eggplant, cabbage, green squash, tomatoes.

**NEW JERSEY:** Days suitable for fieldwork 6. Topsoil moisture reported as short to adequate. Farmers were busy irrigating crops as needed, harvesting vegetable crops, hay. Good supply of green beans, sweet corn, eggplant, cucumbers, peppers, squash (all types). Moderate volume of cabbage, leeks, tomatoes, beets. Light, increasing volume of endive, escarole, lettuce (all types), parsley, spinach. Peach harvest is in final stage of harvest with a good volume of main varieties such as Rio-Oso-Gem, Autumnnglo, Encore, available at this time. Corn and soybeans continue to look good but they could also use some rain. Hay making is active. Pasture feed are in fair to good condition.

**NEW MEXICO:** Days suitable for fieldwork 5.9. Soil moisture 9% very short, 36% short, 53% adequate, 2% surplus. Scattered showers and thunderstorms each afternoon, evening favored the eastern plains, most locations receiving rainfall collected less than on quarter inch. Temperatures were within a couple of degrees of normal at most locations around the state. Crops progressed nicely with harvest active on chile, corn, hay, apples, potatoes and beans. Winter wheat planting was well underway with 35% completed, 16% very poor, 16% poor, 31% fair, good. Condition 5% very poor, 5% poor, 10% fair, 57% good, 23% excellent; corn dent stage 85%, with 50% mature. Cotton 2% poor, 15% fair, 63% good, 20% excellent; cotton bolls opening 70%, 26% 1995, 36% avg. Sorghum 15% very poor, 27% poor, 20% fair, 36% good, 2% excellent; sorghum headed 70%, 74% 1995, 93% avg.; coloring 30%, 11% 1995, 34% avg. Alfalfa 5% poor, 25% fair, 55% good, 15% excellent; fourth cutting 70% complete, 5th cutting 26% complete. Chile 10% fair, 80% good, 10% excellent; green chile harvest 50% complete. Lettuce 25% fair, 65% good, 10% excellent. Pecan condition 13% fair, 77% good, 10% excellent with nut drop remaining about average. Cattle conditions 2% very poor, 10% poor, 34% fair, 50% good, % excellent; sheep conditions 9% very poor, 15% poor, 40% fair, 34% good, 2% excellent. Range, pasture feed conditions were 8% very poor, 26% poor, 30% fair, 33% good, and 3% excellent

**NEW YORK:** Days suitable: 6.7. Soil moisture 55% short, 36% adequate, 9% surplus. Pasture feed 30% poor, 50% fair, 15% good, 5% excellent. Hay, corn fair to good. Alfalfa 3rd 55% complete, 65%

1995, 56% avg. Silage corn harvest started. Oats 89% harvested, 99% 1995, 89% avg. Potato harvest active. Vegetable harvesting in high gear. Insect, disease pressure high. Orange County onion harvest gained momentum. Hudson Valley apple condition good, peaches excellent, pears good. Macintosh harvest underway. Grape producers getting equipment ready for harvest.

**NORTH CAROLINA:** Hurricane Fran rocked State this weekend causing widespread damage. Damage assessment teams will be surveying the damage throughout the week. No figures are yet available on crop losses. Days suitable for fieldwork 3.3. Soil moisture 25% adequate, 75% surplus. Hay 3rd cutting 50%, 39% 1995, 43% avg.; corn silage harvested 70%, 67% 1995, 62% avg.; Flue-cured tobacco harvested 78%, 83% 1995, 72% avg.; burley tobacco harvested 45%, 54% 1995, 40% avg.; apples harvested 18%, 26% 1995, 28% avg.; sorghum harvested 25%, 15% 1995, 18% avg.; Crop condition: Tobacco 17% very poor, 19% poor, 30% fair, 24% good, 10% excellent; hay 2% very poor, 13% poor, 38% fair, 44% good, 3% excellent. Activities for the week: Repairing storm damage; cultivating crops; spraying for insects, weed control; spraying fungicide on peanuts; harvesting, marketing flue-cured tobacco; harvesting burley tobacco; harvesting corn, sorghum, vegetables, apples, sweet potatoes; cutting, baling hay; maintaining pastures; tending livestock; repairing equipment, general farm maintenance.

**NORTH DAKOTA:** Days suitable for fieldwork 5. Soil moisture increased, remained below last year and average. Topsoil 20% very short, 26% short, 51% adequate, 3% surplus. Subsoil 16% very short, 27% short, 54% adequate, 3% surplus. Small grain harvest remained ahead of average, with the southern, central parts of the state close to finishing. Durum 52% combined; 42% 1995; 50% avg. Late season crop development: Canola 39% combined; flaxseed 26% combined; 13% 1995; 22% avg.; corn for grain 72% denting and beyond; 81% 1995; 58% avg.; dry edible beans 89% mature/leaves dropping and beyond, 17% harvested 85%, and 15% 1995; 67% and 21% avg.; soybeans 17% mature/leaves dropping and beyond; 30% 1995; 33% avg.; sunflowers 56% bracts turned yellow and beyond; 56% 1995, 47% avg.; potatoes 50% vines killed and beyond, 9% dug; 63% and 9% 1995; 67% and 16% avg. Late season crop conditions declined except canola. A lack of moisture, grasshoppers are still a concern in the southern, central districts. Crop condition: durum 3% very poor, 10% poor, 35% fair, 48% good, 4% excellent; canola 2% poor, 22% fair, 63% good, 13% excellent; flaxseed 1% very poor, 4% poor, 24% fair, 63% good, 8% excellent; corn for grain 17% poor, 28% fair, 44% good, 11% excellent; corn for silage 1% very poor, 7% poor, 25% fair, 59% good, 8% excellent; dry edible beans 3% very poor, 9% poor, 28% fair, 53% good, 7% excellent; soybeans 27% poor, 32% fair, 37% good, 4% excellent; sunflower 2% poor, 18% fair, 60% good, 20% excellent; sugar beets 1% very poor, 5% poor, 23% fair, 66% good, 5% excellent; potatoes 1% very poor, 3% poor, 7% fair, 66% good, 23% excellent.

**OHIO:** Days suitable for fieldwork 6.8. Topsoil 42% very short, 42% short, 16% adequate. Alfalfa hay 3rd cutting 67%; 71% 1995; 74% normal. Other hay 3rd cutting 44%; 45% 1995; 44% normal. Fresh market vegetable harvest essentially over, cover crops are being seeded. Processing tomato harvest continues with 27% completed; 59% 1995; 53% normal. Apple harvest progressed to 32%. Potatoes dug 34%; 42% 1995; 42% normal. Farmers are hauling lime and manure, spraying weeds, mowing pastures, preparing fields for hay, winter wheat seedings. Tobacco harvest is underway. Pumpkins are beginning to ripen. Livestock 1% very poor, 7% poor, 24% fair, 63% good, 5% excellent.

**OKLAHOMA:** Days suitable for fieldwork 5.1. Topsoil 7% short, 77% adequate, 16% surplus. Subsoil 1% very short, 7% short, 90% adequate, 2% surplus. Wheat 63% seedbed prepared, 73% 1995, 80% avg.; oats 57% seedbed prepared, 56% 1995, 59% avg.; 0% planted, 4% 1995, 5% avg.; barley 51% seedbed prepared, 50% 1995, 55%

avg.; 0% planted, 5% 1995, 6% avg.; corn 30% mature, 67% 1995, 80% avg.; 10% harvested, 15% 1995, 32% avg.; sorghum 4% harvested, 1% 1995, 2% avg.; soybeans 93% setting pods, 84% 1995, 79% avg.; 28% mature, 25% 1995, 23% avg.; 6% harvested, 5% 1995, 5% avg.; peanuts 24% mature, 4% 1995, 12% avg.; alfalfa 1% very poor, 4% poor, 24% fair, 66% good, 5% excellent; Alfalfa 59% 4th cutting, 66% 1995, 71% avg.; 4% 5th cutting, 9% 1995, 8% avg.; Livestock 2% poor, 15% fair, 72% good, 11% excellent. Feeder steers, heifers were steady.

**OREGON:** Days suitable for fieldwork 6.9. Topsoil 38% very short, 42% short, 20% adequate. Subsoil 37% very short, 39% short, 24% adequate. Barley 73% harvested, 73% 1995, 80% avg. Winter wheat 98% harvested, 98% 1995, 98% avg. Activities: Small spring grain harvest underway higher elevated eastern locations, Klamath Basin. Eastern fall small grain field work underway. Willamette Valley: small grains, most grass seed crops harvested, red clover, hops harvest underway, mint harvest winding down, fall small grain field preparation underway. Nurseries continued irrigation, dry hot conditions prevailed. Christmas tree shearing about one-half done. Eastern potato, storage onion harvest underway. Central mint, garlic harvest full swing. Willamette Valley: Sweet corn, table beet, cucumbers, snap bean harvest continued. Bartlett pear harvest winding down, Rogue River, Hood River valleys. Peach harvest continued, Rogue River Valley, Hood River, Milton-Freewater, Valley early apple harvest underway. Willamette Valley: blueberry, blackberry, raspberry harvests were complete, Gravenstein, Gala, Jonagold apple harvest underway, hazelnuts, walnuts beginning to drop. Cranberry crop developed color, southern coast. Hot dry conditions, most major range fires are under control, eastern sections. Yearlings movement to feedlots continued. Sheep breeding underway, southern sections. Western pasture feed very dry, supplemental feed required.

**PENNSYLVANIA:** Days suitable for fieldwork 4.4. Soil moisture 1% very short, 29% short, 64% adequate, 6% surplus. Severe rain, flooding from Fran. Many creeks, rivers ran over banks. Amount of damage to crops unknown. Most rain in south central area. Ensilage corn harvest 11% complete, 32% 1995, 19% avg. Soybean 1% poor, 13% fair, 65% good, 21% excellent. Wheat planted 8% complete, 2% 1995, 11% avg. Barley planted 12% complete, 3% 1995, 12% avg. Tobacco harvest 75% complete, 85% 1995, 68% avg. Potato harvest 38% complete, 32% 1995, 39% avg. Alfalfa 3rd cutting 68% complete, 61% 1995, 66% avg. Alfalfa 4th cutting 23% complete, 17% 1995, 26% avg. Timothy clover 2nd cutting 83% complete, 79% 1995, 87% avg. Quality of hay made 2% very poor, 6% poor, 26% fair, 43% good, 23% excellent. Apple harvest 30% complete, 21% 1995, 29% avg. Peach harvest 75% complete, 86% 1995, 85% avg. Grape harvest 25% complete, 27% 1995, 29% avg. Fall plowing 29% complete, 19% 1995, 31% avg. Activities: Making hay and haylage; harvesting potatoes, fruits, vegetables; seeding barley, wheat, alfalfa; fixing fences; hauling manure; caring for livestock.

**PUERTO RICO:** No weather data available.

**SOUTH CAROLINA:** Soil moisture 4% short, 65% adequate, 31% surplus. Days suitable for fieldwork 5.0. Corn 62% harvested, 63% 1995, 56% avg.; 7% very poor, 14% poor, 40% fair, 34% good, 5% excellent. Hay 2% very poor, 6% poor, 29% fair, 61% good, 2% excellent. Sorghum 38% harvested, 25% 1995, 28% avg.; 1% poor, 71% fair, 20% good, 8% excellent. Sweet potatoes 13% harvested, 7% 1995, 15% avg.; 11% poor, 42% fair, 47% good. Tobacco 85% harvested, 92% 1995, 87% avg.; 43% stalks destroyed, 46% 1995; 39% avg.; 1% poor, 35% fair, 55% good, 9% excellent. Peach harvest 99% complete, 99% 1995, 98% avg.; 30% very poor, 40% poor, 30% fair. Apples 35% harvested, 38% 1995, 40% avg.; 40% very poor, 22% poor, 18% fair, 20% good.

**SOUTH DAKOTA:** Days suitable for fieldwork 5.9. Topsoil 24% very short, 40% short, 35% adequate, 1% surplus. Subsoil 12% very short, 46% short, 38% adequate, 4% surplus. Precipitation helped stabilize row crop conditions, but a majority of the State still has inadequate soil moisture. Winter wheat seeding is off to slower than normal start as producers are waiting for additional moisture and cooler weather to calm the grasshopper activity. Corn silage harvested 5%, 1% 1995, 12% avg. Flax 88% harvested, 44% 1995, 62% avg. Sorghum silage harvested 4%, 0% 1995, 9% avg. Soybeans 10% mature, 0% 1995, 9% avg. Sunflowers 82% flowers dry, 81% 1995, 79% avg.; 51% bracts yellow, 43% 1995, 54% avg.; 6% mature, 3% 1995, 9% avg. Sunflowers 1% very poor, 9% poor, 28% fair, 49% good, 13% excellent. Winter rye 5% planted, 14% 1995, 16% avg. Livestock 1% poor, 13% fair, 71% good, 15% excellent. Stock water supplies 1% very short, 16% short, 77% adequate, 6% surplus.

**TENNESSEE:** Days suitable for fieldwork 4.0. Topsoil 1% very short, 12% short, 79% adequate, 8% surplus. Subsoil 1% very short, 12% short, 80% adequate, 7% surplus. Corn 81% mature, 82% 1995, 57% avg.; 18% grain harvested, 27% 1995, 12% avg.; 68% silage harvested, 89% 1995, 58% avg. Tobacco 94% topped, 93% 1995, 97% avg.; 58% burley harvested, 61% 1995, 62% avg.; 62% air cured harvested, 77% 1995, 65% avg.; 64% dark fire cured harvested, 71% 1995, 64% avg. Sorghum 1% poor, 12% fair, 72% good, 15% excellent; 72% turning color, 92% 1995, 87% avg.; 45% mature, 66% 1995, 48% avg.; 7% harvested, 16% 1995, 11% avg. Pasture feed 1% very poor, 3% poor, 26% fair, 59% good, 11% excellent.

**TEXAS:** Rainfall amounts declined from previous week; however, rainfall over past several weeks has improved soil moisture, allowed many stock tanks catch much needed runoff. Cooler temperatures during week Plains area slowed crop maturity. Harvest operations slowly resuming as conditions allowed. Land preparation very slow as wet fields kept producers mostly idle many Central areas. Tremendous growth, increased greening in pastures nearly all areas occurred during past several weeks. Increased forage will help livestock producers going into fall, winter months. Fly problems still exist some areas.

**Crops:** Small grains land preparation across central areas slow because wet conditions. Planting in Plains slowly resuming. Fields emerging; however, progress slowed some by cooler temperatures. Greenbugs starting to work on emerging fields in plains. 1% emerged, 1% 1995, 2% avg. Corn some harvest resumed in Plains late week. Warmer temperatures needed for crop continue to mature. Harvest completed in most other areas. 59% harvested, 63% 1995, 60% avg. Grain sorghum leaf blight begun show up some fields in Plains where harvest just getting underway early fields. Warmer temperatures also needed for final development. Harvest winding down many north central area fields as conditions allowed. 59% harvested, 67% 1995, 66% avg. Cotton: Recent rainfall in Plains benefitted most fields; however, warmer temperatures now needed. Some isolated dryland fields too far gone for much benefit. Many open bolls sustained damage parts central from too much rain. Regrowth also become problem most fields. Stalk destructions remained slow Coastal Bend where harvest nearing completion. Wet conditions slowed harvest along upper coast. 15% harvested, 18% 1995, 18% avg. Rice harvest operations slowed by continued wet conditions along Upper Coast. Continued wet weather could cause problems; however, current yields, quality have been good. Peanuts: Some early harvest getting underway Plains, north central areas as conditions dried out. Weeds continued a problem some fields. The recent rainfall boosted prospects many south central fields. Soybeans: Rain benefitted crop in Plains. Harvest continued delayed fields north central areas. Harvest also delayed along upper coast.

**Commercial Vegetables:** Rio Grande Valley, melon planting slowed by wet condition some fields. Peppers, cabbage emerging fair stands where water has been available. Recent rainfall increased sizing in orange, grapefruit groves. An increase new growth also occurred. San Antonio-Winter Garden, some land preparation occurred, limited planting underway. East, sweet potato harvest resumed as conditions allowed. High Plains, pumpkins showing good progress with recent moisture.

Trans-Pecos, a few cantaloups remain for harvest. Pecans: Recent rainfall increased insect activity many areas. Spraying operations resumed as conditions allowed.

**Range and Livestock:** Improved growth, greening have occurred most areas state over past few weeks. Armyworms have begun to cause problems because of new growth. The improved grazing conditions also helped improve market. Fall shearing full swing in Edward's Plateau.

**UTAH:** Days suitable for fieldwork 6.7. Topsoil 30% very short, 44% short, 25% adequate, 1% surplus. Subsoil 30% very short, 38% short, 32% adequate. Irrigation water supply 13% very short, 36% short, 51% adequate. Stock water supply 21% very short, 43% short, 34% adequate, 2% surplus. Oats harvested for grain 73%, 86% 1995, 79% avg. Corn in dough stage 67%, 42% 1995; dent stage 24%, 11% 1995; mature stage 4%, 0% 1995, 21% avg.; harvested for silage 3%, 0% 1995, 7% avg. Onions harvested 31%, 21% 1995, 26% avg. Dry beans harvested 5%. Potatoes harvested 18%, 0% 1995, 18% avg. Alfalfa hay 3rd cutting 66%, 44% 1995, 53% avg.; seed harvested 20%, 13% 1995, 35% avg. Peaches picked 81%, 71% 1995, 77% avg. Apples picked 25%, 18% 1995, 14% avg. Pears picked 26%, 58% 1995. Range, pasture feed 13% very poor, 33% poor, 39% fair, 15% good. Cattle moved from summer range 15%, 8% 1995, 16% avg. Sheep moved from summer range 7%, 7% 1995, 12% avg. Major farm, ranch activities: Harvesting grains, alfalfa, onions; fall tillage and planting; picking peaches, pears, apples.

**VIRGINIA:** Days suitable for fieldwork 3.5. Topsoil 20% adequate, 80% surplus. Subsoil 40% adequate, 60% surplus. Corn 88% dough, 1995 95%, 97% avg.; 65% dent, 1995 78%, 77% avg.; 42% mature, 1995 58%, 61% avg.; 5% corn for grain harvested, 1995 22%, 17% avg.; 27% corn silage harvested, 1995 46%, 39% avg.; Soybeans 94% bloomed, 1995 100%, 99% avg.; 72% setting pods, 1995 85%, 87% avg.; 8% poor, 22% fair, 48% good, 22% excellent. Cotton 10% fair, 80% good, 10% excellent. Peanuts 12% poor, 23% fair, 58% good, 7% excellent. Fire cured tobacco 70% harvested, 79% 1995, 73% avg. Flue cured tobacco 52% harvested, 69% 1995, 60% avg. Burley tobacco 35% harvested, 46% 1995, 37% avg. Sun cured tobacco 60% harvested, 68% 1995, 65% avg. Pasture feed 16% fair, 65% good, 19% excellent. Summer apples 85% harvested, 94% 1995, 67% avg. Fall apples 2% harvested, 7% 1995; 4% very poor, 10% poor, 16% fair, 55% good, 15% excellent. Peaches 97% harvested, 99% 1995, 100% avg. Oats 1% seeded, 1% 1995, 1% avg. Activities: Deviation from normal cropping year continues. Hurricane Fran, downgraded to tropical storm, dropped over 14 inches of rain locally. Coupled with flooding rains early week, precipitation from Fran resulted in severe flooding, locally. Downed power lines hampered farm activities relying on electricity. Many flue tobacco growers filled barns in advance of storm. Without electricity, lost crop in barns. Unharvested tobacco damaged by winds, driving rain. Milking operations hampered by loss of electricity. Lodging problems reported in corn. Crop, livestock damage varied greatly by locality. Small grain seeding underway. Sclerotinia problems reported in peanuts. Harvest of corn for grain, silage continues. Tobacco harvest, all types, running behind schedule. Harvesting sweet potatoes, cucumbers, snap beans. Fall tomatoes being tied.

**WASHINGTON:** Days suitable for fieldwork 6.8. Topsoil 2% very short, 41% short, 57% adequate; subsoil 39% short, 61% adequate. Winter wheat, dryland 3% poor, 6% fair, 75% good, 16% excellent; irrigated, 100% good. Barley, dryland 10% poor, 19% fair, 52% good, 19% excellent; irrigated, 100% good. Spring wheat, dryland 4% very poor, 11% poor, 26% fair, 54% good, 5% excellent; irrigated, 100% good. Winter wheat 99% harvested, 95% 1995, 97% avg. Spring wheat 93% harvested, 92% 1995, 91% avg. Barley 90% harvested, 93% 1995, 91% avg. Potatoes 27% harvested, 22% 1995, 23% avg. Potatoes 100% good. Hops, alfalfa seed, mint harvests continued. Buckwheat

was blooming. Hay, other roughage supplies, 97% adequate, 3% surplus. Range, pasture feed, 2% poor, 35% fair, 57% good, 6% excellent. Alfalfa 3rd cutting 80%, 97% 1995, 78% avg. East of the Cascades, fruit harvest was in full swing. Golden Delicious, Gala apples were being picked. Pear harvest was winding down as juice, wine grapes were coming on. Lima beans, sweet corn, onions were being harvested. West of the Cascades, blueberry, blackberry harvests continued with some areas winding down. Cranberries were nearing maturity and apple harvest was underway. Green beans, sweet corn, lettuce, squash, celery were being harvested. Flower bulbs were being dug.

**WEST VIRGINIA:** Days suitable for fieldwork 4.3 Topsoil 6% short, 71% adequate, 23% surplus. Flooding occurred in eastern areas of the State due to remnants of Hurricane Fran. Winter Wheat 3% planted, 2% 1995. Hay 4% poor, 21% fair, 69% good, 6% excellent; 2nd cutting 84%, 88% 1995, 79% avg.; 3rd cutting 31%, 49% 1995, 61% avg. Producers made good progress making hay despite rain from Hurricane Fran. Corn 6% fair, 83% good, 11% excellent; 81% dough stage, 86% 1995, 86% avg.; 52% dent stage, 62% 1995; 15% mature stage, 39% 1995, 50% avg. Deer damage to corn reported. Oats 100% harvested, 91% 1995, 98% avg. Soybeans 2% poor, 23% fair, 68% good, 7% excellent; 96% setting pods, 94% 1995; 13% dropping leaves, 24% 1995. Tobacco 19% poor, 45% fair, 35% good, 1% excellent; 96% topped, 100% 1995, 97% avg.; 45% harvested, 62% 1995, 56% avg. Due to previous floods, growing conditions and presence of Blue Mold, some tobacco producers are facing major losses. Harvesting continued where conditions allowed. Cattle 9% fair, 84% good, 7% excellent. Treated cattle for pink eye. Sheep 9% fair, 88% good, 3% excellent. Apples 93% fair, 7% good. Harvesting of apples continued. Activities: Cutting and baling hay; harvesting tobacco; clipping pastures, brush hogging and equipment maintenance.

**WISCONSIN:** Days suitable for fieldwork 6.7. Soil moisture 38% very short, 36% short, and 26% adequate. Corn is making good progress, where moisture is available. Areas of corn planted in lighter soils were under stress from dry weather. Farmers have begun chopping corn for silage in the southwest, west central, Central districts. Pasture feed conditions were rated 10% very poor, 35% poor, 29% fair, 25% good, 1% excellent. Fall pastures looked brown, short due to very little rain statewide. As of September 8, 3rd crop hay had been 60% completed, three days ahead of last year and compared to 52% avg. Most of the 3rd crop hay cut was good quality, but quantity varied. Some 3rd crop on lighter ground had wilted from the dry weather. Soybean acreage was 84% setting pods (compared to 91% 1995), 15% of the acreage showed a change in the color of the leaves (compared to 32% 1995 and the 31% avg.). Several reporters noted that the beans were mostly turning yellow from lack of moisture. Soybean 3% very poor, 11% poor, 30% fair, 47% good, 9% excellent. Winnebago and Rock counties reported winter wheat being planted. A couple of reporters in the south central district wrote that there were no apples to be seen. However, a reporter in Sauk County reported that the apple crop will be good. Lima bean harvest was in full swing in Walworth County.

**WYOMING:** Days suitable for fieldwork 6.6. Topsoil 22% very short, 62% short, 16% adequate or surplus. Subsoil 19% very short, 66% short, 15% adequate or surplus. Barley 90% harvested, 87% 1995, 85% avg. Oats 75% harvested, 72% 1995, 73% avg. Spring wheat 90% harvested, 68% 1995, 75% avg. Dry beans 75% windrowed, 47% 1995, 50% avg.; 35% combined, 20% 1995, 19% avg. Corn 99% dough, 82% 1995, 80% avg.; 57% dented, 24% 1995, 42% avg.; 25% silage harvested, 6% 1995, 16% avg. Alfalfa 2nd cutting 92% harvested, 80% 1995, 85% avg.; 3rd cutting 18%, 12% 1995, 20% avg. Winter wheat seeded for 1997 harvest 53%, 50% 1995, 43% avg.; 14% emerged, 11% 1995, 11% avg. Range, pasture feed 1% very poor, 10% poor, 52% fair, 37% good.

# International Weather and Crop Summary

September 1 - 7, 1996

## HIGHLIGHTS

**FSU-WESTERN:** Light to moderate showers in traditional winter wheat producing areas of Ukraine and southern Russia eased prolonged dryness, improving topsoil moisture for planting.

**FSU-NEWLANDS:** Mostly dry weather favored spring grain harvesting in Kazakhstan, while continued cool, showery weather in Russia slowed harvesting.

**EUROPE:** Dry weather favored harvest activities in the west and north.

**CANADA:** Cool, showery weather hampered Prairie spring grain and oilseed harvesting.

**EASTERN ASIA:** Rain slowed summer crop harvesting across northern China, while drier, sunnier weather favored rice development and harvesting across southern China.

**SOUTH ASIA:** Warmer, drier weather favored central India's soybeans much of the week, but the region's groundnuts needed additional rain.

**SOUTHEAST ASIA:** Typhoon Sally brushed the northern Philippines, producing seasonable rain and only isolated flooding. Showers continued to benefit grains and sugarcane in Thailand.

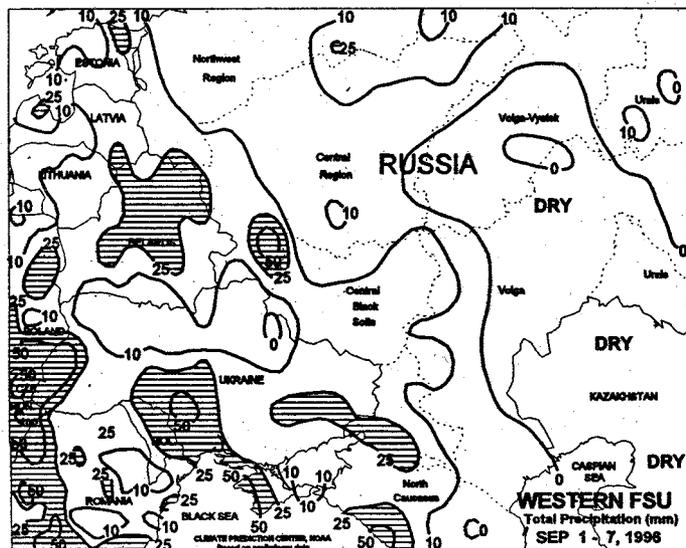
**AUSTRALIA:** Dry, but cooler, weather in the east slowed winter grain development.

**SOUTH AMERICA:** In Argentina, cool weather continued to stress winter wheat. Widespread rain benefited winter and summer crops across southern Brazil.

**MEXICO:** Showers prevailed across most of Mexico, favoring corn and pastures.

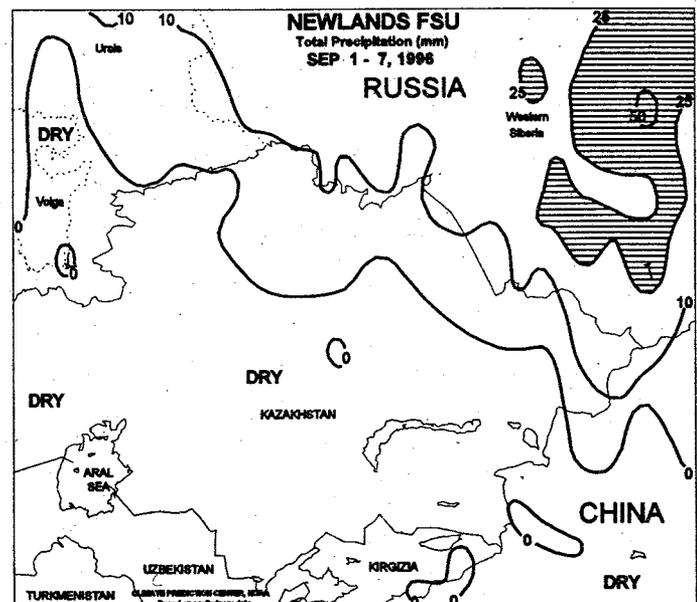
### FSU-WESTERN

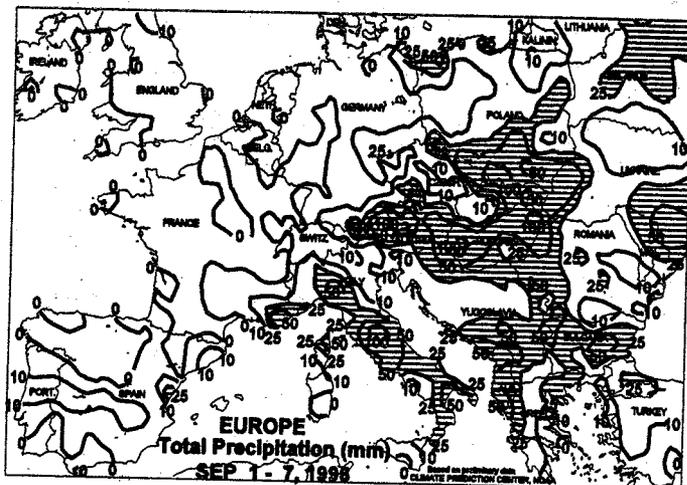
In Russia, winter grain planting was typically progressing southward, while corn and sunflower harvesting was just getting underway. Mostly dry weather over the eastern portion of the Central Region, the Volga Vyatsk, and the upper Volga Valley continued to limit moisture for germination. Light to moderate showers (8-34 mm) over the Central Black Soils Region, lower Volga Valley, and the North Caucasus increased topsoil moisture for winter wheat planting and caused only brief delays in early corn and sunflower harvesting. In Ukraine, light to moderate rain (10-63 mm) helped to ease prolonged dryness over the southern half of the country, increasing topsoil moisture for winter wheat planting, which typically progresses southward in September. Elsewhere, increasing shower activity (10-25 mm, with local amounts in excess of 50 mm) over Belarus and the Baltics slowed summer crop harvesting but increased topsoil moisture for emerging winter grains. Weekly temperatures averaged 2 to 6 degrees C above normal over Russia, and 1 to 3 degrees C above normal over Ukraine, Belarus, and the Baltics.



### FSU-NEWLANDS

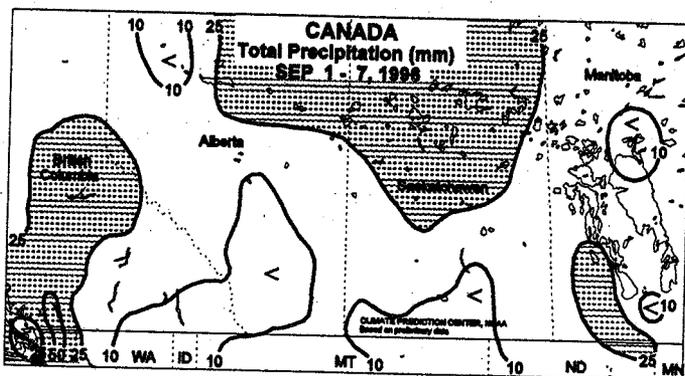
The bulk of spring grains are typically harvested in Russia and Kazakhstan during September. In Kazakhstan, mostly dry weather favored harvest activities. In Russia, generally dry weather prevailed over the Urals, helping the harvest. However, cool, showery weather continued to prevail over West and East Siberia, likely causing harvest delays. Precipitation amounts in these areas ranged from 10 to 25 mm, with local amounts in excess of 40 mm. Furthermore, weekly temperatures averaged 2 to 5 degrees C below normal, slowing grain maturation. In cotton areas of central Asia, unseasonably cool weather slowed boll maturation. The cotton harvest typically begins in late-September and continues into November.





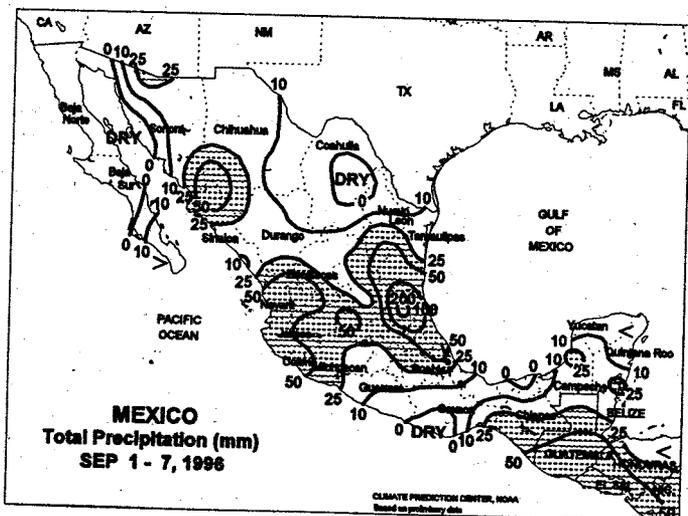
**EUROPE**

Mostly dry weather prevailed over western and northern Europe, helping harvest activities. Although the wheat harvest was virtually complete in France and Germany, reports indicated a large portion of the crop remained to be harvested in the United Kingdom. Corn harvest advanced without delay in southern Spain and was just beginning in southwestern France. The corn harvest in France typically gets into full swing in October. In eastern Europe, frequent showers and thunderstorms (15-50 mm) fell from southern Poland, southward through Hungary and Romania, into Bulgaria. Although the rain slowed early summer crop harvesting, it provided abundant topsoil moisture for winter grain planting, which typically occurs in September.



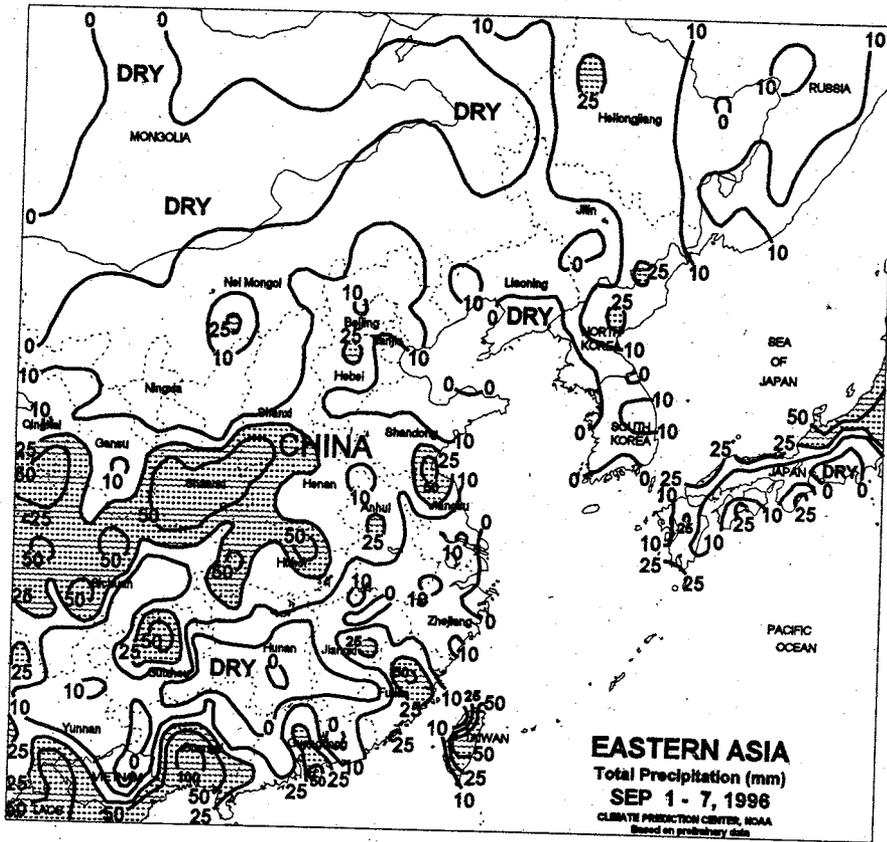
**CANADA**

Cool, showery weather pushed across the Prairies, slowing harvest of spring grains and oilseeds. The rain ushered in the first cool air mass of autumn, with lows reaching 1 to 3 degrees C throughout the region. Although frost was likely, freezing temperatures were limited to extreme northern and western growing areas. The first freeze of autumn usually occurs about now in the western Prairies. Rainfall totaled 10 to 25 mm at most locations, with heaviest 1-day totals (25-35 mm) recorded in Manitoba. These showers, accompanied by local high winds, likely contributed to some lodging. In Ontario, showers (25 mm or greater) from the remnants of Hurricane Fran fell in southern crop areas. The rain ended what had been a generally favorable period for corn and soybean maturation and late winter grain harvesting.



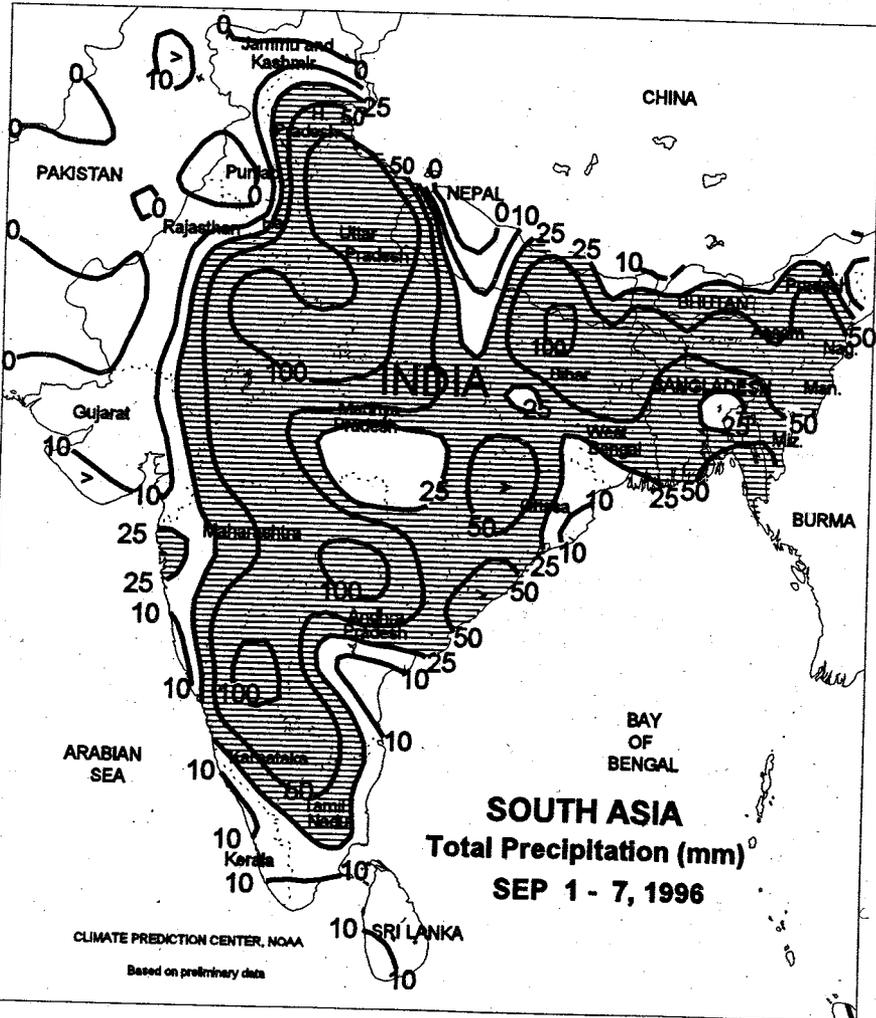
**MEXICO**

Seasonable showers (15-50 mm) covered the Southern Plateau corn belt, aiding filling corn. Moderate showers (25-90 mm, with isolated amounts greater than 200 mm) boosted reservoir levels, favoring sugarcane and citrus in northern and southern Veracruz. Across northern Mexico, light to moderate rain (5-25 mm) favored pastures and further eased long-term moisture deficits, with locally heavy showers (greater than 50 mm) in the northwest. Temperatures averaged near normal across the main corn belt and 1 to 2 degrees C below normal across the northwest.



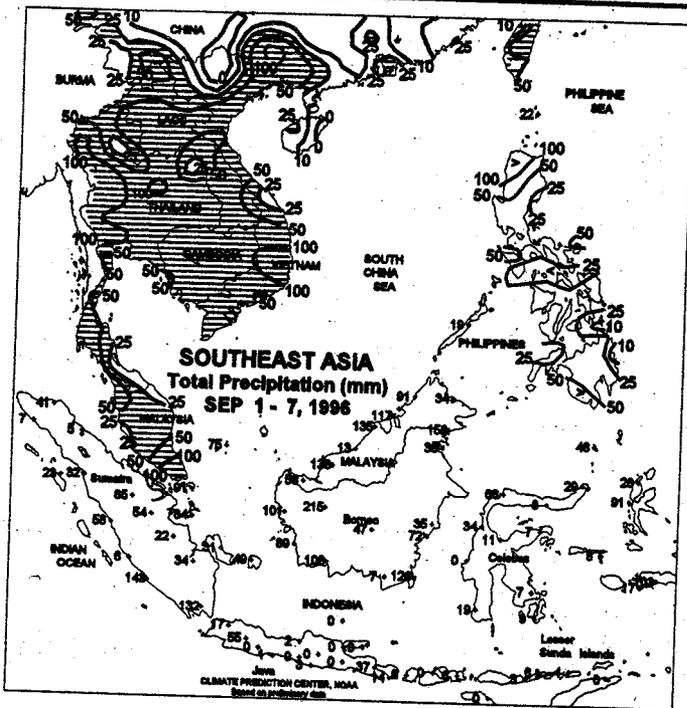
**EASTERN ASIA**

Light to moderate rain (5-30 mm) slowed summer crop harvesting across Manchuria and the North China Plain. Heavier rain (30-75 mm) possibly delayed harvesting across southern Shaanxi, Hubei, and central Sichuan. Drier, sunnier weather (widely scattered showers of 10-50 mm) prevailed across southern China, favoring single-crop rice harvesting and late double-crop rice development. Isolated heavy showers (100-140 mm) fell in southern Guangxi. Temperatures averaged 1 to 3 degrees C below normal across northern and northeastern China, while near-normal temperatures prevailed elsewhere in China. Mostly dry weather (less than 10 mm of rain) aided rice maturation and early harvesting in the Korean Peninsula and central Japanese rice areas. However, rainy, cool weather (25-60 mm of rain; 1-2 degrees C below-normal temperatures) slowed rice maturation in northern Japan.



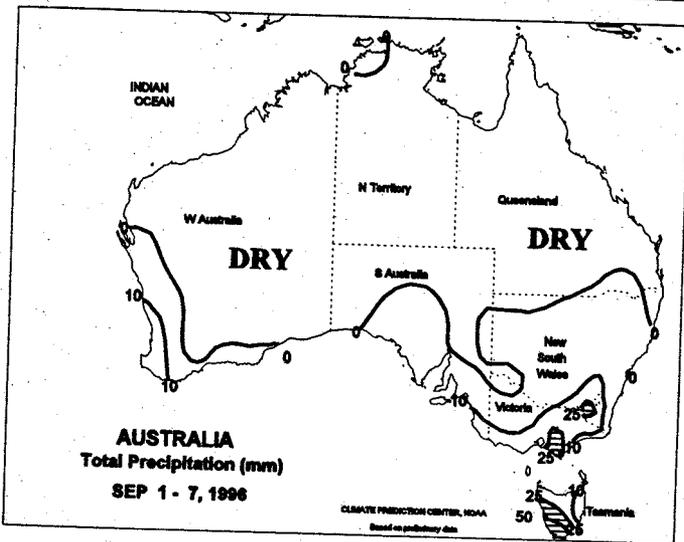
**SOUTH ASIA**

Warm, drier weather most of the week in central India favored development of soybeans, cotton, and coarse grains that had been unfavorably wet. Variable showers (1-day totals as high as 50 mm) returned at week's end. However, in the groundnut basin of Gujarat, topsoils have become unfavorably dry, requiring additional moisture prior to the end of the monsoon season. Elsewhere, locally heavy showers (25-100 mm or more) continued over India's southern interior, and returned to north-central India's main rice areas after a brief respite.



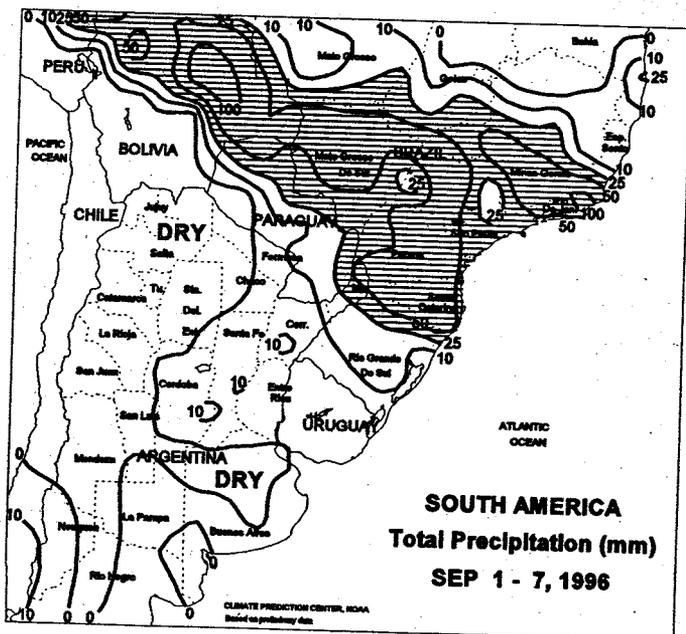
**SOUTHEAST ASIA**

Typhoon Sally brushed northern Luzon, Philippines on September 7, helping to produce seasonable rain (30-90 mm, with isolated amounts greater than 125 mm) and only isolated flooding. Across the central Philippines, moderate showers (15-60 mm) favored rice and sugarcane. Typically, main season rice harvesting begins in early to mid-September and extends to mid-December. Moderate showers (15-60 mm) slowed rice harvesting across northern and southern Vietnam. By week's end, Sally approached northern Vietnam. Seasonal showers (35-80 mm) covered Thailand, aiding rice and sugarcane. Lighter showers (15-40 mm) prevailed across peninsular Malaysia, where moisture has been adequate for oil palm. In Java, showers (10-50 mm) favored second-crop rice in the west and east, while dry weather prevailed across the central portions of the island.



**AUSTRALIA**

Cooler, drier weather dominated the eastern winter grain belt, with temperatures averaging 1 to 3 degrees C below normal from South Australia to Queensland. Patchy frost was likely in southern Queensland, hampering development of grains in or nearing reproduction. Despite the recent coolness, sorghum and cotton planting should pick up due to favorable moisture. Temperatures averaged near normal in the west. Rainfall totaled 10 mm or less over the nation's major agricultural areas. In New Zealand, moderate to heavy showers (25-50 mm or more) fell along western and northern coastal areas, but rainfall remained generally light over pasture areas of eastern South Island and southern North Island.



**SOUTH AMERICA**

In central Argentina, mostly dry, cool weather continued to stress winter wheat. Light rain (4-11 mm) fell across central Cordoba and southern Santa Fe, aiding heading winter wheat. Widespread rain is needed during the next several weeks as the crop enters the moisture-sensitive reproductive stage. Minimum temperatures were below freezing from southern Cordoba and southern Santa Fe southward, burning back vegetative wheat, but stressing and possibly damaging early reproductive wheat in the north (Cordoba and Santa Fe). In southern Brazil, widespread rain (15-60 mm) covered the major crop areas, aiding filling wheat and boosting soil moisture for flowering citrus and coffee.

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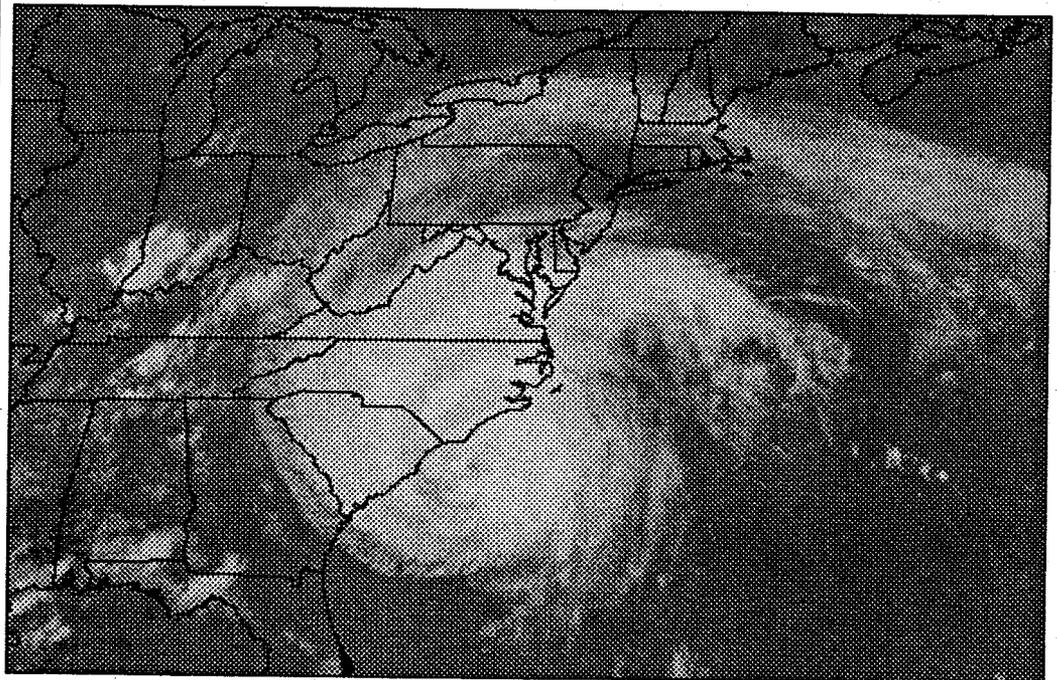
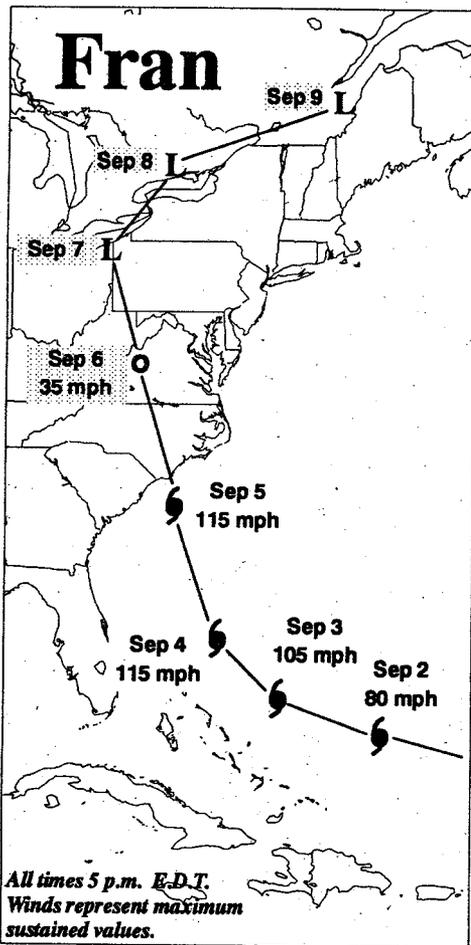
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**Hurricane Fran, 2 hours before landfall.**  
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