

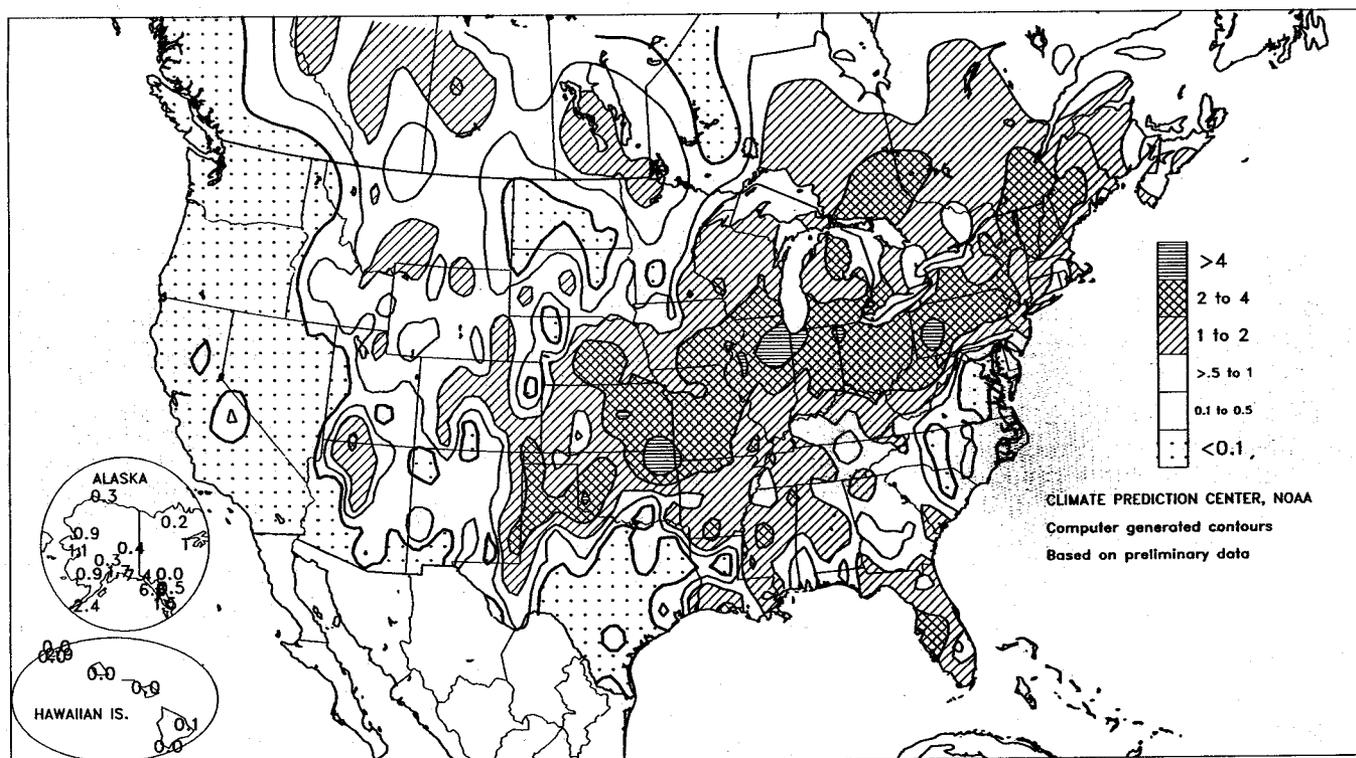
# WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Weather Service

U.S. DEPARTMENT OF AGRICULTURE  
National Agricultural Statistics Service  
and World Agricultural Outlook Board

Total Precipitation (Inches)

AUG 10 - 16, 1997



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

## HIGHLIGHTS

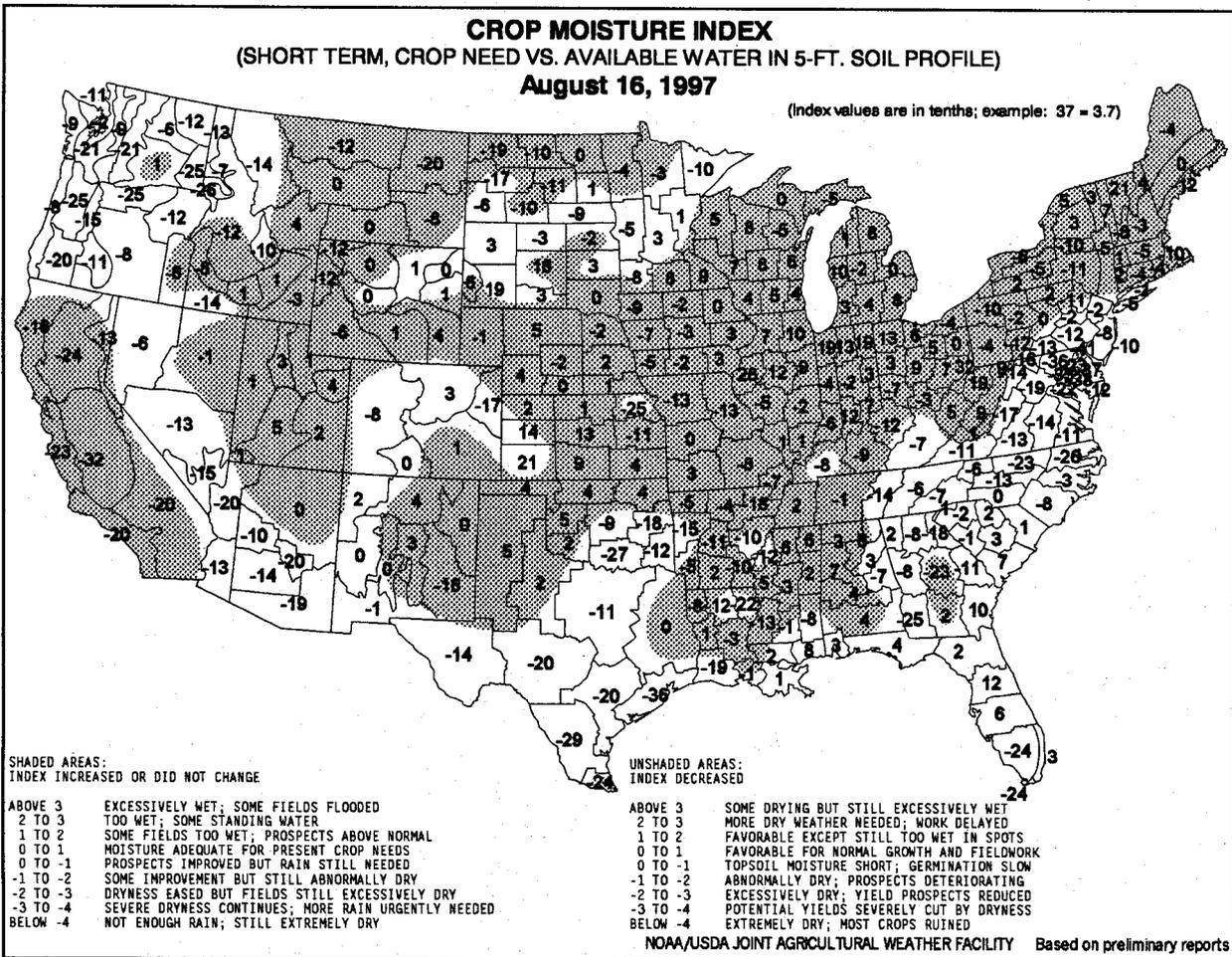
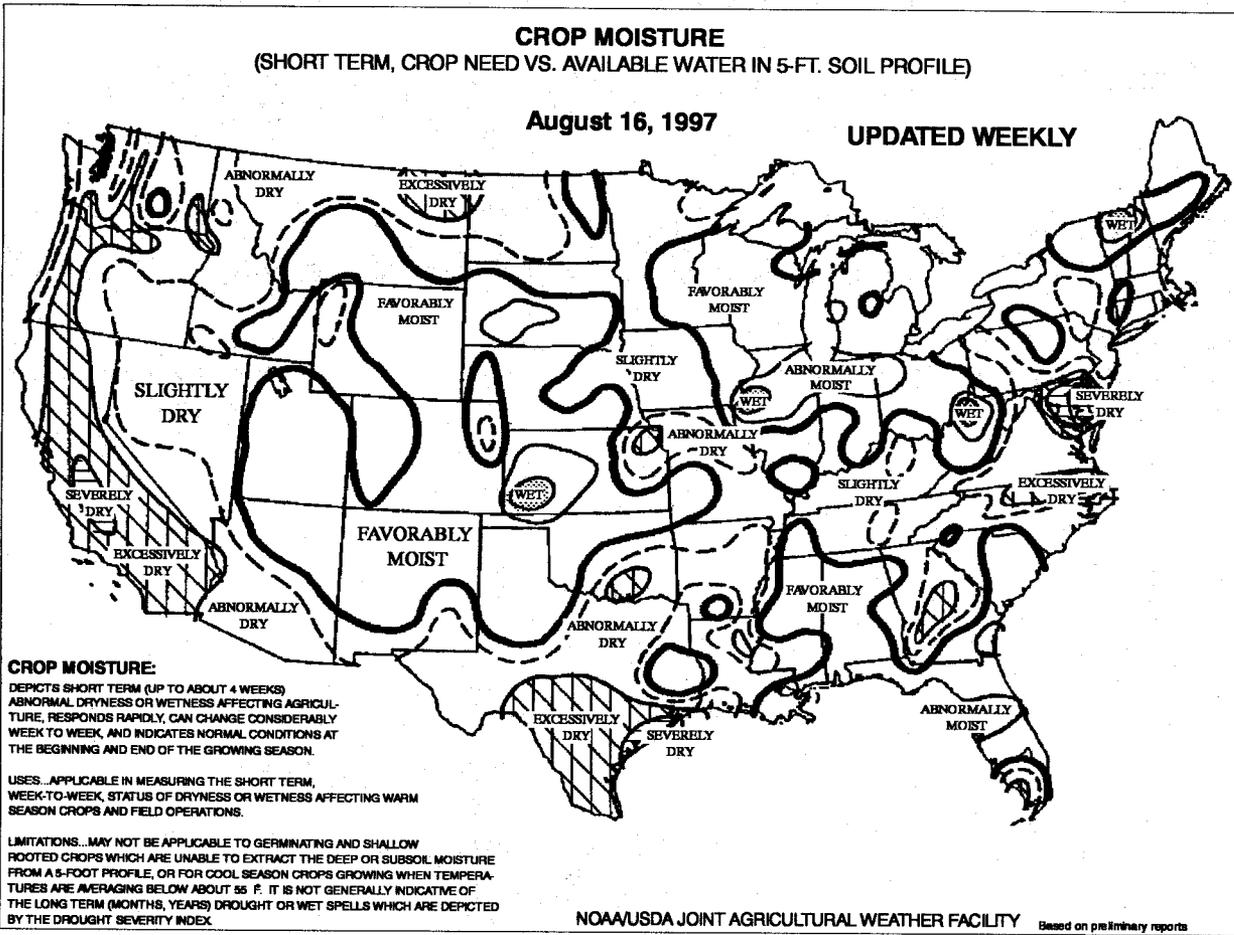
August 10 - 16, 1997

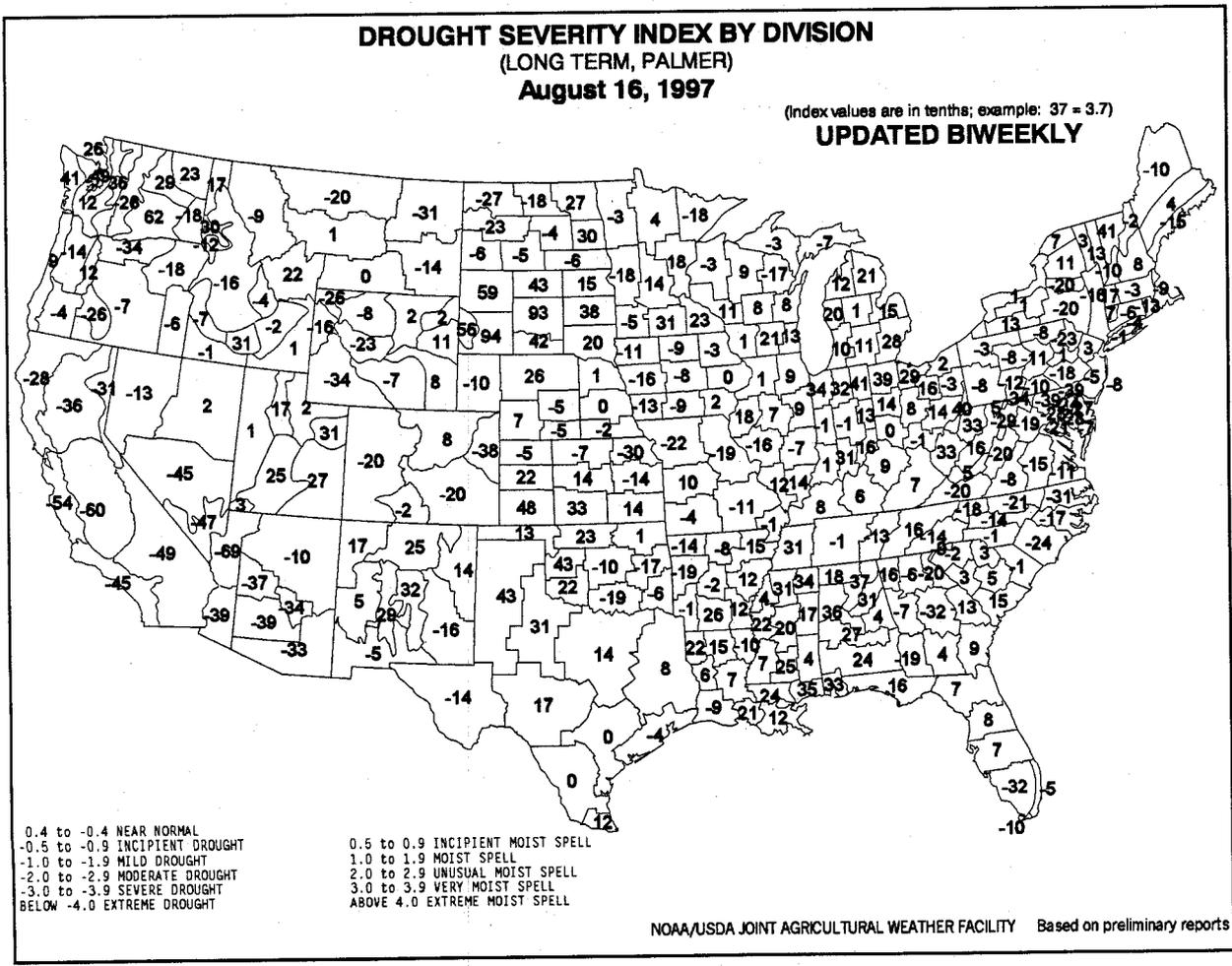
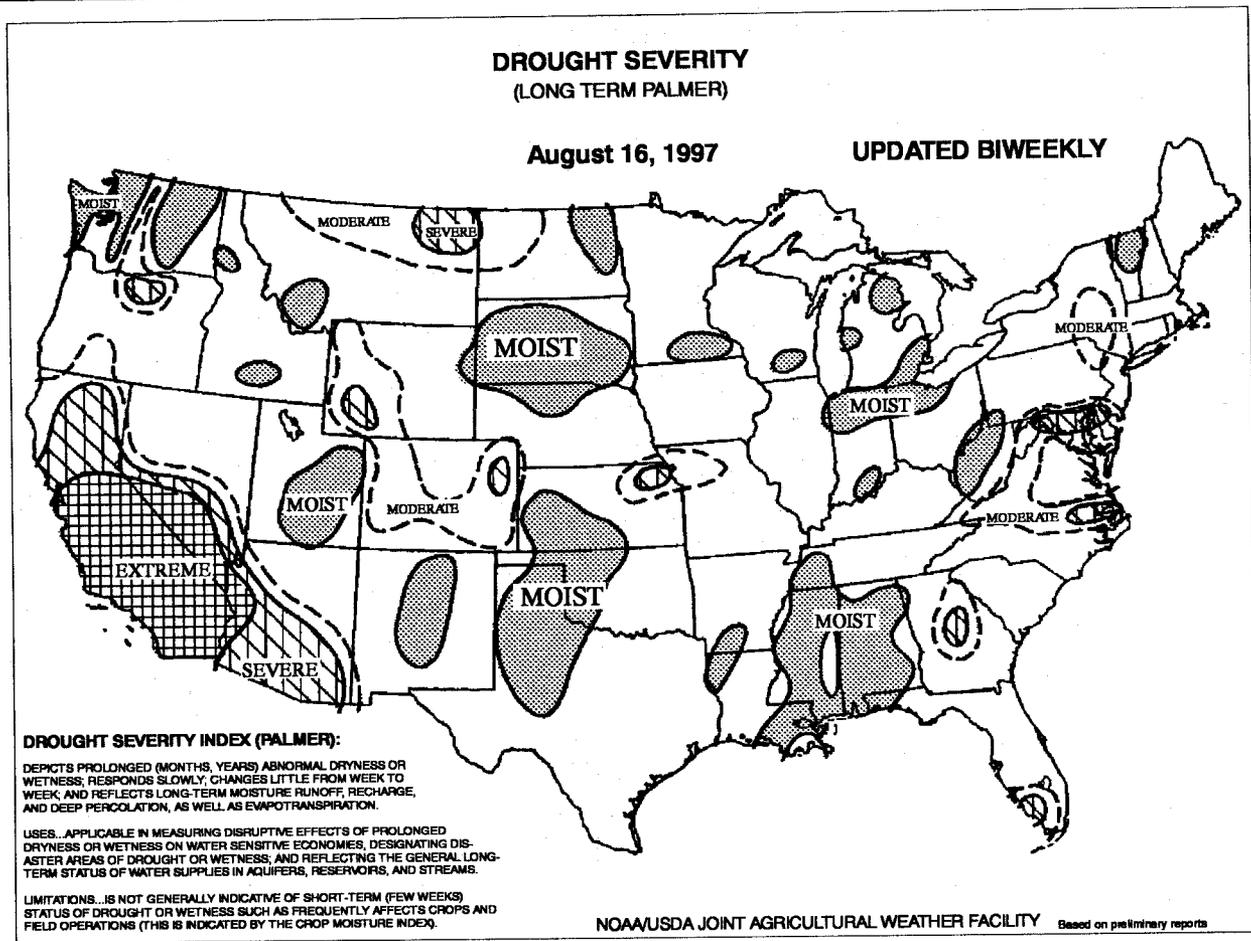
**H**ighly beneficial rains replenished soil moisture across the central Corn Belt, boosting crop prospects. Farther east, scattered showers eased drought in the northern Mid-Atlantic region, although dry pockets remained. Maxima remained generally below crop-stress thresholds (lower to middle 90's) in the central Corn Belt, but soared into the 90's to lower 100's in the Mid-Atlantic States at week's end. Weekly temperatures averaged 5 to 10°F below normal in the northern Plains and upper Midwest, but were near normal in the central Corn Belt and up to 5°F above normal in the Mid-Atlantic region. Hot weather also

*(Continued on page 7)*

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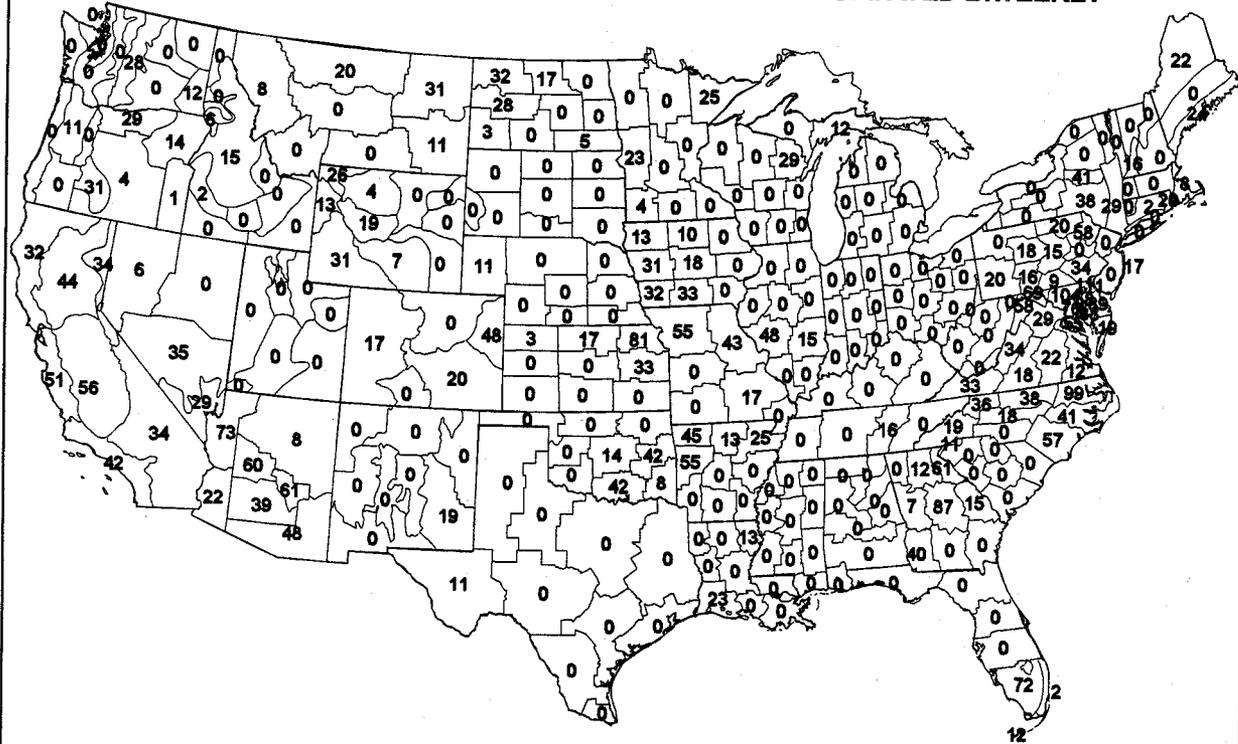
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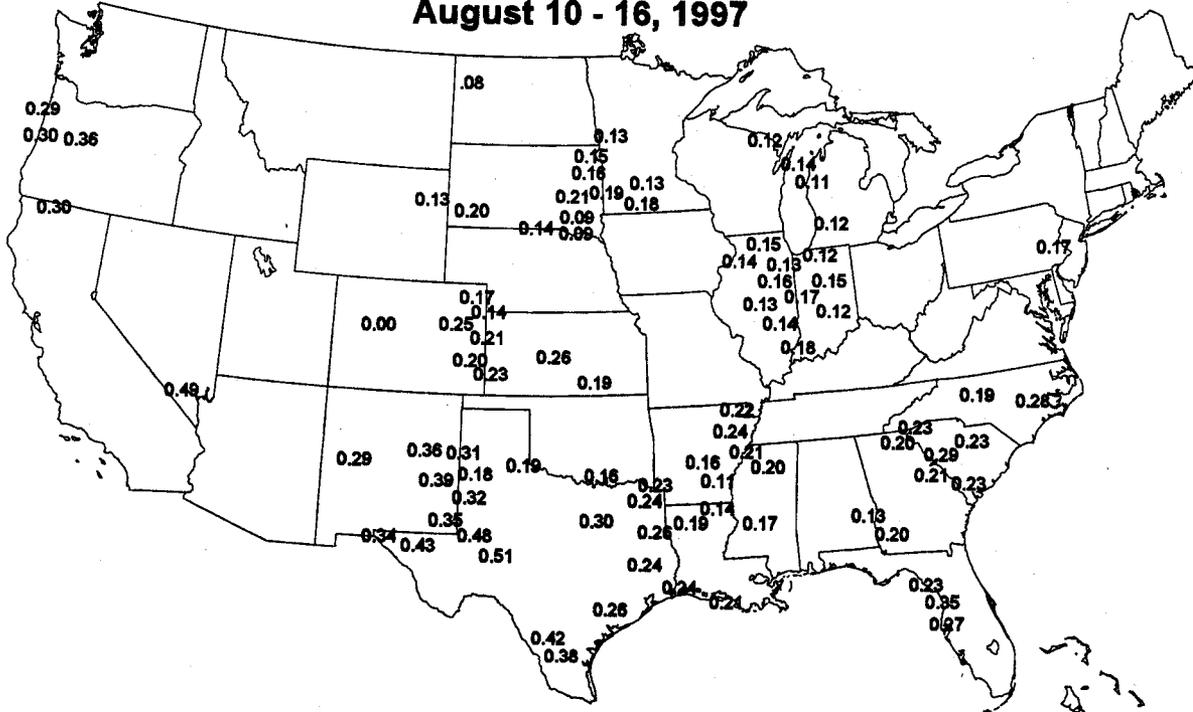
**ADDITIONAL PRECIPITATION NEEDED TO BRING INDEX NEAR ZERO**  
(LONG TERM, PALMER)  
August 16, 1997

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



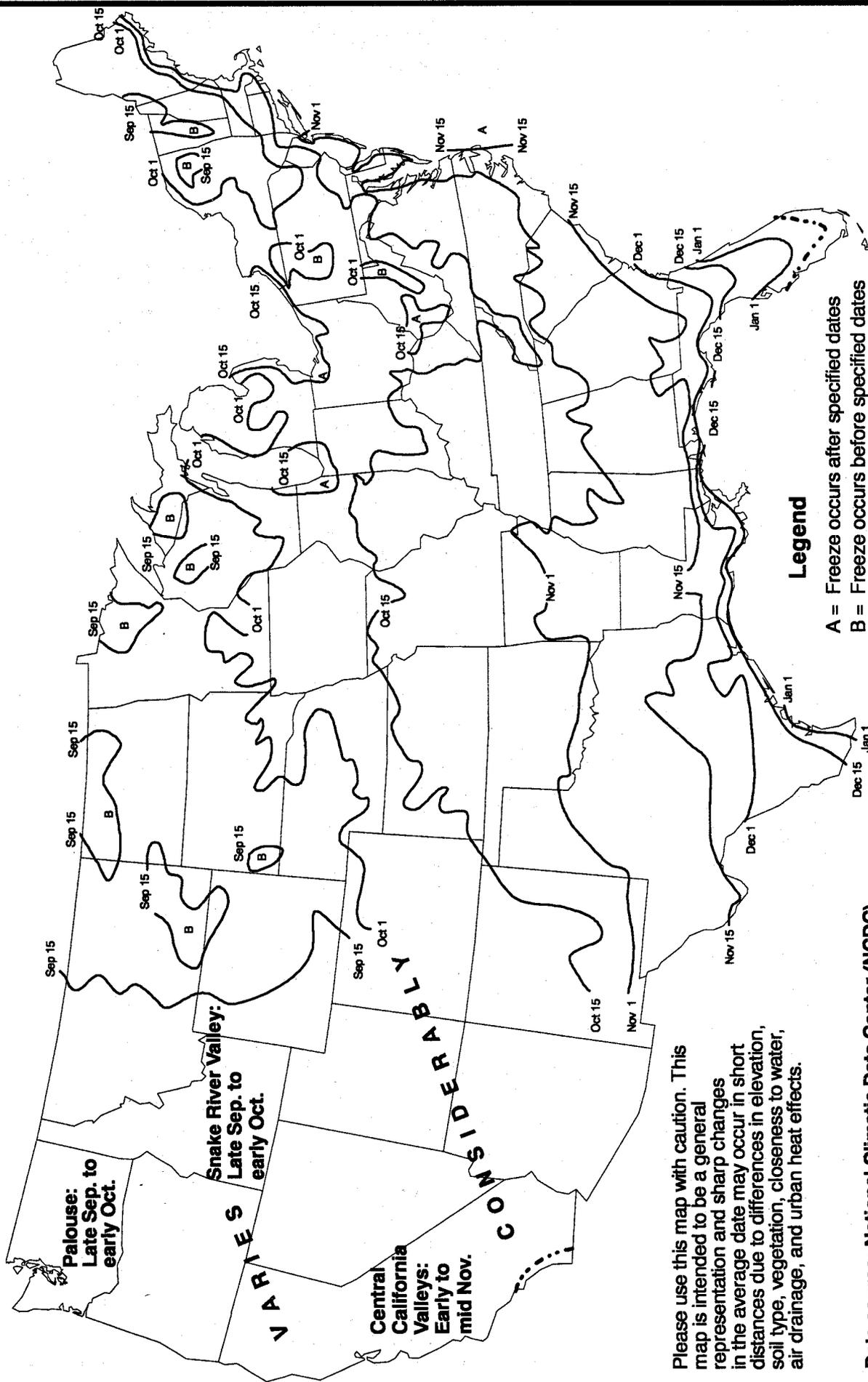
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

**Average Pan Evaporation (Inches/Day)**  
August 10 - 16, 1997



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY  
Based on preliminary data

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

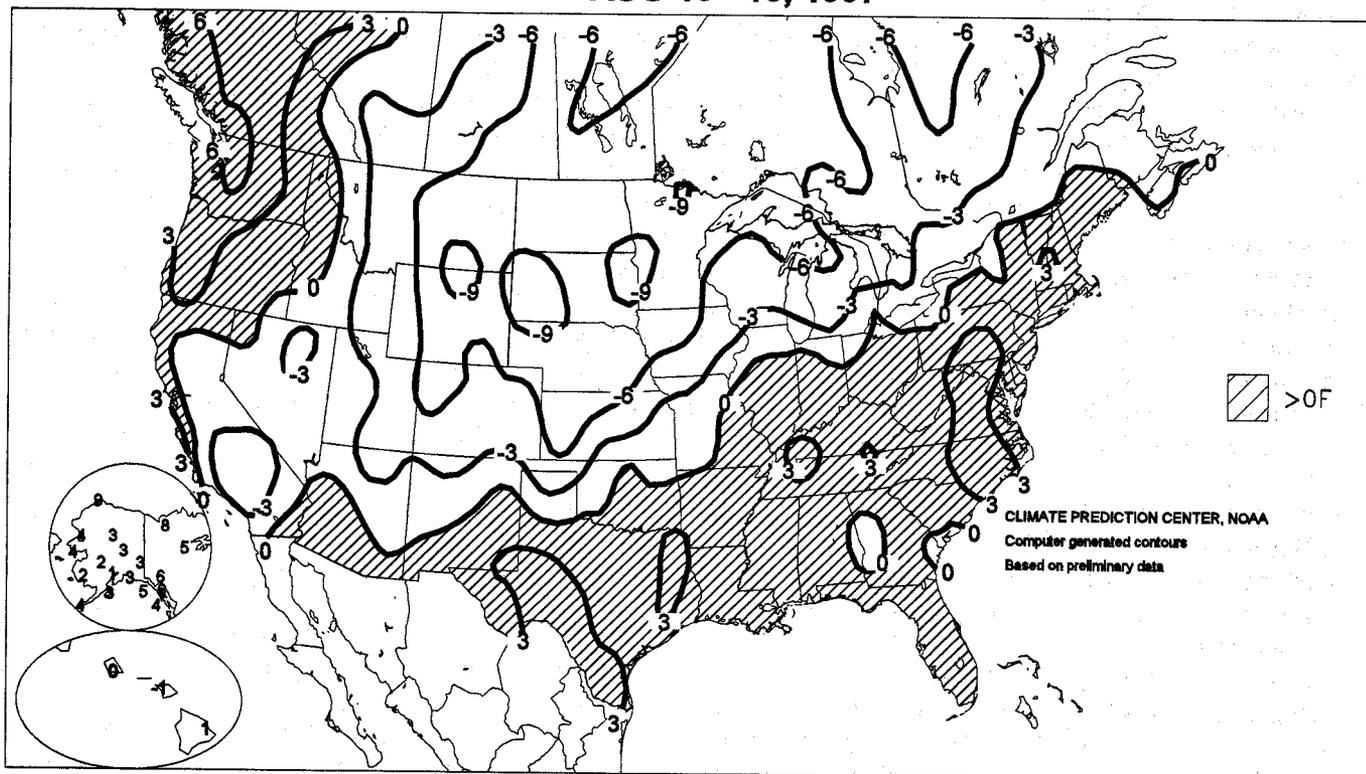


Please use this map with caution. This map is intended to be a general representation and sharp changes in the average date may occur in short distances due to differences in elevation, soil type, vegetation, closeness to water, air drainage, and urban heat effects.

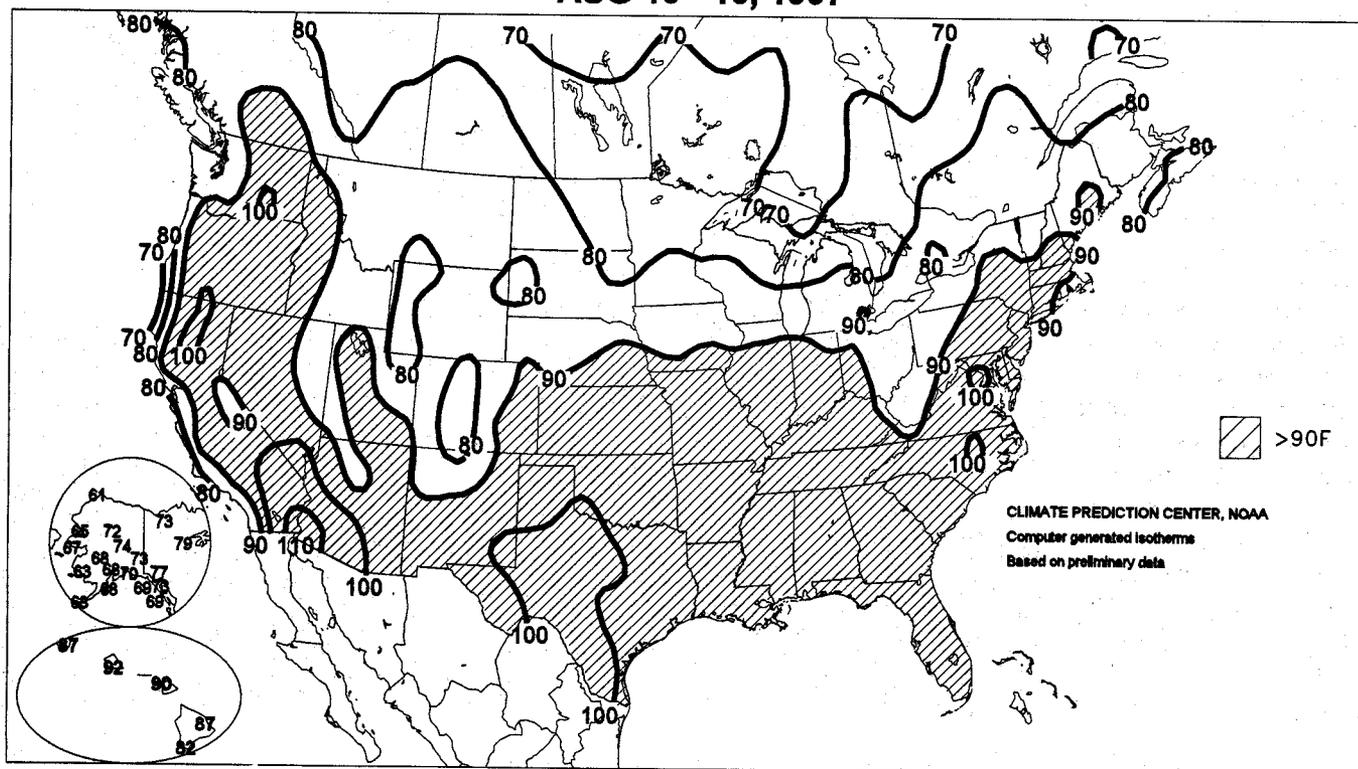
Data source: National Climatic Data Center (NCDC)  
Co-operative station data 1951-80.

Analysis by Joint Agricultural Weather Facility (NOAA/USDA).

### Departure of Average Temperature from Normal (°F) AUG 10 - 16, 1997



### Extreme Maximum Temperature (°F) AUG 10 - 16, 1997



(Continued from front cover) prevailed in the **Pacific Northwest** and across **southern Texas**. In the **Southwest**, monsoonal thunderstorms continued to produce torrential rainfall and localized flooding.

Early in the week, very cool air overspread the **Western and Central States**. On Sunday, lows in **Montana** dipped to 36°F in **Havre** and 38°F in **Glasgow**. Highs failed to reach 60°F as far south as **Scottsbluff, NE** (59°F). A day later, maxima in **Nebraska** included 60°F in **Norfolk** and 59°F in **Grand Island**. Heavy rain accompanied the cool weather in parts of the **Midwestern and Plains States**. On Monday, **Grand Island** netted a daily-record total of 3.22 inches. A day later, **Ft. Wayne, IN** (1.48 inches) collected a daily-record amount.

In **Moline, IL**, the August 1-17 rainfall of 6.10 inches easily topped their June-July total of 4.38 inches. Similarly, **Peoria, IL** recorded 4.43 inches during the first 17 days of August, but only 2.29 inches during all of June and July. On August 12, a 0.46-inch total in **Indianapolis, IN** was their first measurable rainfall since July 27 and greatest 1-day total since 0.58 inch fell on June 25. Farther east, drought persisted despite scattered thunderstorms. Through August 17, year-to-date rainfall remained as low as 15.29 inches (58 percent of normal) in **Wilmington, DE** and 17.13 inches (67 percent) in **Williamsport, PA**. Meanwhile, short-term rainfall deficits began to accumulate in the **southern Atlantic States**. In **North Carolina**, where mostly dry weather arrived after

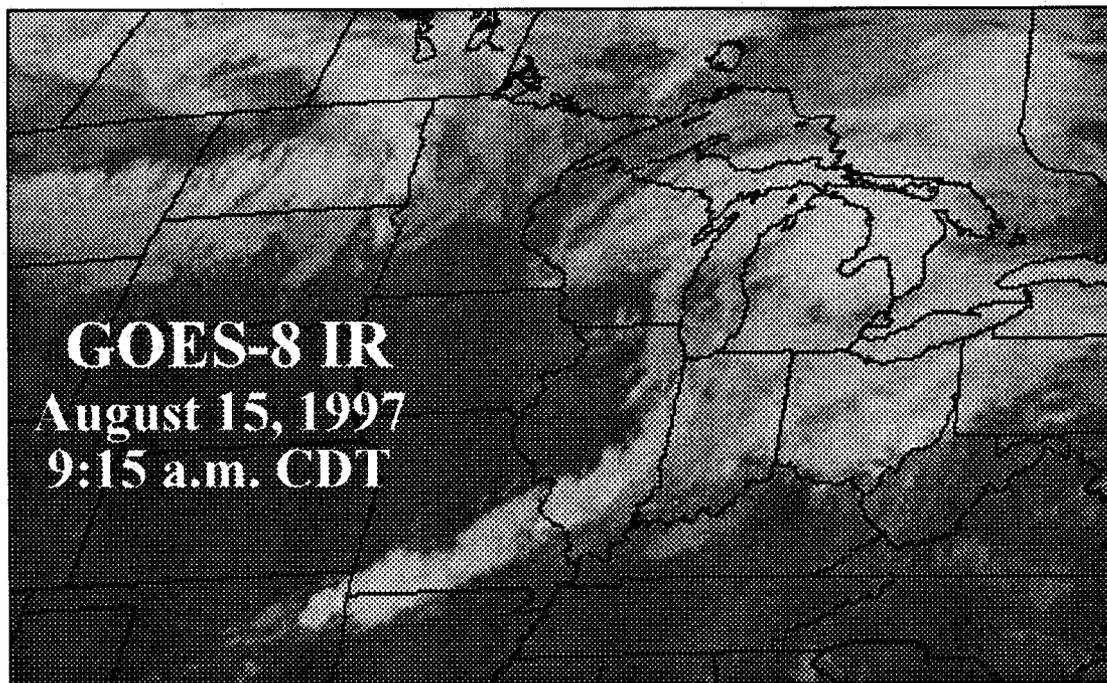
**Danny's** passage in July, **Raleigh-Durham's** August 1-17 rainfall was 0.35 inch (16 percent of normal).

Although heavy rain persisted on the **central and southern Plains**, dry conditions continued to grip **southern Texas**. On **Texas' High Plains**, **Amarillo's** year-to-date rainfall surpassed their annual normal of 19.56 inches on Wednesday. Farther south, however, **Corpus Christi** last received a 1-day rainfall greater than 0.15 inch on June 17. On Saturday, highs reached triple digits for the first time this year in **San Antonio** and **Abilene**. Last year, during the drought of 1995-96, **San Antonio** recorded maxima at or above 100°F on 25 days between February 21 and August 12.

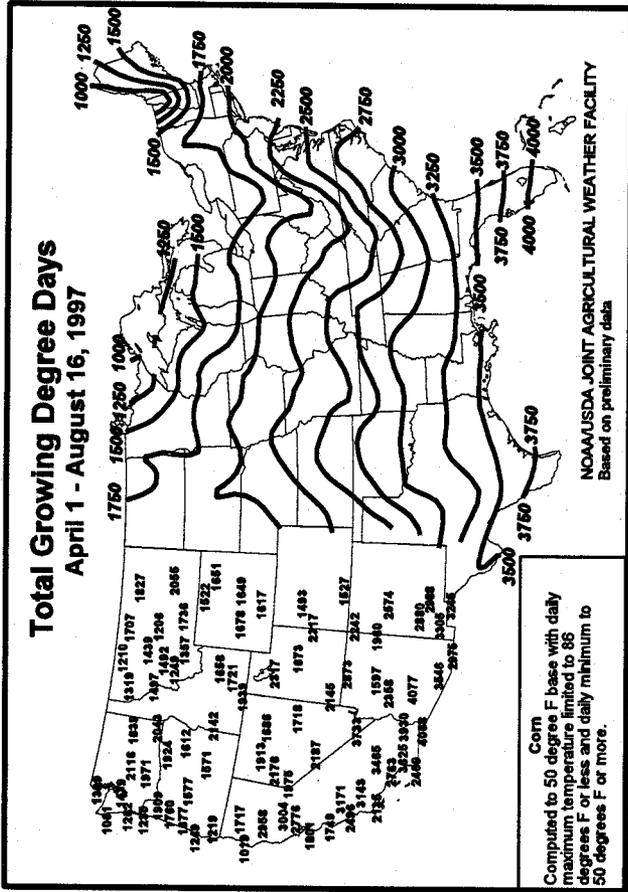
Very hot weather arrived in the **East** at week's end. In **Florida**, **Daytona Beach** posted consecutive daily-record highs of 95°F on August 14-15. Farther north, highs on Saturday of 102°F in **Washington, DC** and 101°F in **Baltimore, MD** were among a half-dozen daily records. **Philadelphia's** daily record of 98°F was their first high at or above 90 degrees this month. In contrast, **Embarrass, MN** reported a low of 26°F on Wednesday. **International Falls, MN** logged daily-record lows on Monday (36°F), Wednesday (33°F), and Thursday (35°F).

In **Arizona**, flash flooding on Tuesday killed 11 people near **Page**. Two days earlier, hundreds near **Supai** were evacuated as floodwaters rolled through the **Havasupai Indian Reservation**. The flooding was caused by monsoonal thunderstorms, which locally dumped as much as 2 to 4 inches of rain in very short periods of time across the **Four Corners States**.

Warm weather (weekly temperatures 1 to 9°F above normal) dominated **Alaska**, but rain fell across western and southern areas. Near- to above-normal temperatures prevailed in **Hawaii**, including an August-record-tying high of 93°F in **Honolulu** on Thursday. However, **Honolulu** also notched a pair of daily-record lows, including a minimum of 69°F on Wednesday. Significant rainfall was confined to the westernmost islands.



**Stormy weather:** A late-week line of thunderstorms moves through the **Corn Belt**, delivering additional rainfall. Meanwhile, a cold front sweeps southeastward across the **northern Plains**.



# National Weather Data for Selected Cities

Weather Data for the Week Ending August 16, 1997

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN. SINCE JUN 1	PCT. NORMAL SINCE JUN 1	TOTAL IN. SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	92 AND BELOW	TEMP. °F		PRECIP.	
																		01 INCH OR MORE	50 INCH OR MORE	01 INCH OR MORE	50 INCH OR MORE
AL BIRMINGHAM	90	71	93	67	81	1	2.07	1.28	1.69	13.69	123	37.53	102	97	60	5	0	2	1		
AL HUNTSVILLE	88	70	93	64	79	0	0.47	-0.30	0.31	9.82	82	36.50	97	97	66	2	0	2	0		
AL MOBILE	92	75	94	73	83	1	0.12	-1.47	0.11	27.71	178	58.94	139	93	57	7	0	2	0		
AL MONTGOMERY	93	72	96	70	82	1	0.11	-0.71	0.08	6.90	62	30.72	86	98	55	5	0	3	0		
AK ANCHORAGE	63	52	68	48	58	1	1.74	1.20	0.73	4.05	100	6.08	78	98	71	0	0	6	1		
AK BARROW	55	40	61	32	47	9	0.32	0.10	0.15	2.19	125	2.43	98	97	78	0	1	3	0		
AK FAIRBANKS	69	52	74	49	61	3	0.41	-0.06	0.16	2.63	61	3.38	52	92	54	0	0	6	0		
AK JUNEAU	68	54	73	48	61	6	-	-	-	-	-	-	96	66	0	0	-	-			
AK KODIAK	65	52	68	49	58	3	0.54	-0.57	0.50	5.20	48	37.92	100	95	64	0	0	4	1		
AK NOME	58	51	67	47	55	4	1.14	0.53	0.30	4.79	103	8.84	112	92	78	0	0	7	0		
AZ FLAGSTAFF	77	49	80	45	63	-2	0.88	0.24	0.36	1.52	32	7.71	57	92	38	0	0	5	0		
AZ PHOENIX	103	84	105	81	94	2	0.00	-0.22	0.00	0.96	66	2.66	66	47	24	7	0	0	0		
AZ PRESCOTT	96	81	90	54	73	2	0.41	-0.40	0.41	2.09	38	6.42	54	70	25	2	0	1	0		
AZ TUCSON	96	73	100	70	85	0	0.49	-0.02	0.24	1.99	52	4.52	69	75	29	7	0	3	0		
AZ YUMA	104	83	108	82	94	1	0.00	-0.16	0.00	0.02	3	0.57	36	62	25	7	0	0	0		
AR FORT SMITH	92	73	98	66	83	1	0.35	-0.31	0.35	8.35	108	24.90	97	90	57	5	0	1	0		
AR LITTLE ROCK	93	74	96	71	84	3	2.82	1.90	-	11.86	147	38.95	129	93	54	6	0	-	-		
CA BAKERSFIELD	91	66	98	60	78	-5	0.00	-0.03	0.00	0.00	0	2.99	77	65	34	4	0	0	0		
CA EUREKA	85	55	69	54	60	2	0.00	-0.11	0.00	1.26	148	19.33	91	94	75	0	0	0	0		
CA FRESNO	93	66	99	62	79	-2	0.00	0.00	0.00	0.00	0	3.51	51	65	26	5	0	0	0		
CA LOS ANGELES	76	65	77	63	70	0	0.00	-0.03	0.00	0.02	33	4.23	54	83	62	0	0	0	0		
CA REDDING	95	63	104	59	79	-1	0.00	-0.09	0.00	1.55	170	16.57	87	74	27	5	0	0	0		
CA SACRAM/MCCLELL	90	62	99	61	76	-	0.00	-	0.00	0.61	-	9.26	84	29	4	0	0	0	0		
CA SAN DIEGO	74	67	78	64	71	-2	0.00	-0.03	0.00	0.08	69	3.63	58	78	66	0	0	0	0		
CA SAN FRANCISCO	72	59	74	57	65	2	0.00	0.00	0.00	0.28	233	8.82	72	93	63	0	0	0	0		
CO ALAMOSA	78	44	80	40	60	-3	0.22	-0.03	0.21	2.39	98	4.62	102	91	31	0	0	2	0		
CO CO SPRINGS	77	54	86	50	66	-3	0.61	-0.11	0.26	12.58	184	17.85	151	84	40	0	0	5	0		
CO DENVER	78	56	88	52	67	-8	1.24	0.89	0.92	10.25	226	13.99	127	86	45	0	0	4	1		
CO GRAND JUNCTION	83	59	91	57	71	-6	0.46	0.26	0.33	2.82	180	7.70	151	76	34	2	0	2	0		
CO PUEBLO	85	56	94	52	71	-4	1.98	1.50	0.98	6.82	153	10.49	132	91	36	3	0	4	2		
CT BRIDGEPORT	82	70	91	68	78	2	0.73	-0.01	0.40	7.38	82	23.80	89	87	58	1	0	3	0		
CT HARTFORD	83	65	93	60	74	2	1.41	0.59	1.29	10.20	116	24.13	89	93	54	1	0	3	1		
DC WASHINGTON	93	74	102	68	83	4	0.07	-0.83	0.07	4.20	45	19.16	79	87	47	5	0	1	0		
DE WILMINGTON	86	70	96	66	78	2	0.00	-0.77	0.00	5.11	53	14.57	56	85	55	1	0	0	0		
FL DAYTONA BEACH	90	75	95	73	83	1	3.68	2.30	1.85	19.46	134	31.32	108	97	61	3	0	4	2		
FL JACKSONVILLE	90	74	93	73	82	1	1.39	-0.41	0.71	19.89	131	33.94	105	96	65	3	0	4	1		
FL KEY WEST	91	79	98	78	85	1	0.65	-0.46	0.35	13.18	119	22.55	103	81	62	6	0	4	0		
FL MIAMI	91	78	92	76	84	2	1.76	0.08	1.38	25.61	137	45.88	134	85	56	6	0	3	1		
FL ORLANDO	92	75	94	74	84	1	1.76	0.22	1.20	24.14	133	38.31	120	97	57	6	0	3	1		
FL TAMPA	91	76	92	74	84	1	4.38	2.64	2.44	15.29	96	30.57	108	91	62	6	0	4	2		
FL VALPARAISO/EGLIN	92	75	93	66	83	2	0.72	-0.91	0.37	19.03	105	47.01	114	94	67	7	0	4	0		
FL WEST PALM BEACH	89	75	93	71	82	-1	0.97	-0.32	0.83	20.08	117	40.36	114	97	67	3	0	4	1		
GA ATHENS	89	69	93	65	79	0	0.37	-0.48	0.33	10.39	96	29.69	88	95	58	4	0	2	0		
GA ATLANTA	87	70	91	64	78	0	0.53	-0.30	0.38	9.33	88	31.74	92	95	62	1	0	3	0		
GA AUGUSTA	91	69	97	64	80	0	0.29	-0.76	0.27	9.99	93	25.74	83	96	54	5	0	2	0		
GA COLUMBUS	90	72	94	70	81	-1	0.25	-0.61	0.24	11.22	96	33.68	95	97	60	5	0	2	0		
GA MACON	91	70	95	66	81	0	1.71	0.87	1.31	4.68	47	23.85	77	98	56	5	0	5	1		
GA SAVANNAH	90	71	93	68	81	-1	0.16	-1.59	0.14	18.28	114	31.49	93	97	57	5	0	2	0		
HI HILO	86	68	87	67	77	1	0.12	-2.02	0.12	43.35	208	89.54	112	85	57	0	0	1	0		
HI HONOLULU	90	72	93	69	81	0	0.00	-0.10	0.00	0.92	67	15.32	128	85	48	4	0	0	0		
HI KAHULUI	88	69	90	66	79	-1	-	-	-	-	-	-	86	56	1	0	-	-			
HI LIHUE	87	72	87	70	81	1	-	-	-	-	-	-	85	66	0	0	-	-			
ID BOISE	87	61	92	55	74	0	0.05	-0.03	0.05	1.82	137	8.24	110	59	24	3	0	1	0		
ID LEWISTON	92	63	100	54	77	3	0.00	-0.17	0.00	1.96	85	10.61	133	52	20	4	0	0	0		
ID POCATELLO	80	50	88	44	65	-5	0.69	0.55	0.55	4.15	210	8.88	115	91	37	0	0	3	1		
IL CHICAGO/O'HARE	79	65	90	58	72	0	3.29	2.33	1.42	7.48	78	19.05	86	94	67	1	0	5	2		
IL MOLINE	80	64	90	59	72	-1	3.90	2.94	1.42	9.71	85	23.52	93	97	71	1	0	6	3		
IL PEORIA	83	66	93	59	74	0	2.20	1.51	1.31	4.93	50	17.69	76	96	66	2	0	6	2		
IL ROCKFORD	78	63	88	57	70	-1	1.23	0.29	0.44	8.39	78	21.38	93	94	68	0	0	5	0		
IL SPRINGFIELD	84	67	93	58	78	2	0.81	0.07	0.58	4.02	46	13.79	61	96	67	2	0	2	1		
IN EVANSVILLE	86	70	91	65	78	1	0.20	-0.50	0.12	5.95	65	31.19	110	96	67	1	0	2	0		
IN FORT WAYNE	80	62	90	52	71	-1	3.05	2.28	1.55	12.47	142	28.73	129	93	66	1	0	3	2		
IN INDIANAPOLIS	84	66	92	63	75	1	1.30	0.46	0.65	5.04	51	23.98	91	96	64	1	0	6	1		
IN SOUTH BEND	79	61	90	50	70	-2	3.18	2.35	1.37	8.34	85	20.39	85	94	70	1	0	5	3		
IA BURLINGTON	-	-	-	-	-	-	2.86	2.02	-	8.03	78	21.67	95	-	-	-	-	-	-		
IA CEDAR RAPIDS	-	-	-	-	-	-	1.11	0.20	-	5.98	56	17.47	80	-	-	-	-	-	-		
IA DES MOINES	78	62	89	59	70	-6	1.98	1.02	1.09	9.90	95	19.82	91	96	63	0	0	5	1		
IA DUBUQUE	75	60	84	54	67	-3	1.65	0.89	0.71	10.38	99	21.43	90	96	71	0	0	6	2		
IA SIOUX CITY	76	56	89	53	66	-7	0.51	-0.16	0.34	5.66	67	13.22	75	95	62	0	0	4	0		
IA WATERLOO	78	58	86	51	67	-4	1.20	0.37	0.51	8.40	74	18.00	79	96	61	0	0	3	2		
KS CONCORDIA	82	62	95	58	72	-8	1.16	0.36	0.94	7.56	76	14.53	72	92	57	2	0	5	1		
KS DODGE CITY	85	63	94	60	74	-5	0.49	-0.14	0.28	12.76	163	19.04	122	95	54	3	0	3	0		
KS GOODLAND	79	57	90	62	68	-6	1.45	1.04	1.02	9.21	130	12.96	94	86	51	1	0	4	1		
KS TOPEKA	84	65	95	61	75	-2	2.92	2.05	1.09	8.20	74	19.90	86	94	64	3	0	4	3		

Based on 1961-90 normals

Weather Data for the Week Ending August 16, 1997

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN. SINCE JUN 1	PCT. NORMAL SINCE JUN 1	TOTAL IN. SINCE JUN 1	PCT. NORMAL SINCE JUN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	92 AND BELOW	TEMP. °F		.01 INCH OR MORE	.50 INCH OR MORE
																		90 AND ABOVE	92 AND BELOW		
KY WICHITA	87	68	96	62	78	-3	0.47	-0.19	0.25	10.22	114	21.80	113	89	58	3	0	0	0	3	0
KY JACKSON	83	69	88	65	78	2	1.37	0.48	1.15	13.94	121	38.19	111	93	66	0	0	0	6	1	1
KY LEXINGTON	86	69	91	64	77	2	0.65	-0.26	0.34	13.67	128	46.38	168	90	63	1	0	0	4	0	2
KY LOUISVILLE	86	72	93	66	79	3	1.82	1.01	1.06	12.66	128	46.64	158	95	66	2	0	0	4	0	0
KY PADUCAH	88	72	90	68	80	2	0.93	0.19	0.78	10.95	110	39.29	123	94	64	2	0	0	3	1	1
LA BATON ROUGE	92	74	94	73	83	1	0.19	-1.20	0.14	14.13	98	48.17	120	96	58	7	0	0	2	0	0
LA LAKE CHARLES	92	77	93	75	84	2	0.00	-1.19	0.00	8.72	68	41.71	125	96	59	7	0	0	2	0	0
LA NEW ORLEANS	91	78	94	77	85	3	0.88	-0.53	0.78	12.97	85	38.91	92	90	64	5	0	0	3	1	1
LA SHREVEPORT	93	78	95	73	84	2	0.20	-0.34	0.18	9.94	107	48.39	157	94	58	7	0	0	2	0	0
ME CARIBOU	73	50	87	43	61	-2	1.78	0.84	0.80	8.93	99	23.06	108	95	56	0	0	4	2	2	0
ME PORTLAND	80	58	91	52	69	1	0.84	0.20	0.60	5.08	63	21.34	81	94	51	1	0	0	5	1	1
MD BALTIMORE	90	68	101	62	79	3	0.00	-0.90	0.00	4.81	51	20.96	81	94	48	4	0	0	0	0	1
MA BOSTON	83	65	94	61	74	1	0.67	-0.07	0.65	3.50	46	17.28	68	93	49	2	0	0	3	1	0
MA WORCESTER	79	63	87	60	71	2	0.03	-0.82	0.03	5.46	56	22.70	78	94	53	0	0	0	1	0	0
MI ALPENA	73	48	82	37	61	-5	3.42	2.65	1.75	6.99	91	20.05	113	98	58	0	0	0	5	3	3
MI GRAND RAPIDS	76	58	86	46	67	-4	1.22	0.44	0.61	6.02	70	18.93	90	88	67	0	0	0	4	1	1
MI HOUGHTON LAKE	71	47	77	35	58	-6	1.88	0.92	0.88	7.02	96	17.52	105	98	68	0	0	0	4	2	2
MI LANSING	75	56	83	43	66	-4	1.54	0.84	0.58	5.92	76	17.94	98	94	68	0	0	0	6	2	2
MI MARQUETTE	-	-	-	-	-	-	1.53	0.79	-	6.65	83	21.87	108	-	-	-	-	-	-	-	-
MI MUSKEGON	74	57	84	46	66	-4	2.03	1.28	0.91	7.29	120	17.84	98	96	67	0	0	0	5	2	2
MN DULUTH	64	47	68	42	56	-9	0.36	-0.55	0.16	7.68	81	13.50	72	95	64	0	0	0	3	0	0
MN INT'L FALLS	67	41	73	33	54	-11	0.88	0.19	0.71	6.45	71	11.29	72	94	48	0	0	0	2	1	1
MN MINNEAPOLIS	75	57	85	48	66	-6	0.73	-0.10	0.67	17.80	188	23.55	123	91	55	0	0	0	4	1	1
MN ROCHESTER	71	56	79	50	63	-6	1.29	0.41	0.56	13.12	131	22.61	116	94	64	0	0	0	5	1	1
MN ST. CLOUD	71	49	82	44	60	-8	0.44	-0.47	0.29	10.28	106	15.34	85	95	60	0	0	0	3	0	0
MS JACKSON	92	73	94	70	83	1	3.24	2.38	3.07	13.61	140	41.80	115	98	80	6	0	0	2	1	1
MS MERIDIAN	91	72	94	70	81	0	0.23	-0.59	0.19	10.46	97	41.00	108	99	60	4	0	0	3	0	0
MS TUPELO	91	72	93	71	81	1	0.64	-0.04	0.57	18.37	188	48.77	134	96	58	6	0	0	3	1	1
MO COLUMBIA	87	67	94	60	77	1	3.45	2.73	2.28	7.08	74	24.60	99	96	58	3	0	0	6	2	2
MO KANSAS CITY	82	65	93	59	74	-3	0.21	-0.67	0.21	5.28	47	18.72	78	92	71	2	0	0	1	0	0
MO SAINT LOUIS	87	71	96	64	79	1	1.03	0.39	0.91	3.52	39	18.91	79	94	60	3	0	0	4	1	1
MO SPRINGFIELD	84	68	90	59	76	-1	2.12	1.36	0.78	6.74	70	23.40	90	98	66	1	0	0	4	3	3
MT BILLINGS	73	54	84	49	64	-8	0.60	0.38	0.28	6.67	196	10.74	103	89	46	0	0	0	4	0	0
MT BUTTE	71	48	81	41	59	-4	0.29	-0.01	0.11	8.36	206	16.50	193	92	40	0	0	0	5	0	0
MT GLASGOW	77	52	89	38	64	-6	0.58	0.25	0.23	4.84	106	8.29	102	77	33	0	0	0	3	0	0
MT GREAT FALLS	75	49	85	43	62	-6	0.62	0.26	0.35	6.28	142	11.24	103	89	39	0	0	0	3	0	0
MT KALISPELL	79	46	88	37	63	-1	0.04	-0.27	0.02	4.90	122	13.33	128	88	30	0	0	0	2	0	0
MT MILES CITY	77	56	87	50	66	-8	0.56	0.30	0.48	5.30	108	8.85	87	75	38	0	0	0	2	0	0
MT MISSOULA	80	52	88	42	68	-1	0.24	-0.04	0.15	4.27	129	11.71	129	80	35	0	0	0	3	0	0
NE GRAND ISLAND	77	57	82	53	67	-9	4.04	3.41	3.22	10.52	129	16.74	95	94	60	1	0	0	3	2	2
NE LINCOLN	78	60	92	55	69	-7	1.49	0.73	1.25	8.49	98	15.79	84	92	63	1	0	0	3	1	1
NE NORFOLK	75	55	91	50	65	-8	1.01	0.43	0.37	6.84	76	14.28	79	96	61	1	0	0	4	0	0
NE NORTH PLATTE	78	54	89	51	65	-7	1.86	1.55	0.80	8.70	117	11.37	77	94	55	0	0	0	4	2	2
NE OMAHA	77	61	91	58	69	-8	1.82	1.10	-	9.50	106	15.75	80	95	63	1	0	0	-	-	-
NE SCOTTSBLUFF	76	53	88	51	64	-8	0.89	0.65	0.70	7.01	132	17.04	146	98	52	0	0	0	3	1	1
NE VALENTINE	74	55	83	53	65	-9	0.77	0.23	0.32	9.43	130	16.09	117	95	59	0	0	0	5	0	0
NV ELY	84	49	89	46	67	0	0.28	0.09	0.28	2.71	135	6.36	98	61	14	0	0	0	1	0	0
NV LAS VEGAS	100	77	104	71	88	-1	0.06	-0.05	0.06	0.92	128	1.16	45	41	16	7	0	0	1	0	0
NV RENO	89	52	93	47	70	0	0.00	-0.07	0.00	1.22	140	5.59	118	67	17	3	0	0	0	0	0
NV WINNEMUCCA	90	48	95	44	69	-2	0.00	-0.11	0.00	2.48	181	5.63	108	59	16	3	0	0	0	0	0
NH CONCORD	83	59	94	51	71	3	0.91	0.14	0.77	5.74	70	19.91	90	92	40	3	0	0	3	1	1
NJ NEWARK	85	70	97	66	77	0	0.26	-0.63	0.13	10.25	105	27.28	97	91	52	1	0	0	2	0	0
NM ALBUQUERQUE	87	64	90	61	75	-1	0.27	-0.12	0.23	3.57	124	6.42	120	67	23	1	0	0	2	0	0
NY ALBANY	82	62	91	58	72	2	1.92	1.12	1.78	5.89	66	18.44	73	97	49	2	0	0	4	1	1
NY BINGHAMTON	79	60	87	52	69	2	1.19	0.43	0.99	6.33	71	17.87	78	92	55	0	0	0	4	1	1
NY BUFFALO	76	60	83	53	68	-1	2.36	1.40	1.59	7.29	84	24.22	108	89	59	0	0	0	4	2	2
NY ROCHESTER	79	59	87	52	69	0	2.35	1.22	1.74	5.45	100	19.34	100	94	58	0	0	0	4	2	2
NY SYRACUSE	82	60	93	53	71	2	1.85	1.07	0.98	6.22	68	17.36	75	93	47	2	0	0	5	1	1
NC ASHEVILLE	85	63	91	60	74	2	0.02	-1.05	0.02	11.31	101	34.82	112	98	54	1	0	0	1	0	0
NC CHARLOTTE	91	72	98	68	81	2	0.31	-0.54	0.31	16.49	178	32.98	119	91	51	6	0	0	1	0	0
NC GREENSBORO	89	69	94	64	79	3	0.05	-0.84	0.03	6.43	62	25.28	92	92	50	3	0	0	2	0	0
NC HATTERAS	86	74	88	66	80	1	0.00	-1.37	0.00	8.55	71	28.38	85	87	67	0	0	0	0	0	0
NC RALEIGH	94	69	99	63	81	4	0.00	-0.93	0.00	10.72	109	27.09	99	92	47	6	0	0	0	0	0
NC WILMINGTON	90	73	95	67	81	2	0.03	-1.58	0.02	12.04	67	26.09	71	92	56	5	0	0	2	0	0
ND BISMARCK	74	51	84	42	62	-7	0.33	-0.06	0.27	4.35	75	10.30	91	89	47	0	0	0	3	0	0
ND DICKINSON	73	51	82	39	62	-8	0.10	-0.23	0.10	8.19	135	13.92	117	89	49	0	0	0	1	0	0
ND FARGO	71	51	75	40	61	-9	0.31	-0.25	0.18	9.38	138	17.48	131	90	50	0	0	0	5	0	0
ND GRAND FORKS	74	52	77	46	63	-5	0.39	-0.18	0.27	10.25	150	15.29	124	84	46	0	0	0	3	0	0
ND JAMESTOWN	73	51	79	45	62	-8	0.42	-0.05	0.24	8.46	123	13.03	106	84	44	0	0	0	3	0	0
ND WILLISTON	76	51	83	40	63	-7	0.15	-0.13	0.10	7.24	143	9.09	91	85	40	0	0	0	2	0	0
OH AKRON-CANTON	81	61	88	54	71	0	1.69	0.94	0.44	7.23	80	20.85	88	94	65						

Weather Data for the Week Ending August 16, 1997

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN, SINCE Jan 1	PCT. NORMAL SINCE Jan 1	TOTAL IN, SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP, °F		PRECIP.	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OK TOLEDO	79	61	90	54	70	0	2.00	1.26	1.46	7.37	86	24.22	117	93	67	1	0	4	1
OK YOUNGSTOWN	81	58	86	50	70	0	2.60	1.96	2.08	7.42	76	18.01	76	95	63	0	0	5	1
OK OKLAHOMA CITY	90	74	96	70	82	0	0.58	0.02	0.47	7.17	89	18.48	86	86	58	4	0	3	0
OR TULSA	88	73	95	67	81	-2	2.62	1.96	1.93	14.77	164	25.80	102	90	82	3	0	4	2
OR ASTORIA	72	56	82	52	64	3	0.00	-0.27	0.00	6.01	146	47.78	131	94	87	0	0	0	0
OR BURNS	84	48	92	41	66	1	0.01	-0.14	0.01	0.99	64	6.54	110	68	23	1	0	1	0
OR EUGENE	91	53	96	49	72	4	0.00	-0.23	0.00	1.98	81	22.96	86	89	26	6	0	0	0
OR MEDFORD	96	57	100	54	77	3	0.00	-0.11	0.00	2.03	192	10.61	110	69	16	7	0	0	0
OR PENDLETON	91	59	100	52	75	2	0.00	-0.11	0.00	1.42	113	5.51	77	53	22	4	0	0	0
OR PORTLAND	89	82	93	80	75	6	0.00	-0.23	0.00	3.35	128	26.57	134	81	34	4	0	0	0
PA SALEM	90	55	96	53	73	5	0.00	-0.16	0.00	1.81	81	26.39	125	87	29	6	0	0	0
PA ALLENTOWN	85	62	94	55	74	1	0.88	-0.08	0.66	10.24	101	22.80	84	91	53	1	0	3	1
PA ERIE	78	64	87	60	71	1	0.68	-0.22	0.41	8.22	86	26.09	110	86	82	0	0	5	0
PA MIDDLETOWN	89	70	97	65	79	5	1.09	0.36	0.72	8.49	93	19.98	78	86	80	2	0	2	1
PA PHILADELPHIA	87	69	98	66	78	2	1.03	0.16	1.03	7.07	70	22.67	84	92	53	1	0	1	1
PA PITTSBURGH	82	63	86	58	72	1	2.10	1.37	0.86	6.91	76	21.20	86	89	60	0	0	4	3
PA SCRANTON	82	62	90	53	72	1	1.68	0.94	1.02	5.84	81	15.02	65	93	52	1	0	5	1
PA WILLIAMSPORT	83	62	91	57	73	1	1.96	1.18	1.01	6.91	68	16.23	63	93	56	1	0	4	2
RI PROVIDENCE	82	64	90	61	73	1	0.87	0.04	0.65	5.38	84	22.11	80	93	55	1	0	4	1
SC BEAUFORT	91	73	95	69	82	1	0.32	-1.52	0.21	14.77	89	29.39	85	98	59	5	0	3	0
SC CHARLESTON	90	72	93	68	81	0	0.71	-0.97	0.51	23.36	136	38.68	111	97	80	4	0	3	1
SC COLUMBIA	91	71	97	67	81	1	0.10	-1.33	0.10	13.36	98	29.37	87	97	56	5	0	1	0
SD GREENVILLE	89	69	94	66	79	2	0.73	-0.16	0.25	12.82	111	33.85	101	95	57	4	0	4	0
SD ABERDEEN	73	52	80	46	62	-9	0.02	-0.47	0.02	4.34	62	9.87	73	96	54	0	0	1	0
SD HURON	74	57	80	51	66	-7	0.20	-0.26	0.15	10.43	147	16.42	111	89	58	0	0	4	0
SD RAPID CITY	70	54	77	52	62	-10	2.28	1.89	2.03	10.58	176	21.41	171	92	61	0	0	4	1
SD SIOUX FALLS	75	56	84	48	65	-7	0.60	-0.03	0.39	7.42	99	15.45	98	95	58	0	0	5	0
TN BRISTOL	85	65	91	61	75	1	0.51	-0.21	0.32	9.67	101	32.24	119	96	59	1	0	3	0
TN CHATTANOOGA	87	70	93	62	79	0	0.70	-0.08	0.36	13.42	131	39.98	115	99	59	2	0	2	0
TN KNOXVILLE	90	71	96	65	80	4	0.09	-0.62	0.06	9.84	95	36.89	116	91	50	4	0	3	0
TN MEMPHIS	90	74	93	72	82	1	1.59	0.82	1.34	13.91	162	54.10	164	93	82	5	0	2	1
TN NASHVILLE	88	71	93	63	79	1	1.02	0.24	0.77	12.02	128	36.11	117	94	61	2	0	4	1
TX ABILENE	96	75	100	73	85	2	0.47	-0.15	0.47	9.65	153	18.70	127	79	37	7	0	1	0
TX AMARILLO	85	64	94	60	75	-2	0.50	-0.24	0.25	9.84	123	19.57	145	91	51	2	0	4	0
TX AUSTIN	93	76	94	74	84	-1	0.00	-0.43	0.00	11.79	178	31.04	167	92	49	7	0	0	0
TX BEAUMONT	91	78	93	78	85	2	0.90	-0.27	0.72	12.70	93	34.97	102	95	66	6	0	5	1
TX BROWNSVILLE	95	77	97	75	87	2	0.08	-0.46	0.08	1.95	35	15.77	119	93	53	7	0	1	0
TX CORPUS CHRISTI	98	77	98	74	88	3	0.00	-0.68	0.00	2.58	36	18.43	109	93	47	7	0	0	0
TX DEL RIO	101	79	103	77	90	5	0.00	-0.30	0.00	4.51	87	17.75	163	75	29	7	0	0	0
TX EL PASO	92	70	95	68	81	1	0.00	-0.36	0.00	2.02	66	4.22	91	67	29	6	0	0	0
TX FORT WORTH	94	78	97	77	86	0	0.81	0.34	0.67	8.13	128	28.68	133	87	50	7	0	2	1
TX GALVESTON	91	82	92	81	87	3	0.00	-0.96	0.00	2.88	27	30.20	124	80	66	7	0	0	0
TX HOUSTON	98	76	97	74	86	3	0.22	-0.63	0.21	6.65	65	36.61	131	94	48	7	0	2	0
TX LUBBOCK	92	68	99	65	80	1	0.30	-0.26	0.17	6.70	105	16.78	144	82	39	5	0	5	0
TX MIDLAND	98	73	102	69	86	4	0.44	0.08	0.18	5.95	147	10.87	128	71	29	7	0	3	0
TX SAN ANGELO	98	74	101	69	86	3	0.16	-0.23	0.16	5.23	125	17.94	154	82	33	7	0	1	0
TX SAN ANTONIO	98	78	100	78	88	2	0.00	-0.55	0.00	7.04	98	20.85	110	87	36	7	0	0	0
TX VICTORIA	95	77	97	75	86	2	0.07	-0.54	0.07	6.41	67	44.24	199	94	51	7	0	1	0
TX WACO	97	78	99	75	87	1	0.00	-0.34	0.00	7.27	121	30.34	153	88	43	7	0	0	0
UT WICHITA FALLS	97	74	101	70	85	1	0.43	-0.09	0.28	3.19	51	14.79	82	90	44	7	0	4	0
UT SALT LAKE CITY	88	61	96	58	75	-2	0.38	0.19	0.20	3.17	145	12.02	116	67	24	2	0	4	0
VT BURLINGTON	80	59	91	53	69	1	2.23	1.29	1.11	9.03	98	18.24	88	90	49	2	0	4	2
VA LYNCHBURG	89	65	95	61	77	2	0.21	-0.61	0.21	6.81	71	22.37	86	96	50	3	0	1	0
VA NORFOLK	89	73	97	67	81	3	0.93	-0.18	0.70	8.02	70	19.87	68	91	54	3	0	3	1
VA RICHMOND	91	71	97	65	81	3	0.75	-0.27	0.75	8.20	74	22.10	79	94	52	5	0	1	1
VA ROANOKE	89	67	96	62	78	3	0.10	-0.86	0.10	8.35	90	20.56	80	91	49	3	0	1	0
WA WASH/DULLES	91	66	100	62	79	5	0.03	-0.88	0.03	4.17	44	17.65	70	94	49	5	0	1	0
WA HANFORD	96	63	106	56	80	-	0.00	-0.05	0.00	0.85	107	3.77	111	44	15	6	0	0	0
WA OLYMPIA	86	52	90	49	69	6	0.00	-0.27	0.00	4.15	137	37.89	140	93	34	3	0	0	0
WA QUILLAYUTE	73	50	84	44	62	2	0.01	-0.53	0.01	9.42	137	74.54	128	89	32	0	0	1	0
WA SEATTLE-TACOMA	84	58	88	57	71	5	0.00	-0.24	0.00	3.07	110	27.48	139	85	35	0	0	0	0
WA SPOKANE	87	58	94	49	72	3	0.14	-0.03	0.12	1.52	66	11.83	120	58	22	2	0	2	0
WA YAKIMA	92	56	100	49	74	4	0.00	-0.08	0.00	0.93	109	3.38	76	89	22	4	0	0	0
WV BECKLEY	81	62	85	58	72	2	1.22	0.45	0.82	11.02	106	28.26	105	94	67	0	0	3	1
WV CHARLESTON	84	67	91	64	76	1	1.47	0.54	1.19	13.16	122	31.11	113	97	64	2	0	3	1
WV ELKINS	81	59	88	55	70	2	0.58	-0.41	0.54	7.93	70	27.26	94	99	63	0	0	3	1
WV HUNTINGTON	85	69	90	66	77	3	1.00	0.11	0.51	10.10	98	26.71	98	95	64	1	0	3	1
WI EAU CLAIRE	74	56	86	48	65	-4	1.08	0.06	0.84	13.98	134	20.70	101	95	55	0	0	3	1
WI GREEN BAY	72	53	80	43	63	-5	2.09	1.30	1.71	10.33	125	19.11	108	93	58	0	0	5	1
WI MADISON	74	59	83	49	66	-3	1.18	0.26	0.86	12.57	138	21.83	112	96	67	0	0	3	1
WI MILWAUKEE	74	61	82	54	68	-2	0.98	0.18	0.57	13.17	154	21.83	108	97	68	0	0	3	1
WY CASPER	73	51	82	47	62	-7	0.58	0.42	0.30	3.45	112	8.21	93	88	43	0	0	4	0
WY CHEYENNE	71	51	83	48	61	-6	2.06	1.87	0.85	9.93	195	15.24	143	87	49	0	0	4	3
WY LANDER	74	51	87	48	62	-8	0.15	0.04	0.07	3.99	158	8.56	94	81	37	0	0	4	0
WY SHERIDAN	70	49	78	43	60	-10	0.99	0.81	0.49	6.46	185	11.93	120	90	56	0	0	5	0

Based on 1961-90 normals

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

## National Agricultural Summary

August 11 - 17, 1997

### HIGHLIGHTS

Welcomed rainfall from the Continental Divide to the Northeast brought relief to dry fields, boosting crop prospects for corn and soybeans, but slowing some fieldwork. Across the Middle Atlantic and Southeastern States, however, rainfall was more scattered, and some areas are still critically short of moisture. Temperatures across the Corn Belt were on the cool side, which helped

to maintain soil moisture. Farther south, temperatures were above normal. For crops in these areas that had adequate moisture, growing conditions were ideal. Those fields stressed by lack of moisture were further stressed by the heat. In the West, conditions were dry, with unusually warm weather in the Northwest, which promoted crop maturity.

**Winter wheat:** Very warm, dry conditions expedited the winter wheat harvest in Washington. In Idaho and Montana, rain caused some harvest delays and added disease pressures to the crop. Nationwide, winter wheat harvest was complete on 94 percent (%) of the acreage, slightly ahead of 93% at this time last year and for the 5-year average.

**Corn:** Corn condition improved slightly as widespread rains brought some relief to dry fields. Producers in Iowa and Illinois felt the rains were timely, but were concerned about the cool weather and its affect on kernel development. This week's rainfall brought some relief to dryland fields in Nebraska. Overall, the corn crop condition remained mostly good to fair. Corn was in the dough stage on 47% of the acreage, 3 percentage points ahead of average and 11 points ahead of last year. Harvest for grain and silage continued in the Southern States.

**Soybeans:** Soybean conditions improved across the Midwest due to last week's rainfall. However, in the Middle Atlantic States, late-planted beans continued to suffer from lack of moisture. Nationally, 57% of the acreage was rated good to excellent, compared with 55% last week and 56% last year. The rain that fell in Iowa and Illinois was beneficial for pod filling. Plants were blooming on 95% of the national acreage, ahead of 89% last year and the average of 91%. Plants on 79% of the acreage were setting pods, 19 points ahead of 1996 and 11 points ahead of the average.

**Cotton:** Cotton progress remained generally behind last year and the average in the Southeast. After a slow start, the crop is slightly ahead of schedule in New Mexico. Rainfall across central Texas was beneficial to the crop. However, the cooler temperatures slowed maturation. Harvest continued without delay in the Rio Grande Valley and advanced in the Coastal Bend and Upper Coast. Ninety-five percent of the national cotton acreage was setting bolls, behind 98% in 1996 but ahead of the average of

92%. Bolls were opening on 10% of the acreage, behind both 1996 and the average. Georgia cotton growers continued spraying for worms.

**Rice:** Rice heading advanced to 82% complete, 7 points behind last year but equal to the average. Rice continued to grow rapidly in California, as development remained nearly 2 weeks ahead of normal. Rice harvest was well underway in Louisiana but was again slowed by rain. In Texas, harvest increased without any significant weather delays. Overall, 9% of the acreage was harvested, behind last year and the average of 12%.

**Other Small Grains:** Spring wheat, at 22% harvested, was 7 points less than last year and 1 point less than average. Barley harvest, at 27% complete, was 3 points behind last year and 4 points less than average. Oat harvest, at 63% complete, was 1 point less than at this time last year and 2 points ahead of average. Cool, wet conditions delayed small grain harvests in Wisconsin, Idaho, and Montana. In North Dakota, harvest progress remained near normal despite rain delays. Hot, dry conditions allowed small grain harvests to progress rapidly in Washington. Saw flies and grasshoppers continued to plague some small grain fields in Montana.

**Other Crops:** Sorghum heading was 84% complete, behind the 87% headed at this time last year but ahead of the average of 74%. Thirty percent of the acreage was turning color, behind the 33% in 1996 and the average. Sorghum development was about a week ahead of normal in Missouri. Producer expectations for a good crop remained high in New Mexico. Recent rains in Texas allowed the crop in the plains to develop quickly, though progress was still behind normal. The peanut crop in Texas looked very good. Peanut producers in Georgia continued spraying their fields to control mold and leaf spot. Processing tomato harvest in the Fresno, California area was slowed due to high yields and processor scheduling problems.

# Crop Progress and Condition

Week Ending August 17, 1997

Winter Wheat Percent Harvested				
	Aug 17 1997	Prev Week	Prev Year	5-Yr Avg
AR	100	100	100	100
CA	99	99	99	99
CO	100	100	100	98
GA	100	100	100	100
ID	43	24	65	56
IL	100	100	100	100
IN	100	100	100	100
KS	100	100	100	100
MI	100	99	100	99
MO	100	100	100	100
MT	68	61	62	47
NE	100	99	100	100
NC	100	100	100	100
OH	100	100	100	100
OK	100	100	100	100
OR	75	64	79	85
SD	85	76	96	92
TX	100	100	100	100
WA	80	42	51	70
ALL	94	90	93	93

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

Soybeans Percent Blooming				
	Aug 17 1997	Prev Week	Prev Year	5-Yr Avg
AL	77	58	77	75
AR	82	70	87	82
GA	91	83	82	86
IL	99	95	88	93
IN	98	89	82	95
IA	100	98	95	96
KS	99	92	95	89
KY	60	44	70	79
LA	99	96	100	95
MI	97	95	73	91
MN	99	99	97	96
MS	93	81	97	91
MO	92	87	86	85
NE	100	99	100	97
NC	62	48	69	65
OH	97	94	87	97
SC	77	69	77	73
SD	97	93	96	88
TN	77	52	85	83
ALL	95	89	89	91

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

Corn Percent Dough				
	Aug 17 1997	Prev Week	Prev Year	5-Yr Avg
CO	33	26	64	30
GA	98	98	99	100
IL	63	37	38	61
IN	55	29	36	60
IA	32	13	13	27
KS	75	60	87	67
KY	50	34	72	83
MI	5	0	3	8
MN	17	0	13	20
MO	91	73	81	68
NE	66	37	53	48
NC	90	83	95	90
OH	27	18	10	50
PA	40	18	46	38
SD	26	16	30	27
TX	93	87	99	91
WI	34	18	16	26
ALL	47	28	36	44

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

Rice Percent Headed				
	Aug 17 1997	Prev Week	Prev Year	5-Yr Avg
AR	72	51	91	84
CA	90	65	76	60
LA	92	79	90	89
MS	80	78	96	86
TX	93	82	100	94
ALL	82	65	89	82

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

Soybeans Percent Setting Pods				
	Aug 17 1997	Prev Week	Prev Year	5-Yr Avg
AL	46	31	52	52
AR	41	26	62	55
GA	60	52	60	62
IL	93	73	52	71
IN	75	55	39	70
IA	95	79	82	83
KS	87	75	72	63
KY	40	25	44	43
LA	86	75	90	82
MI	89	53	34	58
MN	84	64	67	76
MS	84	71	91	72
MO	68	54	52	55
NE	89	67	75	72
NC	37	20	41	40
OH	77	60	30	67
SC	39	32	38	39
SD	80	72	74	67
TN	45	25	50	49
ALL	79	62	60	68

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

Oats Percent Harvested				
	Aug 17 1997	Prev Week	Prev Year	5-Yr Avg
IA	100	97	97	97
MI	71	60	63	50
MN	50	37	75	61
NE	100	98	99	98
ND	21	4	21	21
OH	90	76	88	89
PA	73	59	58	69
SD	73	58	81	76
WI	68	40	49	50
ALL	63	48	64	61

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

Rice Percent Harvested				
	Aug 17 1997	Prev Week	Prev Year	5-Yr Avg
AR	0	0	0	2
CA	0	0	0	0
LA	42	20	30	37
MS	0	0	1	1
TX	6	1	52	35
ALL	9	4	12	12

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

Barley Percent Harvested				
	Aug 17 1997	Prev Week	Prev Year	5-Yr Avg
ID	23	13	30	34
MN	26	9	34	34
MT	17	10	31	22
ND	24	7	25	28
SD	60	50	76	70
WA	65	25	34	55
ALL	27	11	30	31

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

# Crop Progress and Condition

Week Ending August 17, 1997

## Cotton Percent Setting Bolls

	Aug 17 1997	Prev Week	Prev Year	5-Yr Avg
AL	87	76	93	94
AZ	100	100	100	100
AR	100	100	100	100
CA	100	100	100	98
GA	96	94	100	100
LA	100	100	100	99
MS	100	99	100	100
MO	100	100	100	100
NM	100	99	100	94
NC	84	72	94	91
OK	66	*43	97	86
SC	80	71	99	97
TN	99	93	100	100
TX	93	83	96	83
ALL	95	88	98	92

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

## Cotton Percent Bolls Opening

	Aug 17 1997	Prev Week	Prev Year	5-Yr Avg
AL	4	0	6	5
AZ	40	25	48	43
AR	3	2	6	4
CA	20	10	14	9
GA	2	1	19	13
LA	1	0	14	14
MS	10	7	31	14
MO	9	0	8	3
NM	15	10	15	7
NC	5	2	9	6
OK	0	0	6	3
SC	3	2	3	3
TN	0	0	3	2
TX	14	11	19	17
ALL	10	7	17	13

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

## Sorghum Percent Headed

	Aug 17 1997	Prev Week	Prev Year	5-Yr Avg
AR	90	82	98	96
CO	65	25	67	47
IL	83	69	61	73
KS	88	70	90	64
LA	94	90	100	98
MS	100	99	99	98
MO	92	78	78	78
NE	89	69	81	71
NM	53	32	16	45
OK	52	33	77	65
SD	77	57	74	56
TX	84	79	94	89
ALL	84	70	87	74

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

## Sorghum Percent Coloring

	Aug 17 1997	Prev Week	Prev Year	5-Yr Avg
AR	34	20	63	60
CO	0	0	1	1
IL	13	9	6	15
KS	15	10	14	9
LA	70	37	86	79
MS	82	75	90	77
MO	28	23	24	28
NE	1	0	6	7
NM	0	0	2	4
OK	10	8	25	20
SD	12	6	17	8
TX	61	57	65	71
ALL	30	26	33	33

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

## Spring Wheat Percent Harvested

	Aug 17 1997	Prev Week	Prev Year	5-Yr Avg
ID	19	9	33	31
MN	22	13	35	29
MT	18	4	25	17
ND	16	5	19	15
SD	54	38	67	59
ALL	22	10	29	23

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

## Soybeans Crop Condition by Percent

	VP	P	F	G	EX
AL	1	8	42	46	3
AR	1	13	33	38	15
GA	1	8	24	59	8
IL	2	15	41	38	4
IN	4	11	37	40	8
IA	1	5	27	53	14
KS	0	2	28	62	8
KY	2	11	44	37	6
LA	2	13	31	49	5
MI	2	8	33	44	13
MN	2	6	29	49	14
MS	1	5	21	57	16
MO	6	20	40	30	4
NE	2	9	34	46	9
NC	2	3	27	64	4
OH	1	5	26	50	18
SC	0	3	14	61	22
SD	1	6	19	48	26
TN	1	8	29	47	15
ALL	2	9	32	46	11
Prev Wk	2	11	32	45	10
Prev Yr	3	11	30	45	11

## Corn Crop Condition by Percent

	VP	P	F	G	EX
CO	4	5	21	44	26
GA	0	2	22	68	8
IL	4	17	43	33	3
IN	6	12	40	36	6
IA	1	6	26	53	14
KS	1	5	25	57	12
KY	5	19	47	26	3
MI	4	12	35	39	10
MN	1	3	18	52	26
MO	9	21	38	27	5
NE	4	6	24	49	17
NC	7	16	31	44	2
OH	1	7	25	48	19
PA	13	21	42	21	3
SD	0	6	14	50	30
TX	0	4	21	49	26
WI	0	2	11	46	41
ALL	3	9	29	45	15
Prev Wk	3	11	28	43	15
Prev Yr	3	9	26	46	16

# Crop Progress and Condition

Week Ending August 17, 1997

**Cotton Crop Condition by Percent**

	VP	P	F	G	EX
AL	15	18	29	36	2
AZ	0	0	11	55	34
AR	1	17	31	39	12
CA	0	0	0	50	50
GA	0	7	23	59	11
LA	3	12	38	43	4
MS	1	8	27	55	9
MO	10	17	29	42	2
NM	0	8	28	43	21
NC	2	11	25	60	2
OK	0	3	28	61	8
SC	1	3	17	70	9
TN	2	8	29	51	10
TX	1	10	31	48	10
ALL	2	9	27	49	13
Prev Wk	2	9	30	49	10
Prev Yr	4	10	24	46	16

**Sorghum Crop Condition by Percent**

	VP	P	F	G	EX
AR	3	14	43	35	5
CO	0	2	11	77	10
IL	3	14	42	40	1
KS	0	4	20	64	12
LA	0	2	34	61	3
MS	0	5	25	62	8
MO	7	17	39	33	4
NE	5	15	41	35	4
NM	0	9	26	65	0
OK	0	2	26	71	1
SD	0	2	18	69	11
TX	0	4	24	56	16
ALL	1	6	25	57	11
Prev Wk	2	7	29	52	10
Prev Yr	3	7	22	53	15

**Peanuts Crop Condition by Percent**

	VP	P	F	G	EX
AL	2	8	51	35	4
FL	0	1	14	61	24
GA	0	4	21	64	11
NC	0	6	24	70	0
OK	0	1	34	59	6
SC	0	0	10	83	7
TX	2	5	26	51	16
VA	0	0	50	50	0
ALL	1	4	28	57	10
Prev Wk	0	3	27	59	11
Prev Yr	2	5	28	54	11

**Barley Crop Condition by Percent**

	VP	P	F	G	EX
ID	0	0	8	66	26
MN	5	17	48	27	3
MT	0	4	32	54	10
ND	3	18	39	37	3
SD	0	16	33	45	6
WA	0	0	5	72	23
ALL	2	11	32	46	9
Prev Wk	2	10	34	45	9
Prev Yr	2	9	28	49	12

**Spring Wheat Crop Condition by Percent**

	VP	P	F	G	EX
ID	0	0	11	67	22
MN	7	18	47	25	3
MT	1	5	34	50	10
ND	4	21	41	33	1
SD	0	12	32	48	8
ALL	3	15	38	39	5
Prev Wk	3	15	40	38	4
Prev Yr	2	10	33	44	11

**Rice Crop Condition by Percent**

	VP	P	F	G	EX
AR	0	2	22	51	25
CA	0	0	50	50	0
LA	0	2	27	61	10
MS	0	2	14	68	16
TX	0	6	54	35	5
ALL	0	2	31	52	15
Prev Wk	0	3	33	52	12
Prev Yr	0	2	16	64	18

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

\* Revised

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

## State Agricultural Summaries

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

**ALABAMA:** Days suitable for fieldwork 5.1. Topsoil 2% very short, 21% short, 72% adequate, 5% surplus. Corn dented 91%, 94% 1996, 91% avg. Corn mature 62%, 64% 1996, 63% avg. Corn harvested 18%, 14% 1996, 18% avg. Corn 6% poor, 20% fair, 62% good, 12% excellent. Livestock 2% poor, 23% fair, 68% good, 7% excellent. Showers provided relief to row crops in north Alabama, but fields in central and south Alabama need rain to promote crop development.

**ALASKA:** Days available for fieldwork 3. Barley for grain 90% turning color, 5% ripe, 5% harvested; last year barley was 80% turning color, 20% ripe. Oats for grain 95% turning color, 5% ripe, comparable to last year's progress. Crop prospects for potatoes 20% below avg., 60% avg., 20% above avg. Prospects for 2nd crop hay 15% below avg., 80% avg., 5% above avg. Commercial vegetable harvest continues. Topsoil 5% short, 95% adequate. Subsoil 20% short, 80% adequate.

**ARIZONA:** Harvesting of alfalfa rated, 28% none, 26% light, 35% moderate and 11% active. Alfalfa 9% poor, 29% fair, 49% good, 13% excellent. Vegetable harvesting is seasonally slow. Central area growers shipped some carrots, cantaloupe, honeydews, speciality melons during the past week. The harvest of chile peppers, apples got underway in the east. The lemon harvest was getting under way in the west with full scale harvest expected to begin in 2-3 weeks.

**ARKANSAS:** Days suitable for field work 5. Soil moisture supplies 10% very short, 39% short, 47% adequate, 4% surplus. Main farming activities: Irrigation of crops, cotton pest control, hay harvest. Other farm activities: Soybean weed control, rice disease, pest control, peach, apple, grape, field pea harvest. Pastures continue to be dry. Some cattle producers are feeding hay, moving cattle to better pasture or selling cattle. Corn 3% poor, 27% fair, 50% good, 20% excellent. Alfalfa hay 20% poor, 31% fair, 48% good, 1% excellent. Other hay 4% very poor, 24% poor, 43% fair, 27% good, 2% excellent. Pasture 4% very poor, 27% poor, 40% fair, 27% good, 2% excellent.

**CALIFORNIA:** Field activities progressed normally under favorable conditions in most areas. Ground preparation for seeding 1998's small grain and forage crops was underway in central and southern counties. Rice grew well in the Sacramento and San Joaquin valleys, and development was approximately two weeks ahead of normal. Weed treatment continued in some Sacramento Valley rice fields. Wild rice harvest was winding down in the northern Sacramento Valley. Cotton setting bolls in most fields, bolls opening in many areas of the San Joaquin Valley. Growers actively spraying for aphids, lygus, mites, whiteflies, worms. Most fields showed minimal signs of stress from the previous week's extreme heat. Corn silage, garbanzo beans, safflower, seed alfalfa, sugarbeets harvested. Harvesting corn for grain underway in some areas. Alfalfa, grain sorghum treated for aphids, lygus, worms. New crop sugarbeets sprayed for worms. Alfalfa, sudangrass cut for hay or greenchopped. Wine, table type grape harvesting continued. Almond tree shaking continued in the central San Joaquin Valley. Pistachio, walnut orchards prepared for harvest. The harvest of Gala and other early apple varieties continued. Asian pear picking nearly half complete. Late varieties of peaches, pears, nectarines were being harvested. Prune harvest was underway. The overall quality of fruit this year has been excellent. The olive crop has been light, with fruit sizing well. Valencia orange picking continued. Lettuce, broccoli cut in the Salinas-Watsonville area. The harvest of processing and fresh market tomatoes continued. Fresno County processing tomato harvest slowed because of high yields, scheduling problems. Large quantities of sweet corn, onions harvested in Santa Clara, San Benito counties. Vegetables sprayed to control whitefly, worms, aphids. Bell peppers harvested. Sweet potato harvest continued in Merced, Tulare counties. Harvesting of melons increasing in the Sacramento Valley,

while declining in the southern San Joaquin Valley. Carrot harvest in Kern, Kings counties continued. Potato harvest progressed in Kern County. Ground preparation for fall vegetable planting in the Imperial, San Joaquin valleys progressed normally. Other crops harvested: Cabbage, garlic, radishes, vineseed, eggplant, squash, okra, green beans. Rangeland forage poor, with supplemental feeding on the increase. Overall, range animals good. Milk, egg production off slightly. Honey bees active in melon fields.

**COLORADO:** Days suitable for fieldwork 3.8. Topsoil 1% very short, 14% short, 66% adequate, 19% surplus. Subsoil 4% very short, 16% short, 68% adequate, 12% surplus. Precipitation is starting to become detrimental in some parts of the east and northeast. Wet weather has slowed fieldwork, increased disease problems, reduced hay quality. Spring barley 95% turning color, 100% 1996, 87% avg.; 39% harvested, 55% 1996, 37% avg.; 6% poor, 18% fair, 55% good, 21% excellent. Oats 91% turning color, 100% 1996, 86% avg.; 75% harvested, 61% 1996, 50% avg. Spring wheat 84% turning color, 100% 1996, 83% avg.; 25% harvested, 63% 1996, 38% avg.; 7% poor, 18% fair, 50% good, 25% excellent. Sorghum 65% headed, 67% 1996, 47% avg.; 2% poor, 11% fair, 77% good, 10% excellent. Summer potatoes 18% harvested, 24% 1996, 21% avg.; 7% poor, 45% fair, 41% good, 7% excellent. Dry onion 13% harvested, 25% 1996, 17% avg.; 3% poor, 14% fair, 75% good, 8% excellent. Sugarbeets 3% very poor, 6% poor, 25% fair, 60% good, 6% excellent. Dry beans 98% flowered, 100% 1996, 85% avg.; 1% very poor, 9% poor, 27% fair, 52% good, 11% excellent. Alfalfa 85% 2nd cutting, 90% 1996, 79% avg.; 13% 3rd cutting, 15% 1996, 11% avg.; 2% very poor, 7% poor, 29% fair, 52% good, 10% excellent.

**DELAWARE:** Days suitable for fieldwork 6.7. Topsoil 46% very short, 35% short, 19% adequate. Subsoil 23% very short, 60% short, 17% adequate. Corn 9% very poor, 21% poor, 31% fair, 35% good, 4% excellent. Field corn 93% silked, 97% 1996, 99% avg.; 43% dough, 57% 1996, 58% avg.; 18% dent, 28% 1996, 26% avg.; 1% mature, 8% 1996, 5% avg.; 3% harvested for silage, 8% 1996, 9% avg. Tomatoes 51% harvested, 54% 1996, 54% avg. Soybeans 3% very poor, 21% poor, 38% fair, 35% good, 3% excellent; 54% bloomed, 50% 1996, 69% avg.; 36% setting pods, 41% 1996, 33% avg. Sorghum 8% poor, 37% fair, 53% good, 2% excellent; 43% headed, 92% 1996, 66% avg.; 5% turning color, 9% 1996, 3% avg. Cucumbers 79% harvested, 72% 1996, 75% avg. Snap beans 55% harvested, 50% 1996, 73% avg. Lima beans 24% harvested, 25% 1996, 30% avg. Sweet corn 68% harvested, 65% 1996, 76% avg. Potatoes 80% harvested, 66% 1996, 67% avg. Apples 5% poor, 23% fair, 71% good, 1% excellent; 34% harvested, 23% 1996, 16% avg. Cantaloupes 66% harvested, 65% 1996, 71% avg. Watermelons 50% harvested, 60% 1996, 57% avg. Peaches 5% poor, 23% fair, 71% good, 1% excellent; 69% harvested, 64% 1996, 63% avg. Hay supplies 16% very short, 27% short, 57% adequate. Clover and other hays 99% 2nd cutting harvested, 95% 1996, 97% avg.; 53% 3rd cutting harvested, 62% 1996, 42% avg.; 10% 4th cutting, 6% 1996, 1% avg. Alfalfa 84% 3rd cutting harvested, 61% 1996, 75% avg.; 15% 4th cutting, 13% 1996, 4% avg. Pastures 12% very poor, 55% poor, 23% fair, 9% good, 1% excellent. Activities: Scattered rains, but the dry weather continued to slow crop development and helped increase pest populations. Mites were a continuing problem on the soybean crop.

**FLORIDA:** Afternoon showers interrupted fieldwork. Some Palmetto-Ruskin areas averaged 1.00 in. of rainfall. Southwestern localities reported that daily storms had come late in the day, which allowed growers to get land preparations for fall vegetable plantings back on schedule. Topsoil moisture was adequate throughout the State, with

scattered areas having short or surplus moisture. Sugarcane growth was normal. Tobacco marketing was active. Tobacco harvesting was virtually complete. Some peanuts were dug. Haying and corn harvests were active when rains allowed. Cotton and soybean crops are making very good growth. Conventional cotton was sprayed for tobacco budworms. Soybeans are being sprayed for velvetbean caterpillars. Peanut crop condition was poor 1%, fair 14%, good 61%, and excellent 24%. Tomato planting gained momentum, in the Palmetto-Ruskin region, with crop condition rated good. Other crops planted in the Palmetto-Ruskin: Cucumbers, eggplant, peppers, watermelons, cherry, plum tomatoes, and cantaloupes. Palmetto-Ruskin pumpkins planted in July were fair. East Coast growers planted eggplant and peppers, with tomato transplanting to begin in the next 5 to 10 days. Daily rains delayed some fieldwork in the East Coast region. Tomato planting in the Quincy area finished, with most acreage staked, and growers were making first ties. Southwestern producers laid plastic for tomato transplanting. Sumter County growers were preparing land for planting fall vegetables. Heavy rains first of the week were followed by high temperatures in the Citrus areas. Moisture was adequate to surplus, with abundant new growth. New crop fruit was progressing well, with some advanced sizes. Packing houses were testing grapefruit for early harvest. Caretakers were cutting cover crops, fertilizing, spraying, pushing dead trees, and resetting some. Pastures throughout the State were fair to excellent. Cattle were mostly good throughout the State. Pasture feed: Fair 15%, good 65%, and excellent 20%. Cattle were very poor 0%, poor 0%, fair 15%, good 70%, and excellent 15%.

**GEORGIA:** Days suitable for fieldwork 5.8. Soil moisture 3% very short, 24% short, 69% adequate, 4% surplus. Corn 93% dent, 93% 1996, 97% avg.; 81% mature, 76% 1996, 89% avg.; 19% Harvested for Grain, 16% 1996, 22% avg. Hay 3% poor, 24% fair, 67% good, 6% excellent. Sorghum 3% poor, 24% fair, 68% good, 5% excellent; 1% harvested for grain, 4% 1996, 3% avg. Tobacco 3% poor, 32% fair, 62% good, 3% excellent; 87% harvested, 72% 1996, 79% avg. Watermelons 94% harvested, 95% 1996, 97% avg. Apples 1% very poor, 3% poor, 5% fair, 86% good, 5% excellent; 8% harvested, 10% 1996, 14% avg. Pecans 1% very poor, 8% poor, 26% fair, 58% good, 7% excellent. Soil moisture mostly adequate extreme north and south. Showers more scattered central. Crop conditions mostly steady. Corn harvest gaining momentum. Producers fighting worms in cotton, peanuts, soybeans. Peanut spraying continues for mold, leaf spot. Fair week for cutting hay. Activities: Irrigating peanuts, cotton, harvesting tobacco, mowing pastures, preparing fields, equipment for harvest.

**HAWAII:** Improved weather conditions variable effect on agriculture. Mostly sunny days and unseasonably high temperatures at week's end forced heavy irrigation. Cooler-weather vegetable crops made fair progress. Other vegetable made mostly good progress. Orchard crops made good progress. Spraying heavy to control insect populations. Banana up seasonally, orchards good. Papaya production higher some areas, condition varies good to fair, some poor. Head cabbage harvesting meet market demand. Cucumber production steady, increase at mid-month. Watermelon harvesting active, output to build toward Labor Day.

**IDAHO:** Days suitable for fieldwork 5.6. Topsoil 3% surplus, 76% adequate, 17% short, 4% very short. Spring wheat turning color 95%, 95% 1996, 87% avg. Barley turning color 94%, 95% 1996, 88% avg. Winter wheat turning color 97%, 100% 1996, 99% avg. Winter Wheat 25% excellent, 61% good, 12% fair, 2% poor. Potatoes turning (vines senescent) 31%, 23% 1996, 36% avg.; Vines dead or dying 3%, 3% 1996, 11% avg.; Harvested 1%, 1% 1996, 1% avg. Potato 15% excellent, 55% good, 25% fair, 5% poor. Alfalfa hay harvested 2nd cutting 83%, 83% 1996, 79% avg.; 3rd cutting 12%, 15% 1996, 14% avg. Oats harvested for grain 28%, 22% 1996, 36% avg. Dry Peas harvested 39%, 36% 1996, 51% avg. Lentils harvested 12%, 9% 1996, 39% avg. Peaches harvested 63%, 36% 1996, 48% avg. Dry Beans harvested 2%, 2% 1996, 5% avg. Hops harvested 1%, 0% 1996, 5% avg. Prunes and Plums harvested 5%, 22% 1996, 13% avg. Mint harvested 52%, 79% 1996, 84% avg. Sweet Corn harvested 13%, 13% 1996, 14% avg. Irrigation Water Supply 48% excellent, 50% good, 1% fair, 1% poor. Activities: Inspecting, spraying potatoes for late blight, waiting for fields to dry out, trying to harvest hay, barley, winter, spring wheat, weed control, irrigating.

**ILLINOIS:** Days suitable for fieldwork 4.7. Topsoil 19% very short, 37% short, 43% adequate, 1% surplus. Recent rains will be most beneficial to soybeans as they are setting/filling pods and blooming, corn will benefit, to a lesser degree, as kernels are filling. Any damage early in the season caused by heat and dry conditions will not be undone by any amount of rain. Pastures, hay fields have begun to green up as farmers continue to feed this years hay crop in many areas. Insect pressure from spider mites, leafhoppers eased to rains fell last week. Other farming activities: Baling hay, attending the state fair, preparing machinery for harvest, watching the rain! Corn dented 13%, 7% 1996, 17% avg. Oats harvested 99%, 97% 1996, 95% avg. Alfalfa hay 2nd cutting 99%, 98% 1996, 97% avg.; cutting 3rd cutting 35%, 24% 1996, 37% avg.

**INDIANA:** Days suitable for fieldwork 5.1. Topsoil 19% very short, 35% short, 42% adequate, 4% surplus. Subsoil 22% very short, 40% short, 37% adequate, 1% surplus. Soils in the west central region are the driest. Farmers are concerned about ear size, kernel fill in some corn fields. Range, pasture 17% very poor, 32% poor, 35% fair, 14% good, 2% excellent. Alfalfa 2nd cutting 94% complete, 94% 1996, 97% avg. Third cutting of alfalfa 25% complete. Activities: Baling hay and straw, spraying weeds, mowing pastures, roads, preparing equipment for fall harvest, caring for livestock, attending the State fair.

**IOWA:** Days suitable for field work 5.2. Topsoil very short 9%, short 40%, adequate 50%, surplus 1%. Subsoil very short 10%, short 43%, adequate 45%, surplus 2%. Timely rains helped many dry areas last week. Corn, soybeans continue to progress ahead of normal, but concern still exists that cooler temperatures may slow kernel, pod growth. Corn milk stage 83%, 60% 1996, 67% avg.; dough stage 32%, 13% 1996, 27% avg. Soybean acreage setting pods 95%, 82% 1996, 83% avg. Alfalfa hay 3rd harvest 16% complete, 14% 1996, 14% avg.; clover hay 2nd harvest 83%, 64% 1996, 68% avg. Corn 1% very poor, 6% poor, 26% fair, 53% good, 14% excellent. Soybean 1% very poor, 5% poor, 27% fair, 53% good, 14% excellent. Hay 6% very poor, 22% poor, 40% fair, 29% good, 3% excellent. Livestock good. Pasture 13% very poor, 31% poor, 33% fair, 21% good, 2% excellent.

**KANSAS:** Days suitable for fieldwork 3.3. Topsoil 3% very short, 19% short, 69% adequate, 9% surplus. Subsoil 4% very short, 23% short, 71% adequate, 2% surplus. Corn in dent stage 28%, 47% 1996, 27% avg.; mature 4%, 3% 1996, 5% avg. Sunflowers 3% very poor, 8% poor, 19% fair, 62% good, and 8% excellent. Sunflowers begin to petal 85%, bloom 46%. Third cut alfalfa 80%, 90% 1996, 79% avg. Alfalfa 4th cutting 18%, 18% 1996, 11% avg. Stock water supplies 2% very short, 11% short, 83% adequate, 4% surplus. Livestock activities: Marketing fall calves, grass cattle. Major field activities: Working wheat stubble, fertilizing, cutting hay.

**KENTUCKY:** Days suitable for fieldwork 4.4. Topsoil 18% very short, 41% short, 39% adequate, 2% surplus. Subsoil 23% very short, 46% short, 31% adequate. Burley tobacco topped 38%, 60% 1996, 58% avg. Burley tobacco cut 10%, 12% 1996. Dark tobacco topped 66%, 81% 1996, 79% avg. Dark tobacco cut 12%, 18% 1996. Tobacco 13% very poor, 25% poor, 40% fair, 20% good, 2% excellent. Hay 12% very poor, 27% poor, 40% fair, 19% good, 2% excellent. Pasture 12% very poor, 30% poor, 37% fair, 19% good 2% excellent.

**LOUISIANA:** Days suitable for fieldwork 5.5. Soil moisture 10% very short, 27% short, 53% adequate, 10% surplus. Corn 1% poor, 15% fair, 80% good, 4% excellent; 98% mature, 83% 1996, 84% avg.; 18% harvested, 20% 1996, 17% avg. Harvest active in the southern part of the State. Cotton irrigation active in drier areas. Hay 100% 1st cutting, 100% 1996, 100% avg.; 75% 2nd cutting, 65% 1996, 46% avg. Peaches 99% harvested, 100% 1996, 91% avg. A few growers harvested the last of the their crop. Rice 30% ripe, 40% 1996, 40% avg. Rice harvest slowed a bit by rain. Sorghum 7% ripe, 50% 1996, 30% avg.; 0% harvested, 8% 1996, 4% avg. Soybeans 6% turning color, 5% 1996, 2% avg. Growers checked for insects, mostly stinkbugs and loopers, treated fields where necessary. Sugarcane 1% poor, 19% fair, 52% good, 28% excellent; 1% planted, 0% 1996, 1% avg. Planting has begun on a small scale in the southern most parishes. Sugarcane borer control was active. Sweet Potatoes 7%

poor, 36% fair, 54% good, 3% excellent; 5% harvested, 4% 1996, 6% avg. Harvest delayed in localized areas because of adverse weather. Livestock 4% poor, 26% fair, 61% good, 9% excellent. Vegetables 3% very poor, 18% poor, 44% fair, 32% good, 3% excellent.

**MARYLAND:** Days suitable for fieldwork 6.7. Topsoil 46% very short, 24% short, 28% adequate, 2% surplus. Subsoil 43% very short, 37% short, 20% adequate. Corn 40% very poor, 19% poor, 20% fair, 19% good, 2% excellent. Field Corn 92% silked, 90% 1996, 94% avg.; 43% dough, 52% 1996, 55% avg.; 13% dent, 18% 1996, 23% avg. Soybeans 33% very poor, 18% poor, 30% fair, 17% good, 2% excellent; 82% bloomed, 71% 1996, 74% avg.; 54% setting pods, 39% 1996, 46% avg. Sorghum 20% very poor, 2% poor, 59% fair, 15% good, 4% excellent; 75% headed, 83% 1996, 88% avg. Sweet corn 72% harvested, 57% 1996, 69% avg. Cucumbers 71% harvested, 85% 1996, 74% avg. Potatoes 100% harvested, 98% 1996, 85% avg. Snap beans 58% harvested, 69% 1996, 75% avg. Tobacco 10% poor, 26% fair, 57% good, 7% excellent; 95% bloomed, 97% 1996, 85% avg.; 71% topped, 76% 1996, 62% avg.; 24% harvested, 30% 1996, 22% avg. Apples 1% very poor, 4% poor, 36% fair, 54% good, 5% excellent; 12% harvested, 6% 1996, 7% avg. Cantaloupes 82% harvested, 69% 1996, 73% avg. Peaches 4% very poor, 11% poor, 45% fair, 32% good, 8% excellent; 44% harvested, 70% 1996, 64% avg. Watermelons 68% harvested, 64% 1996, 68% avg. Tomatoes 62% harvested, 61% 1996, 62% avg. Hay supplies 25% very short, 33% short, 41% adequate, 1% surplus. Alfalfa hay 69% 3rd cutting, 50% 1996, 69% avg.; 13% 4th cutting, 6% 1996, 7% avg. Clover, other hays 86% 2nd cutting, 90% 1996, 84% avg.; 23% 3rd cutting, 29% 1996, 26% avg. Activities: There was widely scattered rainfall, but more rain is needed for all crops. Harvest of corn for silage has begun and is being tested for nitrates. Spider mites continue to be a problem on soybeans.

**MICHIGAN:** Days suitable for fieldwork 4.5. Temperatures below normal in all regions and help maintain the moisture in the soil. Topsoil 5% very short, 23% short, 70% adequate, 2% surplus. Subsoil 13% very short, 36% short, 50% adequate, 1% surplus. All hay, 2nd cutting harvested 90% 1997, 83% 1996, 79% avg. All hay, 3rd cutting harvested 20% 1997, 0% 1996, 11% avg. Corn, milk 31% 1997, 17% 1996, 43% avg. All hay crop 9% very poor, 23% poor, 45% fair, 20% good, 3% excellent. Dry beans setting pods 94% 1997, 20% 1996, 59% avg. Dry beans 9% 1997, 0% 1996, 3% avg. Pasture feed 10% very poor, 32% poor, 42% fair, 14% good, 2% excellent.

**MINNESOTA:** Days suitable for fieldwork 5.1. Topsoil 1% very short, 8% short, 82% adequate, 9% surplus. Corn 99% tasseled, 94% 1996, 88% 5 yr. avg.; 41% milk, 24% 1996, 36% 5 yr. avg. Soybeans 99% blooming, 93% 1996, 90% 5 yr. avg.; 64% setting pods, 49% 1996, 59% 5 yr. avg. Spring wheat 89% turning ripe, 61% 1996, 80% 5 yr. avg.; 13% harvested, 30% 1996, 18% 5 yr. avg. Oats 97% turning ripe, 90% 1996, 94% 5 yr. avg.; 37% harvested, 50% 1996, 39% 5 yr. avg. Barley 88% turning ripe, 63% 1996, 83% 5 yr. avg.; 9% harvested, 18% 1996, 16% 5 yr. avg. Rye 58% harvested, 77% 1996, 58% 5 yr. avg. Winter wheat 65% harvested, 51% 1996, 46% 5 yr. avg. Sweet corn 12% harvested, 11% 1996, 13% 5 yr. avg. Pasture 1% very poor, 10% poor, 34% fair, 49% good, 6% excellent. Spring wheat 3% very poor, 20% poor, 37% fair, 37% good, 3% excellent. Barley 4% very poor, 14% poor, 43% fair, 35% good, 4% excellent. Corn 3% poor, 18% fair, 53% good, 26% excellent. Oats 2% very poor, 11% poor, 33% fair, 49% good, 5% excellent. Soybeans 1% very poor, 7% poor, 26% fair, 54% good, 12% excellent. Dry Beans 3% very poor, 10% poor, 29% fair, 44% good, 14% excellent. Sunflowers 6% very poor, 9% poor, 32% fair, 49% good, 4% excellent. Sugarbeets 3% very poor, 5% poor, 21% fair, 56% good, 15% excellent.

**MISSISSIPPI:** Days suitable for fieldwork 3.6. Soil moisture 1% very short, 8% short, 63% adequate, 28% surplus. Corn 99% dough, 100% 1996, 98% avg.; 85% dent, 94% 1996, 86% avg.; 53% mature, 53% 1996, 49% avg.; 12% grain harvested, 10% 1996, 10% avg.; 60% silage harvested, 71% 1996, 56% avg.; 1% very poor, 4% poor, 21% fair, 65% good, 9% excellent. Soybeans 93% blooming, 97% 1996, 91% avg.; 84% setting pods, 91% 1996, 72% avg.; 15% turning color, 19% 1996, 10% avg.; 1% very poor, 5% poor, 21% fair, 57% good, 16% excellent. Peaches 90% harvested, 96% 1996, 97% avg.; 30% fair, 70% good. Peanuts, 1% fair, 99% good. Sweetpotatoes 1% fair, 99% good.

Watermelons 95% harvested, 89% 1996, 90% avg.; 3% very poor, 16% poor, 34% fair, 41% good, 6% excellent. Hay 80% harvested (warm season), 80% 1996, NA avg.; 2% very poor, 6% poor, 31% fair, 52% good, 9% excellent. Cattle 2% poor, 20% fair, 64% good, 14% excellent. Pasture 1% very poor, 5% poor, 26% fair, 56% good, 12% excellent. Activities: The main activities for the week were insect, weed control, harvesting hay. Boll weevil eradication has been effective, however, army worms are present in much of the state crop acreage.

**MISSOURI:** Days suitable for fieldwork 4.7. Topsoil supply, 16% very short, 45% short, 37% adequate, 2% surplus. Rainfall across many counties has increased topsoil moisture supplies at a critical time for row crops, especially soybeans. However, some northern counties are still in need of more rain for normal crop development. Corn, soybean, sorghum development is about 1 week ahead of normal. Corn is most advanced in the Bootheel, where 22% is in the mature stage. Third crop alfalfa 63%, 51% 1996, 45% avg. Pastures 12% very poor, 32% poor, 41% fair, 15% good, 0% excellent.

**MONTANA:** Days suitable for fieldwork 4.9. Topsoil 7% very short, 35% short, 57% adequate, 1% surplus. Subsoil 5% very short, 36% short, 58% adequate, 1% surplus. Corn for silage harvested 4%, 0% 1996, 0% avg. Winter wheat 91% ripe, 97% 1996, 81% avg. Winter wheat harvested 68%, 62% 1996, 47% avg. Saw fly, grasshoppers causing more swathing of small grains than normal, continue to be a problem to small grain producers in some areas. Oats 93% turning, 97% 1996, 83% avg. Oats ripe 52%, 46% 1996, 43% avg. Oats harvested 19%, 15% 1996, 17% avg. Oats 1% very poor, 6% poor, 34% fair, 54% good, 5% excellent. Alfalfa hay 1st cutting complete, 2nd cutting 40% complete, 60% 1996, 50% avg. Other hay cutting 90% complete, 93% 1996, 85% avg.

**NEBRASKA:** Days suitable for fieldwork 4.3. Subsoil 15% very short, 35% short, 44% adequate, 6% surplus. Topsoil 9% very short, 31% short, 55% adequate, 5% surplus. Below-normal temperatures last week brought some relief to dryland crops and grassland. Rainfall averaged from near one to over two inches in most areas, allowing irrigation systems to be shut down in parts of the State. Spraying for insects (such as leaf hoppers spider mites, 2nd brood corn borers) continued active. Corn 4% very poor, 6% poor, 24% fair, 49% good, 17% excellent; irrigation corn 79% good to excellent, dryland corn 37% good to excellent; 66% in dough, 53% 1996, 48% avg., 9% dented, 8% 1996, 11% avg. Soybean 2% very poor, 9% poor, 34% fair, 46% good, 9% excellent; 89% setting pods, 75% 1996, 72% avg., 1% turning color, 0% 1996, 1% avg. Sorghum 5% very poor, 15% poor, 41% fair, 35% good, 4% excellent; 89% headed, 81% 1996, 71% avg., 1% turning color, 6% 1996, 7% avg. Dry bean 5% poor, 33% fair, 45% good, 17% excellent; 89% set pods, 95% 1996, 2% turning color 8% 1996. Alfalfa 7% very poor, 23% poor, 41% fair, 27% good, 2% excellent; 33% 3rd cutting, 32% 1996, 34% avg.; slow regrowth due to dry conditions. Pasture 14% very poor, 24% poor, 29% fair, 27% good, 6% excellent. Some supplemental feeding to stretch grazing potential of pastures. Some haying or grazing CRP acres in central parts of the State.

**NEVADA:** A few afternoon and evening thundershowers visited the South; heavier rains fell Northeast. Northwest mostly dry. Greatest precipitation totals for the week were recorded at Ely 0.42 inch and Elko 0.26 inch. Temperatures avg. near normal at most locations. Irrigation water remained in adequate supply most areas. Pasture, range forage mostly good. Rains Northeast bolstered grazing conditions. Haying remained in full swing. Alfalfa 2nd cutting well along, 3rd cutting underway North. Other hay harvest was well along. Small grain harvests well along Fallon area, in full swing Yerington, Lovelock areas. Lahontan Valley corn good. Garlic harvest well along, onion harvest beginning. Potatoes good. Main farm, ranch activities: Combining grain, haying, bulb harvests, irrigating, spraying.

**NEW ENGLAND:** Days suitable for field work: 5.6. Topsoil 7% very short, 32% short, 58% adequate, 3% surplus. Subsoil 5% very short, 30% short, 63% adequate, 2% surplus. Pasture 3% very poor, 14% poor, 42% fair, 36% good, 5% excellent. Maine potatoes: Good to fair. Massachusetts potatoes: Harvested 30%, 25% 1996, 20% avg.; good. Rhode Island potatoes: Harvested 25%, 10% 1996, 10% avg.; good to excellent. Oats in Maine: Harvested 5%, 0% 1996, 20% avg.; good to

fair. Barley in Maine: Harvested 5%, 5% 1996, good to fair. Field corn: Good to fair. Sweet corn: Harvested 40%, 40% 1996, 45% avg.; good to fair. Shade tobacco: Harvested 80%, 80% 1996; fair. Broadleaf tobacco: Harvested 60%, 70% 1996; fair to good. First cut hay: Harvested 99%, 95% 1996, 99% avg.; good to fair. Second cut hay: Harvested 60%, 55% 1996, 60% avg.; good to fair. Third Cut Hay: Harvested 25%, 10% 1996, 10% avg.; good to fair. Apples: 5% harvested, fruit size avg.; Good to excellent. Peaches: Harvested 40%; 45% 1996, fruit size avg.; good. Pears: fruit size avg.; good. Cranberries: fruit size avg; good. Highbush blueberries: Harvested 65%, 75% 1996; fruit size avg. to above avg.; excellent to good. Wild blueberries: Harvested 60%; 40% 1996, fruit size avg.; good. Crops responded to much needed showers this week. Blue mold confirmed on tobacco in CT and MA. Major farm activities: Harvesting peas, lettuce, summer squash, green beans, tomatoes, blueberries, sweet corn, early apples, peaches, tobacco; spreading manure, fertilizer on cut fields; cutting hay; spraying for weed, insect control.

**NEW JERSEY:** Days suitable for fieldwork 7 days. Topsoil short. Farmers are irrigating, spraying, harvesting summer items, planting fall crops (cabbage, lettuce, spinach). Good volume of cucumbers, eggplant, green beans, peppers, squash, tomatoes, pickles, sweet corn, watermelon. Leafy greens are in light supply. Hay making, harvesting of potatoes occurring. Corn, soybeans continue to suffer from the lack of rainfall, hot weather. Pasture poor to fair. The blueberry harvest is complete. The peach harvest is in full swing with loring being the main variety. Light harvest of apples reported.

**NEW MEXICO:** Days suitable for fieldwork 6.0. Topsoil 2% very short, 20% short, 74% adequate, 4% surplus. Third cutting of alfalfa was slowed by rainfall but reached 92% complete, fourth cutting 43% completed. Alfalfa 6% poor, 27% fair, 58% good, 9% excellent. Cotton 100% setting bolls, 100% 1996, 94% avg.; 15% bolls open, 15% 1996, 7% avg.; 8% poor, 28% fair, 43% good, 21% excellent. Sorghum 9% poor, 26% fair, 65% good; 53% headed, 16% 1996, 45% avg. Onion 94% complete, 96% 1996; 5% fair, 55% good, 40% excellent. Chile 9% complete; 1% poor, 28% fair, 50% good, 21% excellent. Corn 3% fair, 81% good, 16% excellent; 71% dough stage, 64% 1996. Lettuce 76% planted by the end of last week. Cattle, sheep mostly good. Range, pasture feed 1% very poor, 7% poor, 28% fair, 58% good, 6% excellent.

**NEW YORK:** Days suitable for fieldwork 5.3. Soil moisture 44% very short, 33% short, 23% adequate. Pastures 4% very poor, 42% poor, 54% fair. Corn 13% poor, 37% fair, 50% good. Most corn has tasseled. Hay 29% poor, 71% good. Second cutting alfalfa 89% finished, 84% 1996, 81% avg. Yields down due to dryness. Oats 60% harvested, 67% 1996, 54% avg. Early potato harvest continued. Upstate potatoes in bloom. Wheat harvest complete, one week ahead of schedule. Vegetable harvest gained momentum as more crops moved to market. Onion development two weeks behind normal. Recent rainfall beneficial. Finger Lakes grapes in good to excellent. Early apple harvest continued. Tart and sweet cherry harvest finished. Rainfall helped fruit sizing, more needed, irrigation continued.

**NORTH CAROLINA:** Days suitable for fieldwork 6.3. Summer weather finally arrived in North Carolina with most areas of the State experiencing hot, dry conditions with some localized scattered showers. Areas that had adequate moisture earlier in the season welcomed the hotter weather to speed the progress of this year's late crops. Crops in areas already low in moisture are starting to show some damage of the prolonged dryness. Overall, most farmers would welcome a soaking rain at this stage of the season. Soil moisture 8% very short, 41% short, 50% adequate, 1% surplus. Activities for the week included: Irrigating, spraying for sucker control, topping, harvesting, marketing of flue-cured tobacco; spraying for blue mold, harvesting burley tobacco; cutting silage; cutting hay; preparing for the corn harvest; scouting, spraying for insects on cotton, soybeans; harvesting truck crops, apples, peaches; maintaining pastures; tending livestock; repairing equipment.

**NORTH DAKOTA:** Days suitable for fieldwork 5. Cool, damp weather delayed progress of small grain harvest, though combining of most small grains is still ahead of avg. Soil moisture supplies fell to below avg. Topsoil 6% very short, 38% short, 54% adequate, 2% surplus. Subsoil 5% very short, 28% short, 63% adequate, 4% surplus. Durum wheat

82% turning and beyond, 9% combined; 53%, 6% last year; 60%, 5% avg. Canola 75% turning and beyond, 33% swathed and beyond; 69%, 26% last year; corn for grain 91% milk and beyond; 64% last year; 53% avg.; dry edible beans 76% fully podded and beyond, 34% lower leaves yellowing and beyond; 61%, 25% last year; 53%, 20% avg.; flaxseed 78% turning and beyond; 38% last year; 40% avg.; potatoes 4% vines filled and beyond; 3% last year; 6% avg.; soybeans 48% fully podded and beyond; 39% last year; 45% avg.; sunflower 92% blooming and beyond, 10% ray flowers dried/dropped and beyond; 83%, 9% last year; 76%, 8% avg. Emerged crop condition: Durum 6% very poor, 25% poor, 41% fair, 28% good; canola 2% very poor, 13% poor, 30% fair, 45% good, 10% excellent; corn for grain 4% poor, 15% fair, 61% good, 20% excellent; corn for silage 2% very poor, 14% poor, 35% fair, 42% good, 7% excellent; dry edible beans 6% very poor, 12% poor, 28% fair, 49% good, 5% excellent; flaxseed 3% very poor, 13% poor, 33% fair, 47% good, 4% excellent; potatoes 15% very poor, 14% poor, 22% fair, 43% good, 6% excellent; soybeans 2% very poor, 5% poor, 25% fair, 49% good, 19% excellent; sugarbeets 5% very poor, 8% poor, 17% fair, 56% good, 14% excellent; sunflower 2% very poor, 7% poor, 23% fair, 53% good, 15% excellent. Pasture 7% very poor, 25% poor, 41% fair, 26% good, 1% excellent.

**OHIO:** Days suitable for fieldwork 6.3. Topsoil 14% very short, 29% short, 56% adequate, 3% surplus. Corn silked 9 days ahead of last year; in dough stage over 5 days behind the avg. Soybeans blooming 3 points ahead of the avg.; setting pods 4 days ahead of the avg. Oats turning ripe 98%; harvested 5 points ahead of the avg. Alfalfa hay 91% 2nd cutting, 88% 1996, 89% avg. Alfalfa hay 14% 3rd cutting, 6% 1996, 18% avg. Other hay 70% 2nd cutting, 65% 1996, 67% avg. Other hay 6% 3rd cutting, 0% 1996, 4% avg. Tobacco 14% topped. Apples 11% harvested. Potatoes 4% harvested, 10% 1996, 15% avg. Processing tomatoes 1% harvested, 0% 1996, 5% avg. Activities: Mowing hay, ditches, winter wheat stubble, pastures; bailing hay, straw; hauling, spreading manure on wheat stubble; fall plowing, other field preparations; scouting fields; cultivating soybean fields; spraying herbicides, pesticides; tiling fields; fence, building maintenance; repairing, preparing machinery for harvest; selling grain; attending, preparing for county fairs, the State fair. Growers are harvesting tomatoes, sweet corn, peppers. In the northern part of the State, growers are harvesting peaches, cabbage, cucumbers; irrigating vegetables. Reported weed pressures: common, giant ragweed; Canadian thistles; other grass, broadleaf weeds. Reported insects: Potato leafhopper, alfalfa weevil in alfalfa. Potato leafhopper effects on crops are still a concern in Monroe County. In Medina County, one reporter stated Potato leafhoppers are the worst she has seen; a Coshocton County 2nd cutting alfalfa hay poor due to the Potato leafhopper damage. Reported disease: Gray leaf spot in corn in Champaign County. Crop conditions changed slightly from the previous week. Compared to last year, most all crops are still in better condition. Some corn leaves have curled due to moisture stress. Hay 2% very poor, 14% poor, 35% fair, 43% good, 6% excellent. Livestock 1% poor, 21% fair, 68% good, 10% excellent.

**OKLAHOMA:** Rainfall alleviated crop stress in areas of eastern Oklahoma. Days suitable for fieldwork 4.3. Topsoil 7% very short, 15% short, 72% adequate, 6% surplus. Subsoil 7% very short, 11% short, 81% adequate, 1% surplus. Wheat 92% plowed, 98% 1996, 95% avg.; 34% seedbed prepared, 35% 1996, 30% avg.; Corn 99% milk-to-soft, 100% 1996, 95% avg.; 8% mature, 15% 1996, 18% avg.; Sorghum 3% mature, 19% 1996, 6% avg.; Soybeans 93% flowering, 96% 1996, 77% avg.; 73% setting pods, 80% 1996, 50% avg.; 3% mature, 11% 1996, 9% avg.; Peanuts 90% setting pods, 92% 1996, 78% avg.; 0% mature, 2% 1996, 1% avg.; Alfalfa Hay 86% 3rd cutting, 88% 1996, 89% avg.; 14% 4th cutting, 16% 1996, 22% avg.; All Other Hay 96% 1st cutting, 93% 1996, 99% avg.; 18% 2nd cutting, 49% 1996, 82% avg.; Watermelons 87% harvested, 86% 1996, n/a avg.; Livestock 1% poor, 16% fair, 78% good, 5% excellent. Feeder steer prices down \$0.50 per cwt.

**OREGON:** Days suitable for fieldwork 7.0. Topsoil 11% very short, 41% short, 47% adequate, 1% surplus. Subsoil 6% very short, 37% short, 56% adequate, 1% surplus. Barley harvested 54%, 44% 1996, 56% avg. Winter wheat harvested 75%, 79% 1996, 85% avg. Activities: Westside hay harvest continued. Grass seed, mint harvest

winding down. Field corn started silking, some dry field tillage started. East side grain harvest continued. Nurseries irrigating everyday. Easter lily bed preparation, planting continued on the south coast. Christmas tree work going well. East side potato excellent, above average yields, early blight reported. Northeast fresh onion harvest started, carrot processing underway. Willamette Valley vegetables in abundance. Snap bean, sweet corn, cole crop harvest continued. Tomato, salad vegetables maturing, irrigated cucumbers still producing. Vegetable fields being prepared for fall planting in Rogue River Valley. Willamette Valley: Blackberry, blueberry, peach harvest continue; apple harvest began in some areas; ever bearing strawberries look good; late variety peaches ripening; old canes on raspberries being removed. Hazelnuts starting to mature. Rogue River Valley Bartlett pears being picked, apples ripening. North coast prunes ripening. Livestock good to excellent. Pastures in Westside continued to dry out, although some areas still have good feed. Eastern rangeland at higher elevations remained good. Lower level pastures mostly dried out.

**PENNSYLVANIA:** Days suitable for field work 5.0. Soil moisture 29% very short, 53% short, 18% adequate. Ensilage corn harvested 4% harvested, 4% 1996, 2% avg. Soybean 3% very poor, 19% poor, 51% fair, 25% good, 2% excellent. Wheat 98% harvested, 100% 1996, 96% avg. Oats 73% harvested, 58% 1996, 69% avg. Potato 16% complete, 14% 1996, 13% avg. Alfalfa 2nd cutting 91% complete, 82% 1996, 82% avg. Alfalfa 3rd cutting 45% complete, 40% 1996, 36% avg. Timothy clover 2nd cutting 55% complete, 52% 1996, 58% avg. Quality of hay made 5% very poor, 14% poor, 40% fair, 33% good, 8% excellent. Apple harvest 17% complete, 19% 1996, 12% avg. Peach harvest 40% complete, 45% 1996, 43% avg. Fall plowing 15% complete, 11% 1996, 9% avg. Activities: harvesting small grains; making hay and haylage; plowing fields; spraying tobacco; fixing fences; hauling manure; caring for livestock.

**SOUTH CAROLINA:** Days suitable for fieldwork 6.4. Soil moisture 4% very short, 32% short, 61% adequate, 3% surplus. Apples 9% poor, 19% fair, 68% good, 4% excellent. Cantaloups 100% harvested, 99% 1996, 91% avg.; 27% poor, 29% fair, 38% good, 6% excellent. Corn 99% doughed, 100% 1996, 100% avg.; 83% matured, 79% 1996, 81% avg.; 27% harvested, 18% 1996, 19% avg.; 3% poor, 18% fair, 63% good, 16% excellent. Peaches 92% harvested, 94% 1996, 90% avg.; 25% poor, 35% fair, 35% good, 5% excellent. Snap Beans 97% harvested, 95% 1996, 95% avg.; 14% fair, 84% good, 2% excellent. Sorghum 11% harvested, 19% 1996, 16% avg.; 1% poor, 14% fair, 53% good, 32% excellent. Soybeans 77% bloomed, 77% 1996, 73% avg.; 39% pods set, 38% 1996, 39% avg.; 11% leaves turning color; 3% poor, 14% fair, 61% good, 22% excellent. Tobacco 72% harvested, 63% 1996, 62% avg.; 28% stalks destroyed, 12% 1996, 10% avg.; 2% poor, 11% fair, 74% good, 13% excellent. Watermelons 100% harvested, 99% 1996, 94% avg.

**SOUTH DAKOTA:** Topsoil 1% very short, 14% short, 77% adequate, 8% surplus. Subsoil 8% short, 80% adequate, 12% surplus. Days suitable for fieldwork 4.6. Major activities: Harvesting of small grains, haying, fencing. Winter wheat 100% ripe, 100% 1996, 100% avg. Spring wheat 99% turning color, 99% 1996, 100% avg.; 88% ripe, 88% 1996, 90% avg. Winter rye 92% harvested, 91% 1996, 87% avg. Winter rye 21% poor, 41% fair, 28% good, 10% excellent. Alfalfa hay 2% very poor, 5% poor, 25% fair, 54% good, 14% excellent. Flax 7% poor, 43% fair, 47% good, 3% excellent. Oats 99% turning color, 99% 1996, 100% avg.; 92% ripe, 95% 1996, 95% avg. Barley 99% turning color, 100% 1996, 100% avg.; 90% ripe, 94% 1996, 95% avg. Sunflower 3% poor, 18% fair, 55% good, 24% excellent, 78% blooming, 87% 1996, 79% avg.; Flax 73% ripe, 63% 1996, 28% avg. Corn tasseled 99%, 97% 1996, 94% avg. Alfalfa hay cut twice 78%, 86% 1996, 76% avg. Other hay harvested 90%, 87% 1996, 74% avg. Livestock 1% poor, 8% fair, 71% good, 20% excellent. Stock water supplies 3% short, 86% adequate, 11% surplus.

**TENNESSEE:** Days suitable for fieldwork 5.0. Topsoil 8% very short, 24% short, 60% adequate, 8% surplus. Subsoil 6% very short, 30% short, 58% adequate, 6% surplus. Corn 2% very poor, 9% poor, 32% fair, 45% good, 12% excellent; 89% dough, 92% 1996, 90% avg.; 56% dent, 67% 1996, 57% avg.; 10% mature, 21% 1996, 13% avg.; 20% silage harvested, 21% 1996, 18% avg. Tobacco 6% very poor, 21%

poor, 40% fair, 29% good, 4% excellent; 61% topped, 72% 1996, 74% avg.; 17% Burley harvested, 13% 1996, 16% avg.; 16% Air-cured harvested, 11% 1996, 15% avg.; 14% fire-cured harvested, 19% 1996, 17% avg. Sorghum 3% poor, 28% fair, 62% good, 7% excellent; 94% headed, 82% 1996, 92% avg.; 38% coloring, 30% 1996, 39% avg. Pasture 13% poor, 40% fair, 42% good, 5% excellent. Corn silage harvest along with tobacco topping and harvest were the main activities for producers in Middle and East Tennessee. Silage producers took advantage of the 5 days available for fieldwork and pushed progress slightly ahead of normal. Although blue mold continues to be a problem on the tobacco crop, the hot, dry weather helped to slow its growth and allowed tobacco farmers to continue topping and get harvest underway. Farmers in West Tennessee also kept busy applying insecticides for boll weevils, worms, and bugs. Despite insects and diseases, all crops are developing at or near a normal pace. Soybeans have improved during the week due to early rainfall out West, as sorghum, cotton remain mostly good. Tobacco and pastures, however, have shown stress from the heat and lack of moisture in East Tennessee.

**TEXAS:** Beneficial rains fell in the Plains, with much rain in the north-central area, extending to the east. The moisture was expected to add to already good growing conditions in the plains. However, cooler temperatures accompanied rain and decreased heat units needed for continued crop development. Moisture was good for small grain producers as they prepared fields for seeding. Harvest operations moved ahead in the central and southern areas where rainfall became light and scattered. Pastures in wet areas showed improvement. Livestock was good. Markets remained active. Crops: Small Grains: Land preparations were completed in many fields in the High Plains, with planting expected to begin as fields dry. Producers in most other areas continued land preparations. Corn: The High Plains crop continued to make good progress as many fields have entered the dent stage. Corn borers caused problems in some fields, and spraying occurred as weather permitted. Rain helped to reduce irrigation needs. Harvest increased in the Blacklands region and the central area, where conditions remained mostly dry. A wide range of yields were reported. Harvest continued without much delay along the Upper Coast and Coastal Bend, and winding down in many fields in the Rio Grande Valley. Weather in these areas was open, allowing good progress, with 68% denting, compared with 85% in 1996 and the 73% avg.; 49% mature, compared with 59% in 1996 and the 54% avg.; and 25% harvested, compared with 49% in 1996 and the 40% avg. Cotton: Bolls continued to set in the plains, with some fields still blooming. The rainfall was certainly beneficial. However, cooler temperatures slowed maturing. Boll worm activity increased in many fields. Bolls were opening in the Blacklands and the central area. Harvest increased in the Coastal Bend and along the Upper Coast. Harvest continued without delay in the Rio Grande Valley, with 3% harvested, compared with 9% in 1996 and the 8% avg. Grain Sorghum: Crop development in many fields on the plains continued to be late but was catching up quickly after recent rains. Fields were maturing in the north-central areas as harvest increased in the Blacklands and the central area. Yields have varied widely across areas. Harvest continued along the Upper Coast, where late crop needs rain. Harvest was winding down in most fields in the Rio Grande Valley, with 47% mature, compared with 57% in 1996 and the 61% avg.; and 35% harvested, compared with 52% in 1996 and the 53% avg. Peanuts: Fields across the State were very good, with light insect and disease problems. Rice: Harvest increased without significant weather delays. Draining of many fields also occurred. Soybeans: Rainfall was beneficial to the High Plains crop. Fields along the Upper Coast were rapidly drying down. Sugarbeets: Crop condition was good, and spraying for leaf spot occurred before the rain.

**Commercial Vegetables:** In the Rio Grande Valley, land preparations continued. In the San Antonio-Winter Garden, land preparations continued, with most watermelon harvests now complete. In the High Plains, potato harvest was winding down in many fields. Pumpkins continued to make good progress. In east Texas, sweetpotatoes continued to look good, benefiting from the week's rains. Isolated heavy rains washed out some other vegetable fields. In the Trans-Pecos, cantaloup harvest continued, with good quality. Pecans: Many groves in the central and southern areas could use good rain to slow nut drop. Insect scouting remained active. The statewide outlook remained good.

**Range and Livestock:** Rainfall was boost to conditions in the north-central and eastern areas, where hay supplies in most areas were good.

Flies continued to be a problem in some herds. Cattle and sheep markets remained active.

**UTAH:** Days suitable for fieldwork 5. Topsoil 21% short, 69% adequate, 10% surplus. Subsoil 25% short, 66% adequate, 9% surplus. Pasture, range 3% poor, 26% fair, 56% good, 15% excellent. Irrigation water supplies 10% short, 88% adequate, 2% surplus. Stock water supply 3% very short, 12% short, 85% adequate. Winter wheat harvested 70%, 85% 1996, 82% avg. Spring wheat harvested 65%, 80% 1996, 69% avg. Barley harvested 56%, 84% 1996, 72% avg. Oats: harvested for grain 53%, 59% 1996, 47% avg.; harvested for hay or silage 87%, 87% 1996, 90% avg. Corn: height 78 inches; silked 79%, 86% 1996, 82% avg.; doughed 21%. Alfalfa hay: 2nd cutting 87%, 99% 1996; 3rd cutting 20%, 45% 1996, 26% avg. Peaches picked 52%, 45% 1996, 37% avg. Major farm, ranch activities were: Hay cutting, picking fruit, harvesting small grains.

**VIRGINIA:** Days suitable for fieldwork 6.3. Topsoil 30% very short, 50% short, 20% adequate. Subsoil 25% very short, 55% short, 20% adequate. Corn 89% silked, 94% 1996, 94% avg.; 58% dough, 59% 1996, 60% avg.; 26% dent, 34% 1996, 37% avg.; 4% mature, 13% 1996, 15% avg.; 11% corn silage harvested, 2% 1996, 6% avg; 10% very poor, 25% poor, 37% fair, 26% good, 2% excellent. Soybeans 62% bloomed, 68% 1996, 70% avg.; 35% setting pods, 44% 1996, 43% avg.; 15% very poor, 30% poor, 30% fair, 24% good, 1% excellent. Cotton 30% poor, 34% fair, 35% good, 1% excellent. Summer Apples 40% harvested, 42% 1996, 45% avg.; 5% poor, 43% fair, 50% good, 2% excellent. Peaches 65% harvested, 61% 1996, 62% avg. Flue tobacco 20% harvested, 29% 1996, 28% avg; 3% poor, 16% fair, 40% good, 41% excellent. Burley tobacco 3% very poor, 16% poor, 38% fair, 33% good, 10% excellent. Dark fire cured tobacco 3% poor, 51% fair, 46% good. Sun cured tobacco 90% fair, 10% good. Peanuts 50% fair, 50% good. Summer potatoes 100% harvested, 100% 1996, 99% avg. Pasture 15% very poor, 35% poor, 40% fair, 10% good. Alfalfa 2% very poor, 23% poor, 42% fair, 31% good, 2% excellent. Other Hay 9% very poor, 30% poor, 40% fair, 20% good, 1% excellent. Overall moisture supply levels and field conditions throughout the State are deteriorating. General rains are needed. Producers remain concerned with late soybeans as they are progressing slow due to the extended dry period. Some late soybean fields were destroyed due to poor stands and extreme dry conditions. Some beef producers are feeding hay as pasture supplies are running short. Some localities are still concerned about getting a 2nd cutting of hay after a late 1st cutting. Activities: Spraying, topping, harvesting, marketing tobacco. Other activities: Vegetable harvesting, marketing livestock.

**WASHINGTON:** Days suitable for fieldwork 7.0. Topsoil 2% very short, 48% short, 50% adequate; subsoil 1% very short, 29% short, 70% adequate. Winter wheat 80% harvested, 51% 1996, 70% avg. Very warm, dry conditions expedited the wheat and barley harvest. Yields reported across the State continued to be in the good to excellent range. Dry pea harvest continued and dry bean harvest began in some areas. Corn 6% fair, 94% good. Potatoes, 5% fair, 95% good. Potatoes 20% harvested, 17% 1996, 14% avg. Hay, other roughage supplies, 8% short, 69% adequate, 23% surplus. The 3rd cutting of alfalfa was well underway, whereas 2nd cutting timothy hay remained about a week away. Regrowth on cool season grasses was slowed due to the very warm conditions. Range and pasture, 11% very poor, 4% poor, 39% fair, 45% good, 1% excellent. Pastures continued to dry

down, conditions reflected the usual effects of hot, dry August days. Warm weather kept fruit producers busy with irrigation. Grapes ripened rapidly with heat units exceeding last year. Peaches, nectarines harvested. Bartlett pear, early apple harvests were either underway or expected to begin within a week in central Washington. Hot weather increased the incident of sunburn, but overall fruit continued to look good. West of the Cascades, pumpkin set looked good, sweet corn and mixed vegetable harvest was in full swing whereas early plantings of sweet corn were nearly ready for harvest in central Washington.

**WEST VIRGINIA:** Days suitable for fieldwork 4.7. Topsoil 5% very short, 29% short, 59% adequate, 7% surplus. Corn 5% very poor, 23% poor, 21% fair, 46% good, 5% excellent; 88% silking, 80% 1996, 88% avg.; 27% dough stage, 46% 1996, 51% avg.; 3% dent stage, 9% 1996. Hay 6% very poor, 19% poor, 23% fair, 45% good, 7% excellent; 2nd cutting 63%, 57% 1996, 55% avg.; 3rd cutting 16%, 12% 1996, 32% avg. Oats 8% poor, 42% fair, 50% good; 78% harvested, 89% 1996, 86% avg. Soybeans 7% poor, 58% fair, 35% good; 96% blooming, 91% 1996, 87% avg.; 77% setting pods, 71% 1996. Tobacco 5% poor, 49% fair, 46% good; 74% topped, 53% 1996, 69% avg.; 3% harvested, 4% 1996. Apple 60% fair, 32% good, 8% excellent. Peach 16% poor, 84% fair. Cattle 1% poor, 26% fair, 63% good, 10% excellent. Sheep 1% poor, 29% fair, 68% good, 2% excellent. Activities: Making hay, harvesting oats, peaches, topping, harvesting tobacco.

**WISCONSIN:** Days suitable for fieldwork: 4.1. Soil moisture 1% very short, 19% short, 74% adequate, 6% surplus. Winter wheat 88% harvested, 10 points ahead of the 5-year average, similar to last year. A Manitowoc reporter noted good yields with average to above average test weight. Harvesting of 2nd, 3rd crop hay came in at 89%, 10% finished, respectively. Alfalfa stands in Marquette, Iowa counties showed affects of dry weather. Corn and soybeans look good, according to reporters, statewide. Reporters from Grant, Pepin counties commented that corn was dark green, with two ears on many stalks. Soybean 1% poor, 10% fair, 47% good, 42% excellent. Soybeans bloomed 94%, 68% set pods. The potato crop looked good, stated an Oneida reporter. Some early varieties in Portage County were being dug, with late blight occasionally appearing. Apple numbers were below average in some areas, with some reports of hail damage and scab disease. In other locations, the apples are expected to be better than last year. Pasture feed 1% very poor, 7% poor, 32% fair, 48% good, 12% excellent.

**WYOMING:** Days suitable for fieldwork 4.0. Topsoil 7% short, 84% adequate, 9% surplus. Subsoil 23% short, 69% adequate, 8% surplus. Winter wheat 87% harvested, 96% 1996, 83% avg. Barley 77% mature, 74% 1996, 81% avg.; 43% harvested, 40% 1996, 48% avg.; 1% very poor, 4% poor, 32% fair, 61% good, 2% excellent. Oats 74% mature, 61% 1996, 57% avg.; 30% harvested, 25% 1996, 26% avg.; 3% poor, 16% fair, 79% good, 2% excellent. Spring wheat 92% mature, 58% 1996, 60% avg.; 21% harvested, 25% 1996, 30% avg.; 17% fair, 79% good, 4% excellent. Corn 87% milk, 71% 1996, 47% avg.; 66% dough, 12% 1996, 13% avg.; 4% fair, 91% good, 5% excellent. Sugarbeet 1% poor, 4% fair, 93% good, 2% excellent. Dry beans 85% setting pods, 94% 1996, 89% avg.; 4% leaves turning color, 15% 1996, 19% avg.; 2% poor, 5% fair, 89% good, 4% excellent. Alfalfa 40% 2nd cutting complete, 51% 1996, 47% avg. Other hay harvested 75% complete, 82% 1996, 81% avg. Irrigation water supplies 9% short, 80% adequate, 11% surplus. Range, pasture 6% fair, 70% good, 24% excellent.

# International Weather and Crop Summary

August 10 - 16, 1997

## HIGHLIGHTS

**FSU-WESTERN:** Harvest activities continued to progress slowly in Russia and Ukraine.

**FSU-NEW LANDS:** Showers in Russia favored spring grains in the filling stage.

**EUROPE:** Drier and unseasonably warm weather improved conditions for summer crop development and winter wheat harvesting.

**SOUTH ASIA:** Heavy rains and flooding persisted in primary eastern rice areas, but favorable dryness covered the soybean belt.

**SOUTH AMERICA:** Rain increased topsoil moisture for germinating wheat in central Argentina, while dry weather reduced wheat disease potential in southern Brazil.

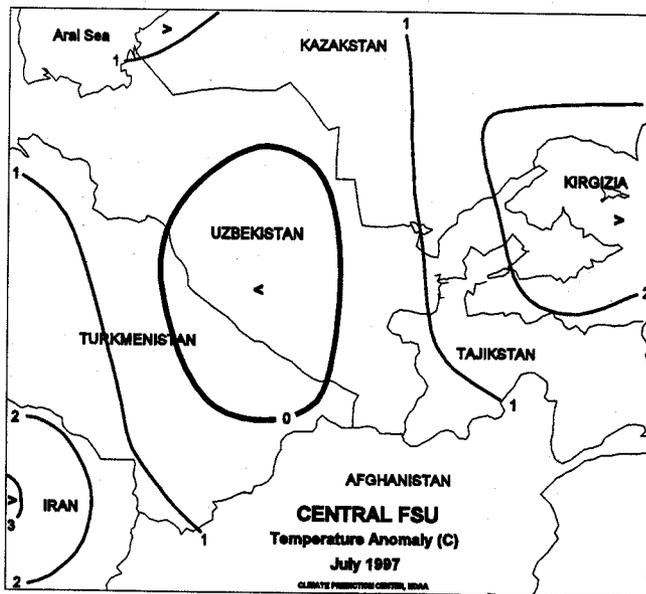
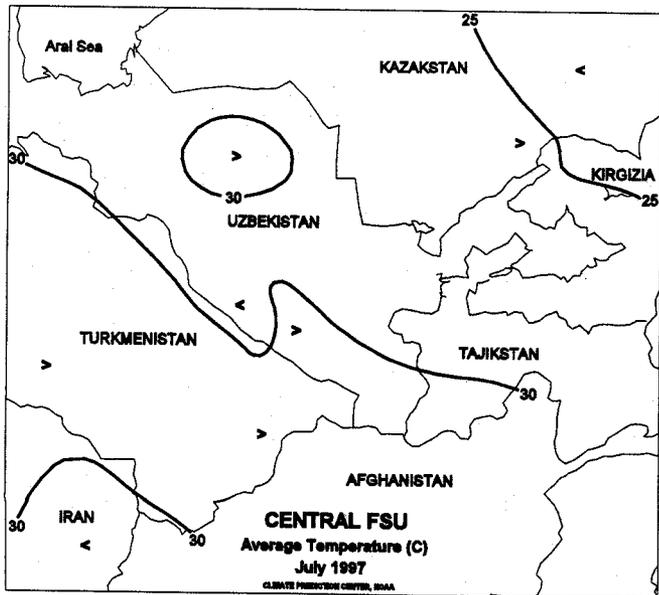
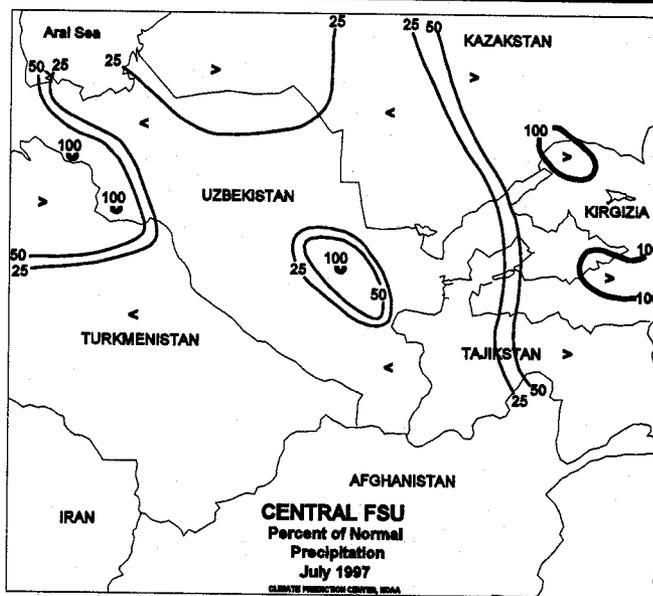
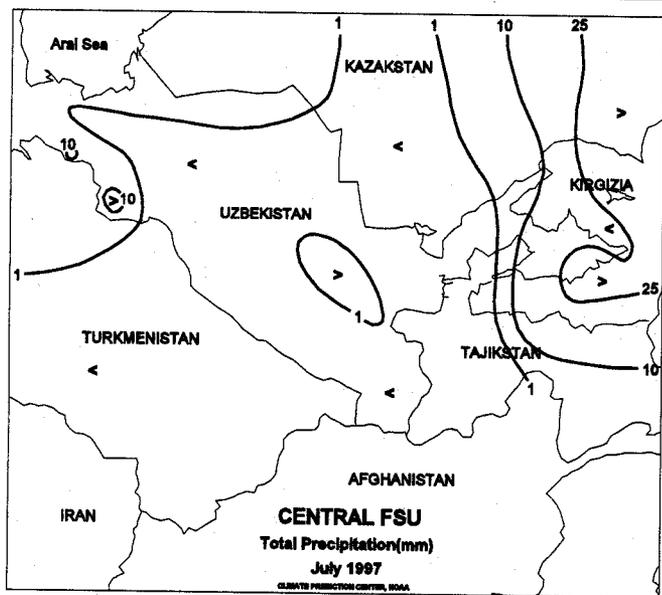
**SOUTHEAST ASIA:** Scattered showers brought some relief to rainfed second-season crops across Java, but below-normal rainfall continued across most of the Philippines.

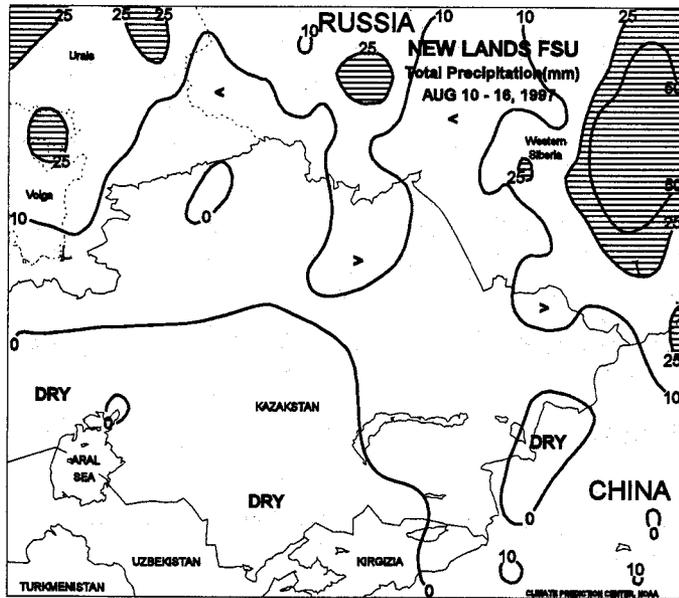
**EASTERN ASIA:** Drought worsened across the North China Plain, threatening yield prospects of soybeans and other summer crops.

**AUSTRALIA:** Lingering showers benefited winter grains in the southeast.

**CANADA:** Cool, wet weather hampered Prairie spring grain and oilseed harvests but benefited immature crops.

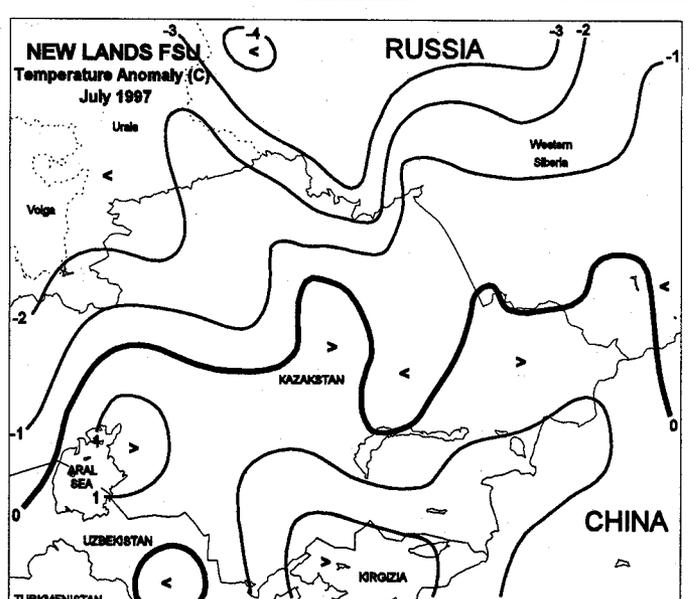
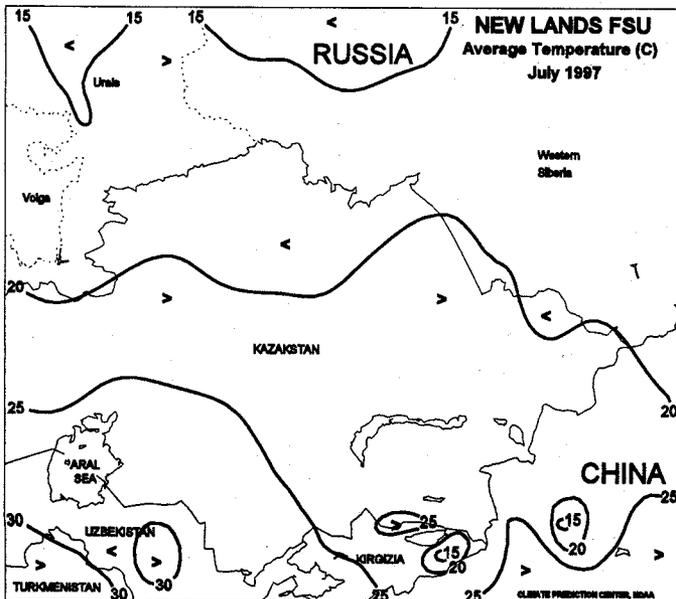
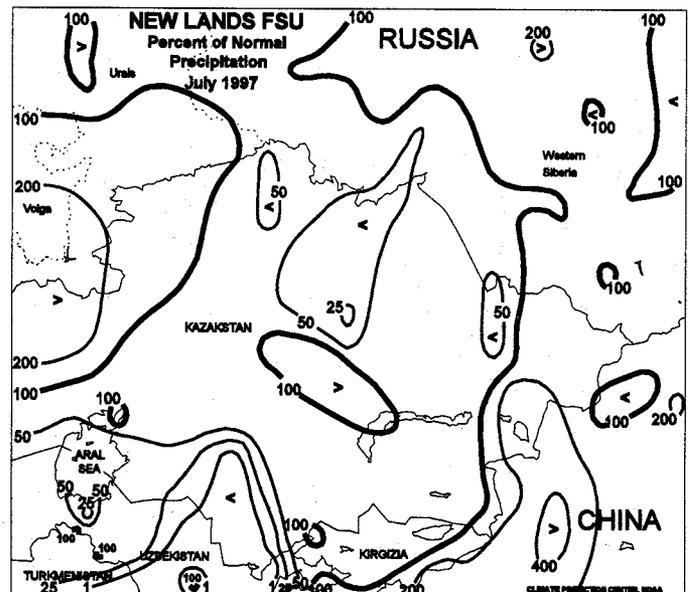
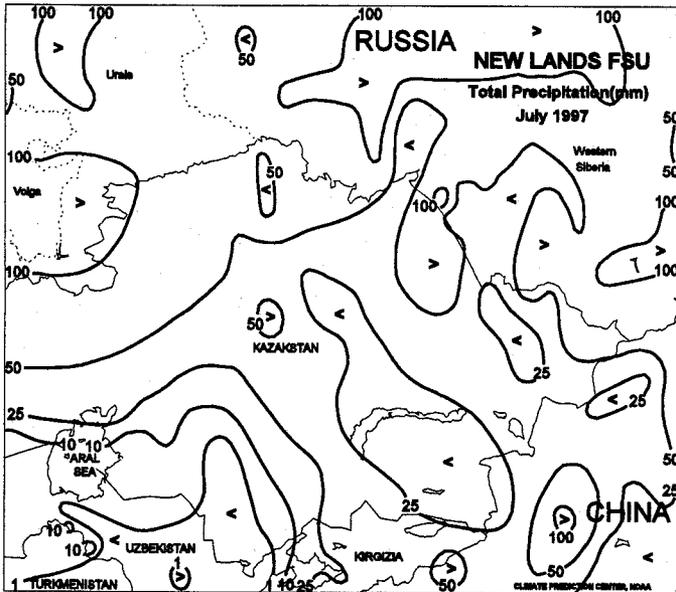
**MEXICO:** Unseasonable dryness stressed reproductive to filling corn across the western corn belt.

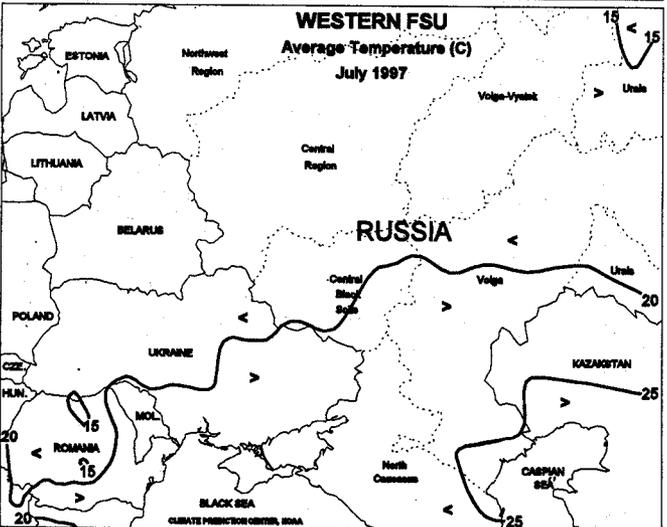
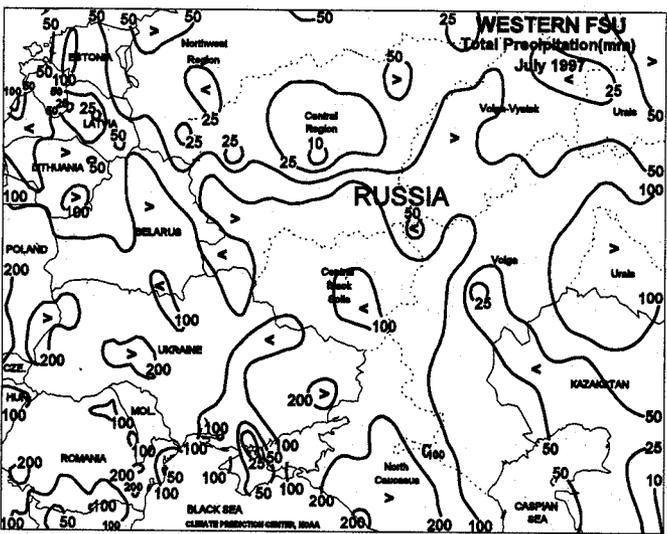
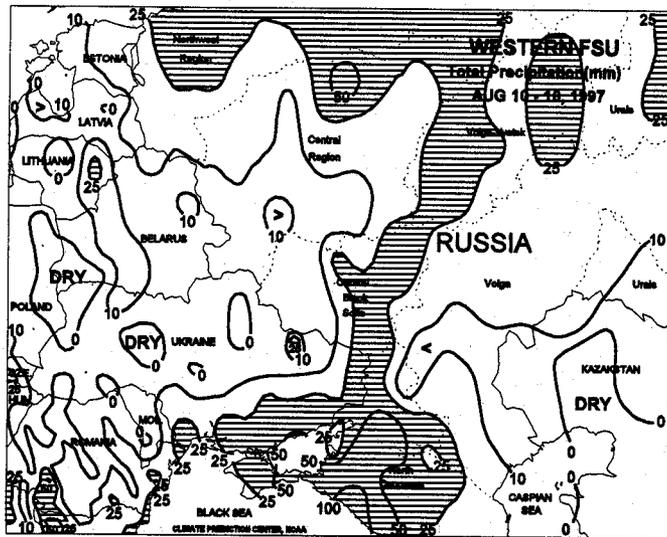




**FSU-NEW LANDS**

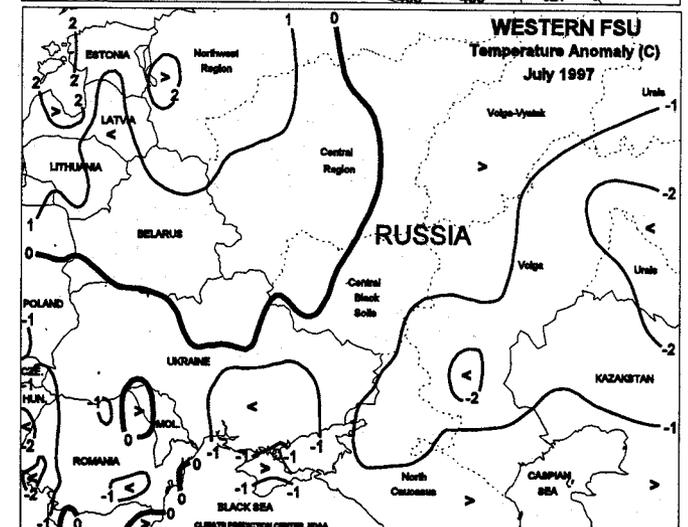
In Russia, spring grains were filling in most areas, except in the southern Urals and the Altay Kray region where crops were maturing. Light to moderate showers (5-25 mm, with widespread amounts in excess of 50 mm in eastern areas) benefited spring grains in the filling stage. A cold snap briefly occurred in eastern spring grain areas in Western Siberia. The lowest temperatures (mostly 1-5 degrees C) occurred on August 12, creating the potential for patchy frost. However, temperatures did not fall low enough to threaten spring grains in the filling stage. In Kazakhstan, scattered light showers benefited immature spring grains and caused only brief delays in early spring grain harvesting. In July, near- to above-normal precipitation in most of Russia and Kazakhstan favored spring grains, which advanced through the reproductive phase of development. However, patchy areas of dryness remained in the Altay Kray region in Russia as well as in eastern Kazakhstan. Unseasonably cool weather persisted throughout July in Russia and Kazakhstan, slowing crop development. Monthly temperatures averaged more than 4 degrees C below normal in northernmost areas in Russia and 1 to 3 degrees C below normal in remaining areas.

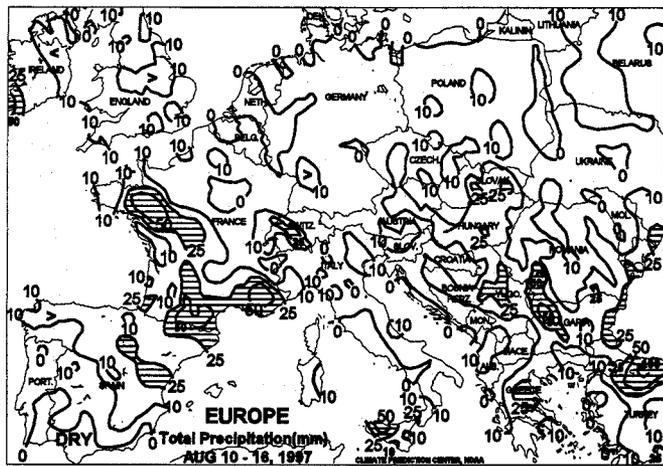




**FSU-WESTERN**

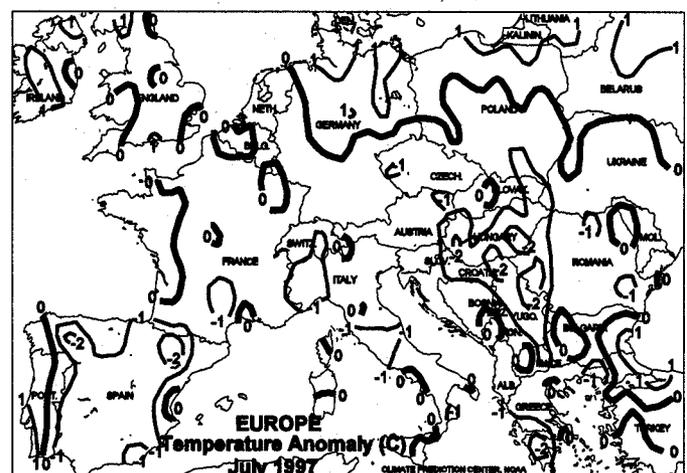
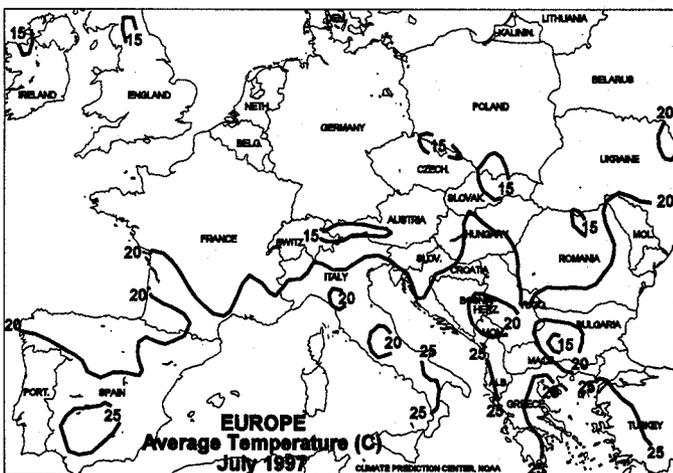
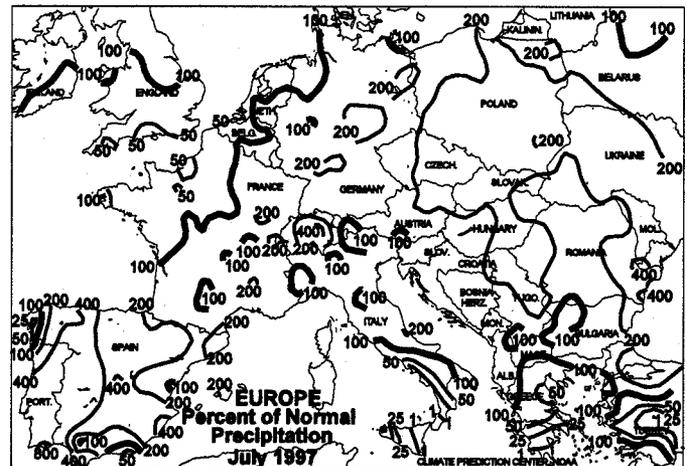
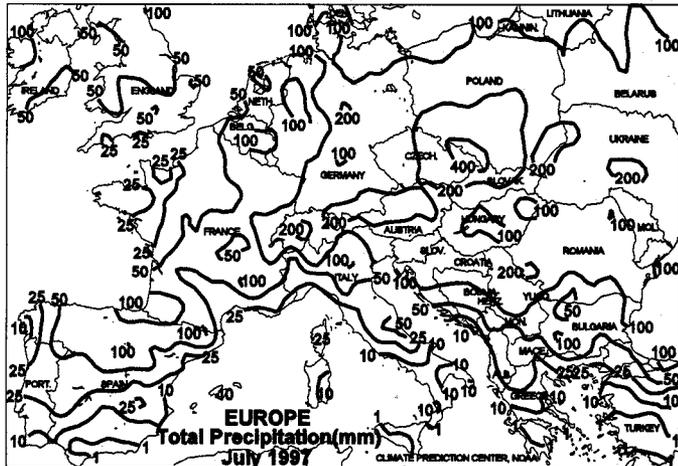
In Ukraine, generally dry weather in the west and north improved conditions for winter and spring grain harvesting. However, showery weather (10-49 mm) in the east continued to hamper harvest activities. Reports as of August 11 indicated that harvest of spring grains and pulses, excluding corn, was about 56 percent completed, compared with 68 percent for the same time last year. In Russia, heavy rains continued in the North Caucasus, likely causing localized flooding and some crop lodging. In central and northern Russia, frequent showers (10-47 mm) were accompanied by unseasonably cool weather, aggravating harvest activities. Reports as of August 11 indicated that about 27 percent of small grains and pulses were harvested in Russia, compared with 36 percent last year. Furthermore, the rain slowed planting of the 1998 winter grain crops. Planting typically begins in northern areas of Russia in mid-August. In July, well-above-normal rainfall drenched crop areas in Ukraine and southern Russia (North Caucasus, southern Black Soils Region, and the middle and lower Volga Valley), delaying winter grain harvesting and threatening crop quality. The precipitation (100-200 mm, with locally scattered amounts in excess of 200 mm) fell frequently during the month and followed above-normal rainfall in June, keeping soils saturated. Although the rain provided abundant to excessive moisture for summer crops, unseasonably cool weather slowed crop development. Farther north, below-normal precipitation in northern Russia (Northwest Region, Central Region, and Volga Vyatsk) along with near-normal temperatures favored winter grain maturation and early harvesting.



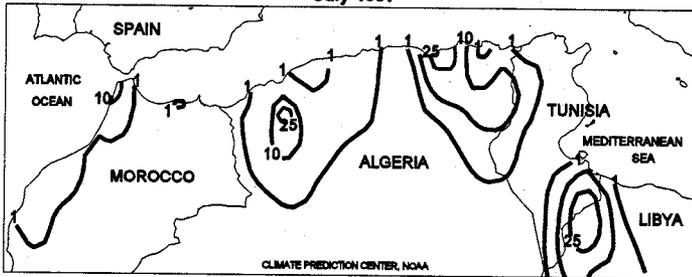


**EUROPE**

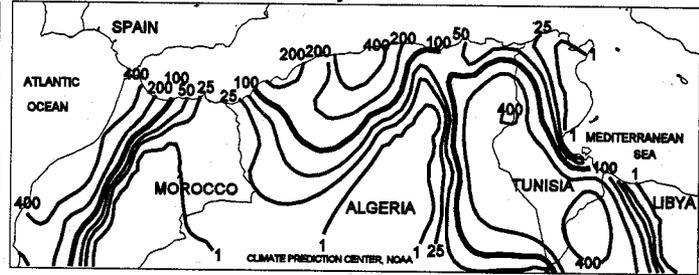
Drier and unseasonably warm weather (rainfall less than 10 mm) prevailed over northern Europe, including Scandinavia, favoring winter and spring grain maturation and allowing rapid harvesting. Farther east, rainfall diminished in southern Poland, the Czech Republic, Slovakia, Hungary, and Romania, allowing floodwaters to recede, improving conditions for summer crop development, and favoring late winter wheat harvesting. Light to moderate rain (10-25 mm) in Bulgaria and eastern areas of former Yugoslavia benefited summer crop development. Weekly temperatures averaged 3 to 5 degrees above normal in most of Europe, promoting summer crop development. The exception was in the southeast, where temperatures averaged 1 to 3 degrees C below normal. In July, frequent periods of heavy rain were widespread across eastern Europe, causing flooding and crop damage. Greatest amounts of rain (200-400 mm) inundated areas in southwestern Poland, the Czech Republic, northern Slovakia, Austria, and eastern Romania. In western Europe, wet weather in early July was followed by drier weather that began around July 20 and persisted until month's end, improving conditions for harvesting.



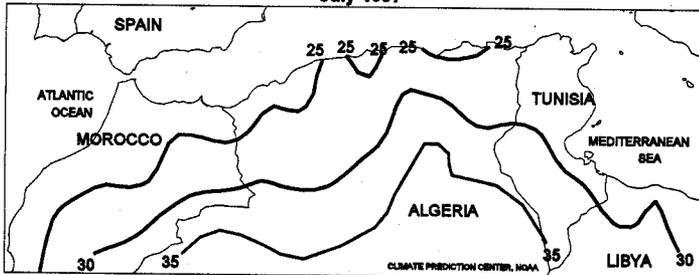
**NORTHWEST AFRICA Total Precipitation (mm)**  
July 1997



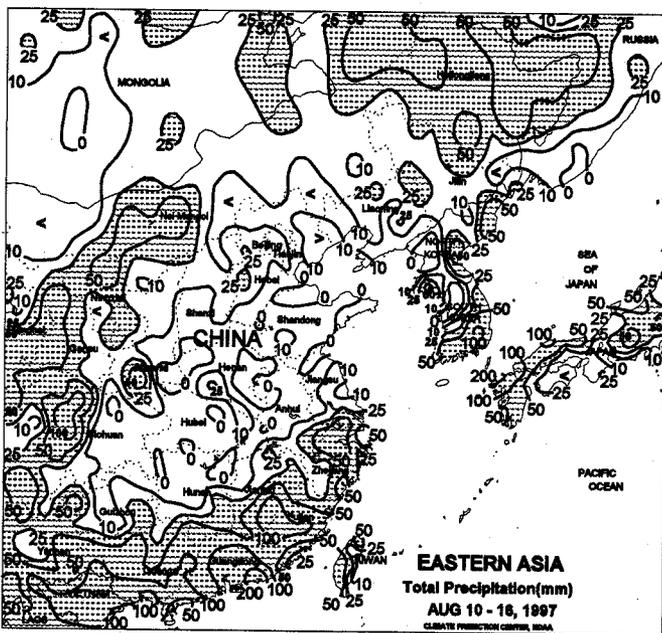
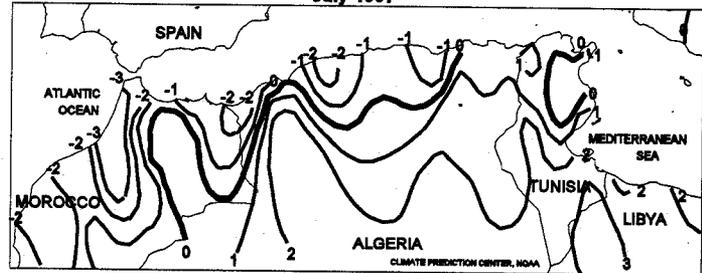
**NORTHWEST AFRICA Percent of Normal Precipitation**  
July 1997



**NORTHWEST AFRICA Average Temperature (C)**  
July 1997

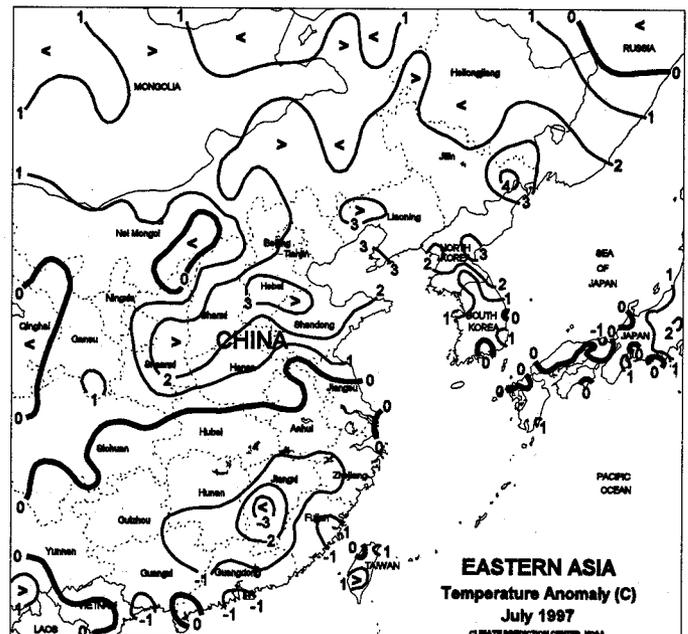
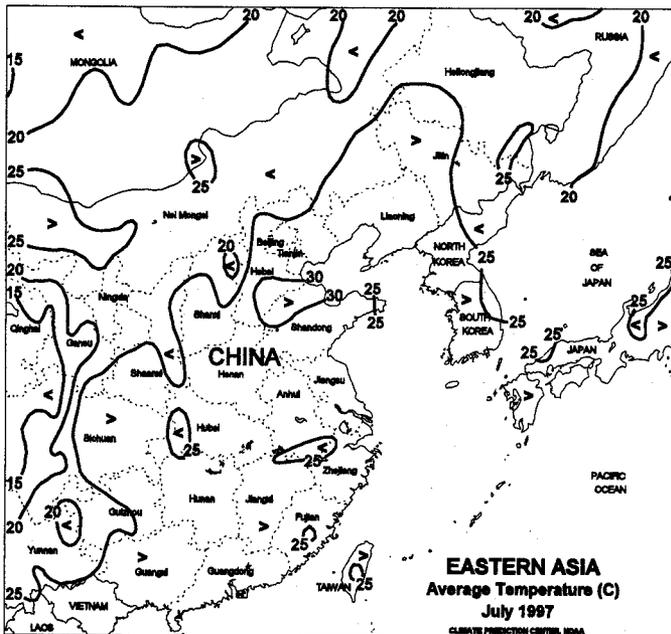
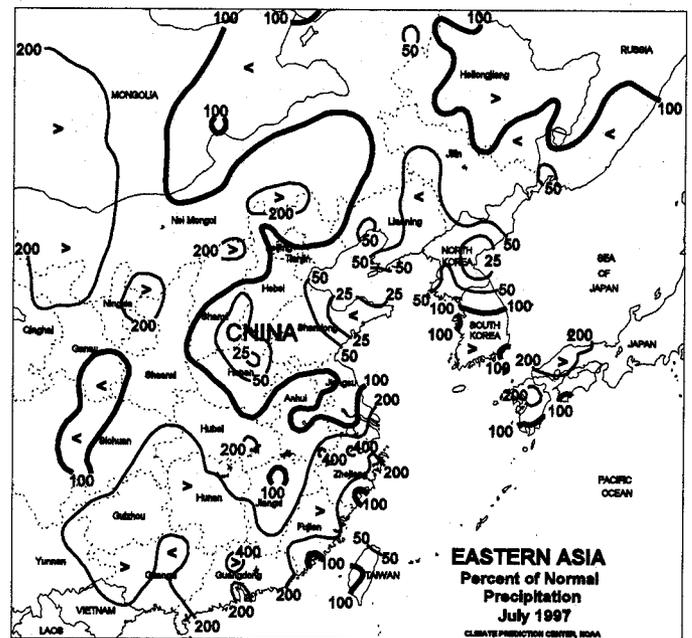
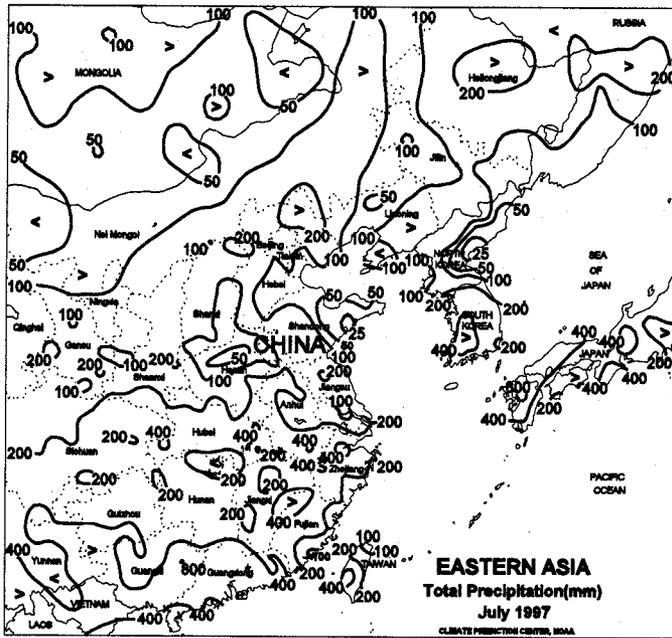


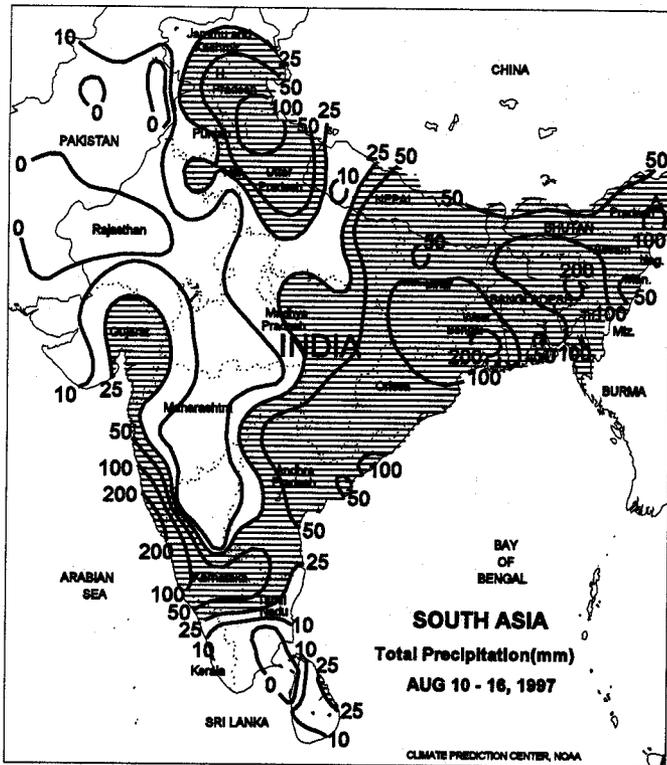
**NORTHWEST AFRICA Temperature Anomaly (C)**  
July 1997



**EASTERN ASIA**

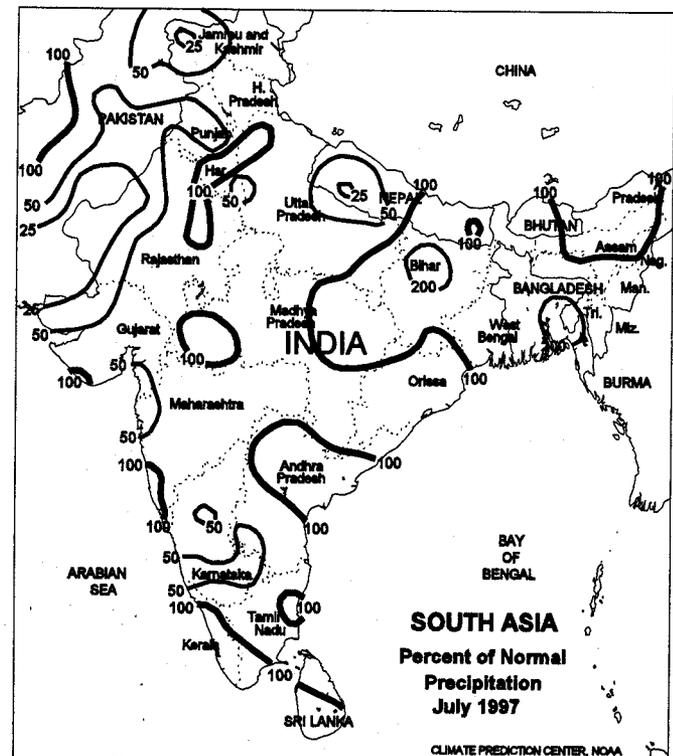
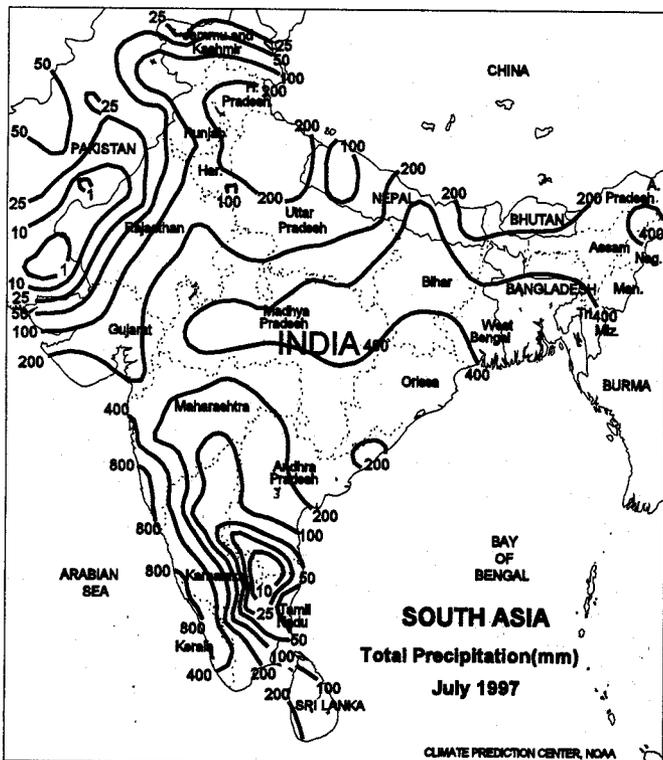
Mostly dry, warm weather prevailed across the North China Plain, worsening drought conditions. Rain is needed to stabilize declining yield prospects, especially for soybeans and cotton. Temperatures averaged 1 to 3 degrees C above normal, increasing water demand on the crops. Widespread rain (15-60 mm) covered Manchuria, providing favorable moisture for reproductive soybeans and filling spring wheat. Dry weather prevailed across central China (Hubei, eastern Sichuan, and northern Hunan), favoring maturing summer crops. Moderate to heavy showers (50-125 mm) covered the southern Chinese coastal provinces, maintaining favorable moisture levels for rice, but causing some local flooding. Dry weather returned to the main crop area of western North Korea, reducing moisture for summer crops. Moderate rain (15-40 mm) continued to favor rice across most of South Korea and all of Japan. During July, rainfall ranged from 30 to 75 percent of normal across the North China Plain, reducing corn yield prospects and stressing soybeans and cotton. Below-normal July rainfall also prevailed across southern Manchuria (Liaoning and southern Jilin) and North Korea. However, near-normal rainfall favored summer crops in northern Manchuria (Heilongjiang). South Korea and Japan received above-normal rainfall, maintaining rice irrigation supplies. July temperatures averaged slightly above normal across South Korea and southern Japan and 1 to 2 degrees C above normal across northern Japan, aiding rice development.

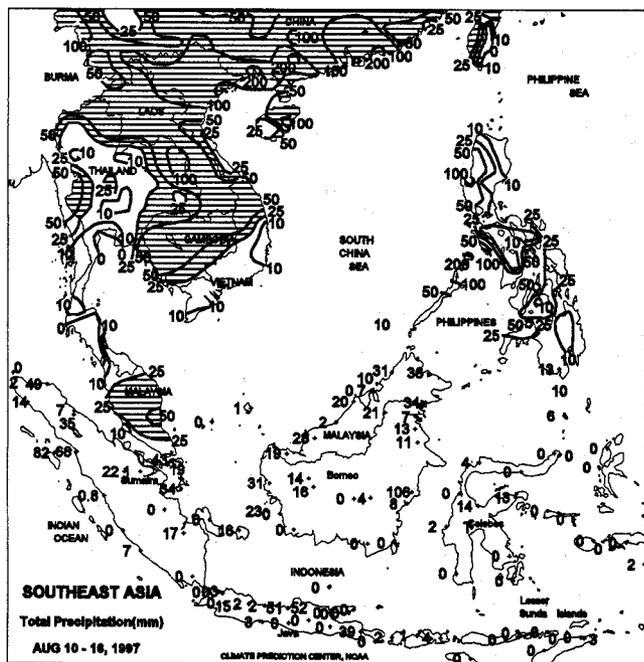
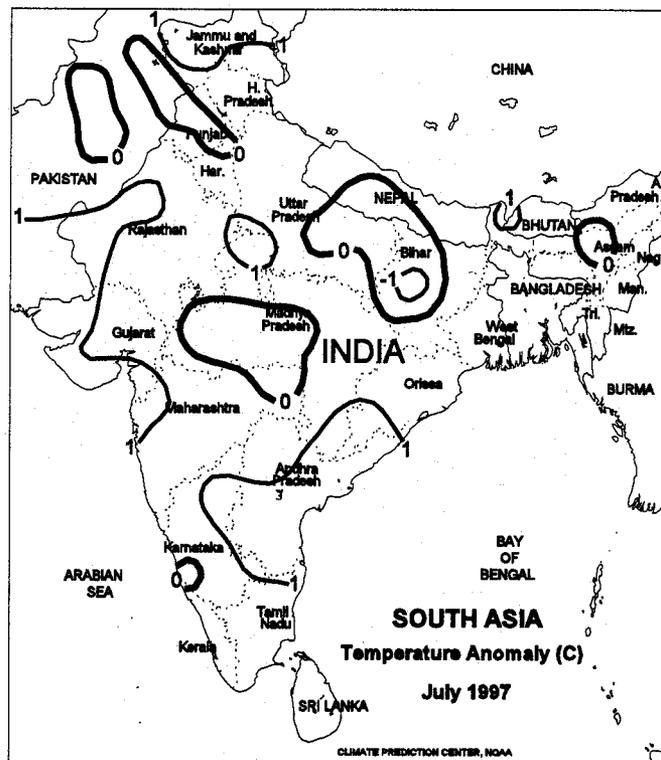
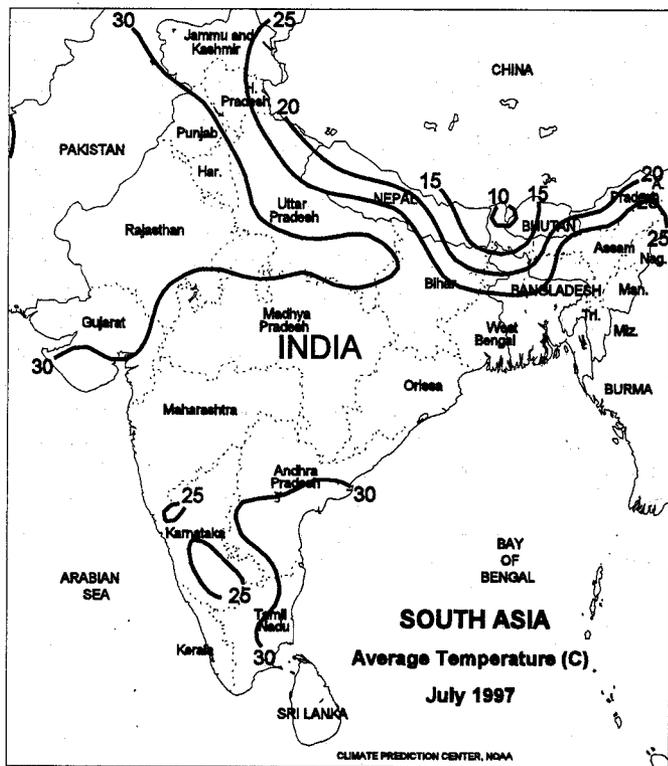




**SOUTH ASIA**

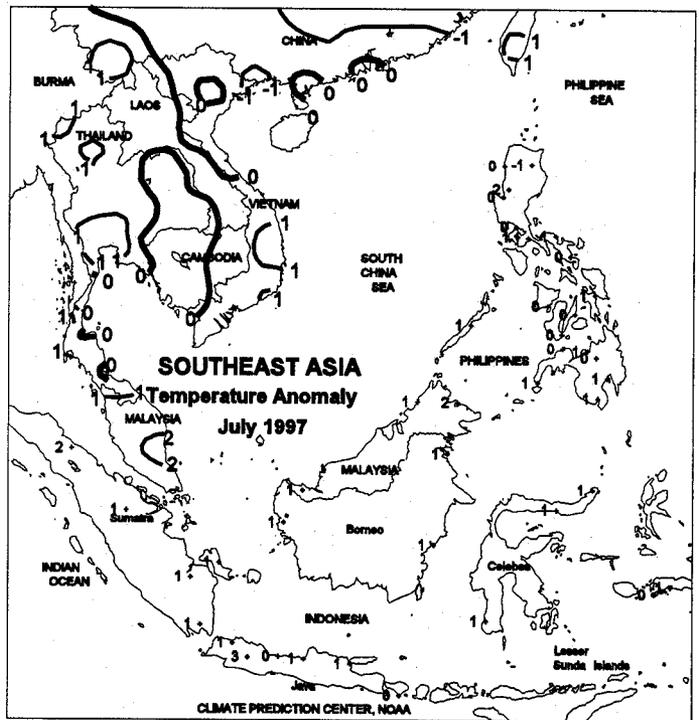
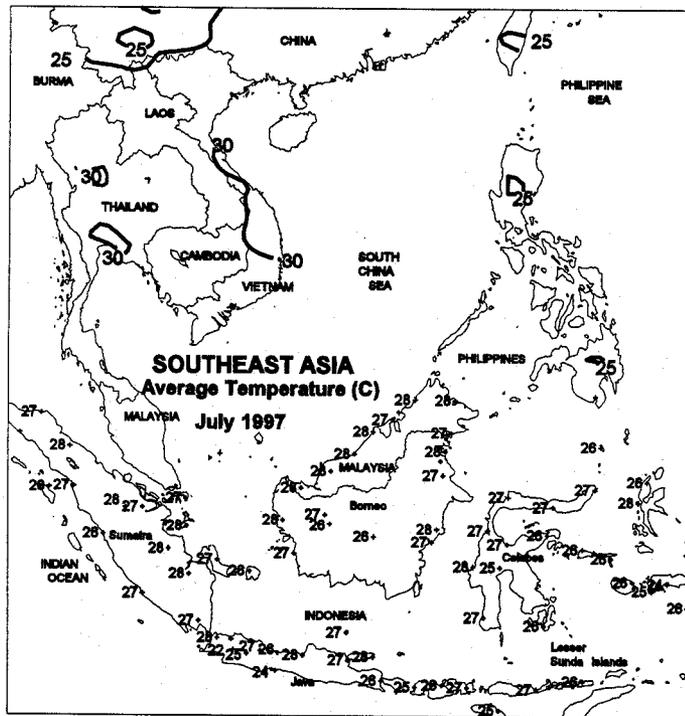
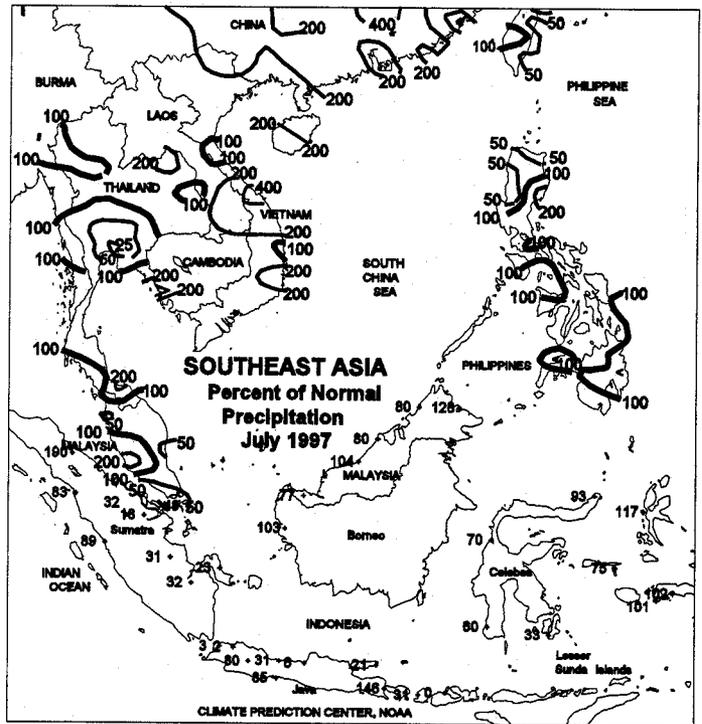
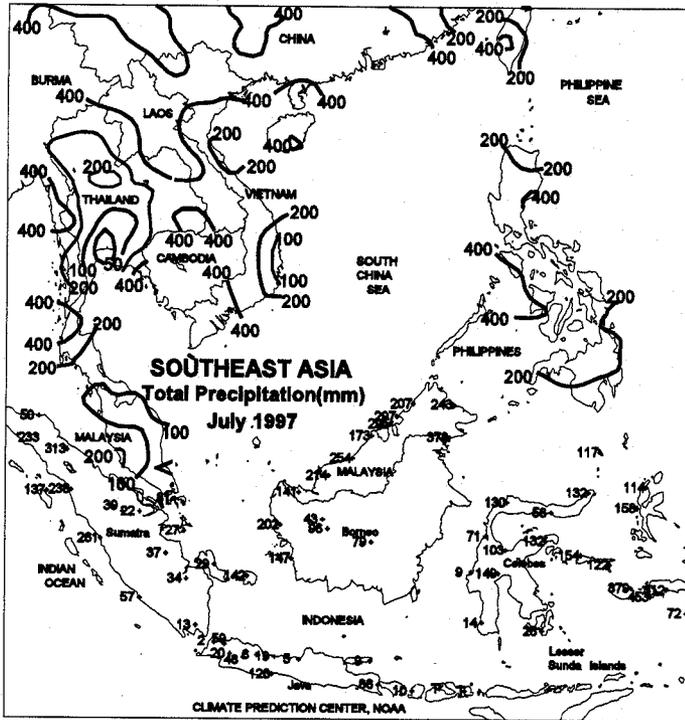
Heavy rain (50-100 mm or greater) persisted over major eastern rice areas, worsening local floods. The rains extended westward into rice land from Andhra Pradesh to Bihar but declined somewhat over rainfed regions of eastern Madhya Pradesh, aiding crop growth. Similarly, warm, dry weather in soybean areas of western Madhya Pradesh favored crop development, with highs capped in the low 30's C. Highly beneficial rain (24-80 mm) covered oilseed and cotton areas of Andhra Pradesh, but adjacent crop areas in the southern interior remained unseasonably dry, as did most primary groundnut areas of Gujarat. Farther north, scattered, locally heavy showers (25-50 mm or more) covered India's northern cotton and rice areas but missed Pakistan. During July, the monsoon was very active over central and eastern India and Bangladesh, causing flooding and keeping crops such as soybeans and rice unfavorably wet. In contrast, July rainfall was below normal in western India and sections of the southern interior, although timely showers were recorded in the major grain, oilseeds, cotton, and sugarcane areas.

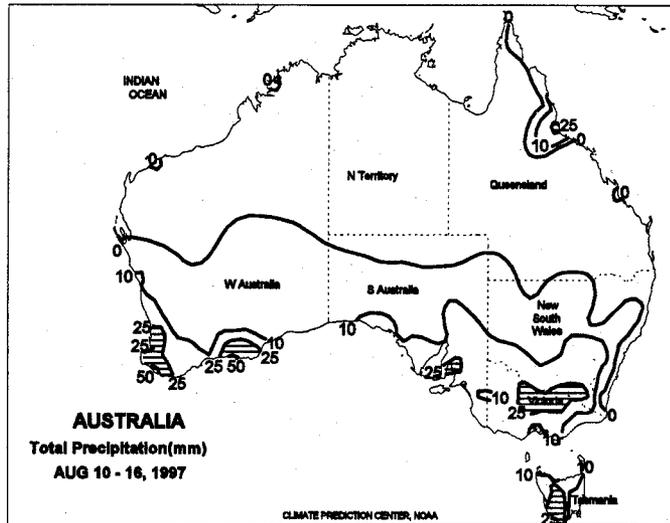




**SOUTHEAST ASIA**

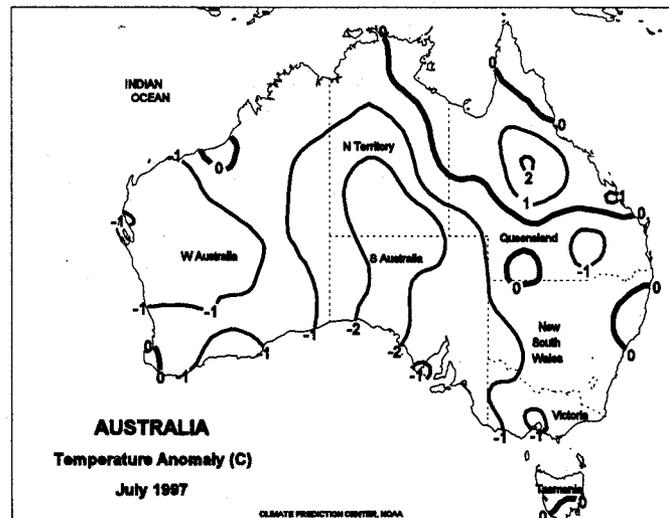
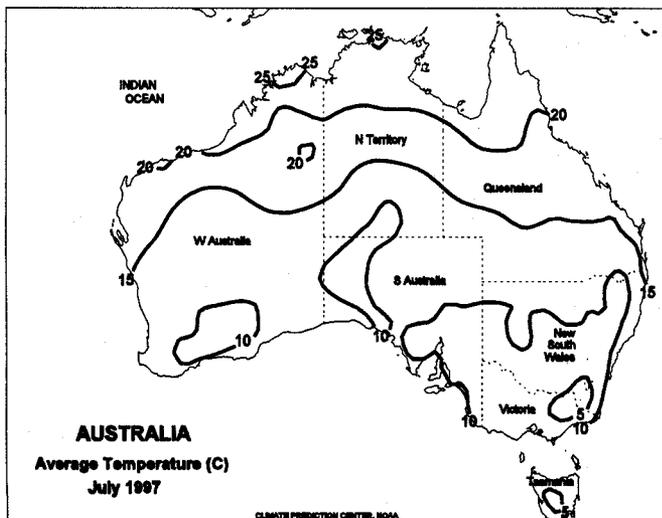
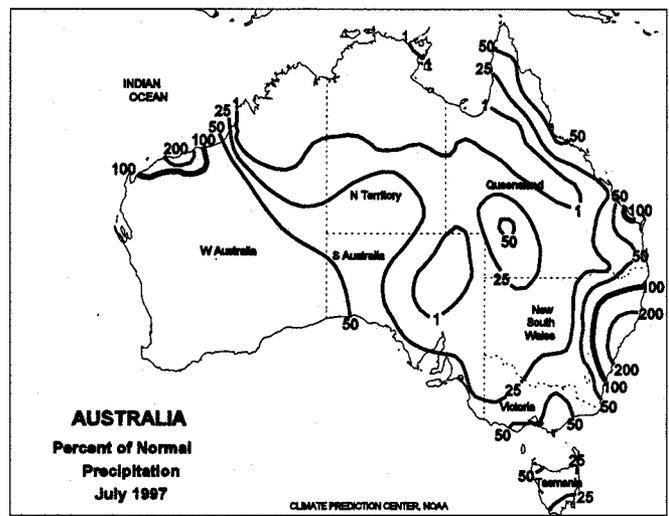
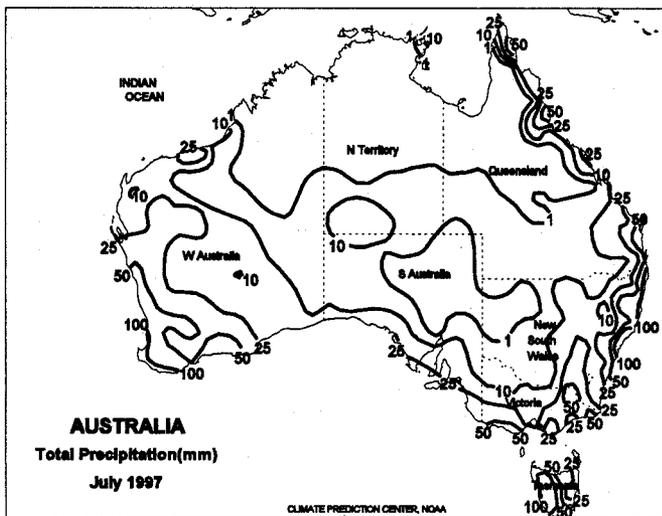
Scattered showers (5-40 mm) brought some relief to rainfed second-season crops across Java, but more rain is needed. Dry weather continued to reduce moisture supplies across southern Sumatra. In Thailand, seasonable showers (50-125 mm) boosted irrigation supplies in the extreme northern and eastern areas of the country. Lighter showers (20-30 mm) were reported elsewhere, reducing available moisture supplies. A small pocket near Bangkok, which continued to be the driest region in Thailand, received less than 10 mm. In Vietnam, heavy showers (70-150 mm) maintained moisture supplies for 10th-month rice in the north, while drier weather (10-25 mm) favored maturing summer-autumn rice in the south. Showers (30-50 mm) continued to ease long-term moisture deficits across eastern peninsular Malaysia. Scattered showers (10-50 mm) continued the drying trend across the Philippines, reducing moisture for main-season crops. During July, rainfall averaged below normal across Java, except for near-normal rainfall reported in the extreme east. July rainfall averaged below normal across south-central Thailand, while near-normal July rainfall benefited crops elsewhere in the country. Near-to above-normal July rainfall maintained moisture supplies across Vietnam and the Philippines. Below-normal July rainfall reduced moisture supplies across eastern peninsular Malaysia, while the western areas averaged near normal.

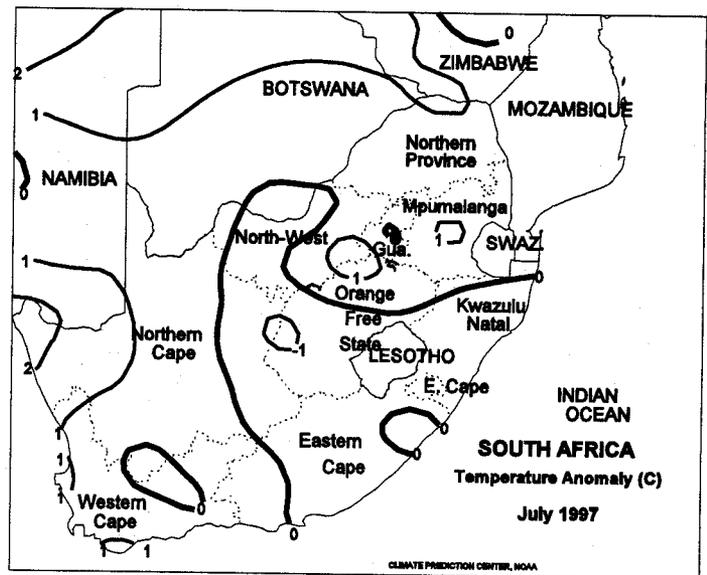
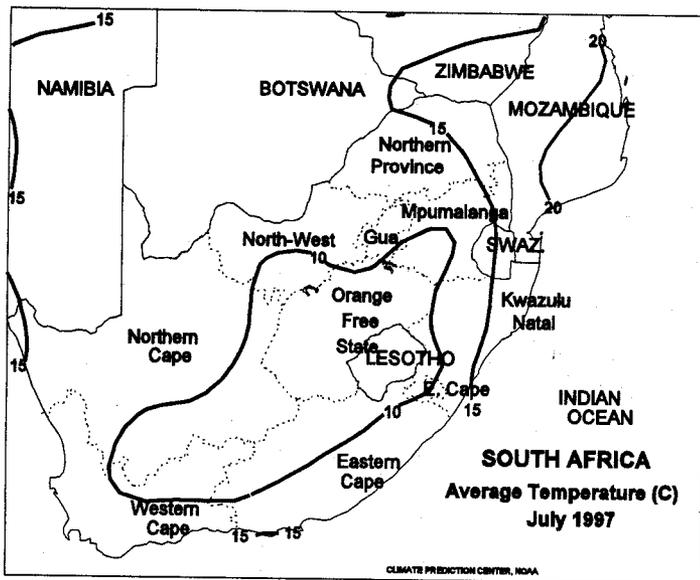
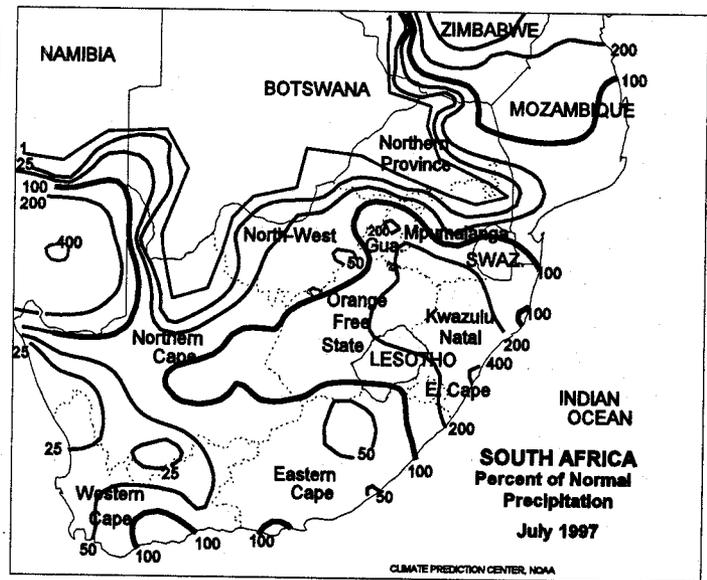
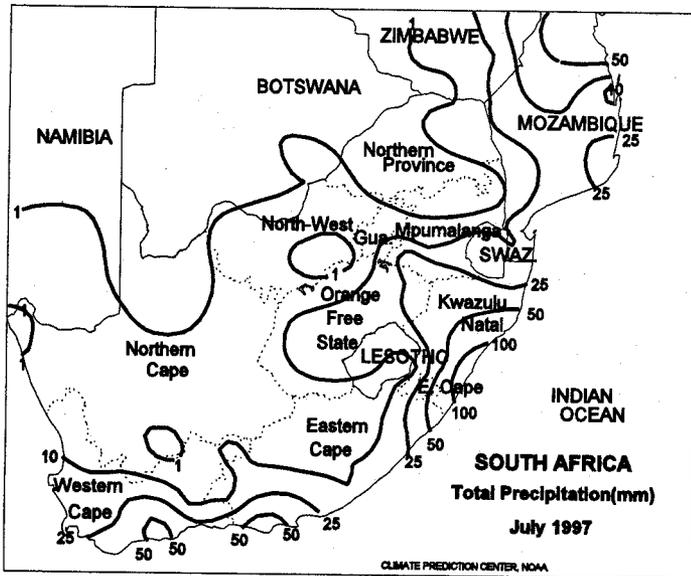


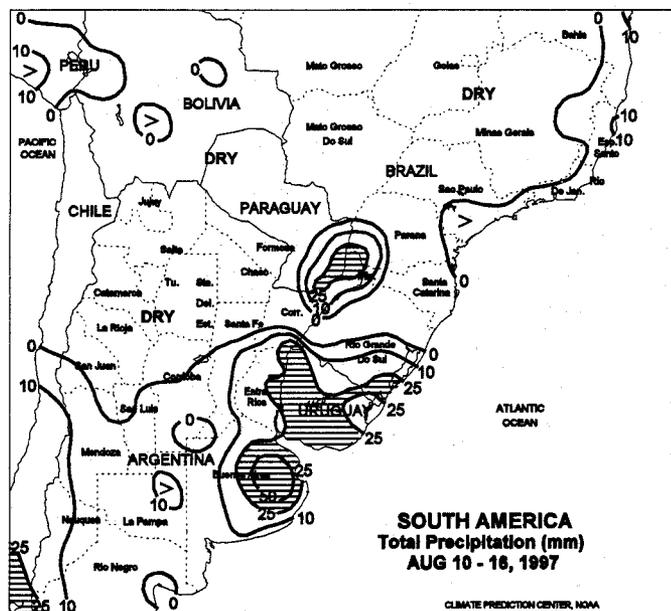


**AUSTRALIA**

Showers tapered off early in the week over the west and southeast. However, rainfall totals of 5 to 25 mm were common in winter grain areas from Western Australia to central New South Wales. The rain has been especially beneficial for drought-stricken grains in the southeast. In northern wheat and barley areas, cool, dry weather limited crop growth, with frost and freezing temperatures prevalent in southeastern Queensland. In New Zealand, moderate showers (10-25 mm or more) covered western and northern agricultural areas, while lighter rain (10 mm or less) continued in east-coastal areas. During July, the drought intensified over southeastern Australia, with most growing areas of Victoria and South Australia receiving only 10 to 50 percent (5-25 mm) of their normal monthly rainfall. Unseasonable dryness also continued in Australia's east-central winter grain belt. Cooler-than-normal weather kept crops in a semi-dormant state and restricted premature development. Periodic, albeit below-normal, rainfall in July maintained favorable crop prospects in Western Australia.

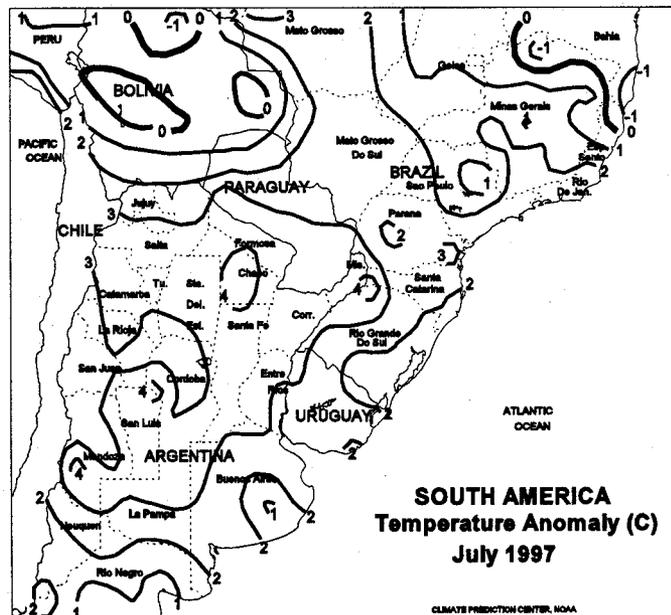
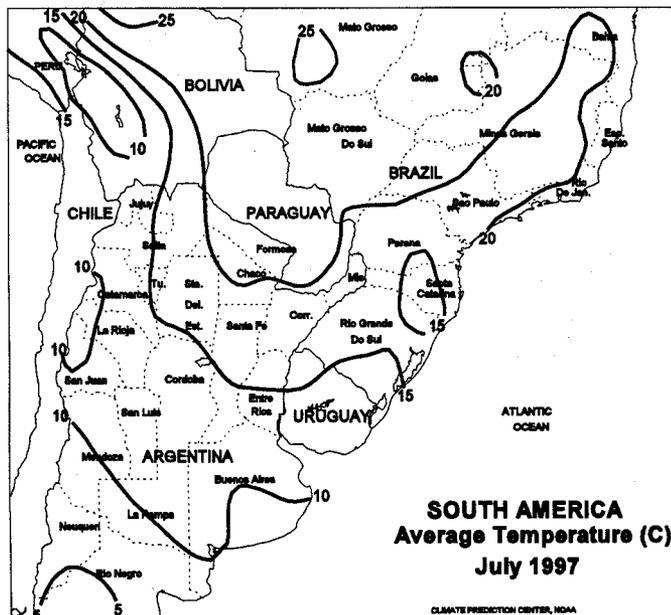
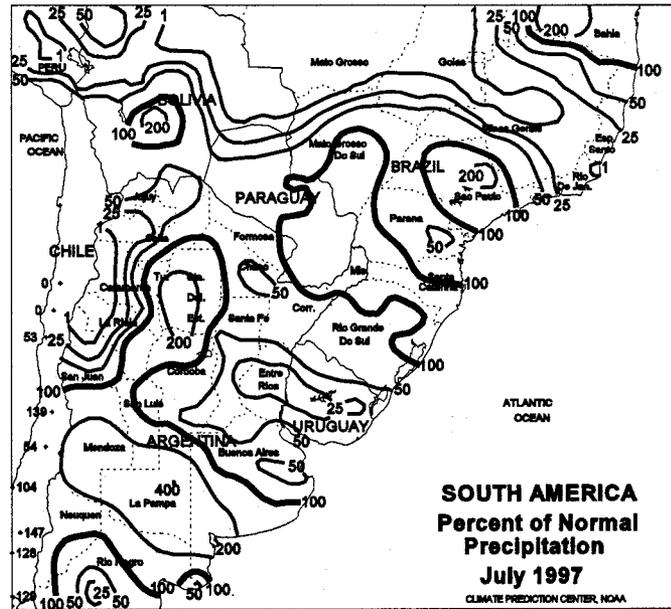
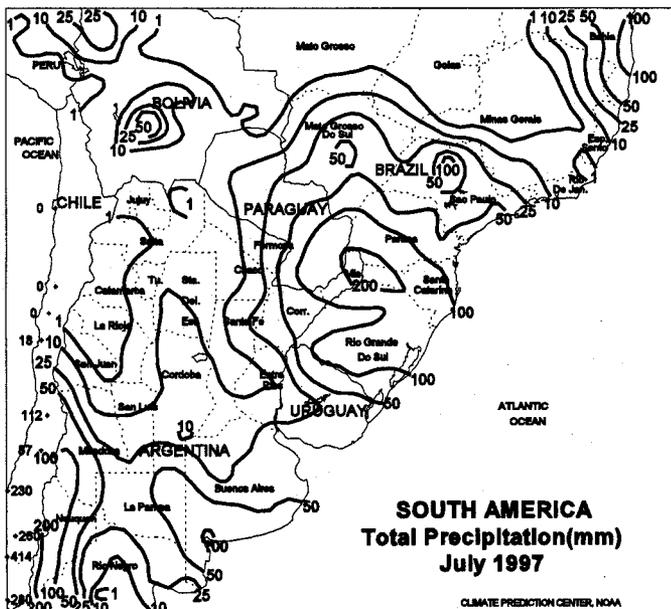






**SOUTH AMERICA**

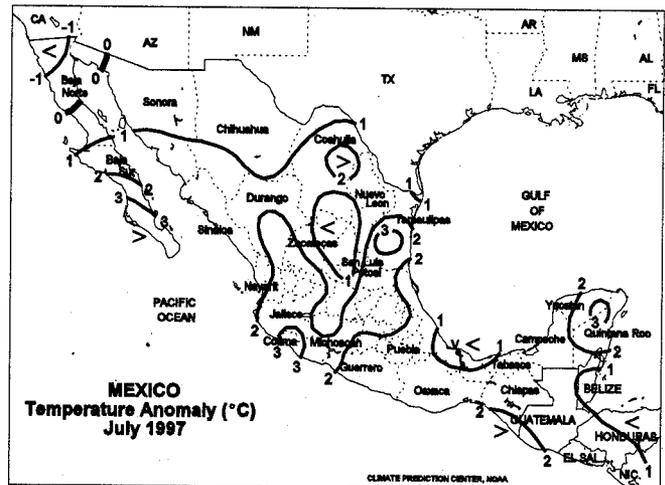
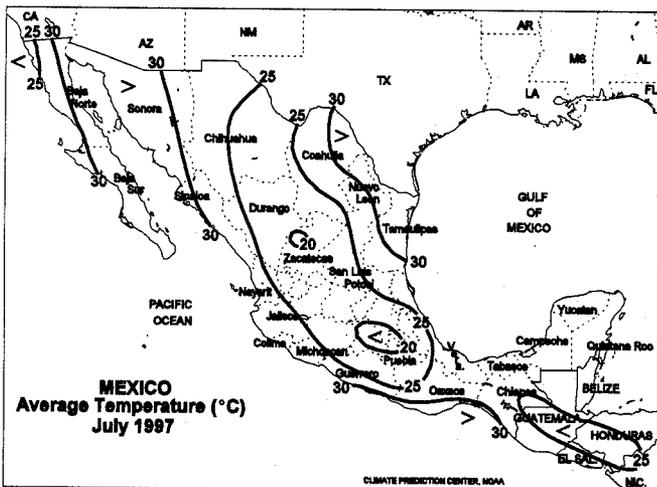
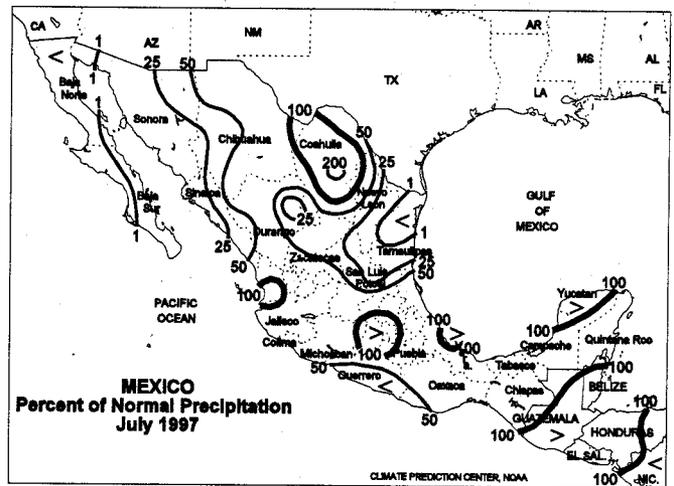
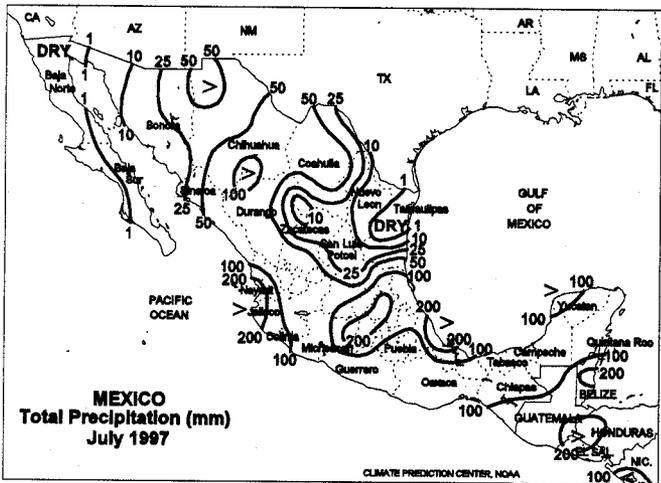
In Argentina, rain (10-30 mm, with isolated amounts greater than 40 mm) boosted topsoil moisture for germinating to vegetative winter wheat across Buenos Aires and La Pampa. Light rain (less than 10 mm) brought some relief to dry topsoils in southern Santa Fe and Cordoba, but more rain is needed. Temperatures averaged 2 to 4 degrees C above normal across the region. In southern Brazil, dry weather helped to reduce wheat disease potential, after several weeks of persistent rain. During July, rainfall averaged above normal across southern Buenos Aires and La Pampa, providing abundant soil moisture for winter wheat, but slowing wheat planting. Below-normal rainfall continued across Cordoba and Santa Fe, also slowing wheat planting. In southern Brazil, near-normal July rainfall favored winter wheat development.

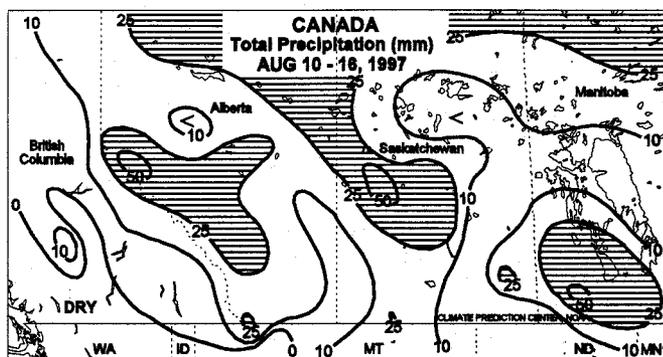




**MEXICO**

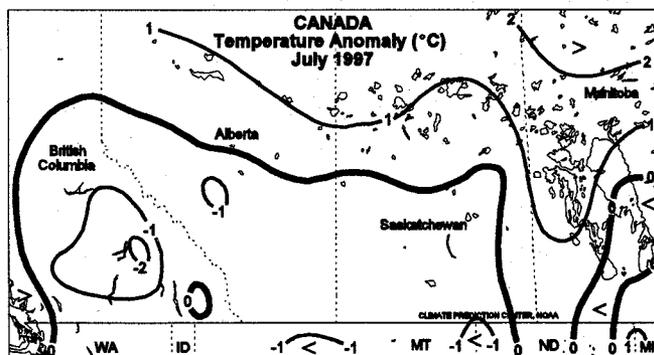
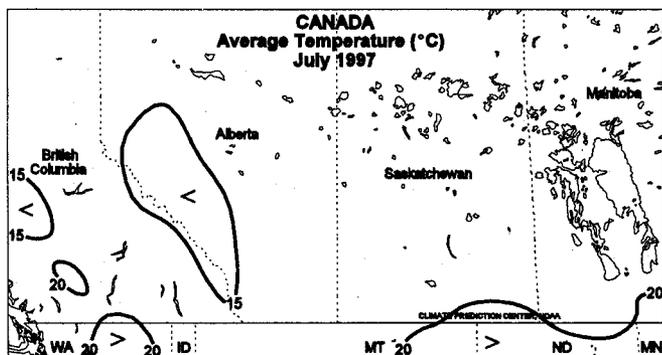
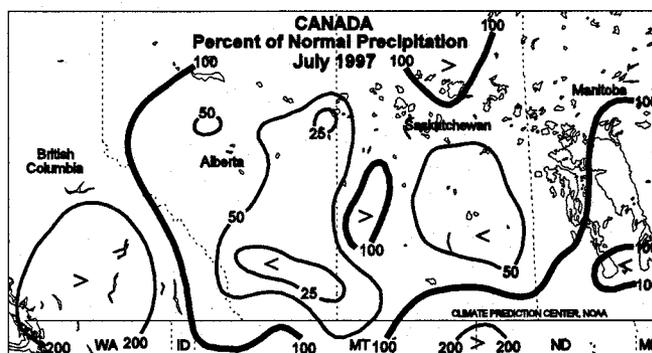
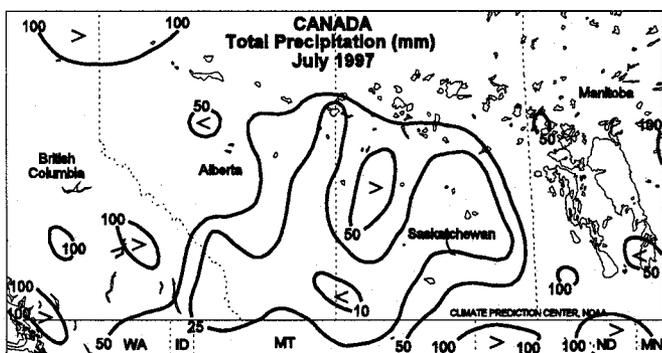
Based on satellite imagery (due to incomplete weather data), mostly dry weather increased stress on reproductive to filling corn across the main corn belt, especially in the west. Monsoon showers were light across northwestern Mexico, as the drought continued across northeastern Mexico. During July, rainfall averaged near normal across the eastern corn belt. In the western corn belt, July rainfall averaged 50 to 80 percent of normal, reducing moisture for vegetative to reproductive corn. Across the northeastern states of Tamaulipas and eastern Nuevo Leon, drought developed during July as rainfall averaged less than 25 percent of normal and temperatures averaged 1 to 3 degrees C above normal. Portions of north-central Mexico (Coahuila) received near- to above-normal rainfall, while the rest of northern Mexico received below-normal rainfall.





**CANADA**

Cool, wet weather swept across the Prairies, hampering early spring grain and oilseed harvests. Rainfall totaling 10 to 25 mm or more benefited immature crops at many locations but came too late for some drought-stressed fields, especially in southeastern districts. Lows dipped to 1 degree C in northern growing areas, but frost, if any, had little crop impact. In the east, moderate to heavy showers (25-50 mm or more) in Ontario and Quebec benefited corn and soybeans following a dry spell. In July, a drying trend intensified across the Prairies, resulting in stress on reproductive to filling spring grains and oilseeds by month's end. However, July temperatures remained seasonable, reducing the potential for severe stress. A July drying trend, initially beneficial, also enveloped Ontario and Quebec, resulting in some pockets of unfavorable dryness by early August.



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## ENSO Update

*The following is based on the El Niño/Southern Oscillation (ENSO) advisory issued on August 13, 1997, by the Climate Prediction Center, National Centers for Environmental Prediction (NCEP).*

Strong warm episode (El Niño) conditions continued throughout the equatorial central and eastern Pacific during July. Equatorial sea surface temperature (SST) anomalies (departures from normal) were greater than +1°C everywhere from 180°W to the South American coast. Anomalies exceeding +3°C were observed along the equator east of 140°W. All of the Niño regions during July featured large positive anomalies that are comparable to those observed during the strongest warm episodes in the last 50 years (1972 and 1982-83).

Over the past few seasons, the NCEP statistical (CCA) and coupled model predictions have consistently indicated the development of a strong warm episode. The latest NCEP forecasts indicate that strong warm episode conditions will continue throughout the remainder of the year and into early 1998.

Based on the NCEP SST predictions and the results from historical studies on the effects of warm episodes, we expect

drier-than-normal conditions to occur over Indonesia and eastern Australia during the next several months. Drier-than-normal conditions are also likely over most of Central America and the Caribbean Sea. Rainfall should continue to be heavier than normal over the central and eastern equatorial Pacific and from central Chile eastward across northeastern Argentina, Uruguay, and southern Brazil. During the northern hemisphere's winter season, we expect wetter-than-normal conditions to prevail over most of the extreme southern United States, and warmer-than-normal conditions to develop over the northern United States from the Rocky Mountains eastward to the western Great Lakes.

Weekly updates for SST, 850-hPa wind, and OLR are available on the Climate Prediction Center homepage at: <http://nic.fb4.noaa.gov> (ENSO Update).

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