

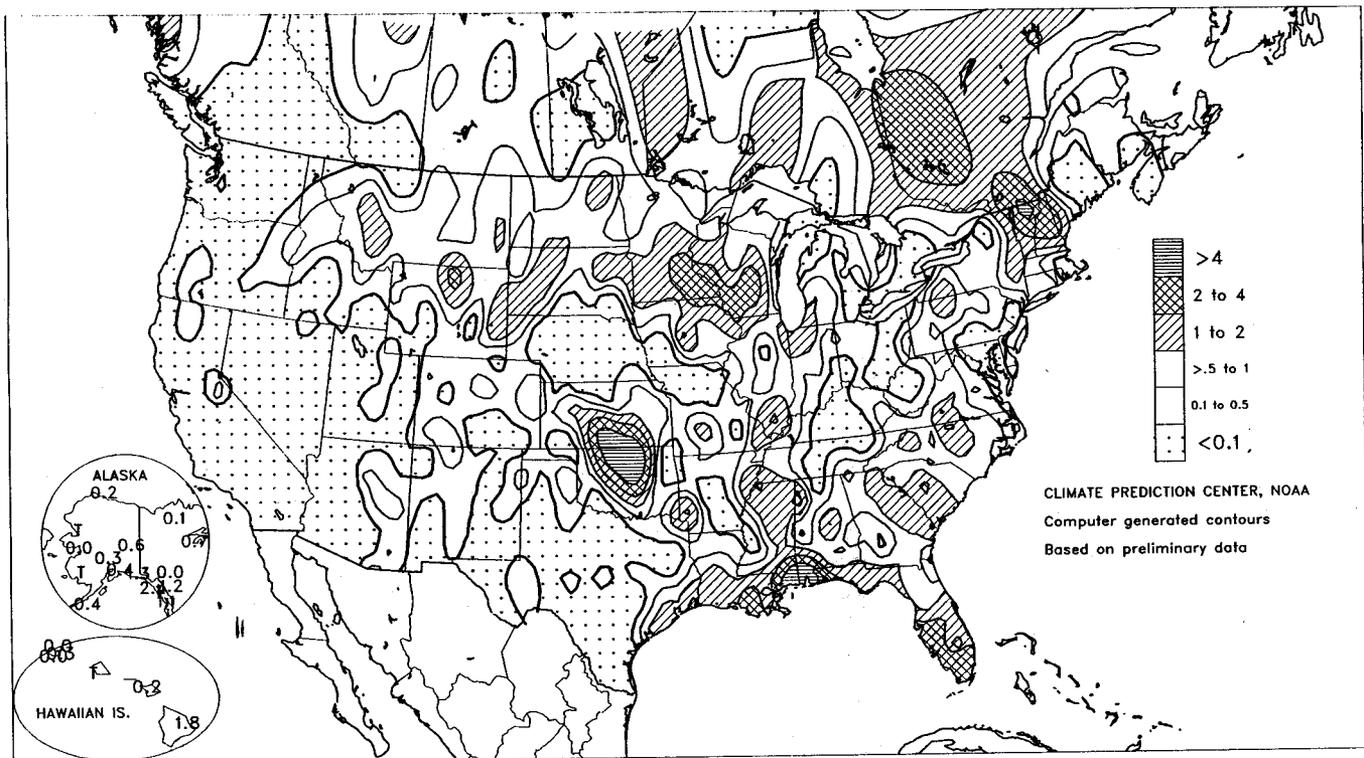
# WEEKLY WEATHER AND CROP BULLETIN

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

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

Total Precipitation (Inches)

JUL 13 - 19, 1997



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

## HIGHLIGHTS

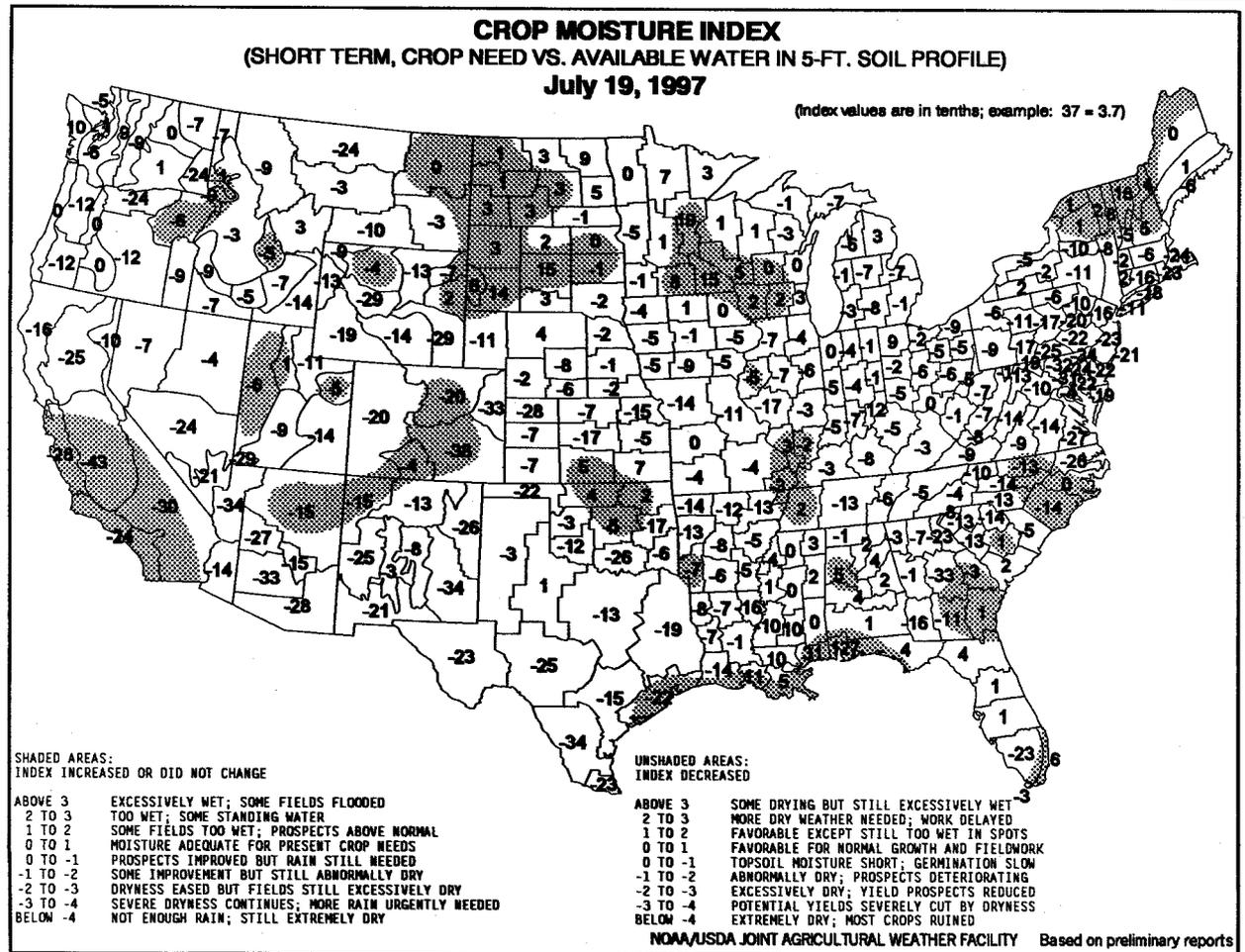
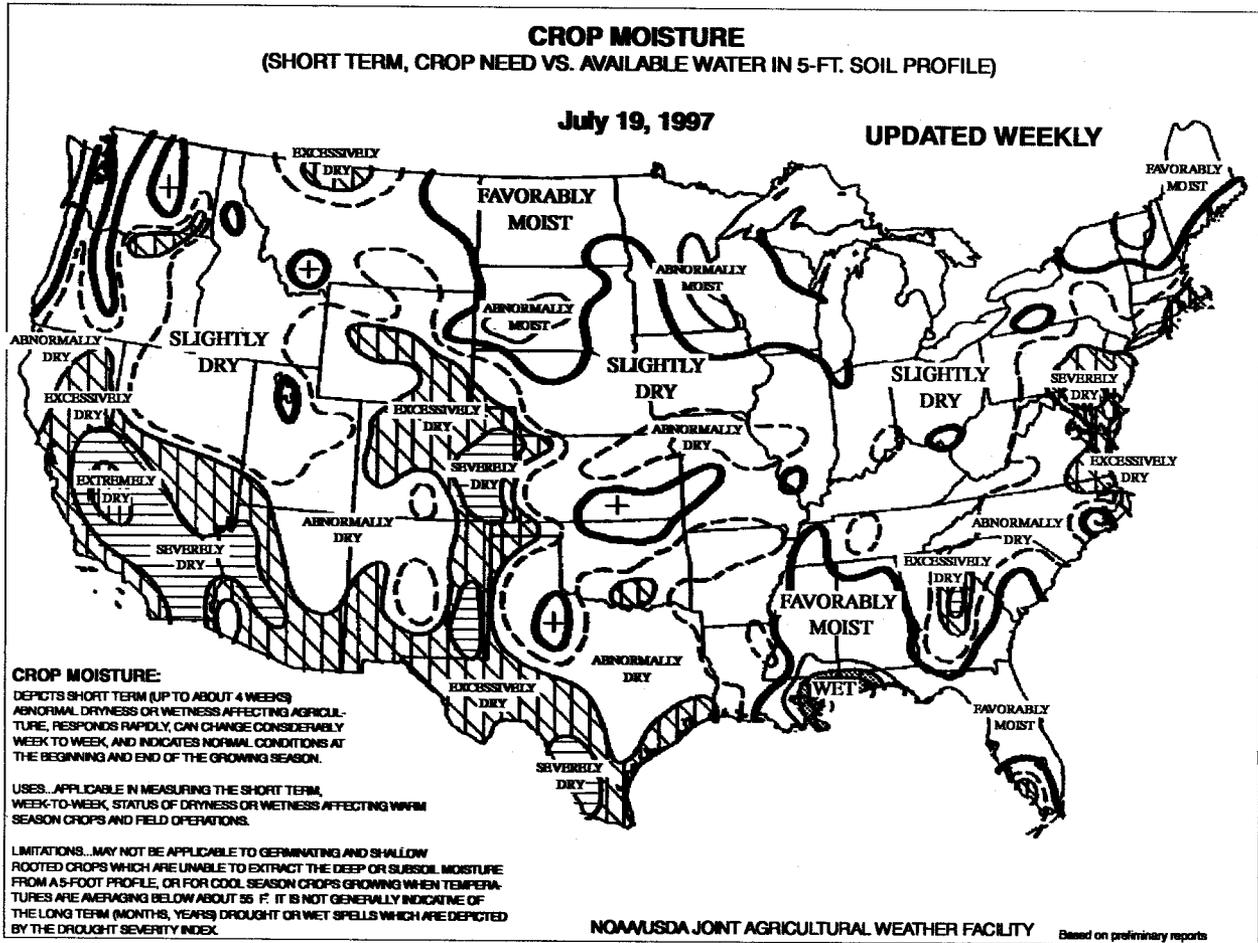
July 13 - 19, 1997

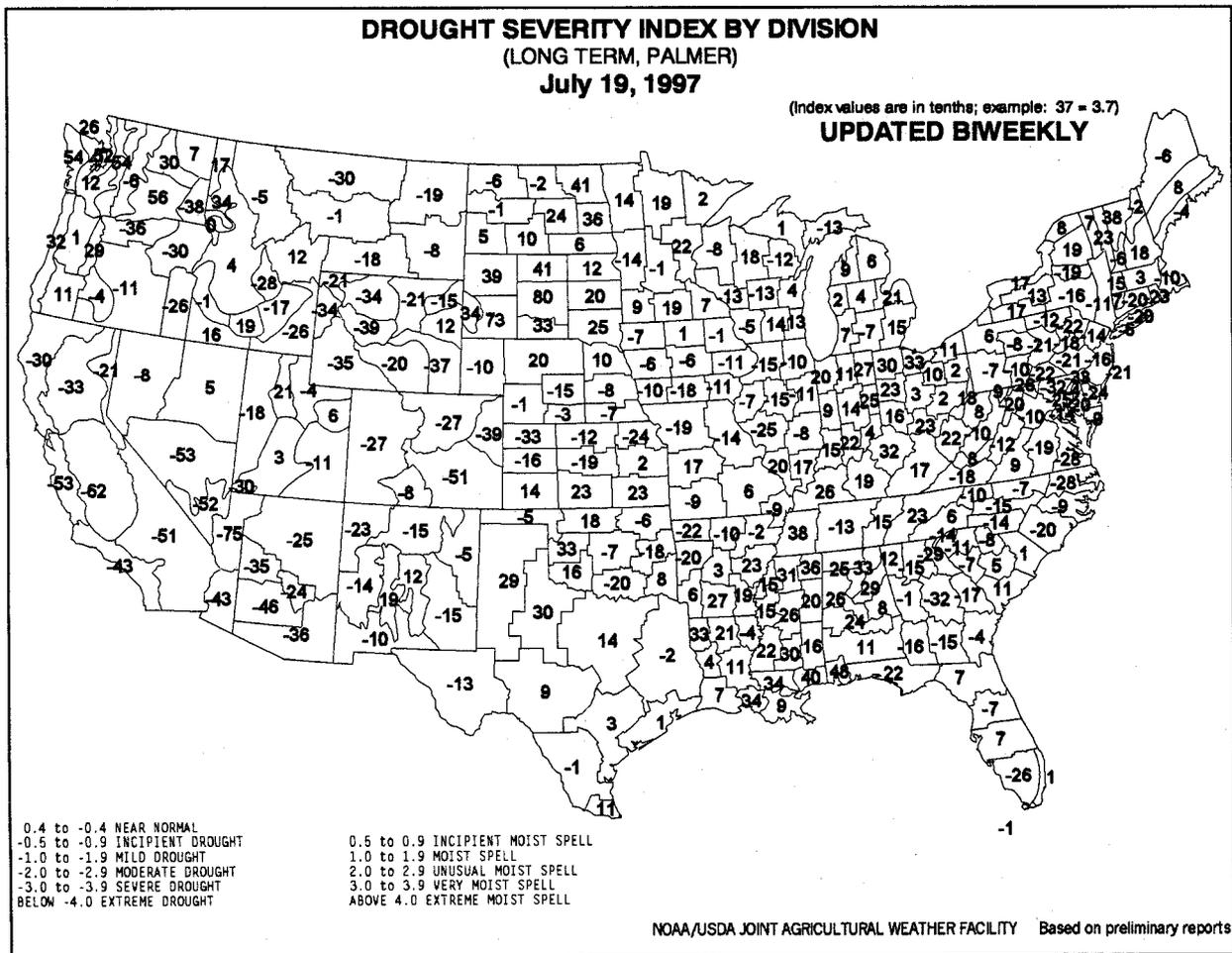
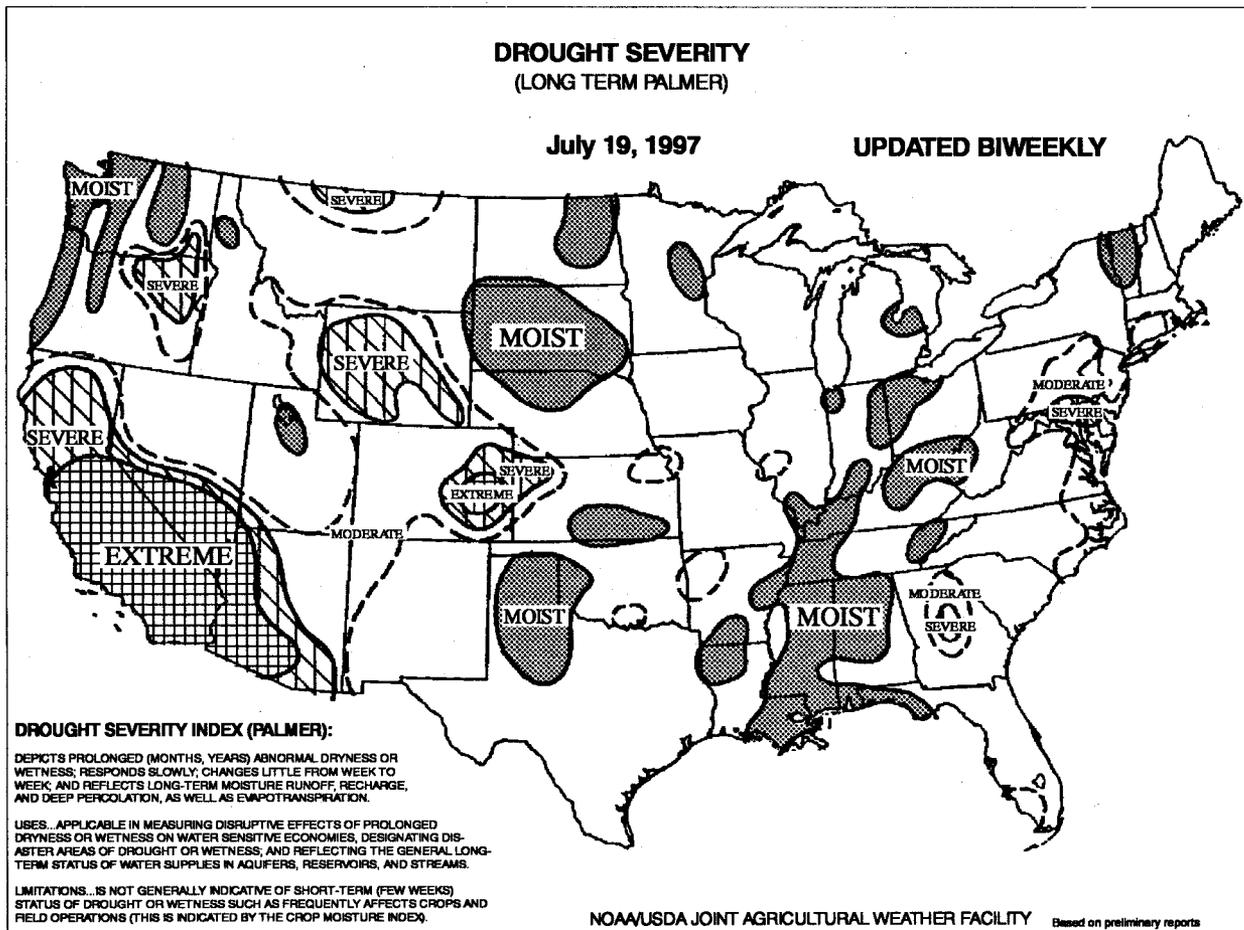
**H**ot, dry weather depleted topsoil moisture from the **central Corn Belt** to the **Middle Atlantic States**. In a reversal from the previous week, temperatures averaged 2 to 7°F above normal in these areas. Meanwhile, localized downpours and flooding affected several areas, including **southern Kansas** and **northern Oklahoma**, **New England**, and the **upper Midwest**. Late in the week, Hurricane Danny edged across extreme **southeastern Louisiana** and into **Mobile Bay**, packing sustained winds up to 80 mph and dumping as much as 27 inches of rain. Elsewhere, pre-monsoon heat (up to 4°F above normal) baked the **Southwest**, while temperatures rebounded to near-normal levels in the **Northwest**.

*(Continued on page 7)*

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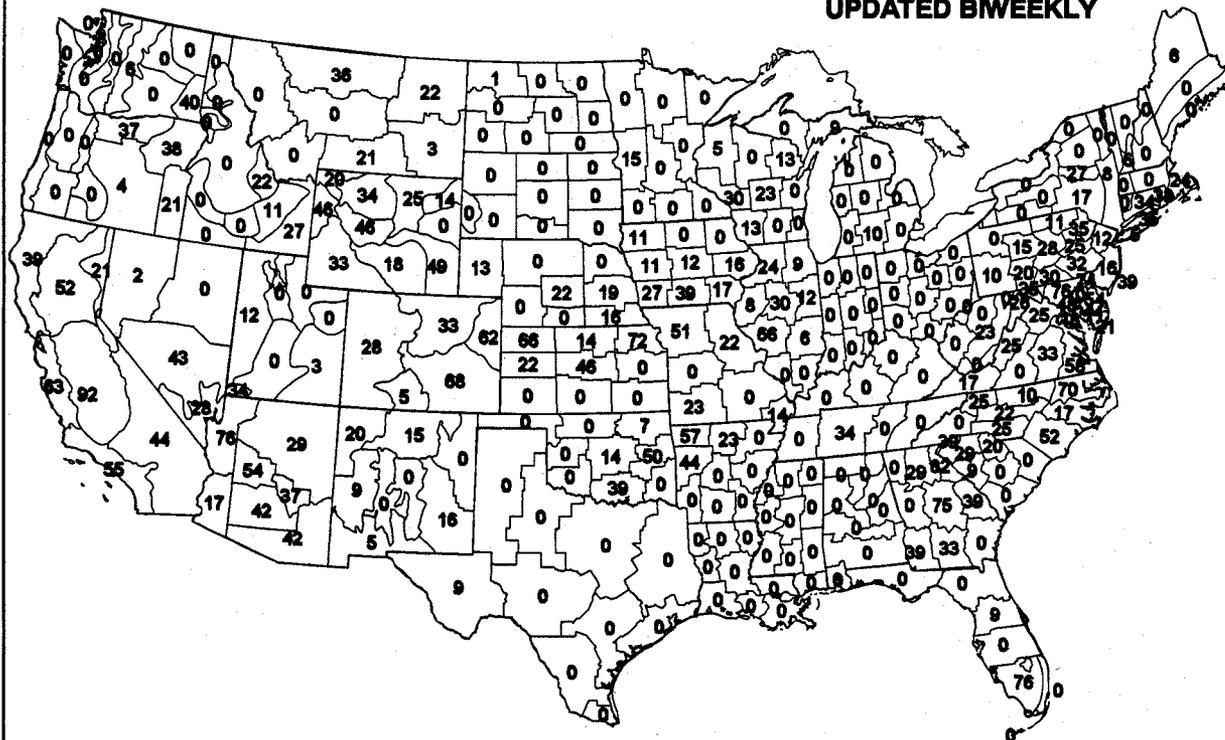




**ADDITIONAL PRECIPITATION NEEDED TO BRING INDEX NEAR ZERO  
(LONG TERM, PALMER)  
July 19, 1997**

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

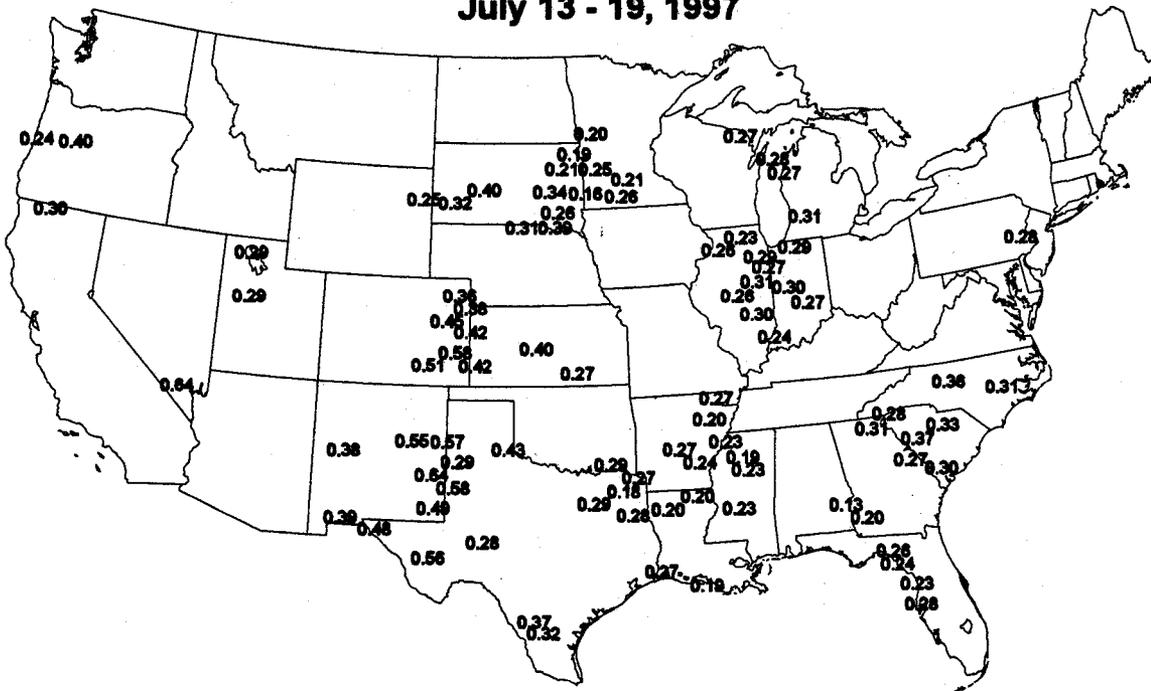
**UPDATED BIWEEKLY**



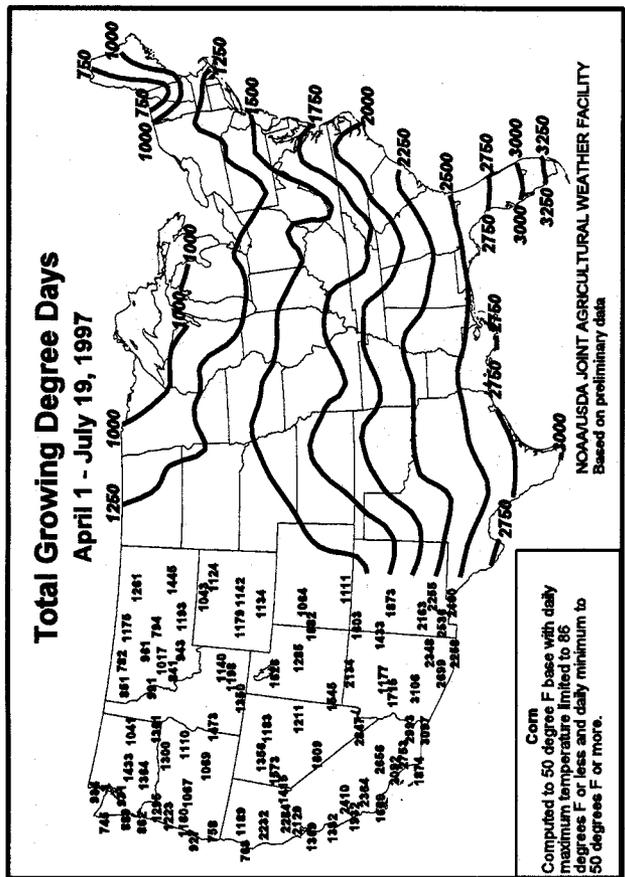
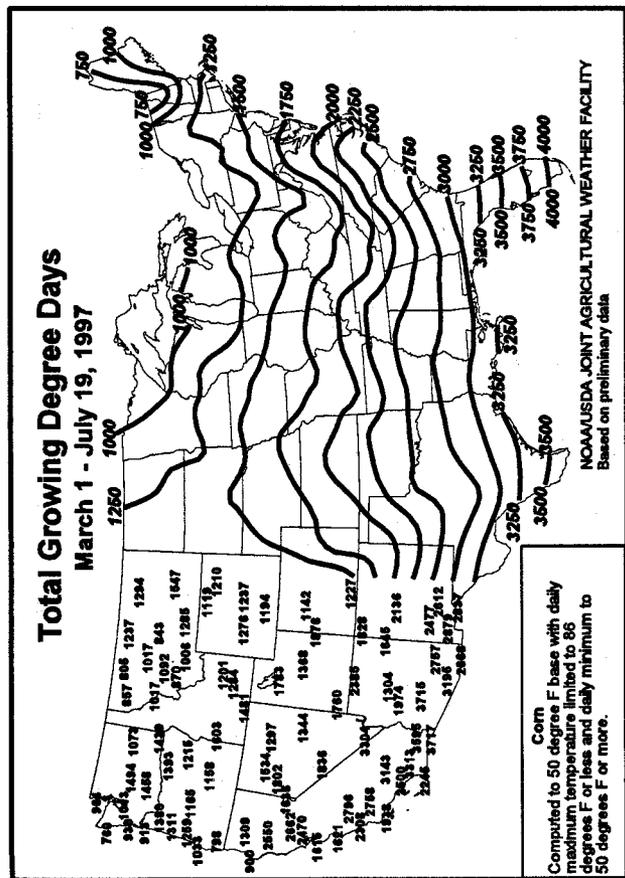
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

**Average Pan Evaporation (Inches/Day)**

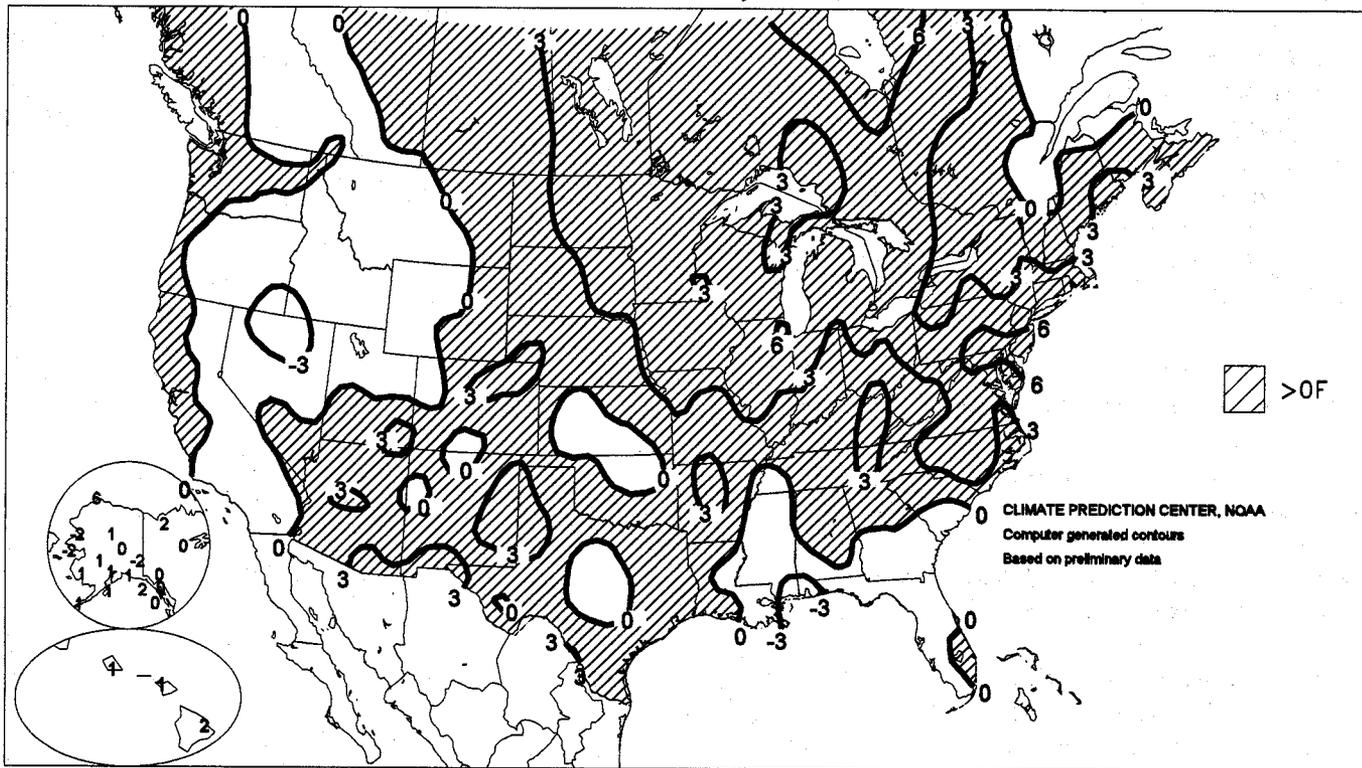
**July 13 - 19, 1997**



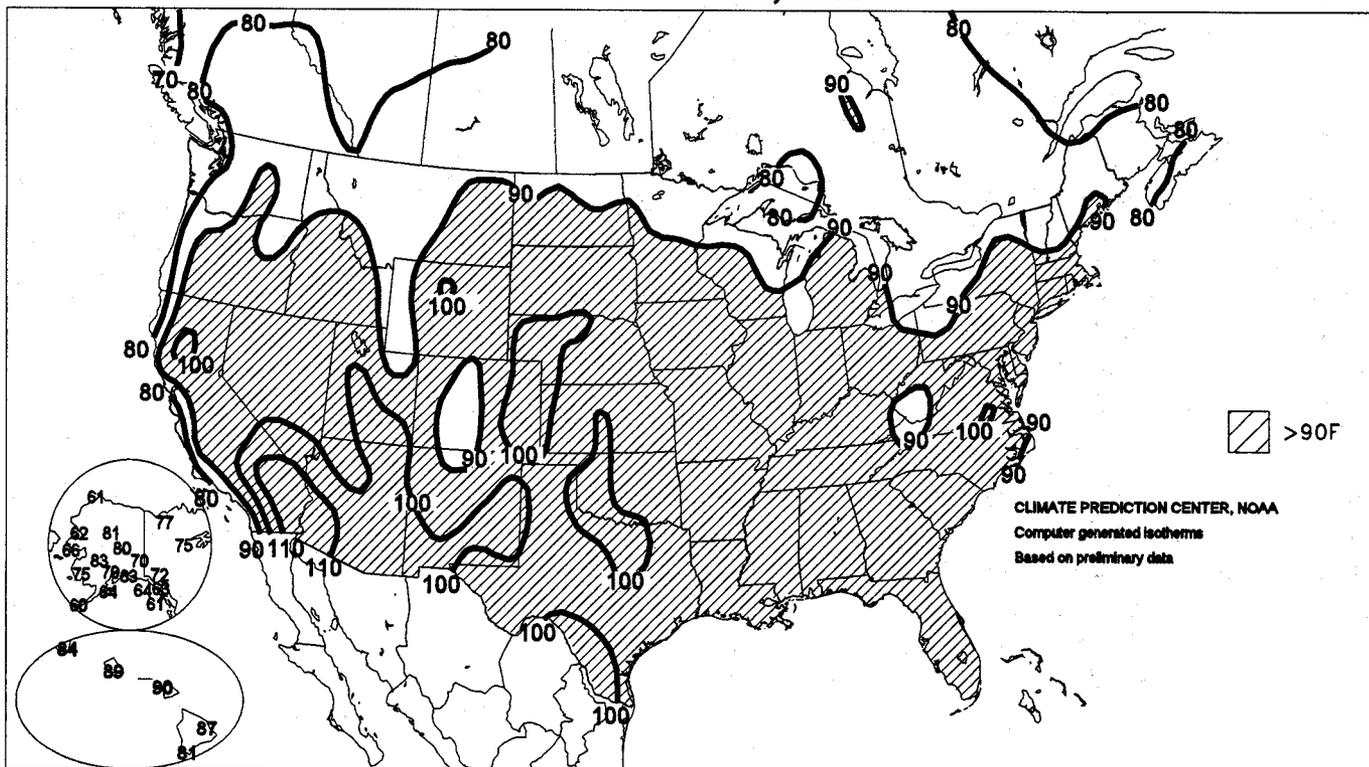
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY  
Based on preliminary data



### Departure of Average Temperature from Normal (°F) JUL 13 - 19, 1997



### Extreme Maximum Temperature (°F) JUL 13 - 19, 1997



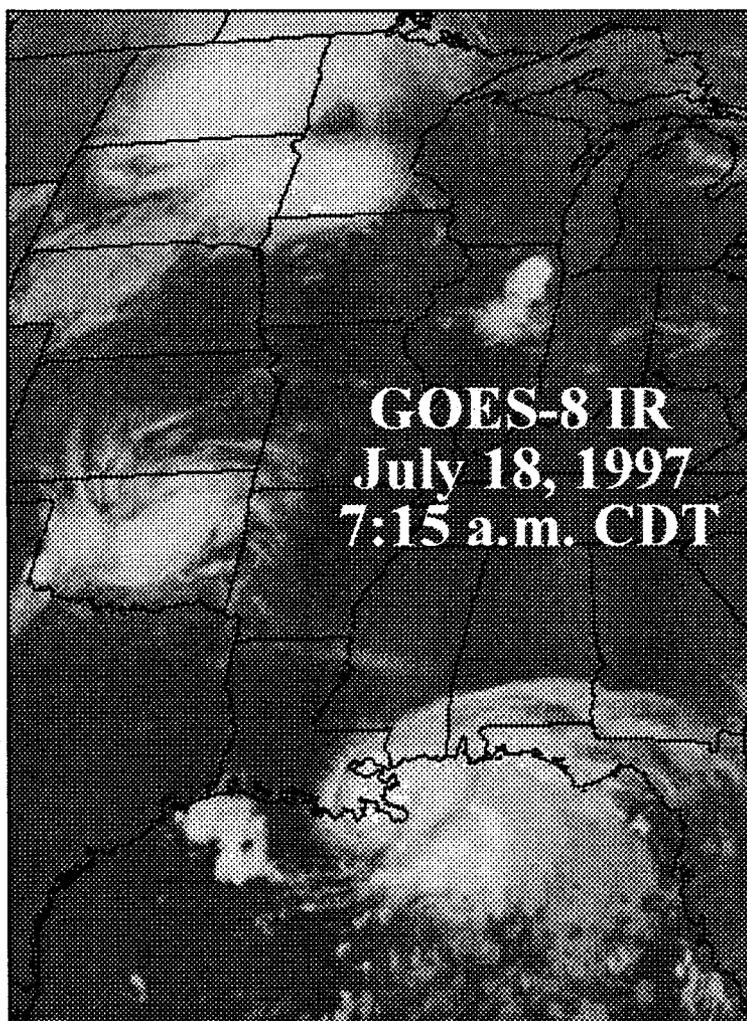
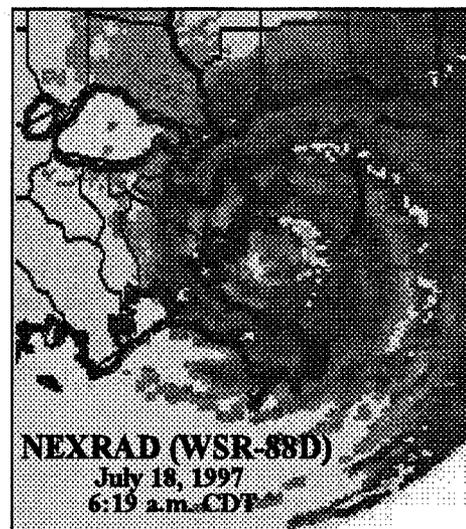
*(Continued from front cover)*

During the first half of the week, a weakening cold front pushed eastward across the **Midwest**. In advance of the system, maxima on Monday were the highest since 1995 in **Indianapolis, IN (95°F)** and **St. Louis, MO (98°F)**. Farther east, highs on Tuesday soared to daily-record levels in locations such as **Wilmington, DE** and **Raleigh-Durham, NC (both 99°F)**. **Wilmington's** maximum was their highest since 1995. Meanwhile, an area of extreme heat over the **Southwest** began to spread northeastward. Highs in **Arizona** on July 15 soared to 114°F in **Phoenix** and 110°F in **Tucson**. **Tucson** marked their first 110-degree reading since July 29, 1995. A day later, daily records included 102°F in **Pueblo, CO**, 101°F in **Blanding, UT**, and 97°F in **Lander, WY**.

On July 14-15, the cold front helped to produce torrential rain in **northern Vermont**, where totals reached 6.58 inches in **Jay** and 6.32 inches in **Albany**. A few days later (July 16-19), a stalled disturbance deposited as much as 4 to 10 inches of rain in **south-central Kansas** and **north-central Oklahoma**. Farther north, mid- to late-week thunderstorms dropped 2 to 4 inches of rain in the **upper Mississippi Valley**, including a daily-record 3.71 inches in **Minneapolis, MN** on Thursday.

During the mid- to late-week period, highs again soared into the lower to middle 90's across the **Corn Belt**, and remained in the upper 90's to near 100°F in the **Middle Atlantic region**. On Thursday, **Newark, NJ** notched 100°F. A day later, **Harrisburg, PA** recorded 101°F. Sharply cooler air punched southward into the **Great Lakes** and **New England States** at week's end. Late on July 19, **Youngstown, OH** logged 49°F, a daily-record low.

A tropical depression formed on Wednesday afternoon in the **Gulf of Mexico**, about 230 miles southwest of **New Orleans, LA**, reaching hurricane intensity less than 36 hours later. Only twice before--in 1886 and 1959--have four tropical-storm-strength Atlantic systems formed before July 17. Hurricane **Danny** crossed the mouth of the **Mississippi River** near **Port Sulphur, LA** on Friday morning, battering **Grand Isle, LA** with wind gusts to 95 mph. **Danny**, packing maximum sustained winds of 80 mph and a minimum central pressure of 29.06 inches (984 millibars) wobbled into **Mobile Bay** on Saturday. July 18-19 rainfall totaled 7.70 inches in **Pensacola, FL**, 11.83 inches in **Mobile, AL**, and up to 27.00 inches in **southern Mobile County** near **Theodore, AL**. Peak wind gusts in **southern Alabama** on Saturday included 88 mph on **Dauphin Island** and 45 mph in **Mobile**.



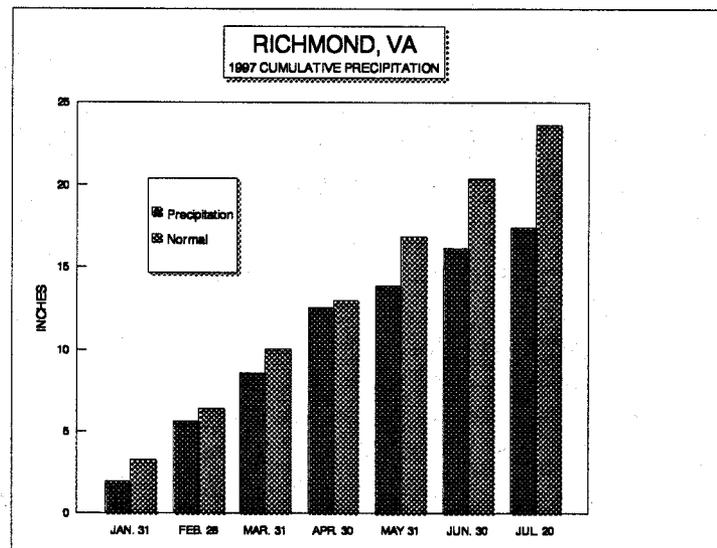
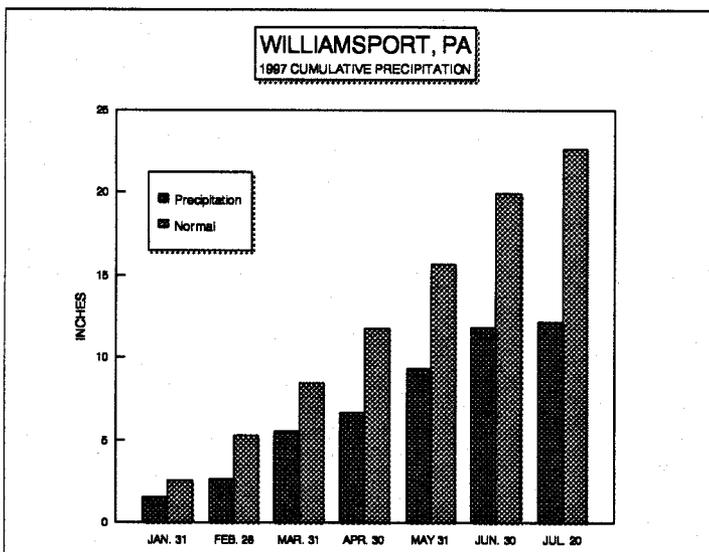
Hurricane **Danny** (near the mouth of the Mississippi River) and a non-tropical disturbance over **Oklahoma** independently produce torrential rainfall. Farther north, thunderstorms drop locally heavy rain across the upper Midwest.

## Dryness in the Corn Belt; Developing Drought in the Mid-Atlantic

By late June, dry spots developed in the central Corn Belt, while dryness became pronounced from the Middle Atlantic coastal regions to southern New England. Despite a cool start to July, dryness intensified from the Midwest to the Middle Atlantic States. In mid-July, however, hot weather--in some cases the hottest since 1995--overspread these areas, sharply reducing topsoil moisture. Extreme maxima soared to near 100°F in the Middle Atlantic States, with highs averaging 98°F in Washington, DC and 97°F in Harrisburg, PA during the 7 days ending July 19. Heat was not as extreme across the central Corn Belt, although highs

routinely reached the lower to middle 90's during the same period.

In contrast to short-term moisture deficits in parts of the Corn Belt, precipitation in parts of the Middle Atlantic region has averaged below normal throughout 1997. The Middle Atlantic drought has developed slowly, however, in part because the up-to-7-month dry spell immediately followed a 15-month (October 1995 - December 1996) wet spell. Nevertheless year-to-date precipitation is barely 50 percent of normal at locations such as Williamsport, PA and Wilmington, DE.



### Precipitation at Selected Locations, June 1 - July 20, 1997

State	Location	Rainfall (Inches)	Percent of Normal
IA	Cedar Rapids	3.82	53%
	Burlington	3.59	52%
IL	Moline	3.77	50%
	Springfield	2.43	42%
	Peoria	1.72	25%
IN	Indianapolis	3.51	55%
PA	Scranton	3.82	59%
	Harrisburg	2.92	47%
	Williamsport	2.85	42%
	Philadelphia	1.55	24%
NY	Albany	2.58	45%
MD	Baltimore	3.61	60%
DE	Wilmington	2.03	32%
DC	Washington	3.41	59%
VA	Richmond	3.47	51%
	Norfolk	3.38	48%
	Dulles Airport	2.98	48%
NC	Greensboro	3.73	55%

# National Weather Data for Selected Cities

Weather Data for the Week Ending July 19, 1997

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	TOTAL IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		01 INCH OR MORE	.50 INCH OR MORE		
AL BIRMINGHAM	91	70	93	67	81	1	0.23	-0.99	0.23	7.36	105	31.20	95	96	54	7	0	1	0		
HUNTSVILLE	92	70	95	68	81	2	0.00	-1.13	0.00	6.85	98	33.43	99	93	48	7	0	0	0		
MOBILE	86	72	91	70	79	-3	12.81	11.24	10.08	24.51	270	55.74	166	94	69	4	0	5	2		
AK MONTGOMERY	92	70	94	69	81	0	0.12	-1.09	0.11	4.87	68	28.89	90	95	52	6	0	2	0		
ANCHORAGE	66	54	70	52	60	1	0.38	0.00	0.18	1.86	88	3.87	67	88	61	0	0	3	0		
BARROW	53	37	61	32	46	6	0.20	-0.02	0.09	0.94	118	1.18	77	96	77	0	1	4	0		
FAIRBANKS	73	62	80	43	63	0	0.59	0.16	0.58	1.15	46	1.90	40	86	42	0	0	2	1		
JUNEAU	61	53	63	52	57	0	-	-	-	-	-	-	-	96	82	0	0	-	-		
KODIAK	60	52	64	47	56	1	1.15	0.35	0.72	1.98	28	34.70	102	93	77	0	0	4	1		
NOME	56	43	66	37	50	-2	0.00	-0.49	0.00	0.28	12	4.33	77	89	62	0	0	0	0		
AZ FLAGSTAFF	87	48	91	39	68	1	0.07	-0.59	0.07	0.26	13	6.44	59	46	15	1	0	1	0		
PHOENIX	108	84	114	76	98	3	0.00	-0.19	0.00	0.00	0	1.70	54	28	11	7	0	0	0		
PRESCOTT	92	62	99	53	77	4	0.00	-0.75	0.00	0.15	7	4.48	53	33	14	8	0	0	0		
TUCSON	104	78	110	68	90	4	0.04	-0.52	0.04	0.10	6	2.63	61	35	15	7	0	1	0		
YUMA	107	81	111	74	94	0	0.00	-0.06	0.00	0.02	15	0.57	52	44	15	7	0	0	0		
AR FORT SMITH	95	74	98	72	85	3	0.00	-0.67	0.00	6.71	128	23.17	101	92	51	7	0	0	0		
LITTLE ROCK	95	75	97	73	85	3	0.00	-0.83	0.00	7.80	143	34.69	127	92	47	7	0	0	0		
CA BAKERSFIELD	95	69	99	61	82	-2	0.00	0.00	0.00	0.00	0	2.99	78	58	32	7	0	0	0		
EUREKA	65	54	67	52	60	3	0.00	-0.03	0.00	1.26	217	19.33	92	86	64	0	0	0	0		
FRESNO	96	68	101	63	82	0	0.00	0.00	0.00	0.00	0	3.51	51	57	20	7	0	0	0		
LOS ANGELES	75	64	77	63	69	0	0.00	0.00	0.00	0.02	-	4.24	56	88	68	0	0	0	0		
REDDING	98	65	102	61	82	0	0.00	-0.03	0.00	1.56	236	16.58	88	66	18	7	0	0	0		
SACRAM/MCCLELL	95	64	100	61	79	-	0.00	-	0.00	0.61	-	9.28	-	71	22	6	0	0	0		
SAN DIEGO	73	65	78	62	69	-2	0.00	0.00	0.00	0.00	0	3.54	57	84	67	0	0	0	0		
SAN FRANCISCO	71	56	72	56	63	1	0.00	0.00	0.00	0.28	233	6.82	72	93	61	0	0	0	0		
CO ALAMOSA	84	45	88	38	65	-1	0.01	-0.27	0.01	0.81	59	3.05	68	79	20	0	0	1	0		
COLORADO	90	59	95	56	74	3	0.46	-0.20	0.46	6.07	154	11.33	127	80	20	4	0	1	0		
DENVER	84	63	98	55	78	4	0.60	0.16	0.60	3.13	105	6.87	73	51	17	5	0	1	1		
GRAND JUNCTION	95	62	100	56	78	-1	0.10	-0.04	0.10	0.37	42	5.26	119	46	21	5	0	1	1		
PUEBLO	97	57	102	53	77	0	0.01	-0.47	0.01	2.95	116	6.52	109	63	16	6	0	1	0		
CT BRIDGEPORT	88	69	95	61	78	4	0.46	-0.39	0.39	3.15	54	19.57	83	89	50	3	0	2	0		
HARTFORD	89	66	93	57	77	3	0.09	-0.63	0.09	5.02	88	18.96	79	89	46	5	0	1	0		
DC WASHINGTON	98	75	100	71	86	6	0.10	-0.78	0.10	3.43	61	18.39	89	81	33	7	0	1	0		
DE WILMINGTON	95	71	98	67	83	7	0.04	-0.92	0.04	2.02	33	11.48	50	84	29	7	0	1	0		
FL DAYTONA BEACH	89	70	91	68	80	-2	1.59	0.39	0.86	9.21	99	21.07	99	97	58	4	0	3	2		
JACKSONVILLE	91	70	93	66	80	-1	0.02	-1.21	0.02	11.22	126	25.27	96	95	55	5	0	1	0		
KEY WEST	89	78	89	72	82	-2	2.10	1.32	1.36	9.57	131	18.94	105	85	64	0	0	6	2		
MIAMI	89	75	90	73	82	-1	4.91	3.70	2.28	20.17	166	40.44	142	92	64	3	0	6	3		
ORLANDO	91	72	92	71	82	-1	1.46	-0.18	0.86	11.89	101	26.06	101	99	55	7	0	5	1		
TAMPA	90	74	92	73	82	-1	1.48	0.00	0.73	6.75	72	22.03	102	90	63	4	0	5	2		
VALPARAISO/EGLIN	89	74	93	73	82	1	2.07	0.02	1.18	9.43	87	37.41	110	96	62	5	0	3	2		
WEST PALM BEACH	89	74	90	72	81	-1	0.52	-0.85	0.20	13.30	110	33.57	111	98	66	2	0	6	0		
GA ATHENS	92	69	94	67	80	1	0.34	-0.79	0.33	6.16	69	25.46	85	95	47	6	0	2	0		
ATLANTA	89	70	91	69	80	1	0.95	-0.21	0.78	5.62	85	28.02	92	95	54	3	0	2	1		
AUGUSTA	92	68	94	64	80	-1	1.42	0.46	1.07	6.35	95	22.10	83	96	54	7	0	2	1		
COLUMBUS	93	74	93	73	83	2	0.21	-1.09	0.21	9.32	124	31.77	102	83	54	3	0	1	0		
MACON	93	69	95	67	81	0	0.02	-0.97	0.02	2.15	35	21.32	78	95	48	6	0	1	0		
SAVANNAH	91	69	92	66	80	-2	2.78	1.33	2.68	10.99	117	24.22	89	96	53	6	0	2	1		
HI HILO	85	70	87	68	78	2	1.80	-0.44	0.51	32.58	274	78.76	111	90	60	0	0	6	1		
HONOLULU	89	73	89	70	81	1	0.04	-0.10	0.03	0.55	65	14.95	130	80	51	0	0	2	0		
KAHULUI	87	73	90	69	80	1	-	-	-	-	-	-	-	87	58	1	0	-	-		
LIHUE	84	73	84	70	79	1	-	-	-	-	-	-	-	86	69	0	0	-	-		
ID BOISE	88	60	99	54	74	-1	0.00	-0.08	0.00	1.82	154	8.04	112	66	27	3	0	0	0		
LEWISTON	87	60	89	56	74	-1	0.05	-0.09	0.05	2.02	120	10.67	144	75	30	0	0	1	0		
POCATELLO	84	51	92	39	68	-3	0.01	-0.13	0.01	2.35	164	7.08	98	85	27	2	0	1	0		
IL CHICAGO/O'HARE	90	70	94	66	80	7	0.03	-0.79	0.03	3.41	67	14.99	81	80	48	5	0	1	0		
MOLINE	92	69	95	63	81	5	0.78	-0.35	0.41	3.76	51	17.57	83	88	48	6	0	2	0		
PEORIA	92	68	96	64	80	4	0.30	-0.68	0.22	1.61	24	14.37	72	90	45	6	0	2	0		
ROCKFORD	89	67	93	64	78	4	0.38	-0.54	0.31	5.88	83	18.87	98	87	46	3	0	2	0		
SPRINGFIELD	93	67	96	61	80	3	0.87	0.07	0.87	2.25	40	12.01	62	96	51	7	0	1	1		
IN EVANSVILLE	91	67	95	65	79	1	0.16	-0.78	0.16	5.59	93	30.83	122	96	48	5	0	1	0		
FORT WAYNE	88	66	93	61	77	3	0.35	-0.42	0.32	5.33	94	21.59	113	92	49	3	0	3	0		
INDIANAPOLIS	90	68	95	64	78	2	0.19	-0.84	0.18	3.54	57	22.48	100	94	47	4	0	2	0		
SOUTH BEND	89	67	95	63	78	5	0.00	-0.85	0.00	4.15	64	16.20	78	88	46	4	0	0	0		
IA BURLINGTON	-	-	-	-	-	-	-	-	-	3.15	47	16.79	87	-	-	-	-	-	-		
CEDAR RAPIDS	90	68	92	63	79	4	0.08	-0.84	0.08	3.84	54	15.38	84	90	53	5	0	2	0		
DES MOINES	91	70	93	64	81	4	0.83	0.00	0.83	5.75	85	15.67	86	88	51	6	0	1	1		
DUBUQUE	85	67	90	62	76	4	1.43	0.53	0.79	6.85	105	17.90	90	91	59	1	0	5	1		
SIoux CITY	89	67	91	59	78	2	0.72	-0.02	0.71	4.70	82	12.26	82	95	62	3	0	2	1		
WATERLOO	86	68	91	62	77	4	0.53	-0.58	0.38	6.94	92	16.54	87	92	63	1	0	2	0		
KS CONCORDIA	95	68	99	58	80	0	0.00	-0.81	0.00	3.67	54	10.64	63	86	39	7	0	0	0		
DODGE CITY	92	68	98	61	79	-2	0.33	-0.41	0.18	6.83	129	12.91	100	87	41	5	0	2	0		
GOODLAND	92	61	99	57	76	0	0.24	-0.41	0.24	3.40	67	7.15	60	82	30	4	0	1	0		
TOPEKA	93	68	96	65	81	2	1.83	1.15	1.34	4.67	59	16.36	82	82	49	7	0	2	2		

Based on 1961-90 normals

Weather Data for the Week Ending July 19, 1997

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN SINCE JAN 1	PCT. NORMAL SINCE JAN 1	TOTAL IN SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	92 AND BELOW	.01 INCH OR MORE		.50 INCH OR MORE
																		TEMP, °F	PRECIP.	
KY WICHITA	88	70	97	68	79	-3	0.60	-0.10	0.38	7.28	115	18.85	113	87	57	2	0	3	0	0
JACKSON	88	69	90	65	78	4	0.04	-1.15	0.04	9.29	125	31.54	111	92	49	1	0	1	0	0
LEXINGTON	91	67	93	63	79	3	0.00	-1.16	0.00	9.71	145	42.43	108	86	41	6	0	0	0	0
LOUISVILLE	91	70	92	66	81	3	0.76	-0.29	0.74	8.83	142	42.81	105	85	47	6	0	2	1	0
PADUCAH	91	69	93	67	80	1	0.23	-0.73	0.23	8.98	135	37.31	130	94	50	6	0	1	0	0
LA BATON ROUGE	90	72	92	71	81	-1	0.08	-1.48	0.06	10.32	121	44.35	130	96	58	4	0	2	0	0
LAKE CHARLES	93	73	94	70	83	1	0.13	-1.05	0.08	3.28	40	36.28	127	96	53	7	0	2	0	0
NEW ORLEANS	89	75	92	73	82	0	0.34	-1.04	0.16	9.37	98	33.31	96	89	58	3	0	3	0	0
SHREVEPORT	94	74	96	72	84	1	1.02	0.19	0.87	6.92	104	43.38	100	98	51	7	0	3	1	0
ME CARIBOU	77	53	82	45	65	-1	0.18	-0.74	0.10	6.01	114	20.15	115	90	50	0	0	2	0	0
PORTLAND	80	61	91	55	70	2	0.68	-0.03	0.20	2.80	52	19.06	81	93	58	1	0	5	0	0
MD BALTIMORE	97	69	99	64	83	6	0.16	-0.67	0.16	3.61	61	19.76	89	92	33	7	0	1	0	0
MA BOSTON	86	67	95	60	77	3	0.01	-0.82	0.01	1.78	37	15.56	69	79	49	4	0	1	0	0
WORCESTER	81	63	87	54	72	2	0.05	-0.83	0.03	4.05	64	21.30	83	89	58	0	0	2	0	0
MI ALPENA	86	59	96	45	72	5	0.28	-0.38	0.15	2.87	60	15.93	107	94	48	3	0	2	0	0
GRAND RAPIDS	87	66	94	59	76	4	0.81	0.09	0.45	4.25	75	17.18	96	90	50	1	0	4	0	0
HOUGHTON LAKE	85	61	92	48	73	6	0.48	-0.09	0.39	2.62	57	13.12	93	92	48	1	0	3	0	0
LANSING	87	60	95	49	74	3	0.32	-0.23	0.24	2.70	51	14.72	93	91	45	2	0	4	0	0
MARQUETTE	-	-	-	-	-	-	-	-	-	4.59	87	19.81	112	-	-	-	-	-	-	-
MUSKEGON	85	66	89	58	75	5	0.35	-0.11	0.25	3.93	110	14.28	93	89	52	0	0	4	0	0
MN DULUTH	79	62	85	56	70	4	0.08	-0.72	0.03	7.33	122	13.15	86	85	50	0	0	5	0	0
INT'L FALLS	82	58	89	50	70	3	0.04	-0.77	0.02	4.91	79	9.75	76	94	50	0	0	3	0	0
MINNEAPOLIS	86	68	93	65	77	3	4.82	3.83	3.71	12.36	198	18.11	114	91	57	2	0	3	1	0
ROCHESTER	81	65	88	62	73	2	4.38	3.37	1.81	8.20	130	17.69	113	94	71	0	0	5	4	0
ST. CLOUD	85	65	91	62	75	5	2.15	1.48	1.97	7.22	111	12.30	83	94	54	3	0	4	1	0
MS JACKSON	92	69	93	66	81	-1	1.01	-0.03	0.56	9.47	161	37.48	116	98	56	6	0	3	1	0
MERIDIAN	91	69	93	67	80	-1	0.46	-0.75	0.33	6.30	92	34.68	108	98	48	6	0	2	0	0
TUPELO	90	70	93	68	80	0	1.12	0.13	1.08	13.89	213	44.29	133	98	56	5	0	2	1	0
MO COLUMBIA	93	67	95	62	80	2	0.00	-0.83	0.00	3.27	49	20.79	95	91	47	7	0	0	0	0
KANSAS CITY	91	70	94	67	81	2	0.00	-0.99	0.00	4.89	66	18.35	90	87	49	6	0	0	0	0
SAINT LOUIS	95	73	98	67	84	4	0.02	-0.86	0.02	2.15	35	17.54	83	83	41	7	0	1	0	0
SPRINGFIELD	91	69	94	64	80	2	0.87	0.04	0.67	4.39	63	21.05	90	93	48	7	0	1	1	0
MT BILLINGS	85	59	91	52	72	-1	0.15	-0.05	0.10	4.00	152	8.07	83	74	34	2	0	3	0	0
BUTTE	79	48	90	40	62	-1	1.24	0.96	1.03	6.52	219	14.86	197	91	34	1	0	4	1	0
GLASGOW	87	60	92	58	74	3	0.84	0.45	0.84	3.72	116	7.17	106	68	25	4	0	1	1	0
GREAT FALLS	83	54	90	50	69	0	0.00	-0.26	0.00	3.95	123	8.91	92	72	29	1	0	0	0	0
KALISPELL	79	48	83	48	63	-1	0.08	-0.16	0.05	4.18	141	12.60	132	95	44	0	0	2	0	0
MILES CITY	89	62	98	55	76	1	0.71	0.37	0.57	4.61	120	8.16	90	78	33	4	0	2	1	0
MISSOULA	81	52	90	47	67	0	0.85	0.66	0.57	3.46	146	10.90	134	87	34	1	0	3	1	0
NE GRAND ISLAND	93	66	96	58	79	2	0.00	-0.83	0.00	4.63	81	10.85	72	93	47	6	0	0	0	0
LINCOLN	92	68	95	61	80	1	0.00	-0.72	0.00	6.10	104	13.40	84	86	49	6	0	0	0	0
NORFOLK	90	66	93	58	78	3	0.00	-0.72	0.00	4.51	69	11.95	76	89	51	5	0	0	0	0
NORTH PLATTE	92	60	98	54	76	2	0.00	-0.70	0.00	5.14	96	7.81	61	93	36	5	0	0	0	0
OMAHA	92	71	95	63	82	5	0.72	-0.08	-	4.94	80	11.19	66	87	51	6	0	0	0	0
SCOTTSBLUFF	93	56	102	49	75	0	0.43	-0.04	0.41	3.85	96	13.87	133	83	19	4	0	2	0	0
VALENTINE	94	62	101	56	78	3	0.82	0.12	0.82	6.06	126	12.71	112	87	32	5	0	1	1	0
NV ELY	89	48	94	38	69	1	0.00	-0.17	0.00	1.93	145	5.58	96	44	7	3	0	0	0	0
LAS VEGAS	105	79	110	73	92	1	0.00	-0.08	0.00	0.00	0	0.24	11	20	10	7	0	0	0	0
RENO	88	53	93	46	71	-1	0.00	-0.06	0.00	1.18	187	5.58	124	60	16	4	0	0	0	0
WINNEMUCCA	90	49	97	40	70	-3	0.00	-0.06	0.00	2.06	196	5.21	107	54	14	4	0	0	0	0
NH CONCORD	84	61	91	57	72	2	0.80	0.08	0.48	4.61	90	18.78	99	90	50	2	0	6	0	0
NJ NEWARK	94	71	100	63	83	5	0.04	-1.00	0.04	3.36	57	20.39	84	84	37	6	0	1	0	0
NM ALBUQUERQUE	94	66	95	64	80	1	0.14	-0.17	0.09	1.72	126	4.57	120	44	13	7	0	4	0	0
NY ALBANY	88	64	96	56	76	4	1.14	0.42	0.65	2.21	40	12.96	66	93	45	2	0	4	1	0
BINGHAMTON	83	62	90	52	72	3	0.33	-0.47	0.22	4.06	70	15.60	79	87	47	1	0	3	0	0
BUFFALO	81	65	87	55	73	2	0.09	-0.58	0.09	5.40	100	22.33	117	84	56	0	0	1	0	0
ROCHESTER	84	62	90	52	73	3	0.04	-0.57	0.04	4.32	93	16.21	98	93	54	2	0	1	0	0
SYRACUSE	85	65	94	53	75	4	0.12	-0.74	0.11	4.08	66	15.22	76	83	52	3	0	2	0	0
NC ASHEVILLE	86	62	88	58	74	1	0.02	-1.00	0.02	9.88	142	33.19	125	99	51	0	0	1	0	0
CHARLOTTE	94	72	98	68	83	4	0.08	-0.81	0.05	7.00	122	23.50	97	86	42	7	0	2	0	0
GREENSBORO	93	68	95	65	80	3	0.20	-0.84	0.14	3.39	51	22.24	94	88	40	7	0	3	0	0
HATTERAS	85	73	88	65	79	1	0.00	-1.12	0.00	4.57	65	24.40	87	88	66	0	0	0	0	0
RALEIGH	96	68	99	63	82	4	0.75	-0.16	0.75	5.28	86	21.65	92	94	41	7	0	1	1	0
WILMINGTON	90	71	93	65	80	0	0.67	-1.20	0.41	7.73	71	21.78	73	91	54	4	0	2	0	0
ND BISMARCK	88	62	96	57	75	5	0.56	0.08	0.55	3.40	83	9.34	97	82	42	4	0	2	1	0
DICKINSON	82	60	89	54	71	1	0.10	-0.36	0.06	5.54	120	11.26	107	89	50	0	0	2	0	0
FARGO	96	64	91	60	75	4	0.18	-0.43	0.16	7.44	165	15.52	141	92	55	2	0	2	0	0
GRAND FORKS	86	66	92	63	76	7	0.22	-0.39	0.22	5.56	122	10.61	105	85	47	2	0	1	0	0
JAMESTOWN	86	64	95	59	75	4	0.51	-0.12	0.30	7.15	150	11.72	116	87	48	2	0	2	0	0
WILLISTON	83	59	90	56	71	0	1.07	0.59	0.94	6.87	189	8.72	102	90	41	2	0	3	1	0
OH AKRON-CANTON	86	64	89	54	75	3	0.03	-0.91	0.03	4.66	82	18.28	90	85	47	0	0	1	0	0
CINCINNATI	90	66	94	62	78	3	0.28	-0.68	0.28	7.99	124	27.08	113	92	46	4	0	1	0	0
CLEVELAND	85	64	90	55	75	3	0.26	-0.54	0.25	4.46	76	18.83	96	86	50	2	0	2	0	0
COLUMBUS	90	66	93	60	78	4														

Weather Data for the Week Ending July 19, 1997

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN, SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL IN, SINCE Jun 1	PCT. NORMAL SINCE Jun 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OK TOLEDO	90	66	96	56	78	6	0.04	-0.69	0.04	3.61	62	20.46	115	84	46	4	0	1	0
OK YOUNGSTOWN	87	61	90	49	74	3	0.01	-0.92	0.01	4.70	73	15.29	75	89	46	1	0	1	0
OK OKLAHOMA CITY	93	71	98	67	82	0	0.97	0.40	0.78	4.69	78	16.00	82	89	49	5	0	3	1
OR TULSA	90	74	96	71	82	-1	0.30	-0.39	0.13	9.07	141	20.09	89	87	59	4	0	3	0
OR ASTORIA	70	56	72	51	63	3	0.06	-0.19	0.04	6.98	187	47.75	136	94	67	0	0	2	0
OR BURNS	83	48	92	41	66	-1	0.17	0.09	0.16	0.71	66	6.26	114	74	45	2	0	2	0
OR EUGENE	82	52	89	49	67	0	0.00	-0.10	0.00	1.97	112	22.96	86	90	36	0	0	0	0
OR MEDFORD	91	57	98	53	74	1	0.00	-0.06	0.00	1.44	196	10.02	107	78	26	6	0	0	0
OR PENDLETON	88	55	90	49	72	-2	0.00	-0.08	0.00	1.02	119	5.11	78	70	23	1	0	0	0
OR PORTLAND	80	59	89	57	70	1	0.00	-0.13	0.00	3.36	177	26.59	139	84	47	0	0	0	0
OR SALEM	82	54	88	51	68	2	0.00	-0.11	0.00	1.81	106	26.39	128	88	42	0	0	0	0
PA ALLENTOWN	92	63	96	54	78	3	0.01	-0.93	0.01	3.57	57	16.13	69	88	34	6	0	1	0
PA ERIE	82	68	90	57	74	3	0.00	-0.76	0.00	6.94	112	24.81	122	84	56	1	0	0	0
PA MIDDLETOWN	97	71	101	66	84	8	0.30	-0.51	0.30	2.92	48	14.41	64	82	31	7	0	1	0
PA PHILADELPHIA	96	71	98	62	83	6	0.11	-0.87	0.11	2.74	43	18.33	79	80	32	6	0	1	0
PA PITTSBURGH	89	65	91	61	77	5	0.01	-0.84	0.01	4.10	68	18.39	87	86	42	4	0	1	0
PA SCRANTON	89	62	94	51	76	4	0.07	-0.79	0.06	3.39	53	12.56	63	93	38	5	0	2	0
PA WILLIAMSPORT	93	62	97	55	77	6	0.00	-0.90	0.00	2.52	37	11.84	53	94	33	6	0	0	0
RI PROVIDENCE	91	68	96	60	79	6	0.00	-0.72	0.00	2.56	48	19.29	78	83	44	5	0	0	0
SC BEAUFORT	90	71	92	66	81	-1	0.43	-1.00	0.19	7.70	78	22.32	80	97	57	5	0	4	0
SC CHARLESTON	90	71	92	64	80	-1	1.56	0.02	0.78	18.56	176	33.87	120	93	56	4	0	3	1
SC COLUMBIA	93	71	95	65	82	1	2.99	1.75	2.80	8.55	106	24.57	96	93	49	6	0	2	1
SC GREENVILLE	91	69	93	66	80	2	0.20	-0.85	0.20	8.44	110	29.46	99	91	44	6	0	1	0
SD ABERDEEN	89	64	95	59	77	4	0.01	-0.61	0.01	3.34	68	8.86	77	92	46	4	0	1	0
SD HURON	91	67	98	60	79	5	0.34	-0.26	0.19	5.54	109	11.53	90	89	50	5	0	4	0
SD RAPID CITY	90	60	97	54	76	2	1.46	1.00	1.18	5.17	117	15.99	147	80	36	4	0	2	1
SD SIOUX FALLS	89	67	93	60	78	3	1.37	0.78	0.77	5.63	111	13.67	102	90	56	4	0	4	1
TN BRISTOL	89	63	90	62	76	2	0.00	-0.99	0.00	5.61	90	28.17	119	100	51	2	0	0	0
TN CHATTANOOGA	92	70	94	67	81	2	1.18	0.06	1.18	7.55	116	34.11	110	96	46	7	0	1	1
TN KNOXVILLE	92	69	94	66	80	3	0.00	-1.08	0.00	7.82	110	34.47	123	92	44	7	0	0	0
TN MEMPHIS	91	72	94	68	82	-1	1.58	0.73	1.28	8.87	147	48.86	164	92	57	6	0	2	1
TN NASHVILLE	92	68	96	66	80	1	0.00	-0.91	0.00	6.85	114	30.95	113	89	44	7	0	0	0
TX ABILENE	96	72	96	70	84	-1	0.00	-0.46	0.00	7.15	173	16.20	129	77	33	7	0	0	0
TX AMARILLO	96	67	98	64	81	2	0.00	-0.57	0.00	3.97	75	13.70	128	69	26	7	0	0	0
TX AUSTIN	94	74	97	72	84	-1	0.00	-0.44	0.00	8.98	177	28.23	165	91	42	7	0	0	0
TX BEAUMONT	93	74	96	71	84	-1	3.49	2.28	2.73	7.82	88	30.10	102	97	58	7	0	4	2
TX BROWNSVILLE	96	78	96	75	86	1	0.00	-0.41	0.00	1.47	37	15.29	131	95	49	7	0	0	0
TX CORPUS CHRISTI	96	73	97	71	84	0	0.00	-0.52	0.00	2.26	46	18.12	125	96	46	7	0	0	0
TX DEL RIO	99	78	101	75	88	2	0.00	-0.42	0.00	3.70	112	16.94	177	75	28	7	0	0	0
TX EL PASO	99	72	101	68	86	3	0.01	-0.35	0.01	1.35	87	3.58	112	48	19	7	0	1	0
TX FORT WORTH	96	75	97	72	86	0	0.04	-0.48	0.04	5.00	113	25.55	130	85	42	7	0	1	0
TX GALVESTON	92	80	94	75	86	2	0.00	-0.68	0.00	1.54	22	28.87	140	82	58	7	0	0	0
TX HOUSTON	94	71	96	69	83	0	0.15	-0.66	0.15	5.08	70	35.04	141	97	51	7	0	1	0
TX LUBBOCK	96	71	98	67	84	4	0.00	-0.52	0.00	5.43	129	15.51	164	59	25	7	0	0	0
TX MIDLAND	97	71	98	67	84	2	0.00	-0.39	0.00	4.61	177	9.53	135	66	23	7	0	0	0
TX SAN ANGELO	98	71	99	67	84	2	0.00	-0.22	0.00	2.56	85	15.28	146	76	25	7	0	0	0
TX SAN ANTONIO	95	75	96	73	85	0	0.00	-0.46	0.00	6.50	125	20.31	120	88	42	7	0	0	0
TX VICTORIA	96	74	98	72	85	0	0.00	-0.74	0.00	4.41	82	42.24	214	98	43	7	0	0	0
TX WACO	97	73	99	70	85	0	0.60	0.16	0.59	5.56	121	28.63	165	91	39	7	0	2	1
UT WICHITA FALLS	99	72	102	70	86	0	0.00	-0.36	0.00	2.16	47	13.76	84	81	31	7	0	0	0
UT SALT LAKE CITY	83	63	100	51	78	0	0.00	-0.19	0.00	2.19	151	11.05	115	57	20	4	0	0	0
VT BURLINGTON	81	64	88	58	73	2	1.42	0.60	0.94	6.35	112	15.56	90	90	58	0	0	5	1
VA LYNCHBURG	92	65	96	59	79	3	0.00	-0.96	0.00	3.67	81	19.23	86	91	39	6	0	0	0
VA NORFOLK	92	72	97	67	82	4	0.05	-1.11	0.04	1.52	22	13.37	54	83	48	7	0	2	0
VA RICHMOND	95	70	99	66	82	4	0.74	-0.42	0.74	3.47	52	17.37	74	88	42	7	0	1	1
VA ROANOKE	92	66	96	61	79	3	0.51	-0.38	0.50	5.68	103	17.88	82	89	42	6	0	2	1
VA WASH/DULLES	95	65	98	61	80	4	0.00	-0.77	0.00	2.96	49	16.45	75	88	35	7	0	0	0
WA HANFORD	92	61	95	55	77	-	0.00	-0.07	0.00	0.59	105	3.71	110	47	22	6	0	0	0
WA OLYMPIA	77	51	82	46	64	1	0.00	-0.17	0.00	3.95	184	37.99	143	95	51	0	0	0	0
WA QUILLAYUTE	70	50	76	42	60	1	0.00	-0.58	0.00	9.15	193	74.27	132	95	64	0	0	0	0
WA SEATTLE-TACOMA	74	58	79	52	65	0	0.00	-0.17	0.00	2.47	124	26.88	142	87	54	0	0	0	0
WA SPOKANE	84	56	87	52	70	1	0.00	-0.14	0.00	1.27	75	11.58	125	75	28	0	0	0	0
WA YAKIMA	88	54	91	50	71	1	0.00	-0.03	0.00	0.92	139	3.34	79	73	25	1	0	1	0
WV BECKLEY	84	60	85	56	72	2	0.04	-1.05	0.04	5.63	83	22.88	98	97	52	0	0	1	0
WV CHARLESTON	89	66	90	63	77	2	0.00	-1.16	0.00	6.57	99	24.53	105	100	53	2	0	0	0
WV ELKINS	86	55	89	53	71	2	0.04	-0.98	0.02	3.90	54	23.23	93	93	48	0	0	2	0
WV HUNTINGTON	88	68	91	64	78	3	0.00	-1.07	0.00	6.58	104	23.19	99	96	52	2	0	0	0
WI EAU CLAIRE	86	65	93	60	76	4	2.33	1.45	1.67	8.95	136	16.67	94	93	56	3	0	3	2
WI GREEN BAY	84	62	87	55	73	3	0.20	-0.49	0.17	7.22	137	16.00	109	96	58	0	0	2	0
WI MADISON	85	66	90	61	75	4	1.33	0.58	0.51	8.14	143	17.39	109	89	57	1	0	5	1
WI MILWAUKEE	85	68	92	61	77	5	0.28	-0.50	0.22	11.45	214	20.11	115	83	56	2	0	2	0
WY CASPER	90	52	98	42	71	0	0.66	0.37	0.59	2.50	109	7.27	90	71	20	3	0	2	1
WY CHEYENNE	87	56	94	51	72	3	0.01	-0.46	0.01	3.51	104	8.82	98	48	19	3	0	1	0
WY LANDER	88	55	98	42	72	0	0.03	-0.15	0.03	2.06	102	6.62	77	50	18	3	0	1	0
WY SHERIDAN	85	53	94	47	69	-1	1.75	1.57	0.98	4.84	168	10.31	110	92	40	2	0	3	2

Based on 1961-90 normals

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

## National Agricultural Summary

July 14 - 20, 1997

### HIGHLIGHTS

Scattered showers fell across the northern Plains, the upper Great Lakes, and parts of the Southeast, bringing beneficial moisture to row crops. Heavier amounts fell in portions of Kansas, Oklahoma, New England, and the upper Mississippi Valley, causing some flooding and hampering fieldwork. Temperatures were very hot across most of the

country, stressing crops that did not receive the scattered showers. Producers in the Corn Belt were concerned by the dry conditions of many of their row crop fields. By the end of the week, Hurricane Danny brought heavy rains to the Gulf Coast, causing coastal flooding in Mississippi, Alabama, and the Florida panhandle.

**Winter wheat:** Winter wheat harvest made good progress in central Plains and in the eastern Corn Belt as producers took advantage of the hot, dry weather. Nebraska growers made very rapid progress as 38 percent (%) of the State's crop was harvested during the week. Colorado, Indiana, and Ohio producers also harvested at least 30% of their acreage. Harvest was basically complete in the southern Plains and Southeast, and finished slightly ahead of average. Harvest was behind average in the northern Plains and in the Northwest. Nationwide, harvest reached 72% complete, 3 percentage points ahead of last year, and 2 points ahead of the 5-year average.

**Corn:** The Nation's corn acreage was 21% in silk, compared with 22% in 1996 and the average of 32%. Due to the cool spring weather, silking progress was behind the average in all States except Kansas and Missouri. Condition of the acreage, at 68 percent good to excellent, declined 5 points from the previous week. Hot, dry conditions in Illinois, Indiana, and Missouri caused ratings to each decline by at least 10 points. Hot, dry conditions also stressed the crop in Iowa. However, rains late in the week reduced that stress. Last week's warmth and rain improved the crop from South Dakota to Michigan.

**Soybeans:** Forty-five percent of the soybean acreage was blooming, ahead of 31% last year and ahead of the average of 41%. Blooming progress was equal to or ahead of normal in all major States except Alabama, Arkansas, Kentucky, Michigan, South Dakota, and Tennessee. Soybean condition declined from last week, especially in the central Corn Belt, where hot, dry conditions dominated. In Nebraska, dryland soybeans were under stress from this week's hot weather.

**Cotton:** Cotton squaring was 91% complete, behind the 94% squaring in 1996 but greater than the average of 88%. Cotton squaring was behind normal from Missouri to Georgia. Thirty-seven percent of the acreage was setting bolls, 13 percentage points behind the average. Alabama and North

Carolina were at least 30 points behind average. Arizona and New Mexico were the only major States where setting bolls was ahead of average. Overall, cotton was rated mostly good to fair. Producers in California and Louisiana were treating their crops for insects. In many parts of Texas, the crop could use more heat. However, in New Mexico, the crop was maturing rapidly with this week's hot, dry conditions.

**Rice:** Rice heading was behind normal in all major States except Mississippi. Twenty-one percent of the Nation's acreage was heading, behind 35% for 1996 and less than the 28% average. A few growers in Louisiana started harvesting. Some producers in Texas were treating their fields for diseases. Overall, rice condition rated mostly good.

**Other Small Grains:** Favorable conditions across the northern tier of States allowed the Nation's spring wheat condition to improve. Spring wheat headed, at 88 percent, was 6 points ahead of last year and 3 points ahead of average. Spring and durum wheat development was slightly ahead of last year but behind the average in North Dakota. Barley heading, at 89%, was 4 points ahead of last year and 1 point ahead of average. Barley harvest continued in Oregon. In North Dakota, crop development was behind normal. Oat heading advanced to 93% complete, ahead of 90% headed in 1996 and the average of 89%. Condition of the oat acreage rated mostly good to fair. Oats harvest began in Idaho.

**Other Crops:** Peanuts pegging advanced to 71% complete, compared with 82% last year. Progress was behind in all major States. Overall, condition of the peanut crop was mostly good. Peanuts in Florida escaped significant damage from Hurricane Danny. In Texas, fields continued to make good progress. Sorghum condition was also rated mostly good. Some Texas sorghum fields could use rain. However, many of the fields looked good. Harvest has started in the south-central part of Texas and continued in the coastal bend, Rio Grande valley, and the upper coast.

# Crop Progress and Condition

Week Ending July 20, 1997

## Winter Wheat Percent Harvested

	Jul 20 1997	Prev Week	Prev Year	5-Yr Avg
AR	98	94	100	100
CA	98	97	99	96
CO	87	52	60	61
GA	100	99	100	100
ID	2	0	1	4
IL	94	85	91	90
IN	76	45	69	76
KS	99	97	97	93
MI	3	0	3	21
MO	99	92	98	88
MT	0	0	0	0
NE	64	26	48	52
NC	100	99	99	97
OH	41	4	60	63
OK	100	97	100	99
OR	3	3	10	12
SD	8	0	2	15
TX	99	95	99	98
WA	2	0	3	10
ALL	72	63	69	70

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

## Soybeans Percent Blooming

	Jul 20 1997	Prev Week	Prev Year	5-Yr Avg
AL	20	12	34	30
AR	22	10	36	28
GA	34	22	33	32
IL	49	26	18	43
IN	49	17	14	45
IA	60	33	43	53
KS	52	42	49	33
KY	11	8	22	31
LA	66	42	74	55
MI	14	7	7	26
MN	44	10	40	44
MS	45	39	74	47
MO	40	21	30	28
NE	52	18	33	37
NC	20	13	22	17
OH	58	35	14	47
SC	32	28	23	19
SD	33	21	35	35
TN	19	7	25	22
ALL	45	23	31	41

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

## Corn Percent Silking

	Jul 20 1997	Prev Week	Prev Year	5-Yr Avg
CO	8	1	17	12
GA	97	94	97	98
IL	28	4	20	45
IN	7	1	12	32
IA	11	0	3	20
KS	60	38	81	59
KY	45	20	51	64
MI	3	0	2	9
MN	13	1	13	25
MO	59	34	64	49
NE	27	2	32	33
NC	85	60	93	90
OH	4	1	3	22
PA	8	3	32	19
SD	1	0	0	8
TX	61	59	93	81
WI	3	0	1	9
ALL	21	7	22	32

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

## Oats Percent Headed

	Jul 20 1997	Prev Week	Prev Year	5-Yr Avg
IA	100	100	100	99
MI	96	90	93	90
MN	98	88	98	98
NE	100	100	100	NA
ND	80	59	72	79
OH	100	100	100	100
PA	97	94	98	57
SD	90	82	94	96
WI	100	99	84	92
ALL	93	86	90	89

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

## Peanuts Percent Pegging

	Jul 20 1997	Prev Week	Prev Year	5-Yr Avg
AL	74	49	89	NA
FL	91	87	99	NA
GA	82	65	91	NA
NC	52	45	70	NA
OK	86	74	94	NA
SC	58	54	74	NA
TX	53	38	61	NA
VA	47	20	77	NA
ALL	71	55	82	NA

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

## Cotton Percent Squaring

	Jul 20 1997	Prev Week	Prev Year	5-Yr Avg
AL	70	61	95	92
AZ	100	100	100	100
AR	100	99	100	99
CA	100	90	99	96
GA	93	86	98	97
LA	100	92	100	99
MS	90	85	100	99
MO	90	70	100	98
NM	98	80	99	86
NC	80	75	87	79
OK	86	49	92	75
SC	95	82	98	93
TN	94	88	100	99
TX	89	80	89	78
ALL	91	83	94	88

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

## Cotton Percent Setting Bolls

	Jul 20 1997	Prev Week	Prev Year	5-Yr Avg
AL	24	16	62	54
AZ	94	75	82	82
AR	45	6	90	68
CA	40	20	46	41
GA	53	30	81	68
LA	68	41	92	87
MS	60	45	91	70
MO	39	4	71	49
NM	65	27	77	45
NC	15	10	50	46
OK	9	0	31	19
SC	30	27	64	52
TN	24	9	74	52
TX	24	20	39	35
ALL	37	23	59	50

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

## Barley Percent Headed

	Jul 20 1997	Prev Week	Prev Year	5-Yr Avg
ID	94	77	82	86
MN	95	74	85	95
MT	93	68	85	87
ND	83	68	84	85
SD	92	81	93	96
WA	100	99	98	99
ALL	89	72	85	88

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

# Crop Progress and Condition

Week Ending July 20, 1997

## Sorghum Percent Headed

	Jul 20 1997	Prev Week	Prev Year	5-Yr Avg
AR	33	17	58	53
CO	2	0	6	1
IL	3	2	1	9
KS	16	15	12	7
LA	69	31	89	78
MS	75	65	79	69
MO	18	5	17	21
NE	0	0	0	5
NM	1	0	0	2
OK	10	8	40	20
SD	0	0	3	3
TX	58	56	61	69
ALL	29	26	30	31

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

## Rice Percent Headed

	Jul 20 1997	Prev Week	Prev Year	5-Yr Avg
AR	3	0	23	15
CA	0	0	3	1
LA	57	38	58	60
MS	35	23	44	30
TX	51	32	84	63
ALL	21	13	35	28

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

## Spring Wheat Percent Headed

	Jul 20 1997	Prev Week	Prev Year	5-Yr Avg
ID	93	78	93	89
MN	93	77	84	94
MT	93	76	87	86
ND	82	67	77	80
SD	93	85	92	96
ALL	88	73	82	85

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

## Rice Crop Condition by Percent

	VP	P	F	G	EX
AR	0	2	23	51	24
CA	0	0	50	50	0
LA	0	3	34	52	11
MS	0	1	30	66	3
TX	0	5	35	52	8
ALL	0	2	32	52	14
Prev Wk	0	3	34	52	11
Prev Yr	0	3	20	60	17

## Soybeans Crop Condition by Percent

	VP	P	F	G	EX
AL	2	4	36	53	5
AR	0	9	31	48	12
GA	1	7	26	62	4
IL	1	9	36	47	7
IN	1	7	35	47	10
IA	0	4	24	56	16
KS	0	2	14	65	19
KY	1	11	40	43	5
LA	1	8	26	57	8
MI	2	7	40	41	10
MN	3	8	32	45	12
MS	1	6	28	53	12
MO	2	11	37	44	6
NE	0	3	22	60	15
NC	1	13	29	56	1
OH	2	9	32	46	11
SC	0	2	18	69	11
SD	1	7	23	53	16
TN	0	8	26	50	16
ALL	1	7	30	51	11
Prev Wk	1	6	27	55	11
Prev Yr	3	10	34	43	10

## Corn Crop Condition by Percent

	VP	P	F	G	EX
CO	1	4	26	56	13
GA	0	2	22	69	7
IL	2	8	35	46	9
IN	1	8	32	49	10
IA	0	3	21	56	20
KS	1	3	11	59	26
KY	2	11	36	44	7
MI	2	9	32	46	11
MN	1	3	18	55	23
MO	1	8	36	44	11
NE	0	3	21	54	22
NC	4	21	37	37	1
OH	1	6	27	49	17
PA	12	30	35	20	3
SD	1	5	18	53	23
TX	0	2	23	49	26
WI	1	3	10	50	36
ALL	1	6	25	50	18
Prev Wk	1	4	22	56	17
Prev Yr	3	8	28	47	14

## Cotton Crop Condition by Percent

	VP	P	F	G	EX
AL	15	10	43	28	4
AZ	0	0	6	59	35
AR	0	16	39	42	3
CA	0	0	0	60	40
GA	0	5	20	64	11
LA	0	5	52	35	8
MS	1	10	34	47	8
MO	5	5	38	48	4
NM	2	6	34	48	10
NC	6	14	42	37	1
OK	0	3	21	71	5
SC	1	2	19	72	6
TN	3	11	31	49	6
TX	2	8	28	51	11
ALL	2	8	29	49	12
Prev Wk	2	8	30	47	13
Prev Yr	3	10	27	46	14

## Sorghum Crop Condition by Percent

	VP	P	F	G	EX
AR	0	4	36	55	5
CO	0	1	30	60	9
IL	0	5	45	47	3
KS	1	2	17	64	16
LA	0	0	34	61	5
MS	0	1	33	64	2
MO	2	7	33	51	7
NE	0	5	31	53	11
NM	0	0	31	69	0
OK	0	1	35	61	3
SD	0	2	23	65	10
TX	0	4	26	50	20
ALL	0	3	25	57	15
Prev Wk	0	3	22	61	14
Prev Yr	2	8	31	47	12

## Oats Crop Condition by Percent

	VP	P	F	G	EX
IA	0	2	29	57	12
MI	3	10	45	36	6
MN	3	8	33	42	14
NE	0	6	30	53	11
ND	3	18	45	33	1
OH	1	14	29	47	9
PA	0	9	31	52	8
SD	3	9	23	56	9
WI	0	2	12	62	24
ALL	2	9	30	48	11
Prev Wk	2	8	31	48	11
Prev Yr	0	5	25	60	10

# Crop Progress and Condition

Week Ending July 20, 1997

	VP	P	F	G	EX
AL	0	7	42	47	4
FL	0	10	20	42	28
GA	0	1	21	66	12
NC	0	23	53	21	3
OK	0	1	26	58	15
SC	0	0	20	76	4
TX	0	1	20	64	15
VA	0	1	49	45	5
ALL	0	4	29	57	11
Prev Wk	0	2	25	63	10
Prev Yr	1	6	31	52	10

	VP	P	F	G	EX
ID	0	1	6	66	27
MN	12	12	18	52	6
MT	1	2	31	54	12
ND	2	16	36	41	5
SD	6	10	24	51	9
WA	0	0	5	81	14
ALL	2	9	27	52	10
Prev Wk	1	10	27	51	11
Prev Yr	1	7	25	55	12

	VP	P	F	G	EX
ID	0	1	8	64	27
MN	10	16	18	51	5
MT	1	9	36	49	5
ND	3	14	39	41	3
SD	1	6	23	51	19
ALL	3	12	33	46	6
Prev Wk	3	15	32	45	5
Prev Yr	1	6	30	53	10

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

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

	VP	P	F	G	EX		VP	P	F	G	EX
AL	0	3	28	57	12	NH	0	30	52	18	0
AZ	16	19	36	25	4	NJ	0	60	40	0	0
AR	1	12	44	39	4	NM	1	9	38	49	3
CA	5	15	50	25	5	NY	4	53	43	0	0
CO	6	17	39	32	6	NC	5	26	33	33	3
CT	0	22	46	32	0	ND	4	27	44	24	1
DE	10	32	32	26	0	OH	3	12	36	42	7
FL	0	0	15	75	10	OK	0	3	27	61	9
GA	1	6	37	52	4	OR	0	8	33	37	22
ID	0	1	9	62	28	PA	35	22	30	13	0
IL	6	19	35	36	4	RI	50	50	0	0	0
IN	2	16	43	37	2	SC	1	11	31	53	4
IA	8	17	38	35	2	SD	4	4	20	56	16
KS	1	8	20	61	10	TN	0	4	32	53	11
KY	3	14	44	34	5	TX	0	5	31	48	16
LA	0	2	22	66	10	UT	2	7	27	58	6
ME	0	0	0	85	15	VT	0	0	0	87	13
MD	25	25	35	15	0	VA	15	35	40	10	0
MA	3	22	43	32	0	WA	0	10	15	72	3
MI	4	23	50	21	2	WV	3	15	35	45	2
MN	3	11	37	44	5	WI	1	7	30	55	7
MS	1	3	21	61	14	WY	0	2	18	73	7
MO	3	21	40	34	2	ALL	3	12	33	44	8
MT	0	4	33	52	11						
NE	4	17	35	38	6	Prev Wk	2	8	30	50	10
NV	0	4	23	58	15	Prev Yr	6	13	31	43	7

## 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 6.3. Topsoil 1% very short, 42% short, 49% adequate, and 8% surplus. Corn silked 91%, 99% 1996, 95% avg. Corn dented 50%, 57% 1996, 49% avg. Corn 1% very poor, 3% poor, 16% fair, 68% good, and 12% excellent. Wheat harvested 97%, 100% 1996, 98% avg. Livestock 1% poor, 13% fair, 63% good, and 23% excellent. Rains produced by Hurricane Danny flooded many fields in Baldwin and Mobile Counties.

**ALASKA:** Days suitable for baling hay 3. Topsoil 40% short, 60% adequate. Subsoil 60% short, 40% adequate. Hay harvest 80% complete, equal to last year. Barley 40% fair, 55% good, 5% excellent. Barley 10% headed, 90% in dough. Oats 70% headed, 30% in dough. Potatoes 15 in. tall, 50% in bloom, 10% in bloom a year ago. Harvest of lettuce, squash, cabbage continues.

**ARIZONA:** Small grain harvest is complete. Alfalfa harvest activity 1% light, 31% moderate, 53% active, 15% not being harvested; condition 12% fair, 64% good, 24% excellent. Cantaloupe, honeydews continued to be harvested in western areas. Watermelons, speciality melons were shipped from the central area. Central area growers shipped sweet corn and carrots. Grapes continued to be harvested in the west.

**ARKANSAS:** Days suitable for field work 6. Scattered showers throughout the week. Soil moisture supplies were: 8% very short, 50% short, 41% adequate, and 1% surplus. Main farming activities: Irrigation of crops, harvest of hay, and soybean weed control. Other farm activity included: fertilization and herbicide applications to rice and cotton, fertilization of pasture, and peach and tomato harvest. Corn 24% fair, 50% good, 26% excellent, oats 17% fair, 48% good, 35% excellent, hay 1% very poor, 9% poor, 44% fair, 43% good, 3% excellent, pasture 1% very poor, 12% poor, 44% fair, 39% good, 4% excellent.

**CALIFORNIA:** Field activities progressed normally under favorable conditions in most areas. Small grain harvest was virtually complete except at higher elevations. Sugar beet harvest was active in the southern San Joaquin Valley, and new crop sugarbeets were treated for worms. Rice was sprayed for armyworms and weeds. Cotton was blooming and setting bolls in the San Joaquin Valley, while some fields in the Imperial Valley had open bolls. Cotton growers continued to treat for aphids, lygus, mites and whiteflies. Corn silage harvest was ongoing in central and southern counties. Late plantings of second crop corn and dry edible beans were winding down in most areas. Corn, blackeye beans and sugarbeets grew rapidly with the hot temperatures. Garbanzo bean and safflower harvests were underway in the southern San Joaquin Valley. Alfalfa and sudangrass were cut for hay or greenchopped. Peach, pear, nectarine and plum harvesting continued. Orchard floors were being prepared for almond harvest. Apple orchards were sprayed to control worms, thrips and scale. Gala apple picking started. Olives were maturing normally; some were treated for black scale. The table grape harvest continued. Valencia orange picking continued. Some new crop oranges were treated for red scale and mites. Broccoli, cauliflower and lettuce were harvested in the coastal areas. Cauliflower was transplanted in Stanislaus County. Harvest of carrots in Kern County progressed. Carrots were hand weeded on the west side of Fresno County. Processing tomato harvest continued. Potato harvest progressed in Kern County. Harvest of watermelon and honeydew melons was underway in the Sacramento Valley. Sweet corn fields were treated to control worms. Bell peppers were sprayed to control whitefly, aphids and worms. The Kings County garlic harvest was winding down. Other crops harvested were: sweet corn, bell peppers, radishes, eggplant, squash, cucumbers, onions, okra, beans and

sweet potatoes. Rangeland forage was plentiful and in good condition at higher elevations, but was in poor condition at lower elevations. Supplemental feeding was necessary on lower elevation ranches. High temperatures, light winds and dry vegetation created extremely hazardous fire conditions. Livestock were in good condition. Poultry flocks were experiencing some seasonal heat related mortality. Honey bees were active in seed alfalfa and melon fields.

**COLORADO:** Days suitable for fieldwork 6.7. Topsoil 31% very short, 40% short, 29% adequate. Subsoil 14% very short, 46% short, 39% adequate, 1% surplus. Spring barley 60% turning color, 88% 1996, 45% avg.; 16% harvested, 5% 1996, 4% avg.; 4% poor, 14% fair, 66% good, 16% excellent. Oats 93% headed, 95% 1996, 89% avg.; 48% turning color, 48% 1996, 52% avg.; 20% harvested, 22% 1996, 15% avg.; 2% poor, 16% fair, 66% good, 16% excellent. Spring wheat 97% headed, 97% 1996, 88% avg.; 34% turning color, 53% 1996, 25% avg.; 5% poor, 21% fair, 60% good, 14% excellent. Sorghum 2% headed, 6% 1996, 1% avg.; 1% poor, 30% fair, 60% good, 9% excellent. Summer potatoes 2% poor, 20% fair, 56% good, 22% excellent. Dry onion 1% poor, 10% fair, 65% good, 24% excellent. Sugar beets 4% fair, 64% good, 32% excellent. Dry beans 18% flowered, 39% 1996, 11% avg.; 3% poor, 30% fair, 45% good, 22% excellent. Corn 8% silked, 17% 1996, 12% avg. Alfalfa 34% 2nd cutting, 39% 1996, 34% avg.; 5% very poor, 2% poor, 17% fair, 60% good, 16% excellent. Winter wheat 95% ripe, 94% 1996, 90% avg. Livestock mostly good to fair.

**DELAWARE:** Days suitable for fieldwork 6.3. Topsoil 28% very short, 48% short, 24% adequate. Subsoil 12% very short, 56% short, 32% adequate. Winter wheat 96% harvested, 94% 1996, 96% avg. Corn 5% very poor, 11% poor, 30% fair, 50% good, 4% excellent. Field corn 17% silked, 37% 1996, 51% avg. Soybeans 1% very poor, 8% poor, 27% fair, 62% good, 2% excellent; 24% bloomed, 9% 1996, 17% avg. Sorghum 38% fair, 62% good; 5% planted, 11% 1996, 4% avg. Cucumbers 32% harvested, 39% 1996, 36% avg. Snap beans 9% harvested, 10% 1996, 39% avg. Sweet corn 19% harvested, 20% 1996, 24% avg. Potatoes 12% harvested, 20% 1996, 22% avg. Apples 9% fair, 90% good, 1% excellent. Peaches 8% fair, 91% good, 1% excellent. Hay supplies 21% short, 79% adequate. Clover and other hays 80% 2nd cutting harvested, 62% 1996, 60% avg. Alfalfa 91% 2nd cutting harvested, 80% 1996, 88% avg. Activities: Very dry conditions reported throughout State creating major problems for crop conditions.

**FLORIDA:** Atlantic, Gulf of Mexico sea breezes continued to produce daily showers over inland areas of Peninsula. Feeder bands from Hurricane Danny combined with sea breezes, July 18-20, brought heavy rains to most localities. Official rain totals for most of major metropolitan locations through July 19 ranged from 1.50 in. at Orlando, Tampa, and Daytona Beach, to almost 5.00 in. at Miami with West Palm Beach reporting 0.50 in., Jacksonville, a trace. Unofficial reports from western Panhandle indicate up to 5.00 or 6.00 in. fell over weekend due to hurricane. Corn, soybeans, peanuts, cotton, tobacco escaped significant damage from hurricane wind, rainfall in Panhandle, northern Peninsula. Topsoil, subsoil rated mostly adequate to short, surplus moisture in some localized areas. Peanut 10% poor, 20% fair, 42% good, 28% excellent with 91% pegged. Significant rainfall during June caused some disease problems in a few fields of peanuts. Many vegetable growers delayed field preparations, laying of plastic for fall crop planting until threat of bad weather from Hurricane Danny passed. Summer vegetables continue to be picked for local sales. Abundant new growth, fruit sizing well, some Navels, grapefruit advanced sizes. Some stress in minimum

care groves. Weeds, cover crops making good growth. Caretakers cutting cover crops, spraying, fertilizing, herbiciding, pushing, burning dead trees. Pasture feed fair 15%, good 75%, excellent 10%. Cattle fair 10%, good 80%, excellent 10%. Moisture conditions varied considerably within counties, with some parts having standing water, other parts reported dry. Standing water reported in many low lying areas southwest, Panhandle. Central area pasture reported good West Central area ponds, streams still low due to inadequate rainfall. Pasture mowing, haying active. Cattle reported in fair to excellent condition.

**GEORGIA:** Days suitable for field work 6.1. Soil moisture 13% very short, 38% short, 47% adequate, 2% surplus. Corn 90% dough, 87% 1996, 91% avg.; 61% dent, 58% 1996, 67% avg.; 21% mature, 14% 1996, 21% avg. Hay 1% very poor, 7% poor, 36% fair, 52% good, 4% excellent. Peanuts 98% blooming, 99% 1996, 99% avg. Sorghum 4% poor, 29% fair, 63% good, 4% excellent; 97% planted, 99% 1996, 98% avg. Soybeans 10% setting pods, 11% 1996, 11% avg. Tobacco 4% poor, 34% fair, 57% good, 5% excellent; 47% harvested, 36% 1996, 38% avg. Watermelons 2% very poor, 16% poor, 46% fair, 32% good, 4% excellent; 75% harvested, 86% 1996, 85% avg. Apples 1% poor, 11% fair, 88% good; 1% harvested, 2% avg. Peaches 16% poor, 37% fair, 40% good, 7% excellent; 89% harvested, 84% 1996, 87% avg. Pecans 5% poor, 29% fair, 61% good, 5% excellent. Continued hazy, hot and humid. Row crops declining but still fair to good. Soil moisture lowest in two months. Cutting and baling hay very active, but growth slow. Insects increasing in cotton. Good progress harvesting tobacco, markets open July 22. Other activities: Spraying peanut fungicides, harvesting corn silage, cultivating late row crops, irrigating and mowing pastures.

**HAWAII:** Orchard crops generally good progress. Summer crops good to fair progress. Cool-weather crops mostly fair to good. Banana harvesting active, increased spraying some areas. Papayas good to fair, some poor. Harvesting steady in major areas. Disease remains a problem. Watermelon harvesting very active, crop condition and fruit quality good. Head cabbage supplies heavy. Tomato harvesting active, crop fair to good. Sweet corn seasonally heavy.

**IDAHO:** Days suitable for fieldwork 6.2. Topsoil 3% surplus, 88% adequate, 9% short. Spring wheat turning color 36%. Barley turning color 36%; Harvested 1%, 1% 1996, 1% avg. Winter wheat turning color 76%. Potatoes 12 in. high 93%, 91% 1996, 90% avg.; closing middles 79%, 76% 1996, 65% avg. Potato 31% excellent, 55% good, 14% fair. Alfalfa Hay harvested 1st cutting 99%, 98% 1996, 98% avg.; 2nd cutting 28%, 25% 1996, 25% avg. Oats harvested for grain 2%, 4% avg. Dry Peas harvested 1%, 3% 1996, 4% avg. Cherries harvested 98%, 89% 1996, 94% avg. Peaches harvested 6%, 9% avg. Mint harvested 4%, 4% 1996, 15% avg. Irrigation Water Supply 44% excellent, 56% good. Activities: Preparing for grain harvest, harvesting hay, weed control, irrigating.

**ILLINOIS:** Days suitable for fieldwork 6.6. Topsoil 28% very short, 43% short, 28% adequate, 1% surplus. Corn, soybean crop conditions deteriorated under last weeks warm and dry weather pattern. Pasture, hay crops were showing the effect of the dry weather, also, as 2nd, 3rd alfalfa cuttings reported short. Spraying alfalfa fields for leafhopper was common and farmers were scouting for spider mites and grasshoppers in soybean fields. Wheat harvest was near completion as oat harvest was beginning last week. Activities: Harvesting peaches and peas, weeding beans, mowing roadsides and attending county fairs. Corn doughed less than 1%, 1% 1996, 4% avg. Soybeans setting pods 7%, 2% 1996, 9% avg. Wheat turning ripe 99%, 97% 1996, 99% avg. Oats filled 99%, 89% 1996, 94% avg.; turning yellow 87%, 63% 1996, 79% avg.; ripe 36%, 20% 1996, 45% avg.; harvested 8%, 5% 1996, 14% avg. Oats 1% very poor, 7% poor, 28% fair, 55% good, 9% excellent. Alfalfa hay second cutting 72%, 46% 1996, 63% avg.; 3rd cutting 3%, 4% 1996, 5% avg. Alfalfa hay 2% very poor, 10% poor, 42% fair, 42% good, 4% excellent. Red clover hay cutting 93%, 98% 1996, 96% avg.

**INDIANA:** Days suitable for fieldwork 6.7. Topsoil 13% very short, 48% short, 38% adequate, 1% surplus. Subsoil 6% very short, 32% short, 61% adequate, 1% surplus. Wheat harvest is advancing rapidly. Many areas are in need of rain, as soil moisture begin to decline. Range and pasture 2% very poor, 16% poor, 43% fair, 37% good, 2% excellent. Second cutting of alfalfa 40% complete. Activities: Harvesting wheat, baling hay and straw, applying herbicide, cultivating corn and soybeans, machinery maintenance, attending 4-H fairs, caring for livestock.

**IOWA:** Days suitable for field work 6.0. Topsoil very short 11%, short 37%, adequate 49%, surplus 3%. Subsoil very short 4%, short 29%, adequate 65%, surplus 2%. The dry weather led to declining conditions in all but the soybean crop. Grasshoppers and leafhoppers are being reported across the State. Winter wheat harvest was in full swing. Corn tasseled 28%, 11% 1996, 35% avg.; silked 11%, 3% 1996, 20% avg. Soybean acreage blooming 60%, 43% 1996, 53% avg.; setting pods 6%, 3% 1996, 12% avg. Alfalfa hay 2nd harvest 53% complete, 36% 1996, 39% avg. Oats turning color 94%, 82% 1996, 84% avg. Winter wheat harvested 68%, 65% 1996, 51% avg. Corn 3% poor, 21% fair, 56% good, 20% excellent. Soybean 4% poor, 24% fair, 56% good, 16% excellent. Hay condition 4% very poor, 15% poor, 37% fair, 40% good, 4% excellent. Oats 2% poor, 29% fair, 57% good, 12% excellent. Livestock reported in good condition. Pasture 8% very poor, 17% poor, 38% fair, 35% good, 2% excellent.

**KANSAS:** Days suitable for fieldwork 6.0. Topsoil 11% very short, 32% short, 48% adequate, 9% surplus. Subsoil 5% very short, 26% short, 65% adequate, 4% surplus. Corn in dough stage 26%, 12% 1996, 10% avg. Soybeans setting pods 14%, 10% 1996, 6% avg. Sunflowers 7% poor, 17% fair, 69% good, 7% excellent. Sunflowers planted 99%, no historic data available; emerged 96%, no historic data; begin to petal 22%. Second cut alfalfa 96%, 95% 1996, 85% avg. Third cut alfalfa 28%, 24% 1996, 14% avg. Pasture condition 1% very poor, 8% poor, 20% fair, 61% good, and 10% excellent. Water supplies 1% very short, 10% short, 89% adequate. Activities: Working wheat stubble, irrigating and cutting alfalfa hay.

**KENTUCKY:** Days suitable for fieldwork 5.9. Dry weather continued. Concern is increasing in regard to dry conditions. Topsoil 19% very short, 49% short, 31% adequate, 1% surplus. Subsoil 13% very short, 37% short, 46% adequate, 4% surplus. Tobacco height 61% under 24 in., 25% 24-36 in., 14% over 36 in. Tobacco 11% very poor, 25% poor, 43% fair, 19% good, 2% excellent. Winter wheat harvested 95%, 98% 1996, 98% avg. Hay 1% very poor, 13% poor, 40% fair, 40% good, 6% excellent. Pasture 3% very poor, 14% poor, 44% fair, 34% good, 5% excellent.

**LOUISIANA:** Days suitable for fieldwork 5.3. Soil moisture 1% very short, 17% short, 69% adequate, 13% surplus. Corn 2% poor, 13% fair, 75% good, 10% excellent; 100% silked, 100% 1996, 100% avg.; 86% dough, 95% 1996, 93% avg.; 22% mature, 40% 1996, 34% avg.; 0% harvested 4% 1996, 2% avg. Hot, dry weather caused some corn fields to exhibit signs of stress. Cotton: Increasing weevil populations in cotton forced farmers to step up insect control measures. Hay 98% first cutting, 97% 1996, 97% avg.; 38% second cutting, 31% 1996, 21% avg. Peaches 98% harvested, 63% 1996, 74% avg. Rice 9% ripe, 9% 1996, 10% avg.; 1% harvested 1% 1996, 3% avg. A few rice growers began harvesting, but most were still draining fields and applying fungicides. Sorghum 16% turning color, 24% 1996, 16% avg.; 1% ripe, 1% 1996, 1% avg. Soybeans 100% emerged, 100% 1996, 99% avg.; 38% setting pods, 41% 1996, 25% avg. Sugarcane 3% poor, 18% fair, 54% good, 25% excellent. Borer pressure continued to increase in sugarcane. Sweet Potatoes 100% planted, 99% 1996, 97% avg.; 1% avg. Sweet potato harvest began with producers reporting some insect damage. Livestock 3% poor, 25% fair, 65% good, 7% excellent. Vegetables 2% very poor, 12% poor, 31% fair, 51% good, 4% excellent.

**MARYLAND:** Days suitable for fieldwork 6.4. Topsoil 40% very short, 34% short, 26% adequate. Subsoil 29% very short, 45% short,

26% adequate. Corn 27% very poor, 21% poor, 30% fair, 16% good, 6% excellent. Field Corn 24% silked, 44% 1996, 45% avg. Winter wheat 95% harvested, 92% 1996, 92% avg. Rye 87% harvested, 82% 1996, 83% avg. Barley 100% harvested, 100% 1996, 99% avg. Soybeans 14% very poor, 21% poor, 32% poor, 32% good, 1% excellent; 10% bloomed, 11% 1996, 14% avg. Sorghum 19% very poor, 5% poor, 35% fair, 38% good, 3% excellent. Cucumbers 33% harvested, 47% 1996, 41% avg. Potatoes 12% harvested, 19% 1996, 29% avg. Snap beans 45% harvested, 38% 1996, 40% avg. Tobacco 3% very poor, 14% poor, 39% fair, 42% good, 2% excellent. Apples 2% very poor, 2% poor, 26% fair, 51% good, 19% excellent. Peaches 59% very poor, 1% poor, 8% fair, 28% good, 4% excellent. Hay supplies 8% very short, 27% short, 64% adequate, 1% surplus. Alfalfa hay 84% 2nd cutting, 68% 1996, 82% avg; 12% 3rd cutting, 18 1996, 14% avg. Clover, other hays 55% 2nd cutting, 40% 1996, 52% avg. Activities: Very dry conditions reported in most of State, leaf hopper activity high in alfalfa, minimal if any crop growth in western Maryland.

**MICHIGAN:** Days suitable for fieldwork 6.0. Topsoil was reported as 15% very short, 46% short, 37% adequate, 2% surplus. Subsoil moisture was 7% very short, 42% short, 48% adequate, 3% surplus. Corn height 46 in., 39 in. 1996. All hay, 2nd cutting harvested 38% 1997, 30% 1996, 31% avg. All hay crop 3% very poor, 13% poor, 49% fair, 28% good and 7% excellent. Dry beans blooming 7% 1997, 1% 1996, 12% avg. Oats turning yellow 39% 1997, 35% 1996, 34% avg. Pasture feed 4% very poor, 23% poor, 50% fair, 21% good, 2% excellent. Strawberries harvested 99%, 100% 1996, 99% avg.

**MINNESOTA:** Days suitable for fieldwork 3.6. Topsoil 1% very short, 6% short, 67% adequate, 26% surplus. Corn 59 in. height, 56 in. 1996, 53 in. 5 yr. avg.; 13% tasseled, 13% 1996, 25% 5 yr. avg. Soybeans 17 in. height, 16 in. 1996, 17 in. 5 yr. avg.; 44% blooming, 40% 1996, 44% 5 yr. avg.; 4% setting pods, 4% 1996, 8% 5 yr. avg. Spring wheat 93% headed, 84% 1996, 94% 5 yr. avg.; 18% turning ripe, 21% 1996, 27% 5 yr. avg. Oats 98% headed, 98% 1996, 98% 5 yr. avg.; 44% turning ripe, 33% 1996, 48% 5 yr. avg. Barley 95% headed, 85% 1996, 95% 5 yr. avg.; 13% turning ripe, 20% 1996, 30% 5 yr. avg. Pasture 3% very poor, 11% poor, 37% fair, 44% good, 5% excellent. Spring wheat 10% very poor, 16% poor, 18% fair, 51% good, 5% excellent. Barley 12% very poor, 12% poor, 18% fair, 52% good, 6% excellent. Corn 1% very poor, 3% poor, 18% fair, 55% good, 23% excellent. Oats 3% very poor, 8% poor, 33% fair, 42% good, 14% excellent. Soybeans 3% very poor, 8% poor, 32% fair, 45% good, 12% excellent. Dry Beans 46% very poor, 4% poor, 12% fair, 27% good, 11% excellent. Sunflowers 35% very poor, 8% poor, 15% fair, 40% good, 2% excellent. Sugar beets 17% very poor, 11% poor, 15% fair, 47% good, 10% excellent.

**MISSISSIPPI:** Days suitable for fieldwork 3.70. Soil moisture 14% short, 57% adequate, 29% surplus. Corn 85% silked, 98% 1996, 95% avg.; 68% dough, 78% 1996, 71% avg.; 30% dent, 44% 1996, 31% avg.; 4% poor, 19% fair, 64% good, 13% excellent. Soybeans 98% planted, 100% 1996, 99% avg.; 92% emerged, 100% 1996, 98% avg.; 45% blooming, 74% 1996, 47% avg.; 15% setting pods, 44% 1996, 20% avg.; 1% very poor, 6% poor, 28% fair, 53% good, 12% excellent. Wheat, 99% harvested, 100% 1996, 100% avg. Peaches 60% harvested, 84% 1996, 76% avg.; 4% poor, 14% fair, 62% good, 20% excellent. Peanuts, 3% fair, 87% good, 10% excellent. Sweetpotatoes 95% planted, 98% 1996, 100% avg.; 1% poor, 10% fair, 89% good. Hay 61% harvested, 67% 1996, 70% avg.; 2% very poor, 7% poor, 30% fair, 51% good, 10% excellent. Cattle 2% poor, 17% fair, 67% good, 14% excellent. Pasture 1% very poor, 3% poor, 21% fair, 61% good, 14% excellent. Activities: Planting soybeans, harvesting hay and wheat. Corn development continues to progress behind normal.

**MISSOURI:** Days suitable for fieldwork 6.4. Topsoil supply, 10% very short, 50% short, 38% adequate, 2% surplus. The northeastern and south-central districts both report ratings of 20% or more as very short, and all districts report significant shortages. The wheat harvest is virtually complete in all areas, the double crop soybeans are in the ground and haying activities are on schedule. Oats harvested 75%,

62% 1996, 59% avg. Second crop alfalfa 84%, 71% 1996, 67% avg. Other hay 84% cut, 86% 1996, 83% avg. Dry, hot weather is causing a decline in the condition of row crops. Pastures 3% very poor, 21% poor, 40% fair, 34% good, 2% excellent.

**MONTANA:** Days suitable for field work 5.8. Topsoil 2% very short, 34% short, 62% adequate, and 2% surplus. Subsoil 3% very short, 30% short, 65% adequate, and 2% surplus. The winter wheat crop in one county had severe losses after being shredded by hail. Many areas that were infected by wheat stem sawfly have been swathed and harvest is beginning. Winter wheat 100% headed, 100% 1996, 100% avg. Winter wheat 82% turning, 62% 1996, 67% avg. Winter wheat 9% ripe, 5% 1996, 5% avg. Oats 100% boot, 99% 1996, 99% avg. Oats 87% headed, 86% 1996, 87% avg. Oats 22% turning, 6% 1996, 15% avg. Oats condition 1% very poor, 4% poor, 34% fair, 55% good, 6% excellent. Alfalfa hay 1st cutting 86% complete, 92% 1996, 77% avg., 2nd cutting 4% complete, 5% 1996, 2% avg. Other hay first cutting 65% complete, 71% 1996, 60% avg.

**NEBRASKA:** Days suitable for fieldwork 6.4. Subsoil 4% very short, 35% short, 58% adequate, 3% surplus. Topsoil 11% very short, 39% short, 50% adequate. Hot, dry conditions prevailed across the State last week, resulting in rapid wheat harvest progress. Harvest was virtually complete in south central and southeastern counties while the Panhandle crop was 25% cut. Dryland crops were under stress last week with many counties reporting short soil moisture supplies. Grasshopper and corn borer activity was noted over much of the State. Winter wheat 89% ripe, 84% 1996, 86% avg; 64% harvested, 48% 1996, 52% avg. Corn condition 3% poor, 21% fair, 54% good, 22% excellent; 27% silked, 32% 1996, 33% avg. some producers treated fields for corn borer. Soybeans condition 3% poor, 22% fair, 60% good, 15% excellent; 52% blooming, 33% 1996, 37% avg. Sorghum condition 5% poor, 31% fair, 53% good, 11% excellent; crop headed was just beginning but less than 1% as Sunday. Dry bean 5% poor, 39% fair, 49% good, 7% excellent; 40% blooming, 34% 1996; 2% pod set, 2% 1996. Alfalfa 4% very poor, 17% poor, 33% fair, 37% good, 9% excellent; 62% 2nd cutting, 66% 1996, 58% avg. Potato leaf hopper continued concerns in spring seeded alfalfa. Wild hay 2% very poor, 15% poor, 37% fair, 39% good, 7% excellent. Pasture and range 4% very poor, 17% poor, 35% fair, 38% good, 6% excellent. Activities: Cultivating soybeans, spraying herbicides, irrigating crops, routine chores.

**NEVADA:** Temperatures remained slightly below normal in the North and rose to slightly above normal Extreme South. Austin and Battle Mountain were the only to weather stations to record precipitation during the week; Austin 0.20 inch, Battle Mountain 0.05 inch. Haying was in full swing. Alfalfa 1st cutting completed; 2nd cutting underway northern and central valleys, and 3rd cutting underway Extreme South. Other hay harvest active statewide with mostly grass being cut North; Sudan and oat hay harvested South. Grain crops nearly all turned color. Russian knapweed and cheat grass infested some wheat fields Lovelock area. Grain crop condition rated mostly good. Garlic harvest continued. Onions in good to excellent condition. Potatoes good condition. Main farm, ranch activities: Hay, garlic harvests, irrigating, spraying.

**NEW ENGLAND:** Days suitable for field work: 5.6. Topsoil 6% very short, 30% short, 53% adequate, 11% surplus. Subsoil 3% very short, 16% short, 69% adequate, 12% surplus. Pasture 1% very poor, 8% poor, 15% fair, 67% good, 9% excellent. Maine potatoes good. Massachusetts potatoes good. Rhode Island potatoes good. Oats, Barley in Maine good. Field corn good. Sweet corn 99% emerged; 5% harvested, 5% 1996, 10% avg.; good to fair. Shade tobacco good. Broadleaf tobacco good to fair. First cut hay 95% harvested, 85% 1996, 90% avg.; good to fair. Second cut hay 35% harvested, 20% 1996, 20% avg. Condition good to excellent. Apples fruit set avg. to above avg.; fruit size avg. to above avg.; good to excellent. Peaches fruit set below avg. to avg.; fruit size avg.; good to fair. Pears fruit set avg.; fruit size avg.; good. Strawberries 99% harvested; 99% 1996; fruit size avg. to above avg.; good to excellent. Cranberries petal fall to full bloom; fruit set avg. to above avg.; fruit size avg.; good to excellent. Highbush blueberries fruit set avg.; fruit

size avg.; good. Wild blueberries fruit set above avg.; fruit size above avg.; good to excellent. More rain to most of New England this week provided rapid growth and very good crop conditions. However, RI and the coastal regions of MA did not see a significant rain fall and some farmers experienced crop losses due to hot days and no rain. Primary farm activities: Harvesting peas, lettuce, spinach, blueberries, raspberries, shade tobacco; mowing; cutting hay; side dressing corn; cultivating potatoes; spreading manure on cut fields; spraying for weed and insect control; irrigating where available and as needed.

**NEW JERSEY:** Days suitable for fieldwork 7 days. Topsoil reported as very short to short. Farmers are irrigating extensively, harvesting summer items and preparing ground for planting fall crops. Increasing harvest of cucumbers, Italian eggplant, green beans, peppers, squash, tomatoes, pickles, cabbage, squash, sweet corn and sugar baby watermelon. Harvesting of leafy greens and lettuce is nearly complete. Cutting and baling of hay continues. Combining of wheat and barley reported. Pastures continue to suffer from the lack of rain. The blueberry harvest is just past its peak. Peach harvest gradually increasing. Apples are sizing well.

**NEW MEXICO:** Days suitable for fieldwork 6.8. Topsoil declined to 9% very short, 40% short, 51% adequate. Hay harvest continued with the 2nd cutting of alfalfa 92% completed and the 3rd cutting 53% completed. Alfalfa was 7% poor, 16% fair, 68% good, 9% excellent. Wheat harvest was finishing up with at 95% complete, 99% 1996, 99% avg. Wheat 1% poor, 13% fair, 82% good, 4% excellent. Cotton crop maturing quickly with hot, dry summer weather. Cotton 2% very poor, 6% poor, 34% fair, 48% good, 10% excellent; 98% squaring, 99% 1996, 86% avg; 65% setting bolls, 77% 1996, 45% avg. Sorghum began to decline as dry summer weather set in. Sorghum 31% fair, 69% good; 1% headed. Onion harvest progressed slowly to 70% complete, 68% 1996; 7% fair, 64% good, 29% excellent. Chile pod set was rated 82% avg., 5% poor, 28% fair, 57% good, 10% excellent. Corn producers were concerned over the growing grasshopper population. Corn 7% fair, 83% good, 10% excellent; 55% tasseled, 59% 1996. Cattle and sheep continued to be in mostly good. Range and pasture feed 1% very poor, 9% poor, 38% fair, 49% good, 3% excellent.

**NEW YORK:** Days suitable for fieldwork 6.5 days. Soil moisture supplies were 20% very short, 40% short, and 40% adequate. Pastures 57% poor, 43% fair. Corn 20% poor, 20% fair, 60% good. Hay 20% poor, 60% fair, 20% good. Second cutting of hay is in full swing with poor yields reported. Second cutting of alfalfa 35% complete, 16% 1996, 25% avg. Wheat 5% complete, 19% 1996, 26% avg. Oats are fully headed and harvest should be underway this week. Sweet cherry harvest is complete in Columbia County. Blueberries are ripening, and raspberry harvest is underway. Early varieties of sweet corn are being harvested. Tomatoes reported in good.

**NORTH CAROLINA:** Days suitable for fieldwork 6.3 days. Another hot dry week was good for fieldwork, but bad for the drier areas in the state. Localized areas are starting to report drought damage that may effect yield in some counties. Soil moisture is rated 27% very short, 39% short, 33% adequate, and 1% surplus. Activities for the week included: planting sorghum, soybeans, and sweetpotatoes; fertilizer and herbicide applications on corn; suckering and topping tobacco; harvesting flue-cured tobacco, Irish potatoes, and peaches; cutting hay; maintaining pastures; tending livestock; repairing equipment; and general farm maintenance.

**NORTH DAKOTA:** Days suitable for fieldwork 5. Scattered precipitation continued to replenish Statewide soil moisture supplies which were still below the 5-year avg. Small grains developed rapidly and began turning color, but remained below avg. High humidity caused concerns for scab and midge in wheat. Topsoil 2% very short, 15% short, 69% adequate, 14% surplus. Subsoil 1% very short, 17% short, 69% adequate, 13% surplus. Small grain development was well into the milk stage, spring wheat and durum were slightly ahead of last year, but behind avg., while barley was behind both last year

and average. Late season crops made excellent progress and entered more advanced stages of development, near the avg. pace. Durum wheat 84% boot and beyond, 66% heading and beyond, 18% milk and beyond, 2% turning and beyond; 86%, 65%, 14%, 1% last year; 88%, 67%, 22%, 2% avg. Late season crops canola 84% blooming and beyond; 89% last year; dry edible beans 63% blooming, beyond, 8% podding and beyond, 32%, 4% last year; 36%, 7% avg.; flaxseed 63% blooming and beyond, 1% turning and beyond; 40%, 0% last year; 40%, 0% avg.; potatoes 85% blooming, beyond, 46% rows filled, beyond; 70%, 25% last year; 69%, 40% avg.; soybeans 69% blooming, beyond, 8% podding, beyond; 37%, 11% last year; 37%, 11% avg. Potato, durum wheat, flaxseed, soybean improved considerably due mostly to drier weather conditions while dry edible bean and barley conditions declined. All other crop conditions improved slightly, including pasture. Emerged crop condition: durum 5% very poor, 21% poor, 39% fair, 34% good, 1% excellent; canola 3% very poor, 15% poor, 32% fair, 38% good, 12% excellent; corn 5% poor, 20% fair, 57% good, 18% excellent; dry edible beans 7% very poor, 16% poor, 32% fair, 41% good, 4% excellent; flaxseed 3% very poor, 12% poor, 36% fair, 45% good, 4% excellent; potatoes 12% very poor, 14% poor, 21% fair, 48% good, 5% excellent; soybeans 1% very poor, 6% poor, 26% fair, 49% good, 18% excellent; Sugar beets 3% very poor, 11% poor, 18% fair, 58% good, 10% excellent; sunflower 1% very poor, 5% poor, 25% fair, 55% good, 14% excellent. Pasture improved slightly as parts of the state have adequate moisture 4% very poor, 27% poor, 44% fair, 24% good, 1% excellent.

**OHIO:** Days suitable for fieldwork was 6.9 days. Topsoil 7% very short, 41% short, 51% adequate, 1% surplus. Average corn development stage at 9 to 10 leaves. Corn silked 9 days behind the avg. Soybeans blooming about 5 days ahead of the avg.; 7% setting pods, 0% 1996, 6% avg. Oats turning rip 29%; 2% harvested, 6% 1996, 10% avg. Winter wheat 86% ripe; harvested less than a week behind avg. Alfalfa hay 52% 2nd cutting, 35% 1996, 52% avg. Other hay 28% 2nd cutting, 19% 1996, 30% avg. Apples 4% harvested. Activities throughout the State included mowing hay, ditches, pastures; baling hay, straw; scouting fields; spraying herbicides, pesticides; cultivating, side dressing; fence maintenance; repairing, preparing machinery for grain harvesting, potato digging. In the Southeastern district, vegetable growers harvesting tomatoes, sweet corn, peppers, cucumbers and irrigating their vegetable crops. Reported weed pressures: ragweed, Canadian thistles, johnson grass, hemp dogbane, lambsquarter. Reported insects: Potato leafhopper in alfalfa causing the plants to turn yellow; Japanese beetle in tobacco, soybeans, grapes; spotted cucumber beetle; European corn borer was noted in the Northwestern district. Reported diseases: blue mold in tobacco, black root rot in grapes, early blight on tomatoes. Pasture, grass conditions were affected by last weeks warm weather; one reporter indicated blue grass pastures going dormant; several reports of pastures starting to brown due to lack of moisture. Some reporters mentioned heat, flies were causing some stress on livestock. Winter wheat 0% very poor, 5% poor, 27% fair, 56% good, 11% excellent. Hay 2% very poor, 8% poor, 35% fair, 45% good, 10% excellent. Livestock 1% very poor, 5% poor, 27% fair, 56% good, 11% excellent.

**OKLAHOMA:** Days suitable for fieldwork 5.9. Topsoil 6% very short, 33% short, 54% adequate, 7% surplus. Subsoil 1% very short, 20% short, 74% adequate, 5% surplus. Wheat 71% plowed, 86% 1996, 77% avg; Oats 92% harvested, 100% 1996, 96% avg; 56% plowed, 78% 1996, 75% avg; Corn 55% tasseling, 97% 1996, 82% avg.; 16% milk-to-soft, 34% 1996, 27% avg.; Sorghum 98% up-to-stand, 100% 1996, 97% avg; Soybeans 93% up-to-stand, 97% 1996, 85% avg.; 32% flowering, 55% 1996, 32% avg; 11% setting pods, 19% 1996, 10% avg.; Peanuts 50% setting pods, 64% 1996, 27% avg; Alfalfa Hay 96% 2nd cutting, 97% 1996, 92% avg; 31% third cutting, 27% 1996, 35% avg.; All Other Hay 84% 1st cutting, 78% 1996, 94% avg; 8% 2nd cutting, 29% 1996, 44% avg; Watermelons 14% harvested, 32% 1996, n/a avg; Livestock 2% poor, 18% fair, 73% good, 7% excellent. Fed cattle were steady to slightly higher.

**OREGON:** Days suitable for fieldwork 6.8. Topsoil 2% very short, 27% short, 71% adequate. Subsoil 9% very short, 10% short, 81% adequate. Barley harvested 3%, 9% 1996, 15% average. Winter wheat harvested 3%, 10% 1996, 12% average. Activities: Willamette Valley hay crop production continued. Grass seed combining started & mint harvest begun. Wheat turning color. East side growers cutting hay. Northeast reported second cutting completed, some third cutting underway. Wheat, field corn & barley harvest started. Sugar beet roots sizing. Nurseries & greenhouses continued summer work of irrigation, container changing, propagation, & pruning. Spraying continued on Christmas trees. Eastern regions vegetable seed crops being pollinated & chipping potato harvest underway in some areas. Willamette Valley: vegetables reported looking good & plentiful. Growers busy harvesting snap beans, sweet corn, tomatoes & broccoli. Blueberry, blackberry, Marion variety of blackberries & raspberry harvest continued. Early Red Haven peaches ripening & early peach harvest underway. Strawberry field renovation underway. Walnut husk fly traps in orchards & hazelnut worm spraying being done. Rogue River Valley: peach harvest started. Pear crop doing well, third cover sprays for codling moth started. Apples, grapes & berries look good. South Coast cranberry fruit beginning to color. Hood River Valley: Bartlett pear & apple thinning nearly completed. Cherry harvest winding down & irrigation continued. Fire blight continued to be cut out of pears. Livestock condition reported as mostly good. Rangeland at higher elevations in east continued to look good. Southwest cattle on irrigated pastures or higher ranges. Willamette Valley excellent weather left pastures & livestock in better than normal condition.

**PENNSYLVANIA:** Days suitable for field work 6.2. Soil moisture 45% very short, 40% short, 15% adequate. Avg. corn height 42 in., 54 in. 1996, 51 in. avg. Corn crop condition 12% very poor, 30% poor, 35% fair, 20% good, 3% excellent. Soybean crop 5% very poor, 15% poor, 35% fair, 40% good, 5% excellent. Barley 99% ripe, 100% 1996, 90% avg.; 90% harvested, 94% in 1996, 76% avg. Winter wheat 86% ripe, 96% 1996, 85% avg., 55% harvested, 65% 1996, 52% avg. Wheat crop 30% fair, 55% good, 15% excellent. Oats 97% heading or headed, 98% 1996, 57% avg.; 74% turning yellow, 72% 1996, 67% avg; 35% ripe, 34% 1996, 24% avg. Oat crop condition 9% poor, 31% fair, 52% good, 8% excellent. Alfalfa 2nd cutting 65% complete, 58% 1996, 51% avg. Timothy clover 1st cutting 95% complete, 90% 1996, 92% avg. Timothy clover 2nd cutting 25% complete, 12% 1996, 13% avg. Quality of hay made 8% poor, 30% fair, 50% good, 12% excellent. Peach 5% very poor, 35% poor, 40% fair, 20% good. Apple condition 15% poor, 40% fair, 45% good. Major activities: Harvesting small grains; making hay and haylage; spraying; fixing fences; hauling manure; and caring for livestock.

**SOUTH CAROLINA:** Days suitable for fieldwork 6.4. Soil moisture 4% very short, 34% short, 57% adequate, 5% surplus. Barley 100% harvested, 100% 1996, 97% avg; 3% fair, 86% good, 11% excellent. Cantaloups 94% harvested, 94% 1996, 78% avg; 26% poor, 39% fair, 30% good, 5% excellent. Corn 99% silked, 100% 1996, 98% avg; 71% doughed, 82% 1996, 80% avg; 21% matured, 33% 1996, 26% avg; 1% very poor, 2% poor, 21% fair, 54% good, 22% excellent. Cucumbers 91% harvested, 95% 1996, 84% avg; 5% poor, 55% fair, 35% good, 5% excellent. Oats 100% harvested, 100% 1996, 98% avg; 11% fair, 80% good, 9% excellent. Peaches 56% harvested, 63% 1996, 56% avg; 11% poor, 41% fair, 42% good, 6% excellent. Snap Beans 84% harvested, 85% 1996, 71% avg; 9% fair, 82% good, 9% excellent. Sorghum 98% planted, 100% 1996, 90% avg; 2% poor, 27% fair, 49% good, 22% excellent. Tobacco 98% topped, 97% 1996, 92% avg; 21% harvested, 24% 1996, 24% avg; 3% poor, 16% fair, 68% good, 13% excellent. Tomatoes 70% harvested, 94% 1996, 95% avg; 76% fair, 19% good, 5% excellent. Watermelons 88% harvested, 89% 1996, 80% avg; 8% poor, 68% fair, 22% good, 2% excellent. Winter Wheat 100% harvested, 100% 1996, 100% avg; 4% fair, 67% good, 29% excellent.

**SOUTH DAKOTA:** Topsoil moisture 5% very short, 30% short, 61% adequate, 4% surplus. Subsoil moisture 1% very short, 14%

short, 77% adequate, 8% surplus. Days suitable for fieldwork, 5.5. Major activities by farmers and ranchers during the week were harvesting small grains, haying, and spraying. Winter Wheat 93% turning color, 89% 1996, 95% avg; 43% ripe, 21% 1996, 48% avg. Spring Wheat 93% headed, 92% 1996, 96% avg; 50% turning color, 33% 1996, 46% avg; 1% ripe, 2% 1996, 7% avg. Winter Rye 85% turning color, 93% 1996, 91% avg; 42% ripe, 13% 1996, 44% avg; 4% harvested, 0% 1996, 6% avg. Winter Rye 1% very poor, 14% poor, 35% fair, 44% good, 6% excellent. Alfalfa hay 4% very poor, 8% poor, 31% fair, 44% good, 13% excellent. Flax 5% poor, 40% fair, 41% good, 14% excellent. Oats 45% turning color, 45% 1996, 53% avg; 12% ripe, 18% 1996, 23% avg. Barley 58% turning color, 50% 1996, 54% avg. Corn 1% very poor, 5% poor, 18% fair, 53% good, 23% excellent. Soybeans 1% very poor, 7% poor, 23% fair, 53% good, 16% excellent. Range and Pasture 4% very poor, 4% poor, 20% fair, 56% good, 16% excellent. Sorghum 2% poor, 23% fair, 65% good, 10% excellent. Sunflowers 1% very poor, 7% poor, 23% fair, 50% good, 19% excellent. Sunflowers 4% blooming, 1% 1996, 4% avg. Flax 82% blooming, 57% 1996, 49% avg. Corn avg height 47 in., 48 in. 1996, 45 in. avg; 79% cultivated twice, 88% 1996, 72% avg; tasseled 8%, 3% 1996, 15% avg. Soybeans setting pods 7%, 4% 1996, 3% avg. Alfalfa hay cut twice 26%, 34% 1996, 28% avg. Other hay harvested 62%, 63% 1996, 50% avg. Livestock condition 1% poor, 11% fair, 63% good, 25% excellent. Stock water supplies 2% short, 82% adequate, 16% surplus.

**TENNESSEE:** Days suitable for fieldwork 6.0. Topsoil 8% very short, 36% short, 52% adequate, 4% surplus. Subsoil 1% very short, 27% short, 69% adequate, 3% surplus. Corn 5% poor, 22% fair, 54% good, 19% excellent; 87% tasseled, 94% 1996, 88% avg; 12% dough, 37% 1996, 31% avg. Tobacco 2% very poor, 17% poor, 43% fair, 34% good, 4% excellent; 18% topped, 22% 1996, 20% avg. Sorghum 1% poor, 31% fair, 60% good, 8% excellent; 19% headed, 30% 1996, 37% avg. Pasture 4% poor, 32% fair, 53% good, 11% excellent. Alfalfa hay 2% poor, 29% fair, 61% good, 8% excellent; 82% 2nd cutting, 84% 1996, 93% avg. Other hay 6% poor, 36% fair, 50% good, 8% excellent.

**TEXAS:** Most areas across the state experienced another open week, with hot and dry conditions throughout. The Plains received a few scattered showers and temperatures were in mid to upper 90's with night temperatures in the 70's. Crop progress good across the state, but most areas could use a good rain to help crops through the summer. The excess rain in the early spring caused some crops to have shallow roots. Irrigation operations were active during the week in the Plains. Haying activity continued. Growth on native grasses continued to be slowed by hot temperatures. Livestock conditions remained good in all areas. Small Grains: Harvest neared completion in Plains. Harvest in the North Central area was coming to a close also. Corn: Progress continued to be excellent in the Plains. The crop is looking good and maturing rapidly, in the South Central area where corn has begun drying down. Harvest is expected to be about one week away along the Upper Coast. 50% doughing, 60% 1996, 59% avg. 29% denting, 50% 1996, 47% avg. 6% mature, 22% 1996, 23% avg. Cotton: Irrigation was in full swing in many areas of the Plains, but the crop is in need of more heat units. Bolls continued to set in the Black land. Bolls are starting to open in the South Central area and continued opening in the Coastal Bend and along the Upper Coast. 2% open bolls, 9% 1996, 6% avg. Grain Sorghum: In the Plains the crop needs rain, but overall most fields look good. Heading in the Edwards Plateau area looks good. Fields were turning color under hot temperatures in Central and Southern areas. Harvest started in the South Central area with continued harvesting in the Coastal Bend, Rio Grande Valley and Upper Coast. 46% coloring, 51% 1996, 56% avg. 23% mature, 36% 1996, 39% avg. 4% harvested, 22% 1996, 24% avg. Peanuts: Fields in the Plains and North Central areas continued to make good progress. Most peanuts got off to a good start. Rice: Water use increased last week as hot weather prevails along the Upper Coast. Some fields were still fighting disease problems. Soybeans: The crop remained in good conditions during week. Early plantings in the South Central area are doing fine but later plantings are not as well. Dry soil has limited pod development along the Upper Coast. Most all areas with

soybeans need water. Sugar beets: Most fields continued make good progress.

**Commercial Vegetables:** Fruit and Pecans: Rio Grande Valley: land preparations continued with watermelon harvest still being harvested. San Antonio- Winter Garden: Area watermelon harvest virtually completed. High Plains: Most vegetables were still producing. East: Vegetables have exceeded there peak. Trans-Pecos: Cantaloup harvest continued last week. Upper Coast: Tomato crop ended. The second planting of peas and beans were going in. Peaches: Harvest continued in the North Central and Central areas. Pecans: Insect problems were found in the Black land and South Central area. Nut drop occurred in the Upper Coast but good nut setting continued in the Edwards Plateau area.

**Range and Livestock:** Haying operations were in full swing in the East after rain fell a week ago in some parts of the area. Haying was also active in the other areas of the State. The rest of the State saw limited growth as pastures remained dry with need for rain. Overall conditions were good to excellent. Livestock remained good across State.

**UTAH:** Days suitable for field work 6.9. Topsoil 2% very short, 36% short, 59% adequate, 3% surplus. Subsoil 1% very short, 37% short, 51% adequate, 11% surplus. Pasture, range condition 2% very poor, 7% poor, 27% fair, 58% good, 6% excellent. Irrigation water supplies 13% short, 81% adequate, 6% surplus. Stock water supply 2% very short, 13% short, 85% adequate. Barley harvested 15%, 15% 1996, 13% avg. Oats: heading or better 82%, 81% 1996, 83% avg.; harvest for hay or silage 59%, 41% 1996, 53% avg. Corn height 49 in., 52 in. 1996, 44 in. avg. Winter wheat harvested 12%, 32% 1996, 22% avg. Spring wheat harvested 7%, 9% 1996, 9% avg. Alfalfa hay 2nd cutting 30%, 49% 1996, 45% avg. Other hay cutting 73%, 58% 1996, 61% avg. Tart cherries picked 55%, 34% 1996. Activities: Hay cutting, irrigating, picking fruit, harvesting small grains.

**VIRGINIA:** Days suitable for fieldwork 6.1. Topsoil 35% very short, 45% short, 20% adequate. Subsoil 25% very short, 55% short, 20% adequate. Corn 38% silked, 44% 1996, 48% avg.; 2% dough, 17% 1996, 13% avg.; 15% very poor, 35% poor, 40% fair, 10% good. Soybeans 96% planted, 97% 1996, 99% avg.; 5% very poor, 25% poor, 45% fair, 25% good. Cotton 7% very poor, 25% poor, 40% fair, 28% good. Winter wheat 96% harvested, 93% 1996, 94% avg. Barley 99% harvested, 98% 1996, 99% avg. Apples 5% very poor, 5% poor, 40% fair, 47% good, 3% excellent. Peaches 20% very poor, 20% poor, 35% fair, 25% good. Flue tobacco 3% very poor, 10% poor, 46% fair, 40% good, 1% excellent. Burley tobacco 1% very poor, 16% poor, 48% fair, 30% good, 5% excellent. Dark fire cured tobacco 2% very poor, 10% poor, 50% fair, 38% good. Sun cured tobacco 25% poor, 45% fair, 30% good. Peanuts pegged 47%, 77% 1996; 1% poor, 49% fair, 45% good, 5% excellent. Summer potatoes harvested 60%, 44% 1996, 51% avg; 40% poor, 30% fair, 30% good. Pasture 15% very poor, 35% poor, 40% fair, 10% good. Alfalfa 5% very poor, 25% poor, 50% fair, 20% good. Other Hay 10% very poor, 40% poor, 40% fair, 10% good. The amount of rainfall varied widely with some localities receiving no rain and others receiving several inches. Southwestern Virginia is currently under a moderate risk of blue mold development in burley tobacco. Although, weather had been mostly hot and dry, recent heavy morning fog and scattered thunderstorms have aided in the spread of blue mold. Short pasture supplies forced beef producers to continue feeding hay. Some beef producers have been marketing cattle earlier than normal due to short supplies of both pastures and hay, coupled with good cattle prices. In the driest localities, livestock producers are faced with water shortages. Activities: Vegetable irrigation, harvesting, tobacco topping, irrigation, harvesting hay.

**WASHINGTON:** Days suitable for fieldwork 6.5. Topsoil 12% short, 87% adequate, 1% surplus; subsoil 12% short, and 88% adequate. Winter wheat dryland 5% fair, 68% good, 27% excellent; irrigated 83% good, and 17% excellent. Spring wheat, dryland 4% fair, 64% good and 32% excellent; irrigated 90% good and 10% excellent. Barley dryland, 5% fair, 80% good and 15% excellent; irrigated 99% good and 1% excellent. Winter wheat 2% harvested, 3% 1996, 10% avg. Wheat harvest began in some areas, it should

be in full swing by the end of the week. Eastern Washington reported that above average yields are expected for both winter and spring wheat. Corn 100% good. Potatoes, 100% good. Potatoes 5% harvested, 5% 1996, 5% avg. Hay and other roughage supplies, 2% short, 95% adequate, and 3% surplus. The first cutting of grass hay was completed in central Washington and the second cutting of alfalfa continued. Range and pasture, 10% poor, 15% fair, 72% good and 3% excellent. Pasture conditions continued to look good in most areas. Raspberry and apricot harvest continued. Sweet cherry harvest was nearly complete with the remainder of the harvest continuing at a slower pace, mostly at higher elevations. Hand thinning of apples was almost complete. Pears continue to develop well with harvest likely to start on schedule, around mid to late August. Fruit growers contended with the first warm days of the summer and irrigation was the primary activity. Vegetable harvest progressed well. Green pea harvest neared completion in some areas and sweet corn harvest was either underway or expected to be underway soon. Fresh market potatoes, carrots and onions were harvested.

**WEST VIRGINIA:** Days suitable for fieldwork 6.0. Topsoil 13% very short, 60% short, 27% adequate. Corn 3% very poor, 15% poor, 45% fair, 36% good, 1% excellent; 11% sicking, 31% 1996, 31% avg; 1% dough stage, 2% 1996. Hay 2% very poor, 10% poor, 35% fair, 50% good, 3% excellent; 1st. cutting of hay 95%, 92% 1996, 95% avg; 2nd cutting 20%, 17% 1996, 27% avg. Oats 7% poor, 43% fair, 50% good; 100% headed, 98% 1996; 15% harvested, 36% 1996. Soybeans 1% very poor, 3% poor, 51% fair, 45% good; 50% blooming, 48% 1996, 43% avg; 1% setting pods, 13% 1996. Tobacco 12% poor, 43% fair, 45% good; 1% topped, 1% 1996. Wheat 1% poor, 50% fair, 49% good; 90% harvested, 69% 1996, 68% avg. Dry and open conditions allowed producers to make good progress harvesting wheat. Apple condition 60% fair, 32% good, 8% excellent. Peach condition 15% poor, 85% fair. Cattle 18% fair, 74% good, 8% excellent. Sheep 7% poor, 17% fair, 73% good, 3% excellent. Activities: Making hay, harvesting wheat oats, marketing livestock and general maintenance.

**WISCONSIN:** Days suitable for fieldwork: 5.4. Soil moisture: 14% short, 78% adequate, and 8% surplus. Soybeans were reported at 14% bloomed, compared to 4% last year. However, a reporter in Lincoln County noted that they are short due to lack of moisture. Soybean conditions were rated 3% poor, 14% fair, 54% good, and 29% excellent. As of July 20, corn height averaged 63 inches, a foot over the 5-year average. Heavy rains throughout the state did some crop damage. A reporter in Marathon County stated that some hail fell in the county, and a reporter in Waushara County spoke of wind damage lodging some of the oats. Second crop hay continues to be harvested, with the state at 35% harvested already, 10 points over the 5-year average. Reporters in Price and Ashland counties noted that it was difficult to harvest with the humidity and moisture. Pasture feed conditions fell from last week with ratings of 1% very poor, 7% poor, 30% fair, 55% good, and 7% excellent.

**WYOMING:** Days suitable for fieldwork 6.3. Topsoil moisture supplies 1% very short, 54% short, 45% adequate. Subsoil moisture supplies 50% short, 50% adequate. Winter wheat 88% mature, 66% 1996, 51% avg; 9% harvested, 8% 1996, 13% avg; condition 10% fair, 89% good, 1% excellent. Barley 77% turning color, 66% 1996, 58% avg; 9% mature, 11% 1996, 14% avg; 0% harvested, 0% 1996, 1% avg; condition 29% fair, 71% good. Oats 87% headed, 92% 1996, 82% avg; 39% turning color, 41% 1996, 33% avg; 7% mature, 14% 1996, 8% avg; 0% harvested, 2% 1996, 2% avg; condition 5% fair, 94% good, 1% excellent. Spring wheat 96% headed, 75% 1996, 81% avg; 57% turning color, 42% 1996, 40% avg; 12% mature, 12% 1996, 8% avg; condition 2% poor, 17% fair, 81% good. Corn 4% tasseled, 18% 1996, 18% avg; average height in inches 44, 41 in. 1996; condition 4% fair, 92% good, 4% excellent. Sugarbeet condition 1% poor, 2% fair, 81% good, 16% excellent. Dry beans 41% bloom, 43% 1996, 41% avg; condition 1% fair, 84% good, 15% excellent. Alfalfa 90% first cutting complete, 87% 1996, 85% avg; 1% second cutting complete, 7% 1996, 6% avg. Other hay acreage harvested 49% complete, 50% 1996, 48% avg. Range and pasture condition 2% poor, 18% fair, 73% good, 7% excellent.

# International Weather and Crop Summary

July 13 - 19, 1997

## HIGHLIGHTS

**FSU-WESTERN:** Widespread showers kept spring-sown crops well watered but hampered winter grain harvests.

**FSU-NEW LANDS:** Cool, rainy weather slowed crop development.

**EUROPE:** Heavy rain caused additional flooding in central and eastern Europe.

**MEXICO:** Mostly seasonable showers continued across the corn belt, but dryness is developing across northeastern and northwestern Mexico.

**EASTERN ASIA:** Showers eased dryness across the North China Plain, while excessive showers continued in the extreme south. Rain is needed in North Korea.

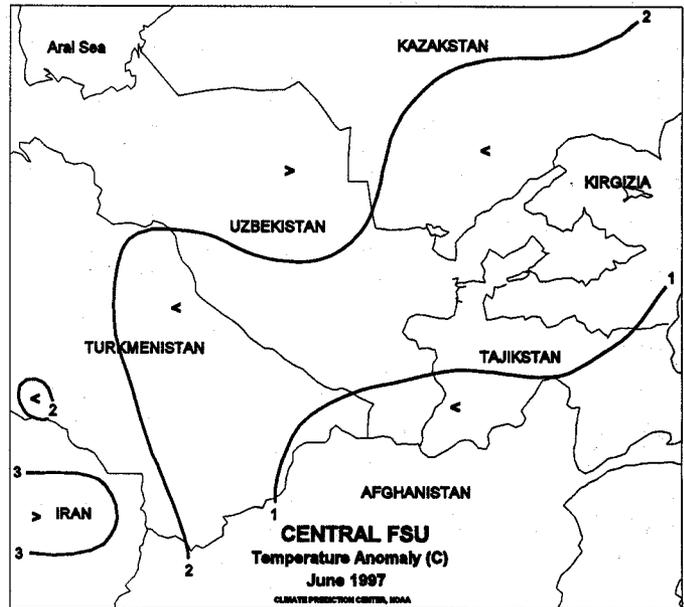
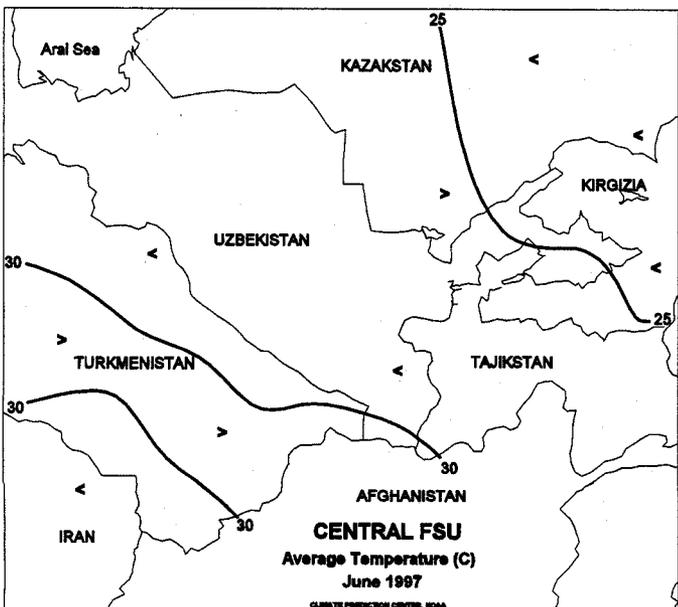
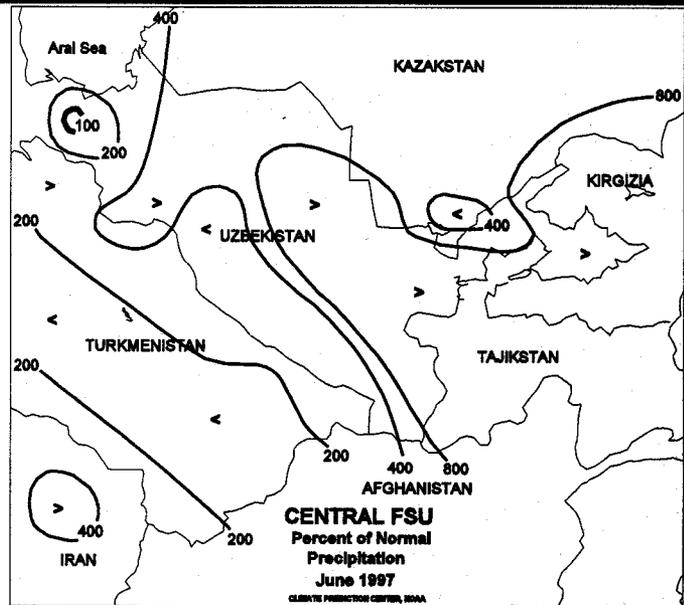
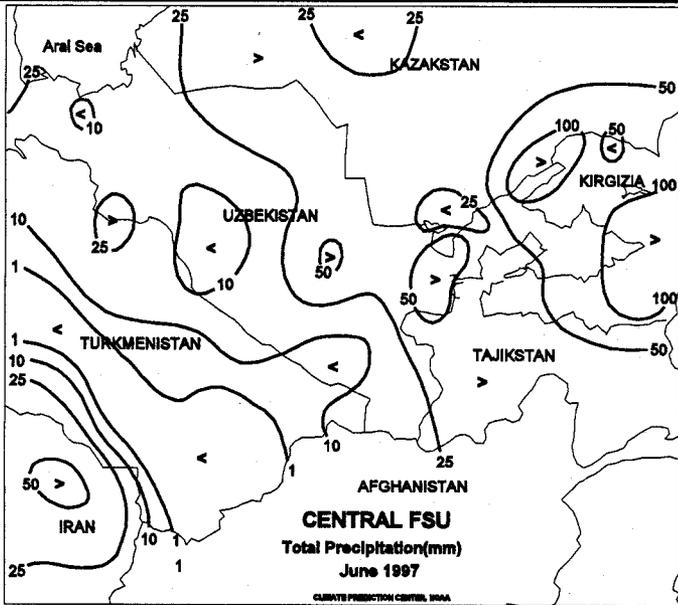
**SOUTHEAST ASIA:** Widespread showers benefited grains and sugarcane across Thailand and the Philippines.

**SOUTH ASIA:** Flooding plagued eastern rice areas as unfavorable dryness broadened in the west and south.

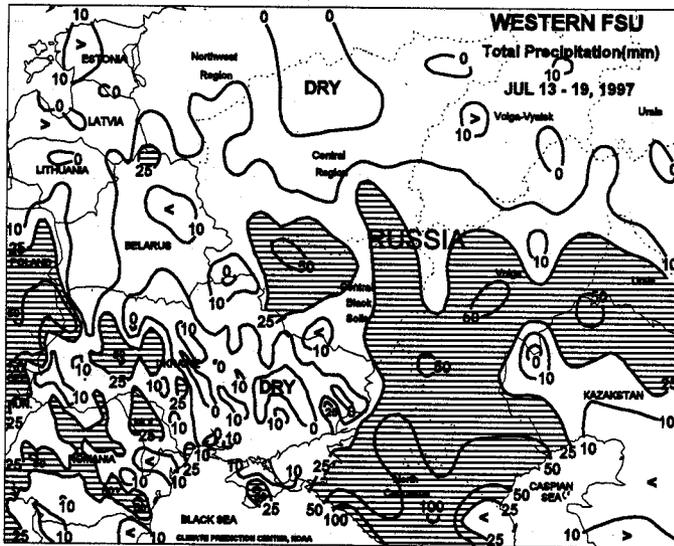
**SOUTH AMERICA:** Early-week rain covered the wheat areas of central Argentina and rain continued to favor wheat in southern Brazil.

**AUSTRALIA:** Light showers fell across the western and southeastern winter grain belts.

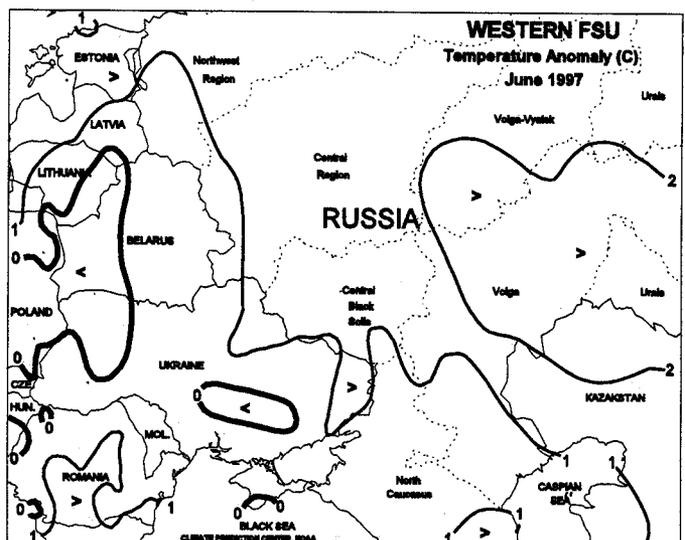
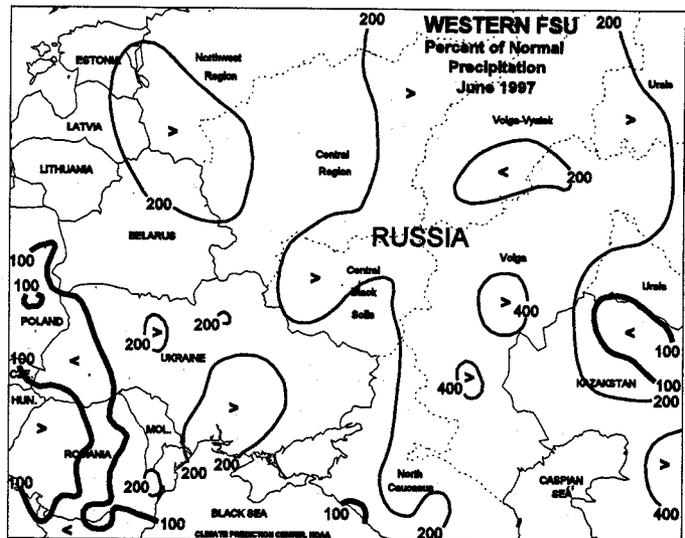
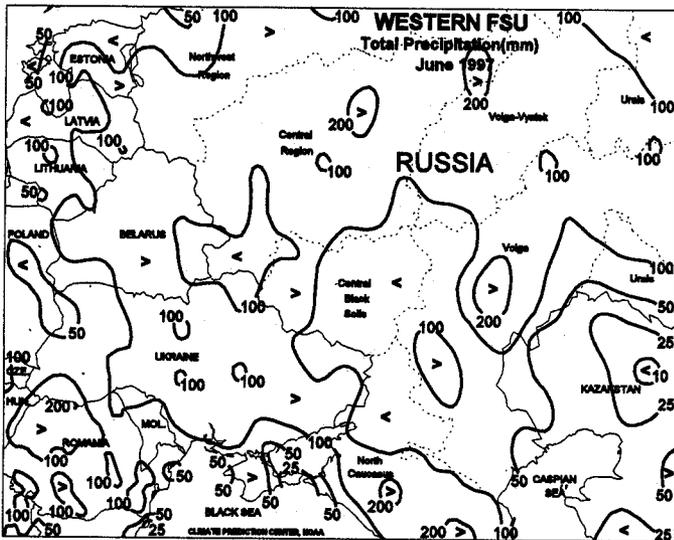
**CANADA:** Scattered showers brought some relief to reproductive grains and oilseeds in the southern Prairies.

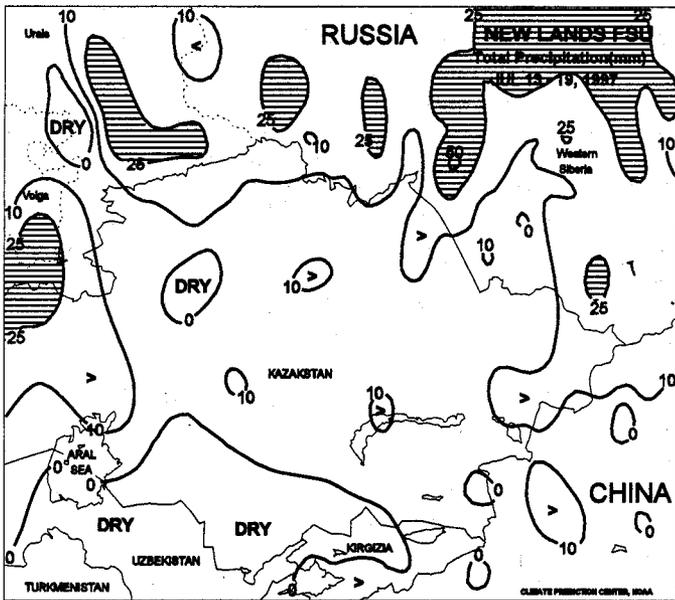


**FSU-WESTERN**



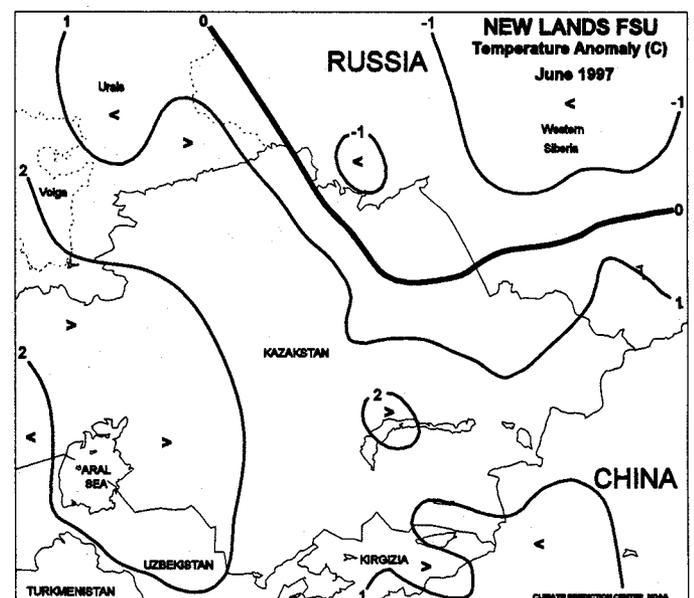
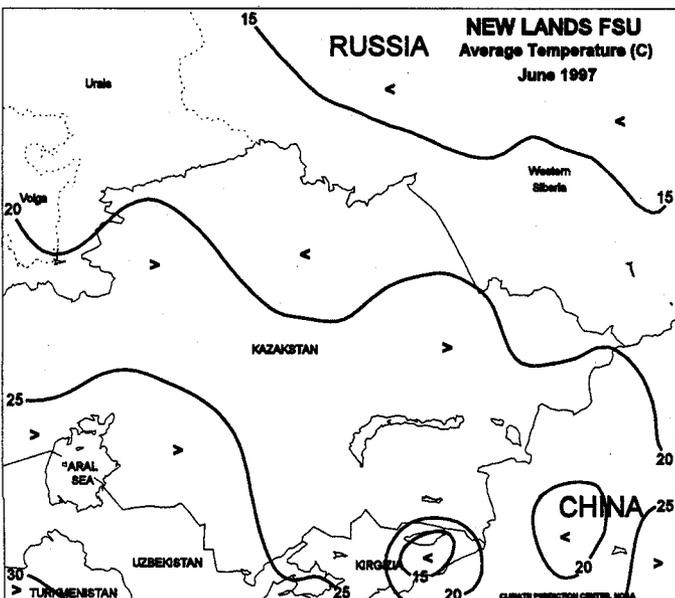
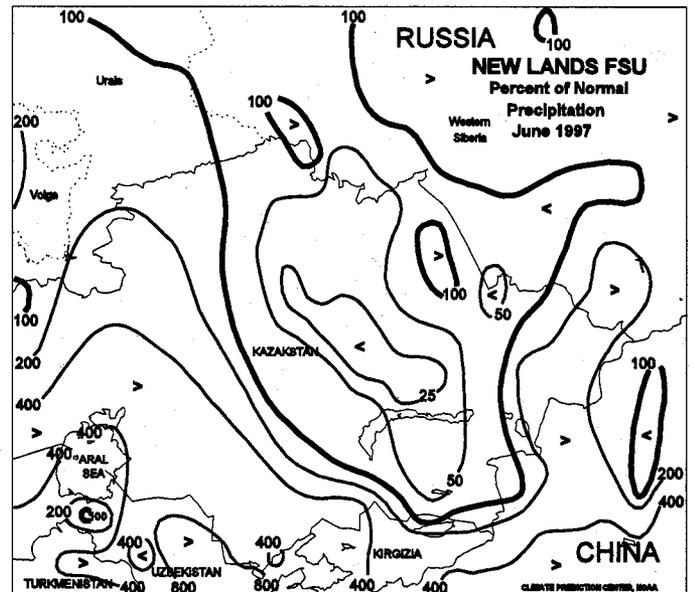
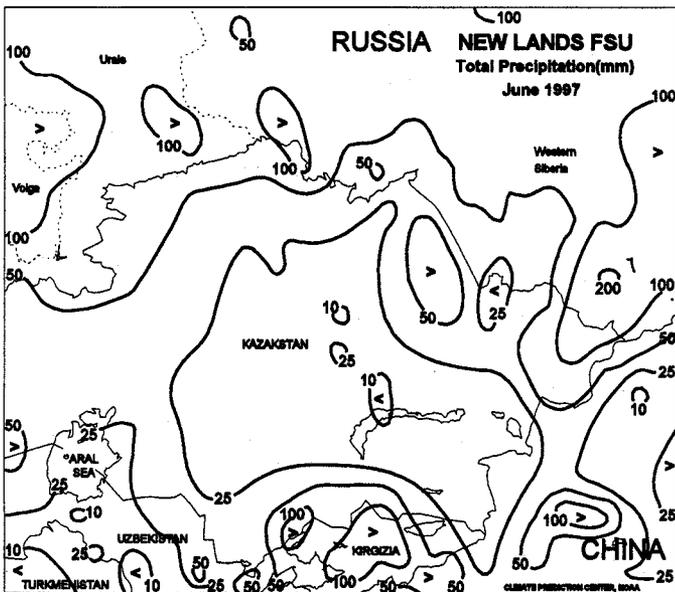
Widespread showers (10-25 mm or more, exceeding 50 mm locally) and below-normal temperatures continued across most primary agricultural areas. The exception remained crop areas across the Baltic countries and northern Russia, where rainfall totaled less than 10 mm. Farther south, the moderate to heavy rain maintained abundant moisture for spring-sown crops but slowed winter grain maturation and harvest. Heavy showers (50 mm or greater) may have lodged crops in North Caucasus and southern Volga. Above-normal precipitation and mild weather in June benefited crops in Russia, most of Ukraine, Belarus, and the Baltics. In June, winter grains were filling in Ukraine, Moldova, and southern Russia (southern portion of the central Black Soils Region, lower Volga Valley, and North Caucasus), while farther north, crops advanced through reproduction in northern Russia (Northwest Region, Central Region, Volga Vyatsk and the middle and upper Volga Valley), Belarus, and the Baltics. Spring grains likely advanced through reproduction in Ukraine and southern Russia and by month's end approached the heading stage in areas farther north. Corn, sunflowers, and sugar beets were in the vegetative state. Although temperatures in June averaged near normal in Ukraine, southern Russia, Belarus, and the Baltics, there was a period of unseasonably warm weather from June 9 to 11 when temperatures were 3 to 6 degrees C above normal. Highest temperatures (32-35 degrees C) occurred in the Volga Valley, where soil moisture was adequate to ensure normal crop development.

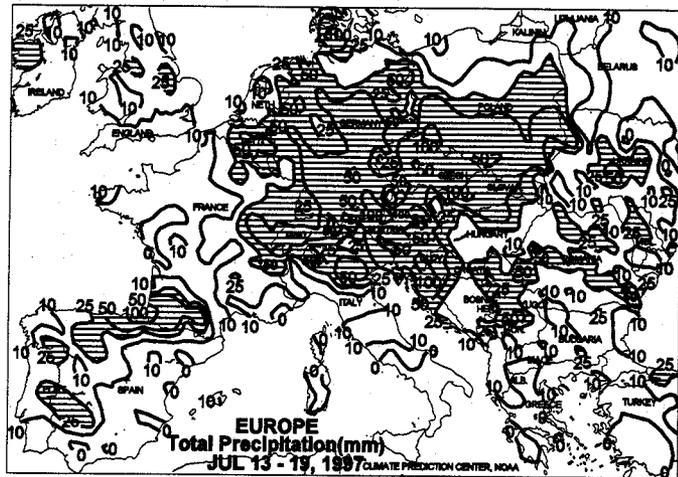




**FSU-NEW LANDS**

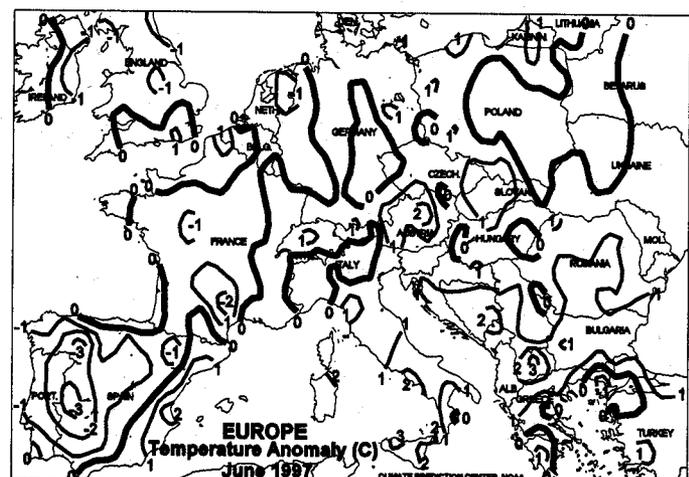
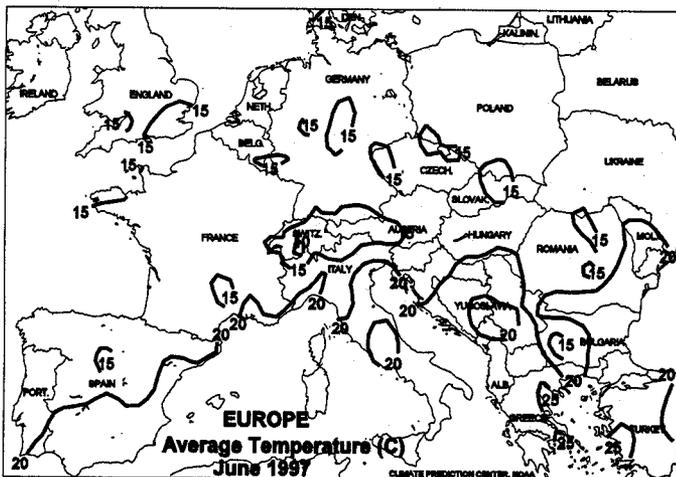
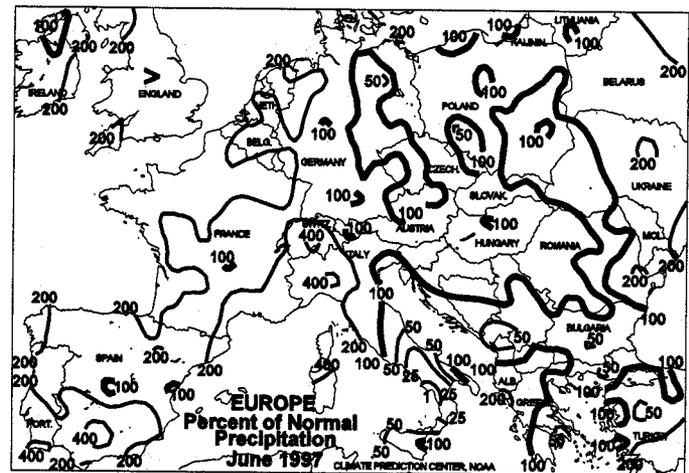
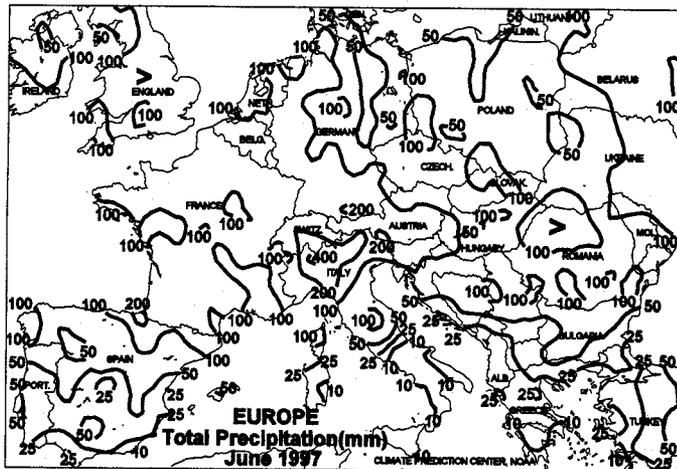
Cool, showery weather continued across the region. Rainfall totaled 10 to 25 mm or more in most crop areas of the Urals and Western Siberia, as well as a few northern locations in Kazakstan. Although slowing development, conditions were overall favorable for spring grains in or nearing reproduction as well as immature winter grains. Near- to above-normal precipitation in June in most of Russia maintained favorable moisture for spring grains in the vegetative stage. The exception was in the Altay Kray region in Western Siberia where below-normal precipitation and periodic hot weather lowered soil moisture. In Kazakstan, above-normal precipitation favored spring grains in primary growing areas in the north-central portion of the country. However, below-normal precipitation and periodic heat prevailed over western and eastern areas, increasing stress on crops in the vegetative stage.



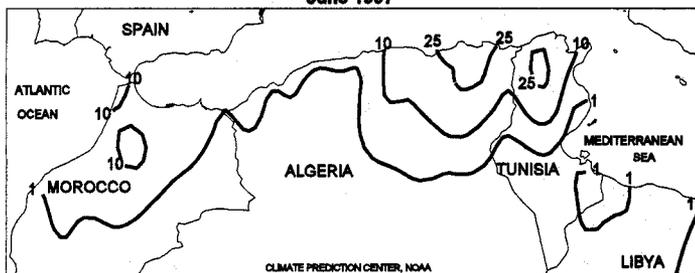


**EUROPE**

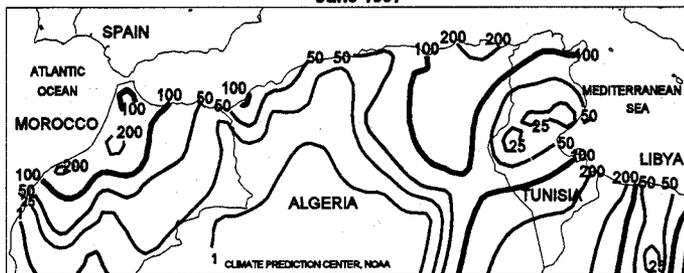
Moderate to heavy rain (25-50 mm or more) covered a broad area of central and eastern Europe. Like last week, the heaviest rain (50-100 mm) was concentrated over Austria and the Czech Republic, exacerbating flooding and increasing the potential for lodging from southern Germany to southern Poland. Scattered showers (5-25 mm) over England and France slowed winter grain maturation and harvesting. In June, rainfall was near to above normal over all but southeastern Europe from southern Italy to Bulgaria. The moisture occurred with some frequency, keeping most crop areas favorably wet for reproductive to filling winter grains and vegetative to filling spring grains. By month's end, however, sections of central Europe, notably southern Germany and northern Italy, had become excessively wet and may have experienced some damage to maturing winter grains. June temperatures were near to below normal in western Europe and near to above normal in the east. Periodic heat in the southeast benefited Greek cotton but increased irrigation requirements.



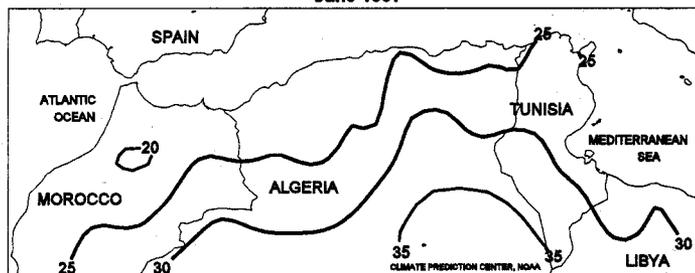
**NORTHWEST AFRICA Total Precipitation (mm)**  
June 1997



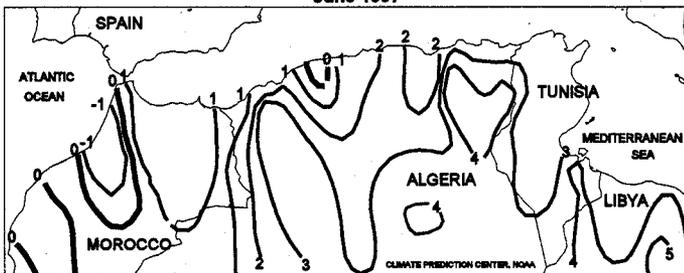
**NORTHWEST AFRICA Percent of Normal Precipitation**  
June 1997



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

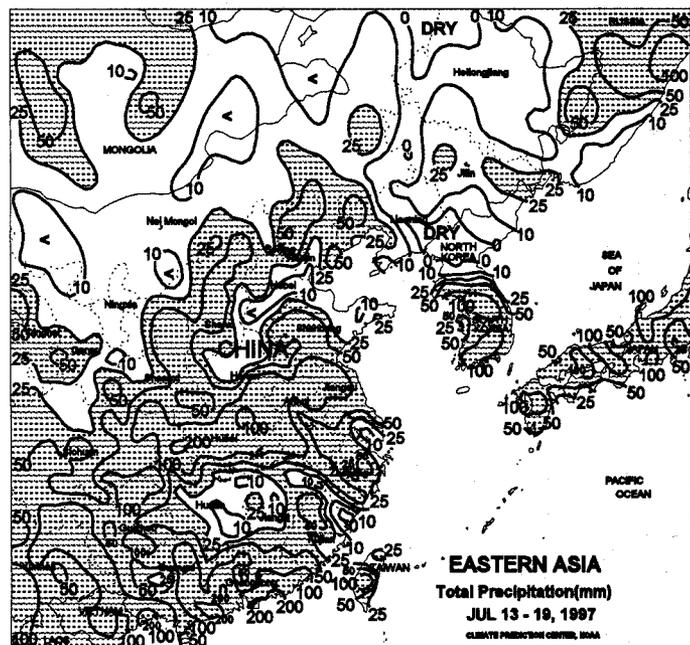


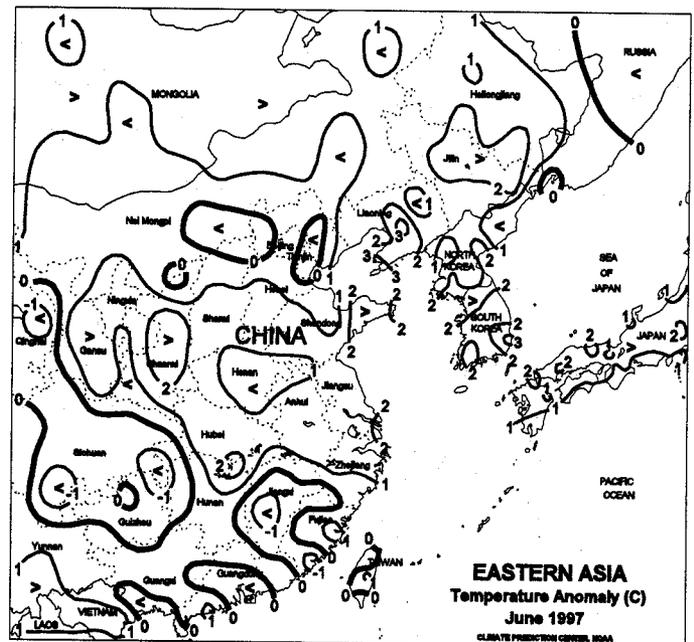
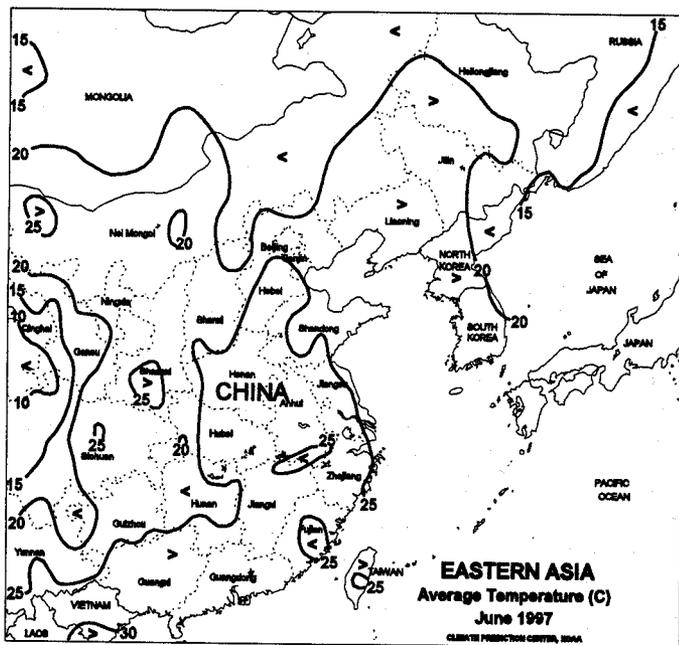
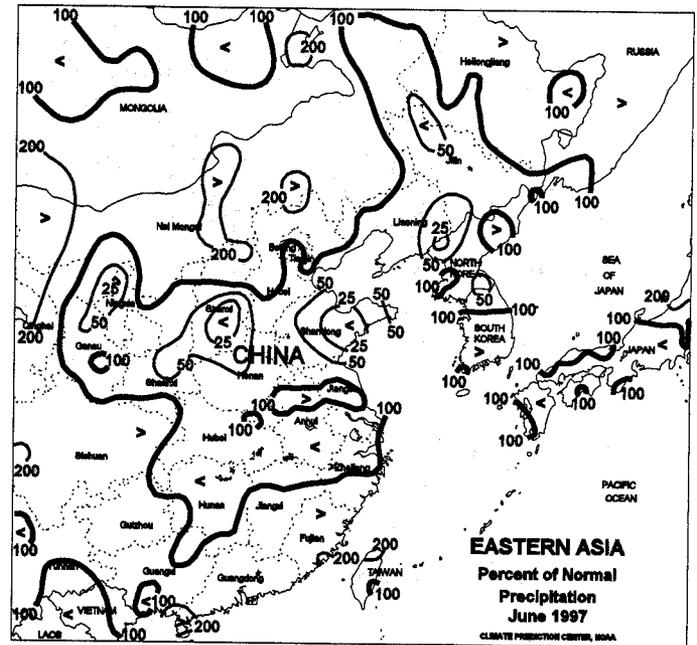
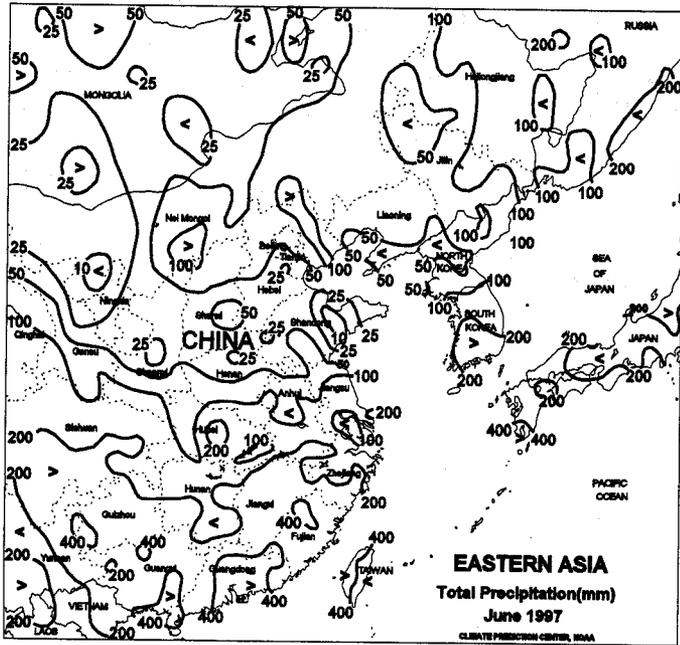
**NORTHWEST AFRICA Temperature Anomaly (C)**  
June 1997

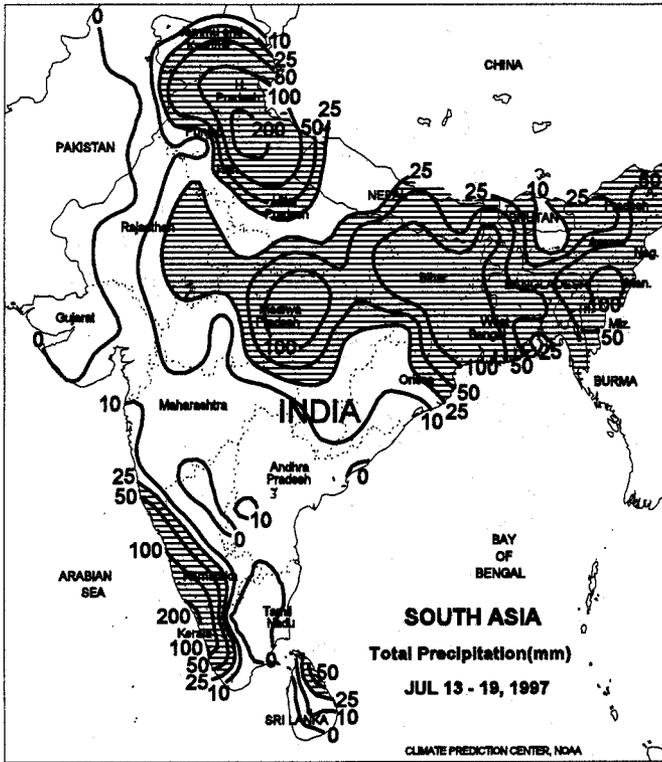


**EASTERN ASIA**

Widespread late-week showers (10-70 mm) brought much needed relief to reproductive corn, soybeans, and cotton across the North China Plain. The moisture was especially welcome since warm, dry weather earlier in the week stressed summer crops. Heavier showers (100-190 mm) possibly caused flooding across Hubei and northern Anhui and Jiangsu. Light to moderate rain (5-40 mm) fell across Manchuria, but more rain is needed to eliminate developing short-term moisture deficits. Somewhat drier weather (10-50 mm) prevailed across southeastern China, helping to ease flooding from last week's torrential rainfall. Guangdong, however, continued to receive excessive rainfall (100-200 mm), exacerbating previous flooding, delaying late-double rice transplanting, and possibly damaging coastal sugarcane. Temperatures averaged 2 to 3 degrees C above normal across the North China Plain and Manchuria and slightly below normal elsewhere in China. Dryness continued to stress reproductive summer crops across northern North Korea. Moderate to heavy showers (25-150 mm) covered southern North Korea and all of South Korea. Rain (20-100 mm) blanketed Japan, keeping rice irrigation supplies high. During June, rainfall averaged less than 75 percent of normal across most of the North China Plain and western Jilin. Near- to above-normal June rainfall prevailed elsewhere in China and in South Korea and Japan. Portions of North Korea experienced below normal monthly rainfall.

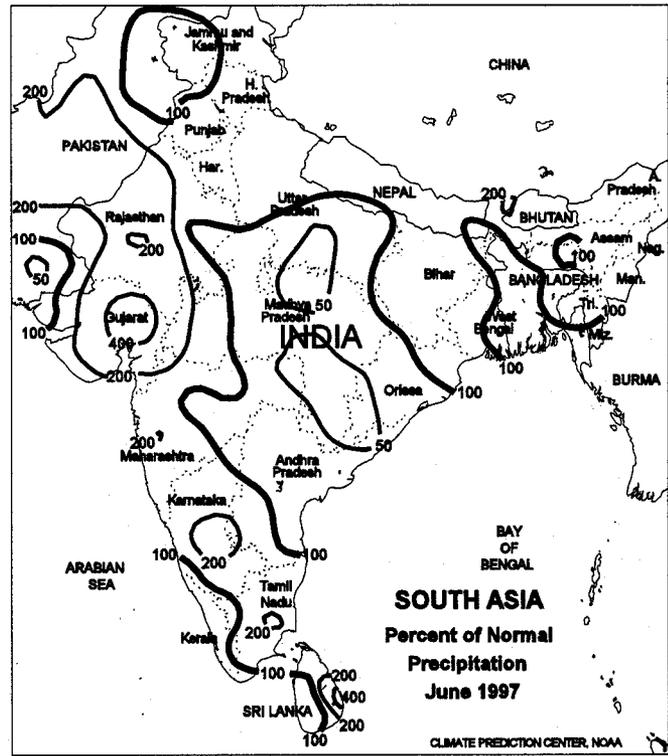
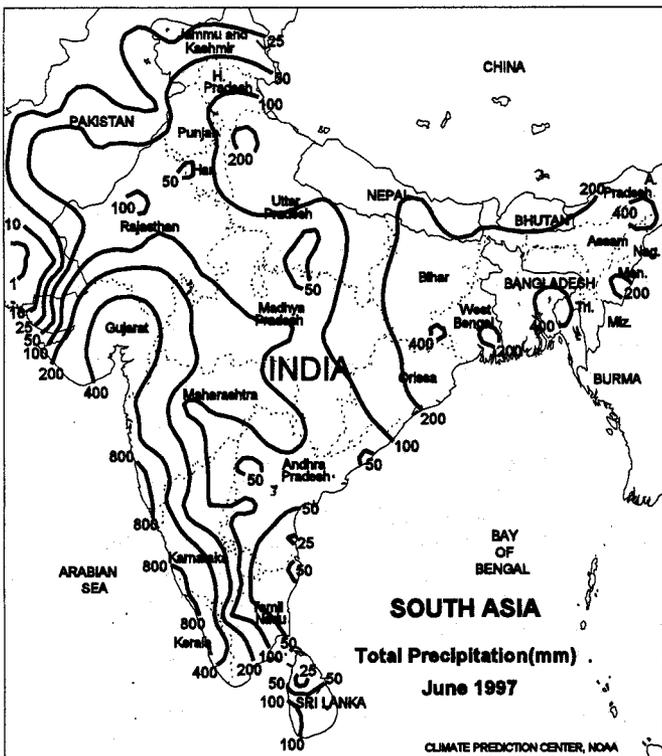


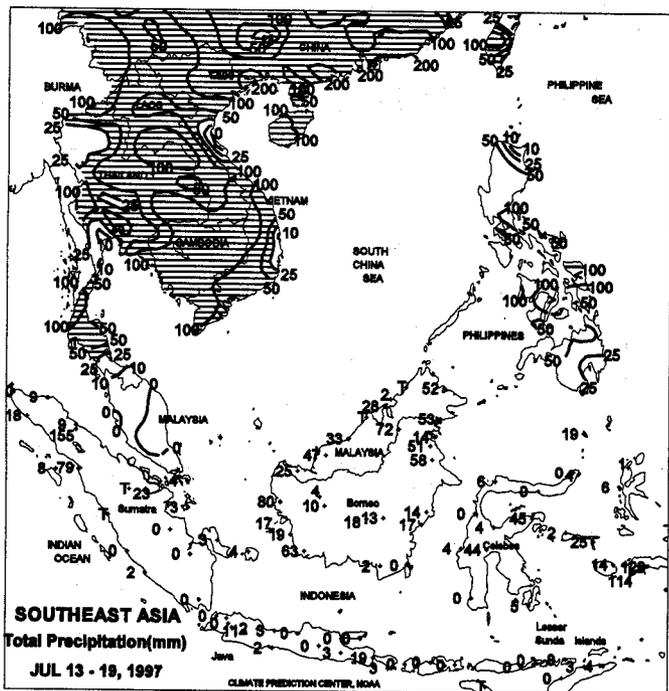
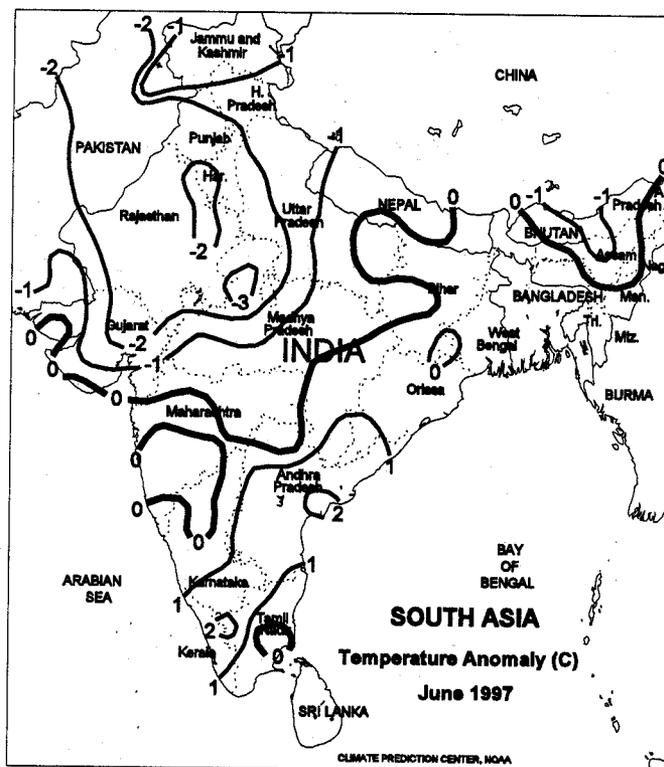
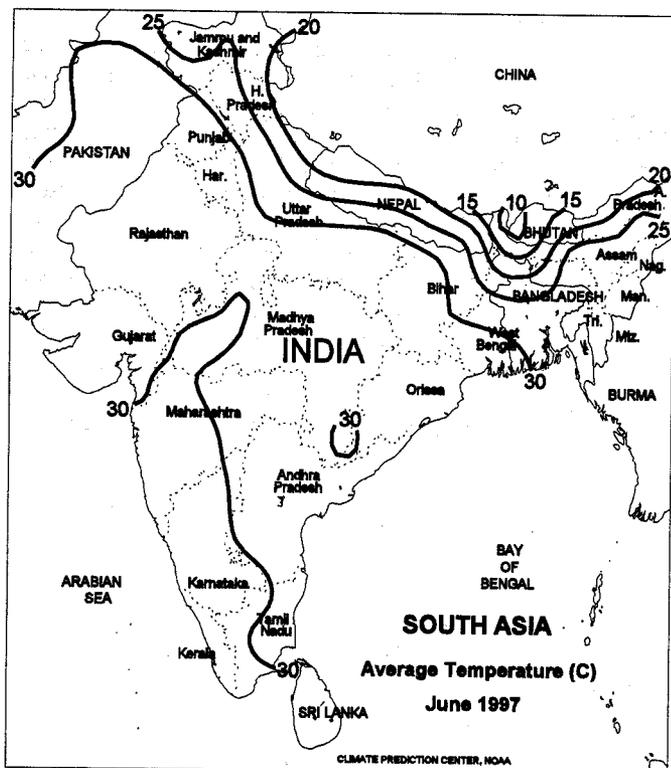




**SOUTH ASIA**

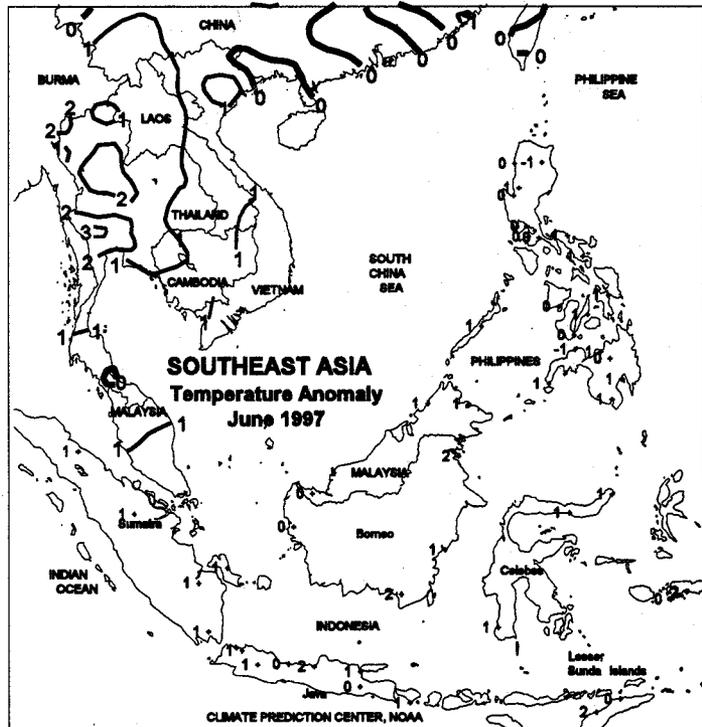
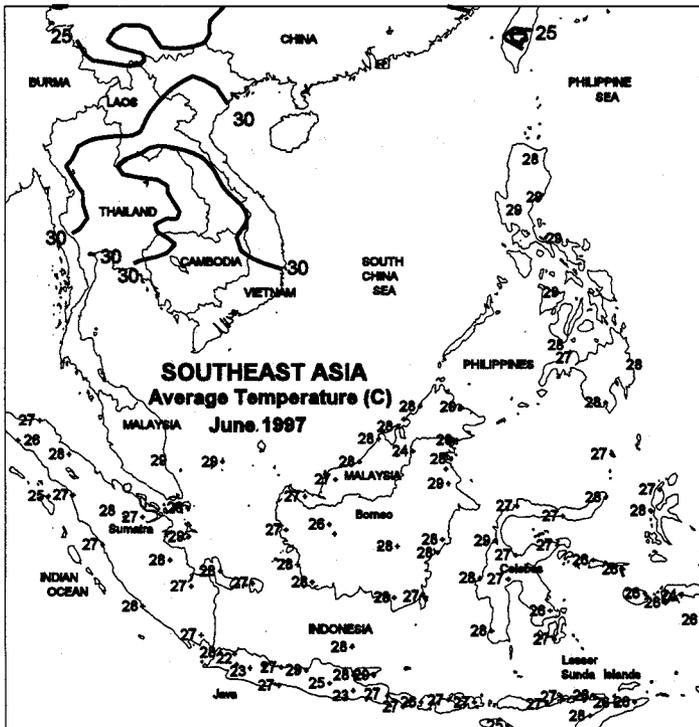
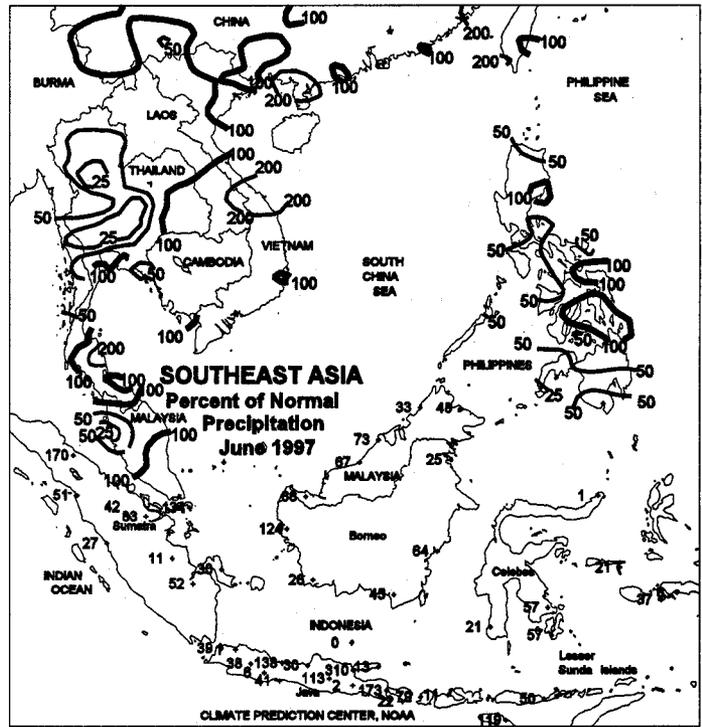
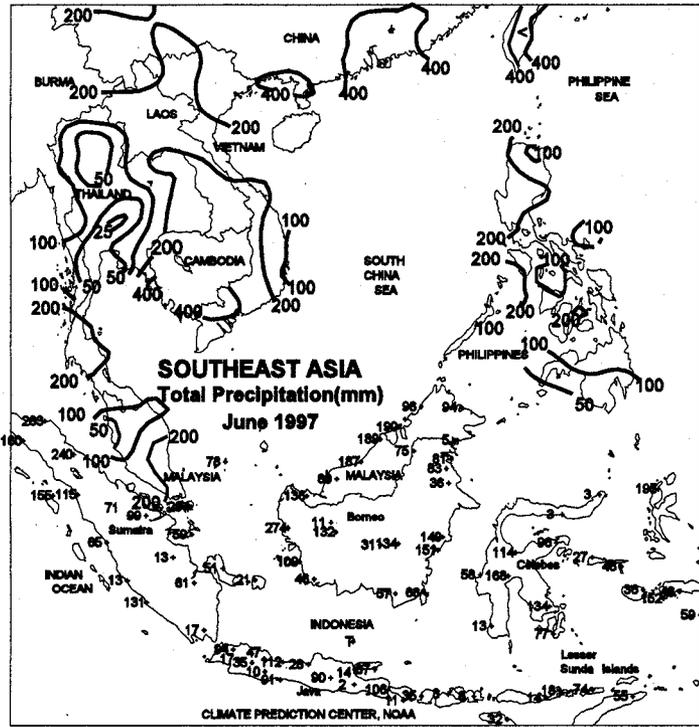
Mostly dry, warm weather dominated central and western India. Gujarat, an important groundnut and cotton producer, has had only one significant rain event this season and needs moisture soon to prevent declines in yield potential. Rainfall has also been sporadic in recent weeks in sections of southern India, including important coarse grain, oilseed, cotton, and rice areas. In contrast, moderate to heavy showers (50-100 mm or more) continued over important eastern rice areas, worsening flooding. In the far north, Pakistan remained dry but showers (5-55 mm) reached northernmost India. In June, the monsoon arrived late and was erratic for the first few weeks. Despite the initial poor start, the monsoon gradually strengthened and brought highly beneficial planting rains to most crop areas by July. Planting activities are advancing northward, mirroring the progress of the monsoon.

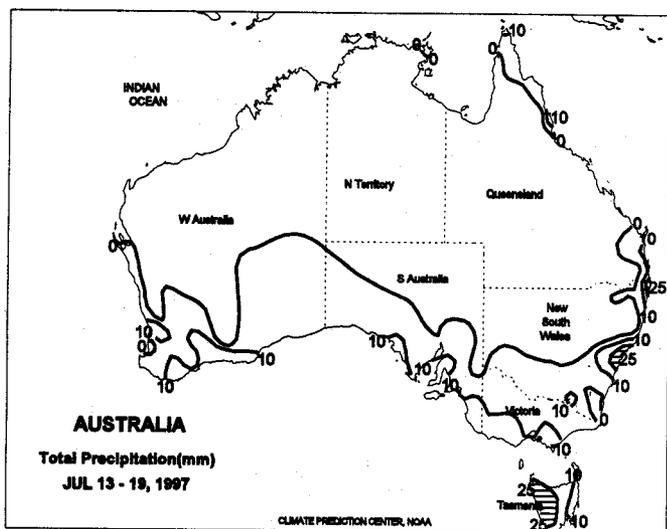




**SOUTHEAST ASIA**

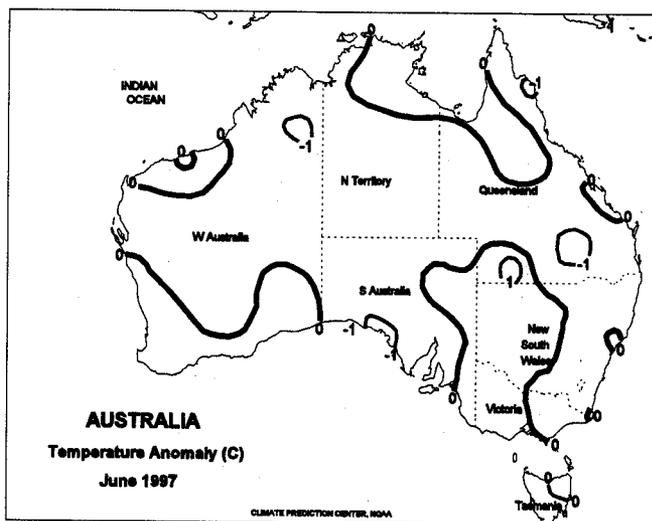
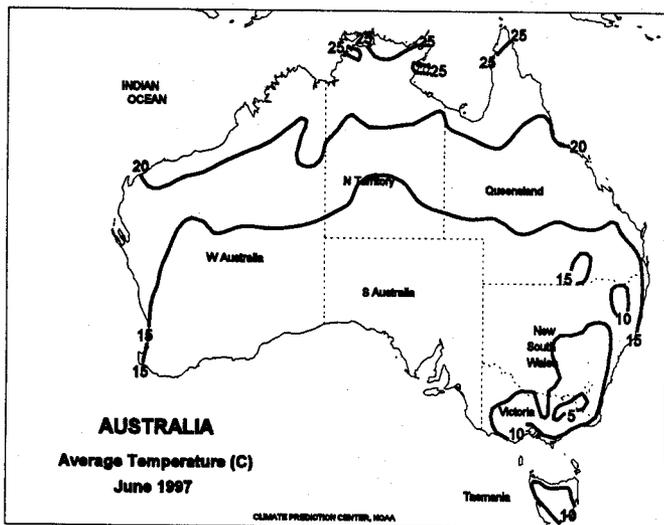
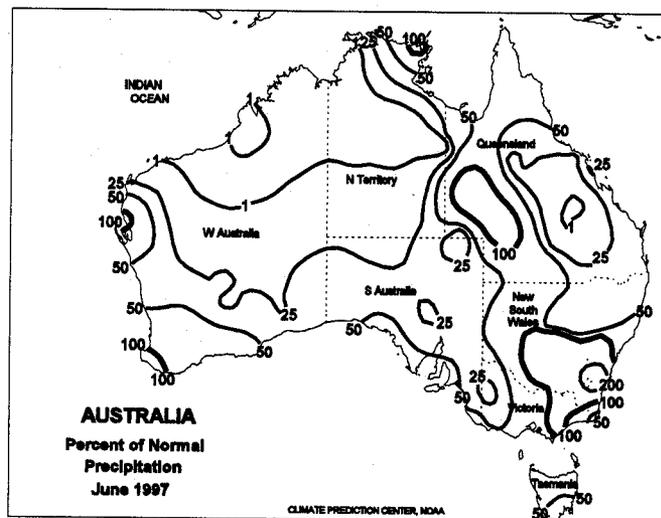
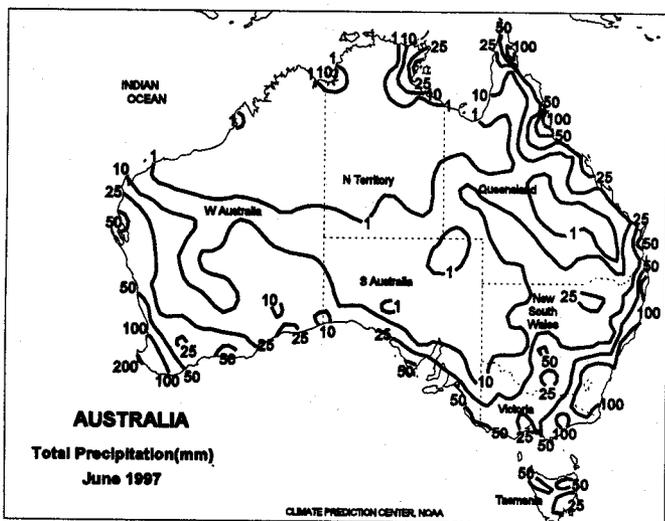
Widespread showers (20-80 mm) finally covered central Thailand, easing stress on rainfed corn and rice and boosting irrigation supplies. Heavy showers (80-160 mm) fell across eastern Thailand, maintaining favorable moisture supplies for rice. Seasonable showers (30-100 mm) favored rice, corn, and sugarcane across Vietnam and the Philippines. Dry weather returned to peninsular Malaysia, reducing moisture for oil palm. In Indonesia, dry weather also reduced moisture for second-season crops across southern Sumatra and western Java. Scattered showers (1-11 mm) prevailed elsewhere across Java. During June, rainfall averaged 15 to 50 percent of normal across central Thailand, stressing rainfed crops. Near- to above-normal June rainfall favored rice in eastern Thailand and across Vietnam. Scattered near- to above-normal rainfall increased irrigation supplies for second-season crops in central and eastern Java. Below-normal June rainfall, however, reduced moisture supplies in western Java and southern Sumatra. June rainfall averaged near to below normal across most of the Philippines. Below normal June rainfall reduced moisture for oil palm across northern peninsular Malaysia, but near- to above-normal rainfall prevailed across the southern portions of the peninsula.



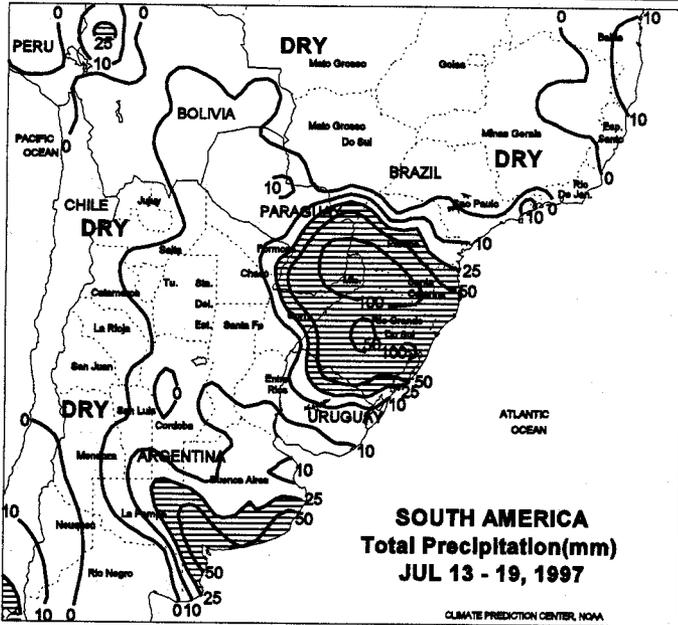


**AUSTRALIA**

Light showers (2-18 mm) dampened topsoils in primary winter grain areas of the west and southeast. The rain, heaviest of which fell closest to the coast, was too light to significantly improve the moisture situation in northernmost crop areas of South Australia and Victoria. Dryness also dominated New South Wales and Queensland. A drying trend during June throughout the east reduced moisture for early development. Temperatures averaged below normal across the main winter grain belts, with frost and freezing temperatures keeping development in check. Australia's winter wheat is currently in a semi-dormant state, with very low moisture demands. However, winter is one of the wettest times of the year in the southeast, with moisture accumulating now going towards spring development. That makes the timing of the current drought especially troublesome. In contrast, Western Australia's winter grains are in fine shape, bolstered by near-to above-normal rainfall in June and early July.

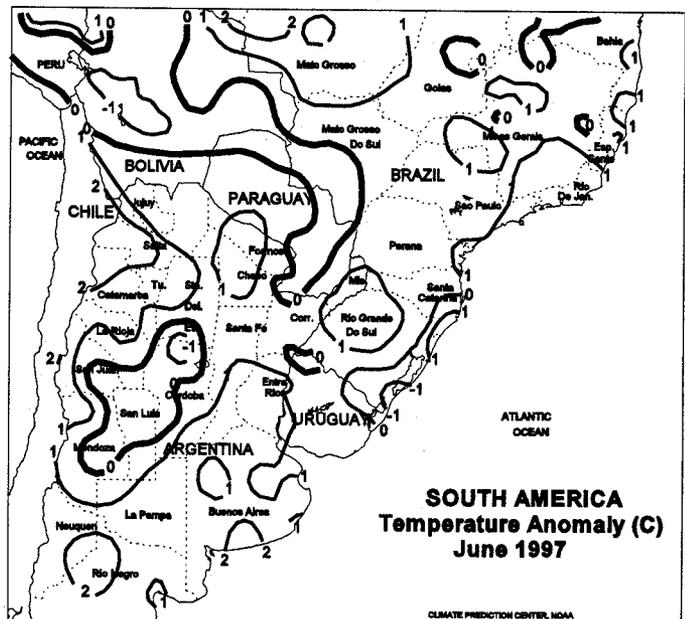
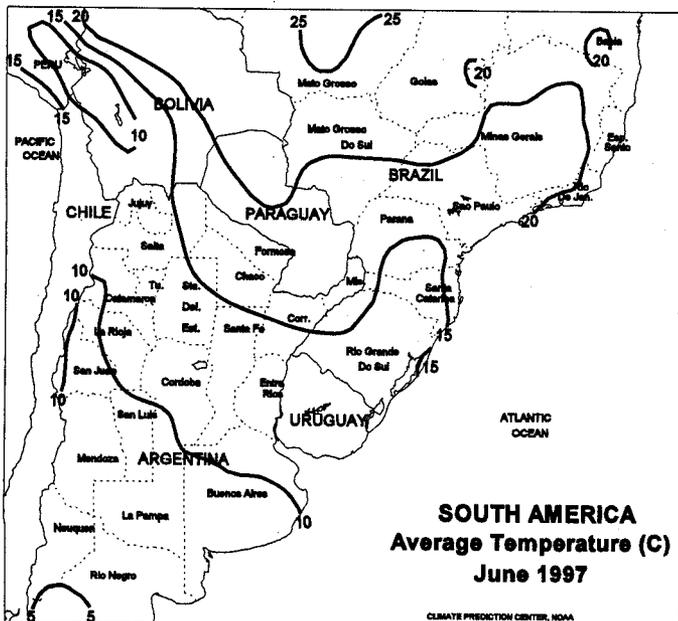
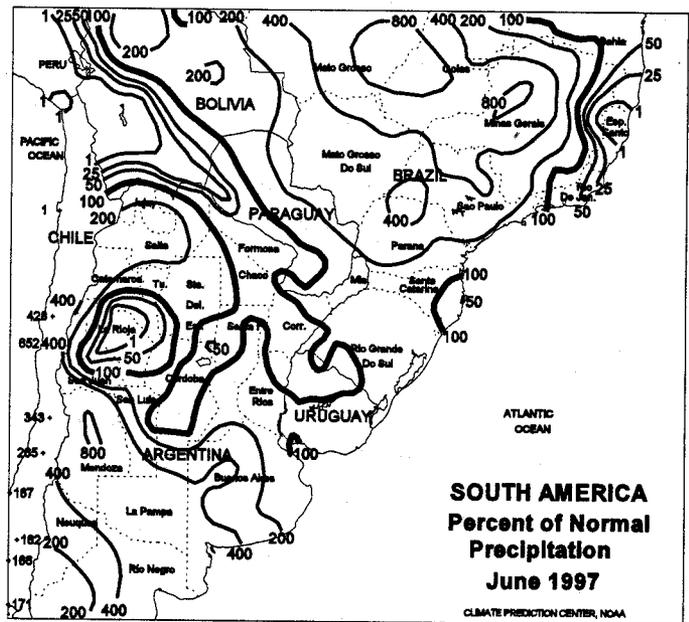
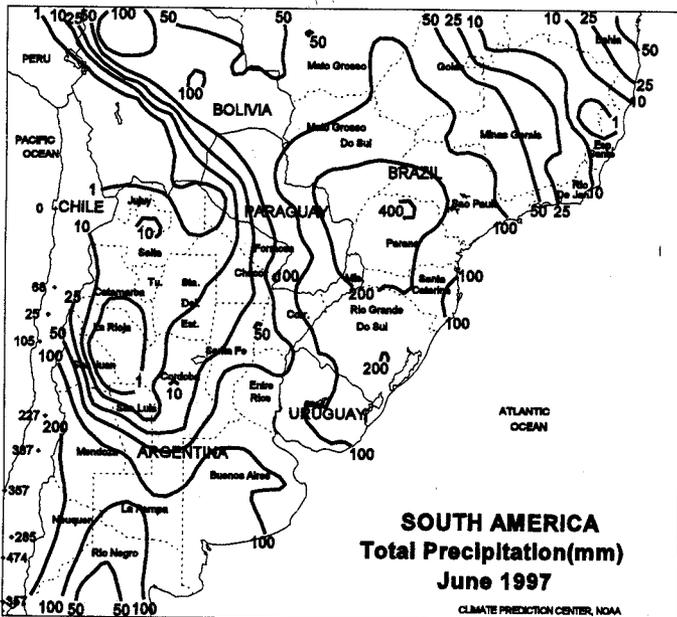


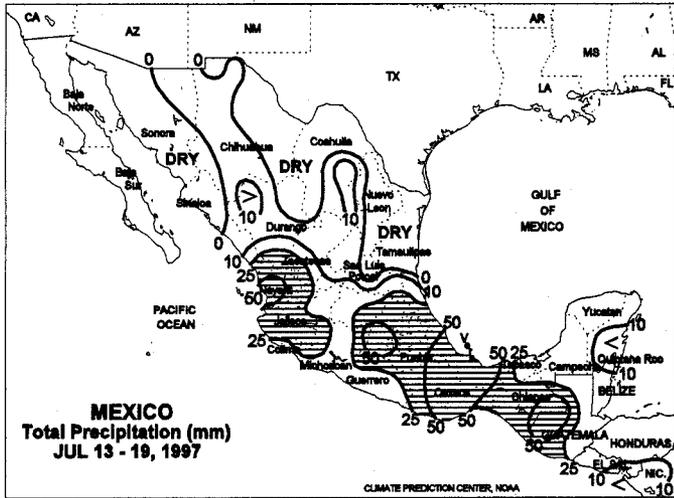




**SOUTH AMERICA**

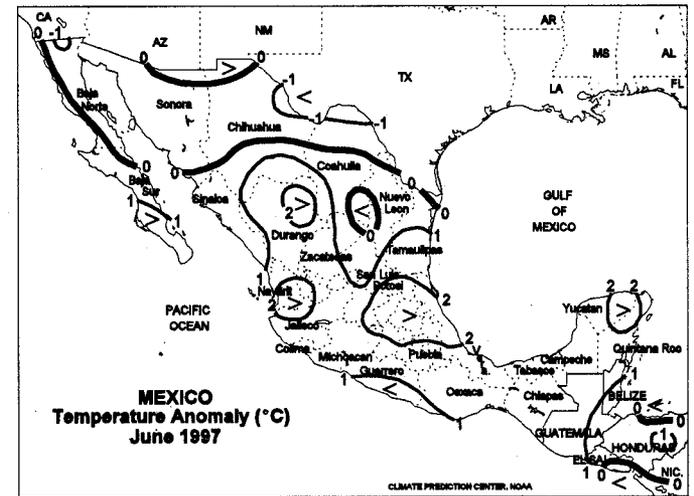
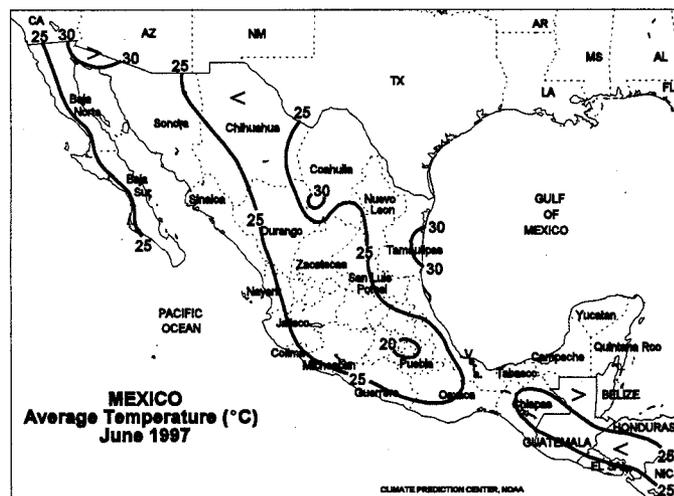
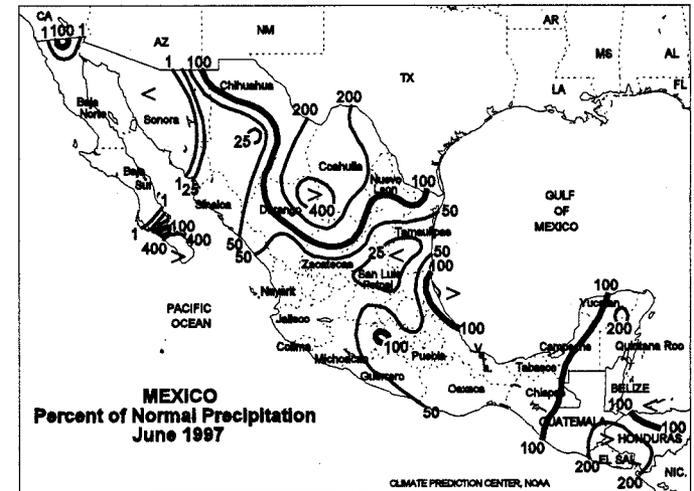
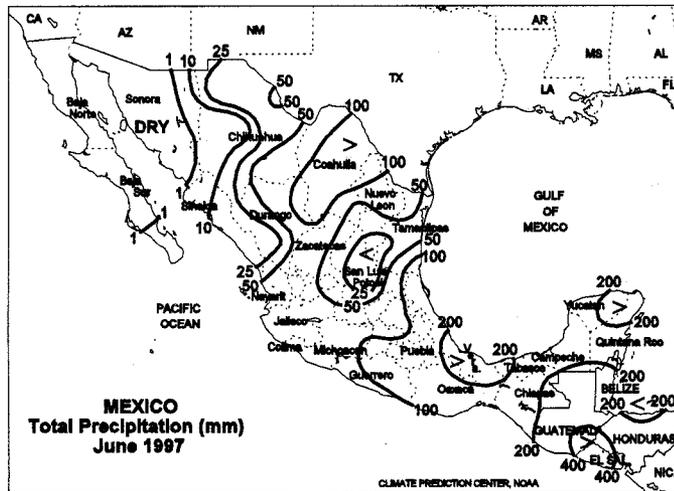
In central Argentina, early-week rain (10-50 mm) covered the wheat belt, boosting topsoil moisture for germinating wheat. The heaviest rain (30-50 mm, with an isolated amount greater than 90 mm) in eastern La Pampa and southern Buenos Aires, slowed wheat planting. In southern Brazil, rain (10-75 mm, with isolated amounts greater than 80 mm) continued to favor vegetative to reproductive winter wheat in eastern Parana, Santa Catarina, and Rio Grande do Sul. Dry weather favored coffee and citrus harvesting in Sao Paulo and southern Minas Gerais. Temperatures averaged near normal in central Argentina and 3 to 5 degrees C above normal in southern Brazil. During June, rainfall averaged 200 to 400 percent of normal across the wheat areas of central Argentina. Only southern Cordoba reported below-normal rainfall in the region, which reduced topsoil moisture for wheat planting. The wheat areas of southern Brazil also received above-normal June rainfall (100-200 percent of normal). Unseasonably heavy June rain slowed coffee and citrus harvesting in southwestern Minas Gerais and northern Sao Paulo.

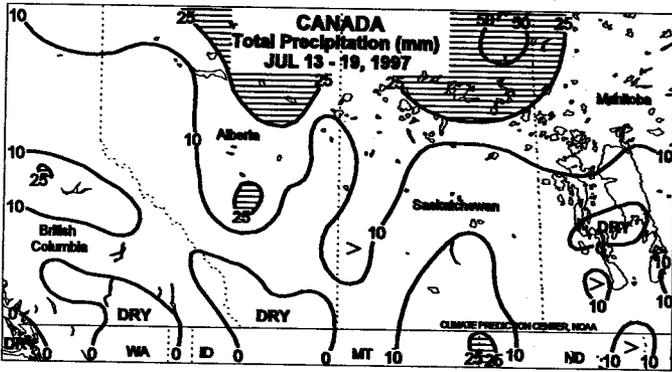




**MEXICO**

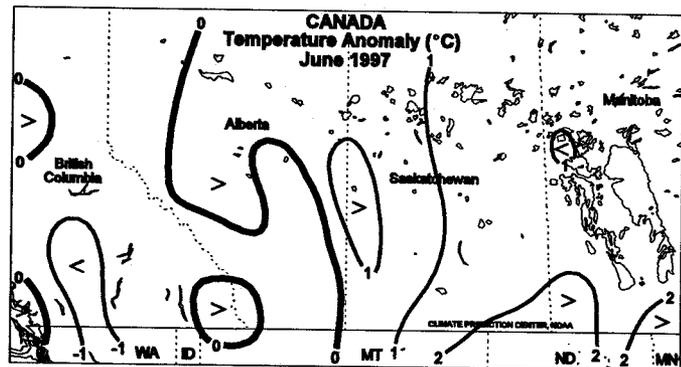
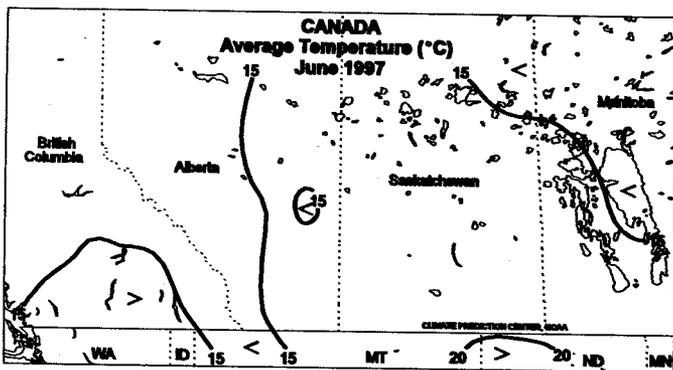
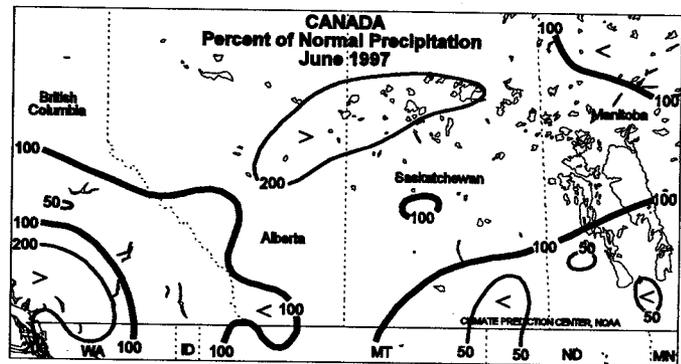
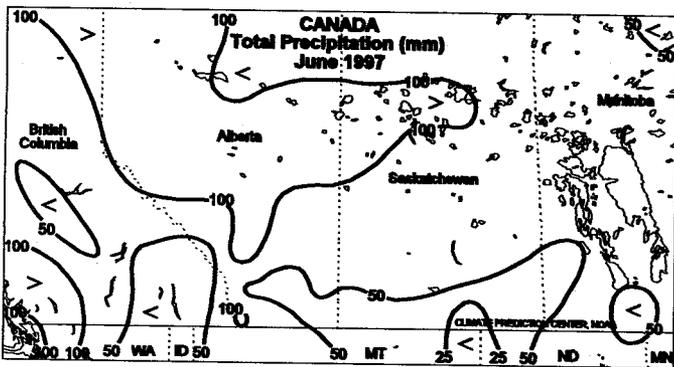
Rain (30-70 mm, with isolated amounts greater than 100 mm) continued to benefit vegetative corn across the eastern corn belt. Lighter rain (5-35 mm) fell across western corn belt, where rainfall has been trending below normal. Warm weather (average temperatures 1-2 degrees C above normal) reduced available moisture supplies in the west. Erratic summer rainfall across northwestern and northeastern Mexico has reduced moisture supplies. Across these regions, temperatures averaged 2 to 4 degrees C above normal, with highs ranging from 35 to 40 degrees C. During June, rainfall averaged below normal across the corn belt, indicative of a delay in the onset of the rainy season. Consistent rains finally appeared late in the month. June rainfall averaged above normal across north-central Mexico, maintaining adequate irrigation supplies. Much-below-normal rainfall (less than 50 percent of normal) occurred in the northeast and northwest.





CANADA

Beneficial showers (5-20 mm) ended a brief spell of warm, dry weather across southern Saskatchewan. However, amounts totaled 5 mm or less over Alberta and Manitoba. Temperatures prior to the rain had reached 30 degrees C, increasing moisture demands of reproductive grains and oilseeds. Early-week dryness was favorable in Alberta's northern crop areas. Farther east, mostly light rain (10 mm or less) accompanied unseasonable heat (highs in the low to mid 30's C) across Ontario, accelerating growth of immature winter wheat and vegetative summer crops. Rain (15-54 mm) and somewhat milder weather covered Quebec. During June, drier- and warmer-than-normal conditions developed over the southeastern Prairies. While initially beneficial, it had become too dry in some locations despite the presence of timely, late-month scattered showers. In contrast, crop areas in Alberta's Peace River Valley and those near Edmonton remained unfavorably wet much of the month. In the east, unfavorably cool, wet weather plagued Ontario's winter wheat and corn for much of June.



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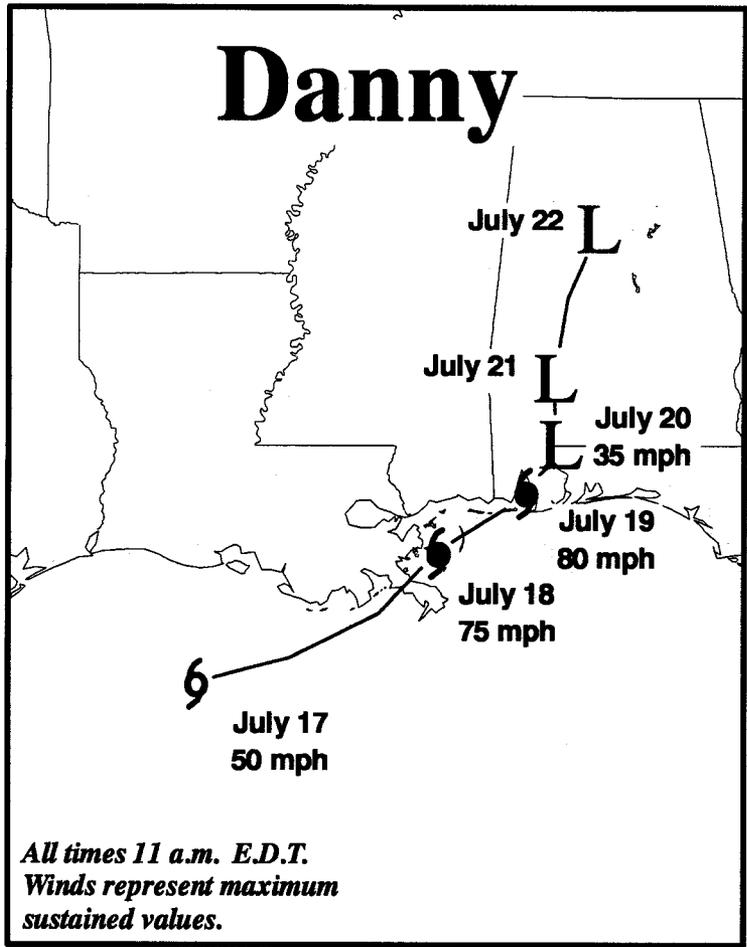
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