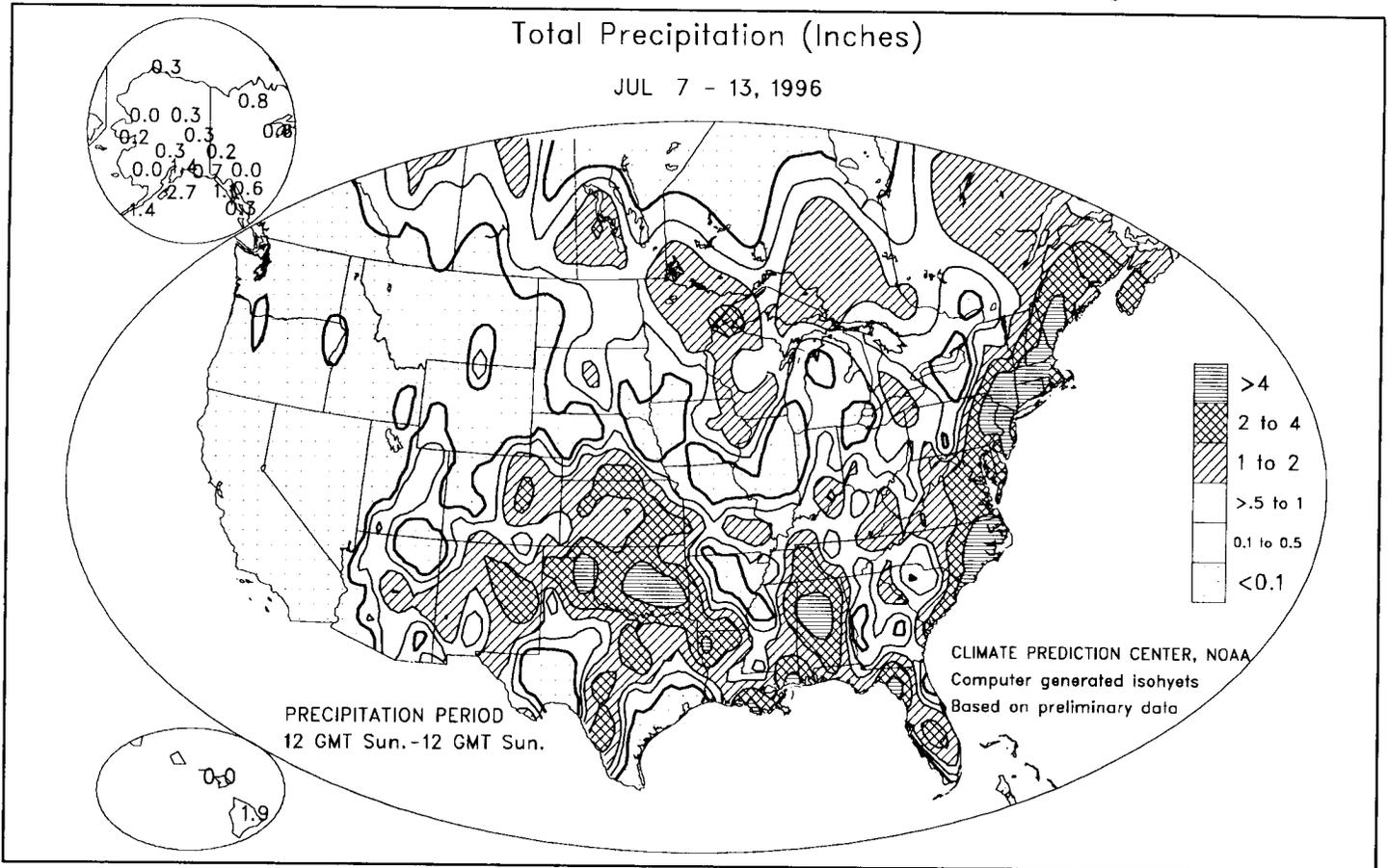


# WEEKLY WEATHER AND CROP BULLETIN

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



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

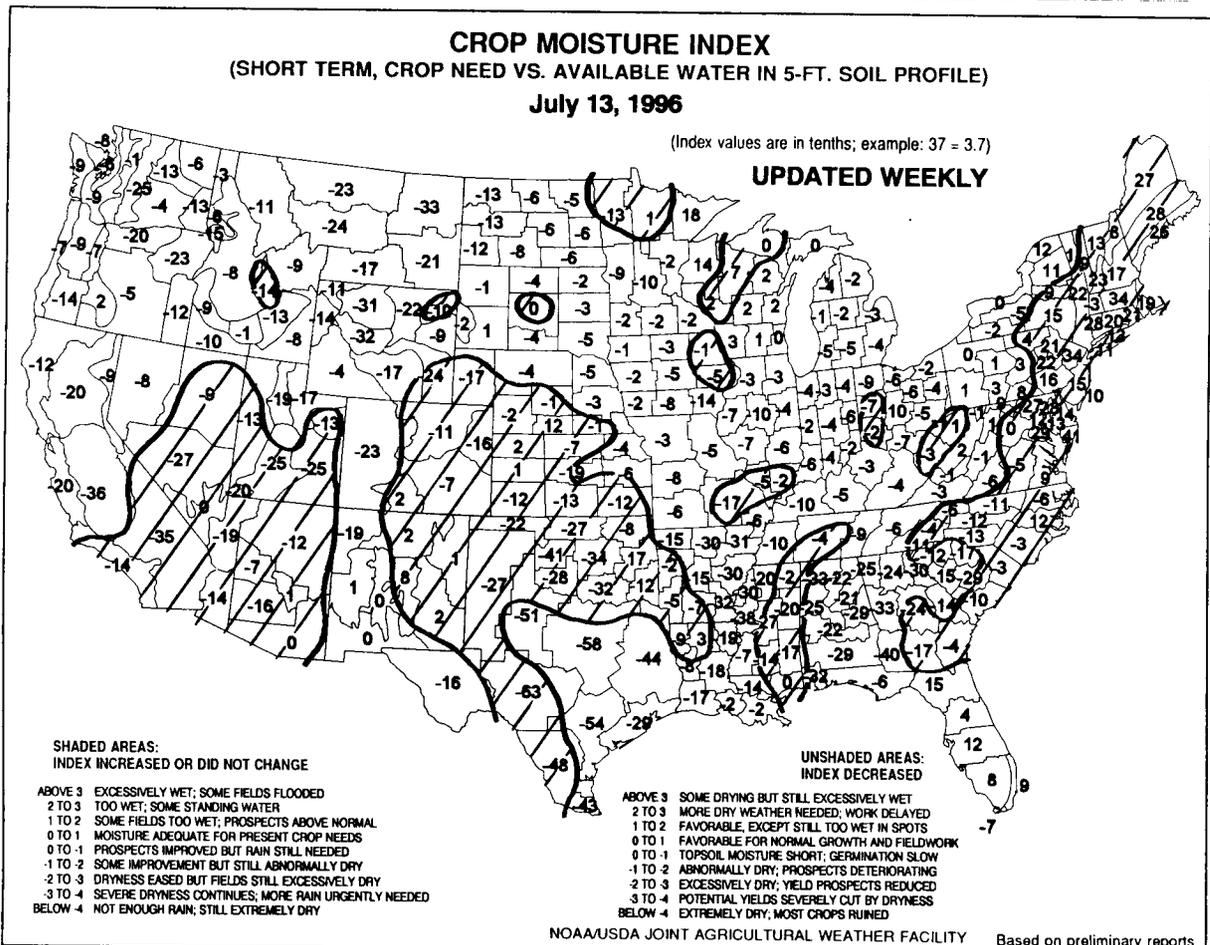
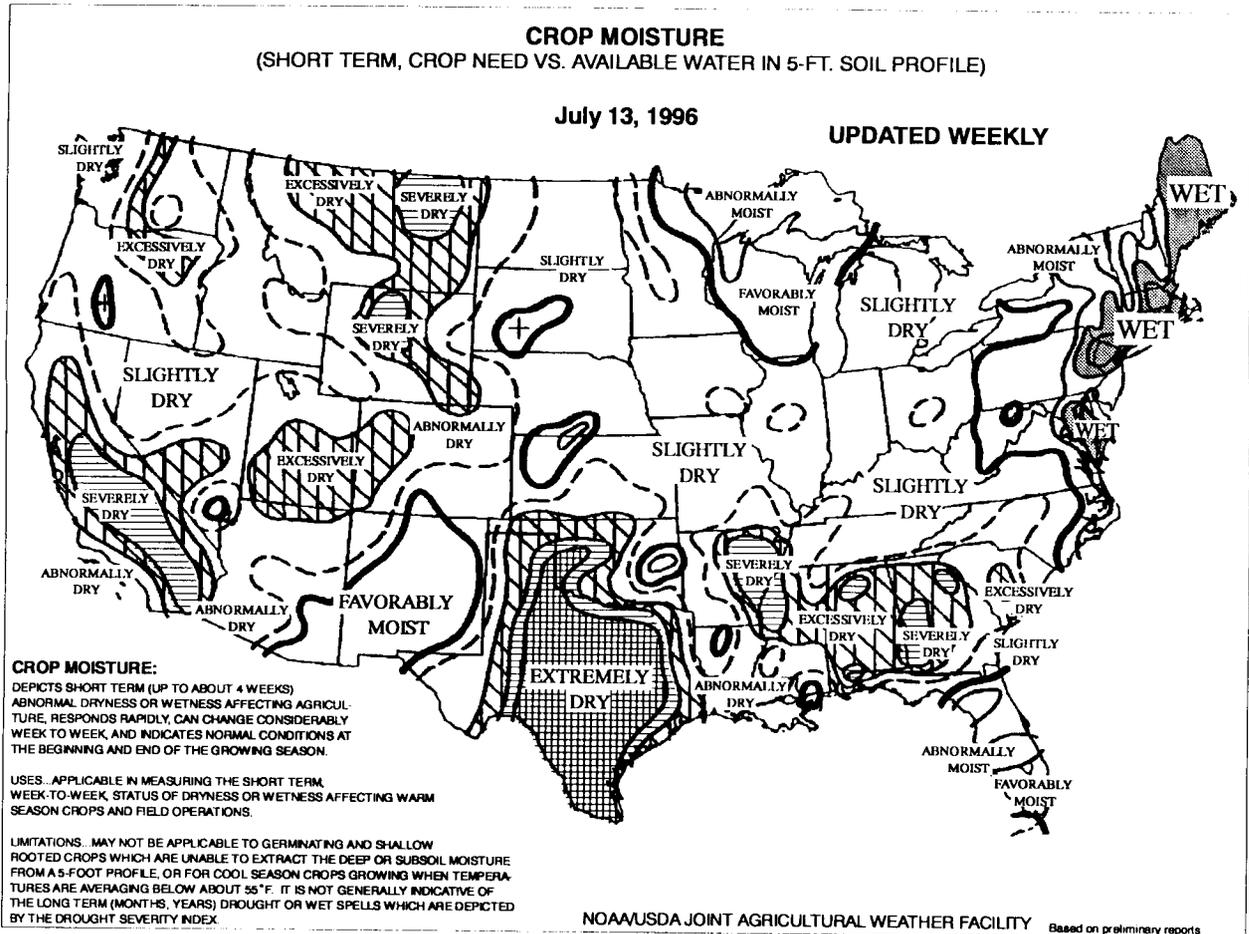
## HIGHLIGHTS July 7 - 13, 1996

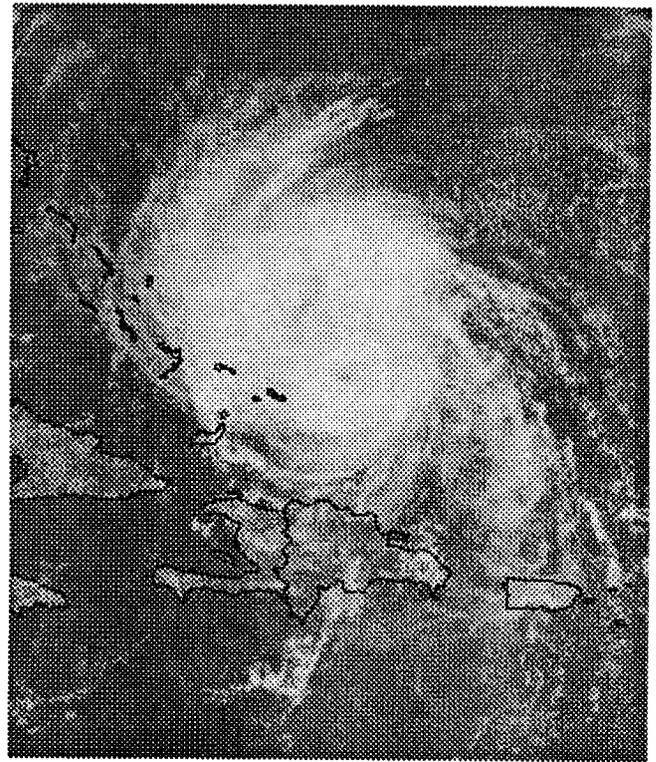
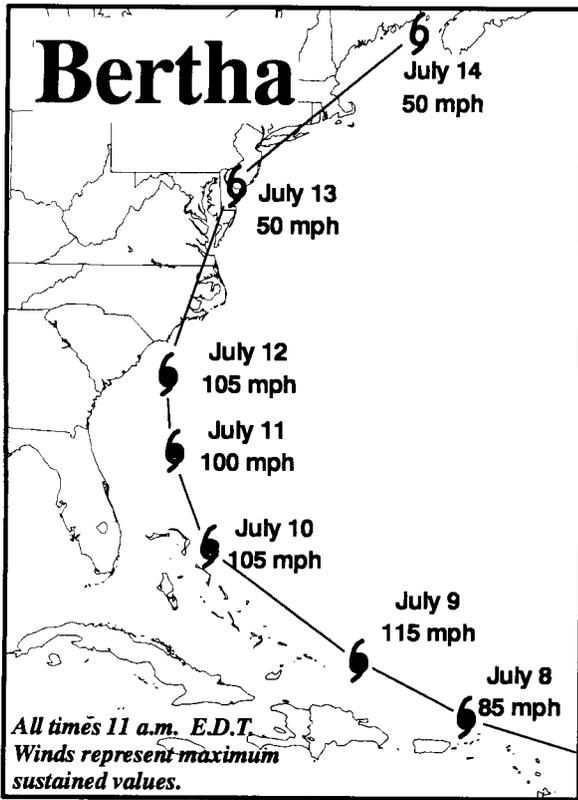
**D**ry weather continued through a third consecutive week across the **Corn Belt**, though below-normal temperatures minimized evaporation rates. Crop moisture also diminished over the **Southeast**, except in scattered locations, where thunderstorms dumped 2 to 7 inches of rain. Farther west, significant rainfall (locally 2 to 8 inches) from **Arizona** to **Oklahoma** tempered long-term drought. Heat intensified during the week in the **Northwest** (weekly departures of +3 to +8°F), but very cool air (3 to 9°F below normal) overspread the **Midwest** and the **Plains** as far south as **northern Texas**. Late in the week, Hurricane Bertha jolted the **North Carolina** coastline, moving ashore with sustained winds of 105 mph. Thereafter, Bertha's rain and steadily diminishing winds spread northward into **New England**.

(Continued on page 4)

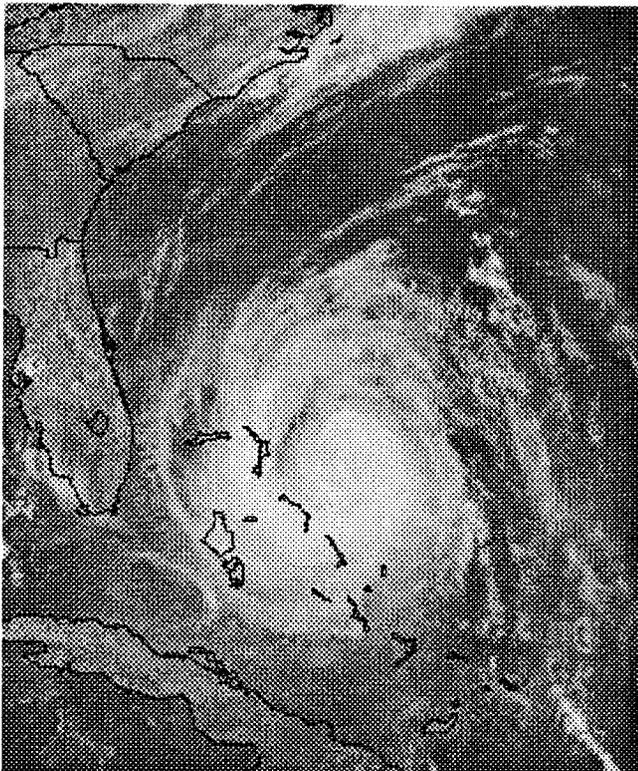
### Contents

Crop Moisture Maps .....	2
Hurricane Bertha Track and Images .....	3
Temperature Departure Map .....	4
Extreme Maximum & Minimum Temperature Maps .....	5
Growing Degree Day Maps .....	6
National Weather Data for Selected Cities .....	7
National Agricultural Summary .....	10
Crop Progress and Condition Tables .....	11
Pan Evaporation Map .....	13
State Agricultural Summaries .....	14
International Weather and Crop Summary .....	20
Subscription Information & Crop Production Highlights .....	24

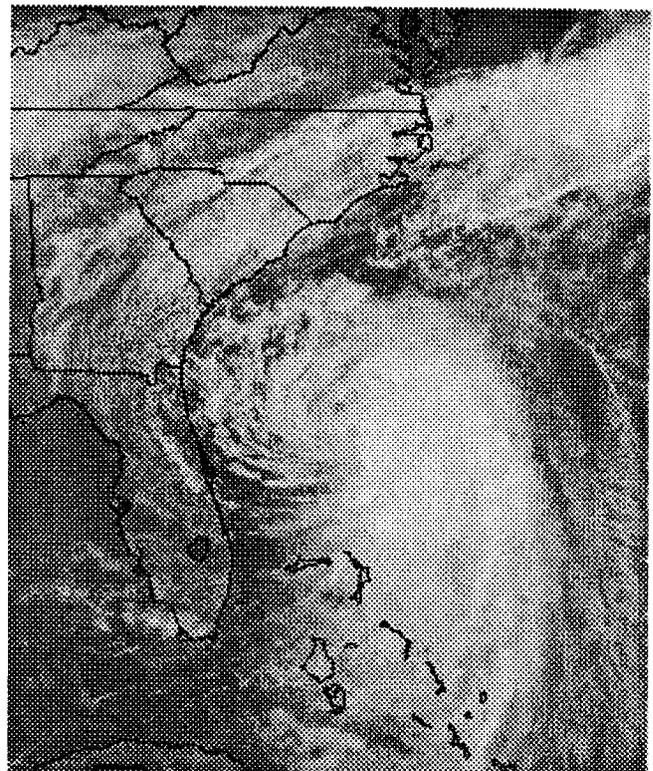




GOES-8 VIS, July 9, 1996, noon EDT



GOES-8 VIS, July 10, 1996, noon EDT



GOES-8 VIS, July 11, 1996, noon EDT

(Continued from front cover)

On Sunday, a final day of intense heat gripped the **southern Plains**, producing a half-dozen daily records. Streaks of triple-digit heat stretched to 8 days in **Oklahoma City, OK** (106°F) and 10 days in **Wichita Falls, TX** (110°F). Elsewhere, **Montgomery, AL** reported a daily-record rainfall of 2.49 inches, while **Seattle, WA** (84°F) registered their first 80-degree maximum of the year.

Across the **Southwestern and South-Central States**, the presence of tropical-origin moisture and a stalled front fueled torrential rainfall. In **Oklahoma City**, the 7-day (July 8-14) rainfall reached 8.42 inches, including daily-record totals on July 10 (2.79 inches), July 11 (3.02 inches), and July 14 (1.98 inches). On July 9, a cloudburst over **Monticello, UT** dumped 2.30 inches in an hour. Apart from the **Four Corners States**, the risk of Western wildfires increased under dry, hot conditions. Through mid-July, U.S. fires, including Alaska, consumed 2.93 million acres, 267 percent above the 5-year average.

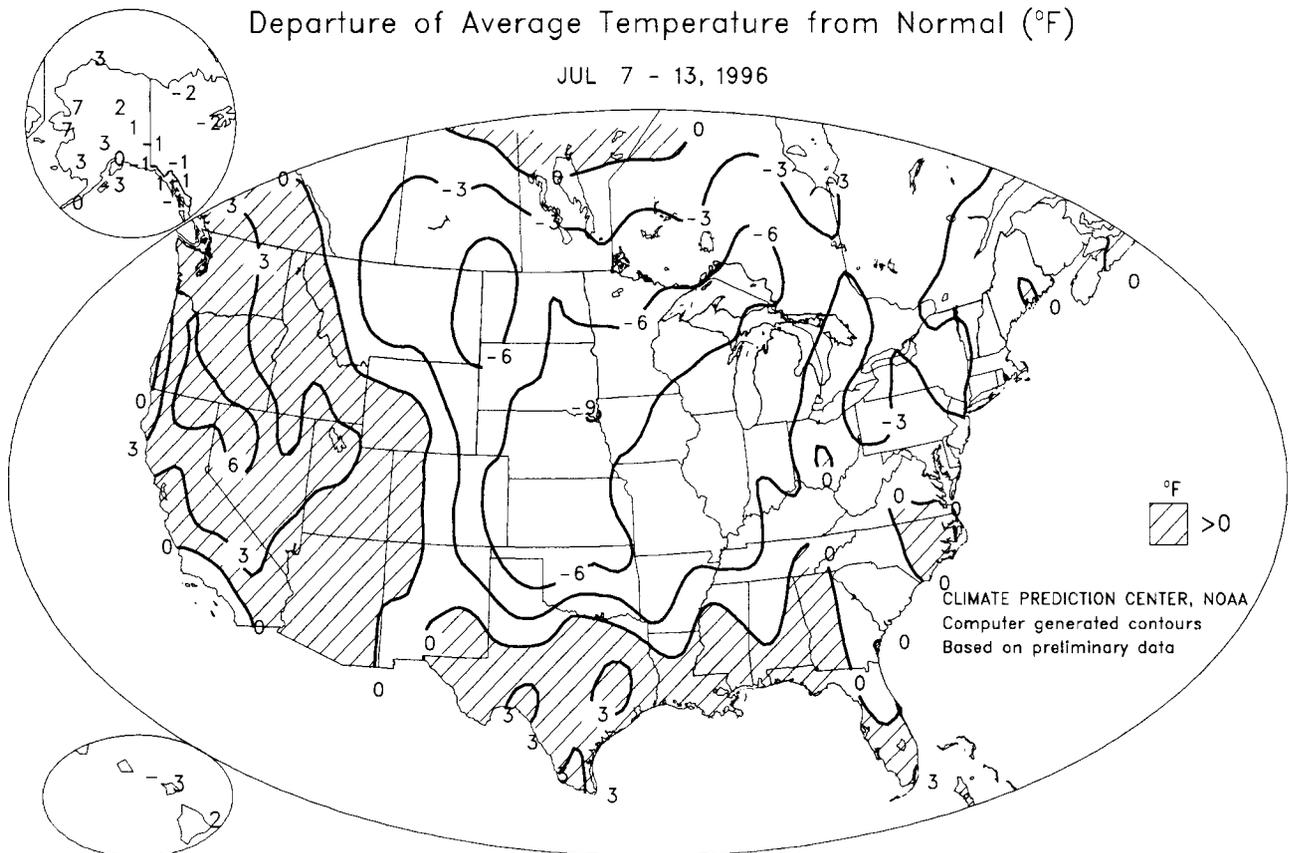
Very cool air spread into **North Dakota** on Tuesday, producing daily-record lows in **Williston** (39°F) and **Dickinson** (41°F). More than two dozen additional records were set across the **Midwest** on July 10-11. At midweek, lows in the **western Corn Belt** dipped to 43°F in **Sioux Falls, SD** and 44°F in **Webster City, IA**. A day later, **Youngstown, OH** tallied 43°F. Meanwhile, clouds and rain suppressed temperatures on the **central and southern Plains**. On Wednesday, highs struggled to 60°F in **Liberal, KS** and 64°F in **Amarillo, TX**. In contrast, late-week highs soared across the **Northwest**. On Saturday, daily records included 99°F in **Eugene, OR** and 95°F in **Quillayute, WA**.

A late-week cold front delivered the month's first rain to locations such as **Columbus, OH** (0.06 inches) and **Peoria, IL** (0.01 inches). (Much more significant rain dampened the **eastern Corn Belt** on July 14; details next week.) Nevertheless, very dry July weather persisted in many parts of the **Midwest**, among them **Des**

**Moines, IA** (0.07 inches), **Evansville, IN** (0.03 inches), and **Cincinnati, OH** (0.01 inches). In **Chicago, IL**, Saturday was the 20th (and final) day in a row without measurable rain. Farther east, however, the remnants of Hurricane Bertha carved a rainy swath up the **Atlantic Seaboard** on July 12-13, leaving widespread 2- to 6-inch totals.

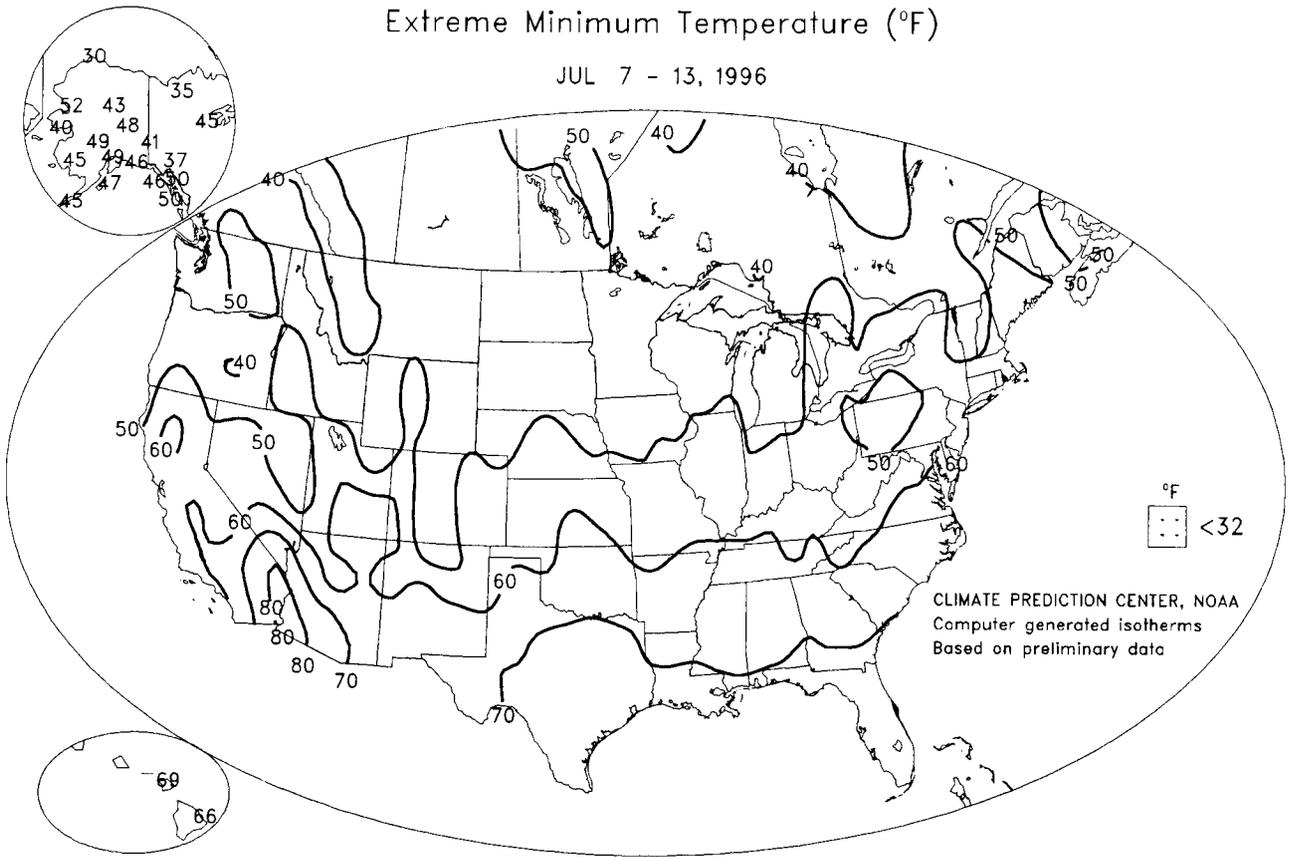
Bertha formed east of the Leeward Islands, crossing **St. Martin (Netherlands/France)** on Monday morning, producing winds gusts to 81 mph and a central pressure of 29.09 inches (985 millibars). Later in the day, the hurricane's eye passed near **St. Thomas, U.S. Virgin Islands**, resulting in the loss of about 90 percent of the temporary plastic roofing still in place as a result of Hurricane Marilyn's passage last September. The storm skirted **northeastern Puerto Rico** on Tuesday, but resulted in peak gusts to 60 mph at both **San Juan** and **Roosevelt Roads**. In addition, **Puerto Rican** rainfall reached 8.55 inches near **Naguabo** and 6.87 inches near **Campo Rico**.

Bertha's sustained winds peaked at 115 mph on Tuesday, then trailed off to 80 mph on Thursday. The hurricane re-intensified before its Friday landfall, crossing the **North Carolina** coast on Friday afternoon near **Wrightsville Beach** (see page 3 for a track and selected satellite images of Bertha). Shortly before landfall, the storm's minimum central pressure was 28.76 inches (974 millibars). Thirty miles southeast of **Bald Head Island, NC**, at **Frying Pan Shoals**, seas built to 29 feet and winds gusted to 115 mph. Inland, winds were clocked to 108 mph at **Jacksonville (Camp Lejeune), NC**. East of Bertha's center, an 8-foot storm surge piled up in **western Pamlico Sound**. As late as Saturday evening, a wind gust to hurricane force (74 mph) was recorded in **Middletown, RI**. Rainfall on Saturday topped 3 inches in many **northern Atlantic Seaboard** cities, including **Providence, RI** (3.57 inches; peak gust 51 mph), **Boston, MA** (3.36 inches; 33 mph), and **Portland, ME** (3.37 inches).



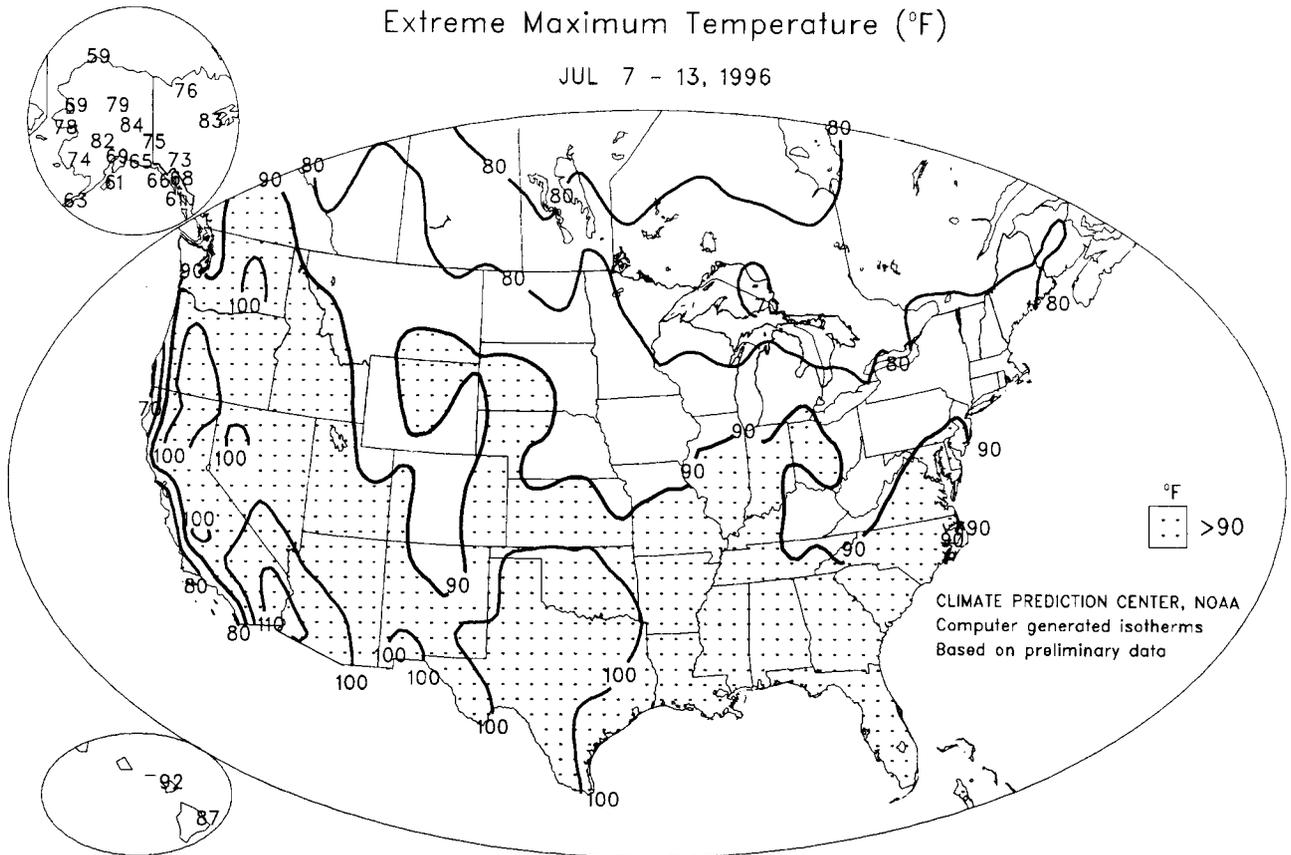
### Extreme Minimum Temperature (°F)

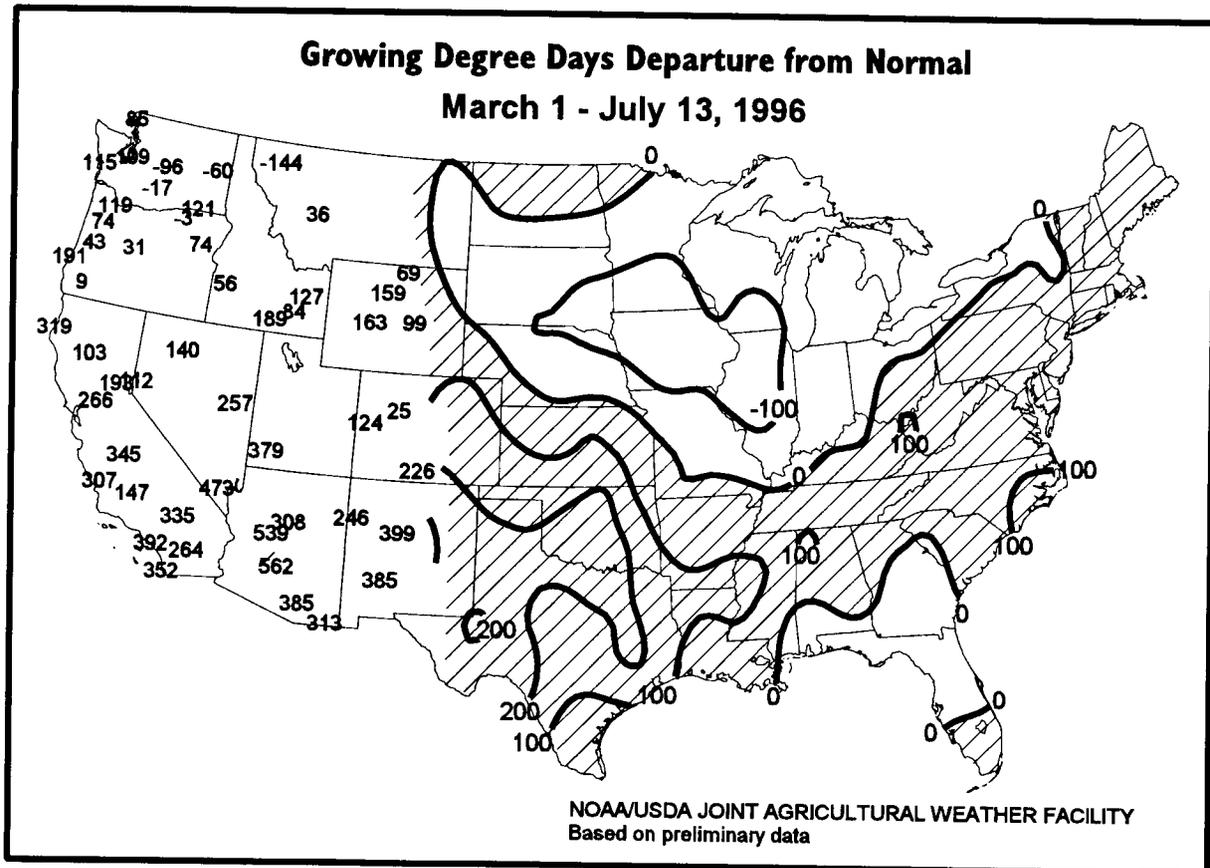
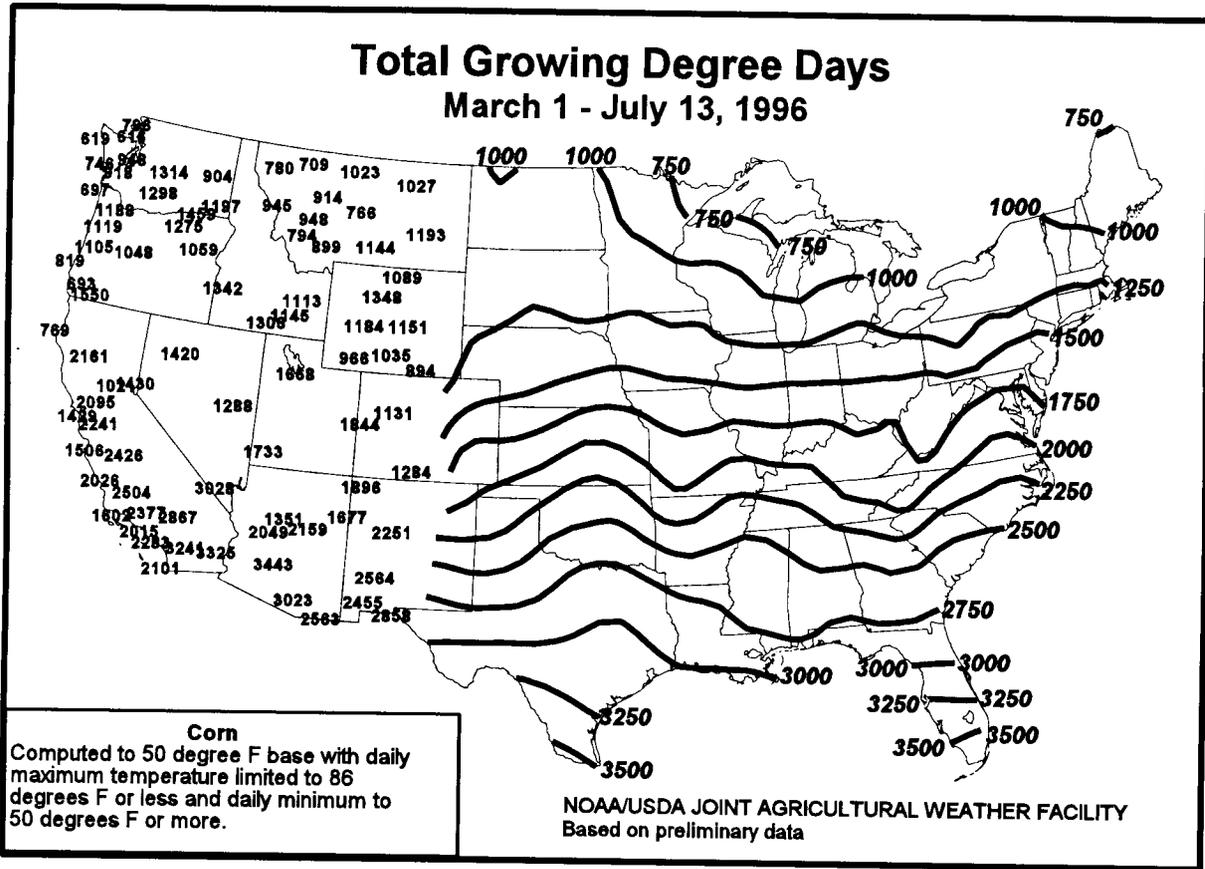
JUL 7 - 13, 1996



### Extreme Maximum Temperature (°F)

JUL 7 - 13, 1996





# National Weather Data for Selected Cities

Weather Data for the Week Ending July 13, 1996

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN., SINCE JUN 1	PCT. NORMAL SINCE JUN 1	TOTAL IN., SINCE JUN 1	PCT. NORMAL SINCE JUN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		01 INCH OR MORE	05 INCH OR MORE
																		90 AND ABOVE	32 AND BELOW		
AL BIRMINGHAM	88	69	93	84	78	0	2.80	1.58	1.41	5.02	84	36.14	113	96	38	3	0	3	0	3	2
MOBILE	91	73	94	71	82	0	2.49	0.98	1.47	7.56	97	39.35	113	92	57	6	0	3	0	3	2
MONTGOMERY	91	71	95	68	81	1	1.70	0.40	1.44	3.75	50	34.85	107	95	50	6	0	6	0	3	1
AK ANCHORAGE	64	53	89	49	59	0	1.35	0.98	0.85	1.85	103	5.07	92	78	52	0	0	4	2	6	1
BARROW	50	35	59	30	42	3	0.35	0.15	0.34	0.68	106	1.36	99	96	77	0	0	4	2	0	0
FAIRBANKS	75	53	84	48	64	1	0.29	-0.12	0.26	1.88	88	4.33	98	83	37	0	0	3	0	0	0
JUNEAU	60	51	68	50	55	-1	--	--	--	--	--	--	--	92	75	0	0	0	0	0	0
KODIAK	54	49	61	47	51	-3	2.73	1.92	1.26	7.24	116	25.02	75	98	85	0	0	6	2	0	0
NOME	68	50	78	40	58	7	0.18	-0.28	0.10	1.01	52	6.72	128	88	48	0	0	2	0	0	0
AZ PHOENIX	104	84	108	75	94	1	0.81	0.64	0.43	0.81	184	2.62	96	80	26	7	0	2	0	0	0
PRESCOTT	88	63	102	60	76	3	0.73	0.06	0.43	1.22	73	3.41	43	87	47	3	0	3	0	0	0
TUCSON	98	78	101	70	87	0	0.62	0.11	0.52	1.08	92	2.20	56	71	33	7	0	2	1	0	0
YUMA	106	84	109	82	95	2	0.00	-0.04	0.00	0.00	0	0.61	58	52	24	7	0	0	0	0	0
AR FORT SMITH	83	70	96	64	76	-5	2.07	1.38	0.91	7.73	167	26.09	116	95	56	2	0	4	2	0	0
LITTLE ROCK	--	--	--	--	--	--	0.09	-0.85	--	3.65	--	21.69	81	--	--	--	--	--	--	--	--
CA BAKERSFIELD	89	71	102	68	85	1	0.00	0.00	0.00	0.00	0	4.20	110	61	23	7	0	0	0	0	0
EUREKA	82	51	84	48	58	0	0.00	-0.03	0.00	0.06	9	29.44	141	92	87	0	0	0	0	0	0
FRESNO	101	70	103	68	85	4	0.00	0.00	0.00	0.08	114	8.14	117	70	24	7	0	0	0	0	0
LOS ANGELES	74	61	78	53	67	-2	0.00	0.00	0.00	0.00	0	8.72	113	89	55	0	0	0	0	0	0
REDDING	103	69	105	67	86	5	0.00	-0.03	0.00	0.10	18	27.46	146	88	18	7	0	0	0	0	0
SACRAMENTO	96	60	100	57	78	2	0.00	0.00	0.00	0.00	0	15.85	147	78	27	7	0	0	0	0	0
SAN DIEGO	72	64	73	63	68	-3	0.09	0.09	0.09	0.09	113	3.96	64	84	60	0	0	1	0	0	0
SAN FRANCISCO	69	54	73	53	62	-1	0.00	0.00	0.00	0.00	0	18.46	151	91	56	0	0	0	0	0	0
CO DENVER	84	58	93	55	71	-2	0.71	0.27	0.46	2.32	89	5.70	63	91	37	2	0	3	0	0	0
GRAND JUNCTION	96	65	98	60	80	0	0.00	-0.17	0.00	0.59	59	4.72	91	61	17	7	0	0	0	0	0
PUEBLO	85	60	97	57	72	-5	2.52	2.08	1.44	3.87	186	7.80	136	82	38	2	0	5	2	0	0
CT BRIDGEPORT	78	63	83	58	71	-3	3.02	2.17	2.02	6.84	135	29.76	130	88	52	0	0	3	2	0	0
HARTFORD	81	61	87	55	71	-2	2.31	1.59	1.81	6.69	132	28.95	123	87	46	0	0	2	2	0	0
DC WASHINGTON	87	70	94	65	79	-1	2.40	1.55	1.08	5.71	116	24.46	122	89	46	4	0	3	3	0	0
FL PANAMA CITY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DAYTONA BEACH	88	73	91	71	81	0	0.18	-1.03	0.18	12.82	155	36.36	159	97	64	2	0	2	0	0	0
JACKSONVILLE	89	73	93	70	81	0	0.05	-1.28	0.05	13.32	167	25.90	106	92	56	3	0	1	0	0	0
KEY WEST	90	81	91	78	86	1	0.00	-0.80	0.00	4.11	82	12.48	71	83	68	7	0	0	0	0	0
MIAMI	91	79	93	76	85	2	1.89	0.40	1.54	15.49	132	31.79	115	86	61	6	0	3	1	0	0
ORLANDO	91	74	93	72	82	0	1.43	-0.23	1.33	10.22	98	32.82	133	98	56	5	0	3	1	0	0
TALLAHASSEE	91	73	95	72	82	1	0.58	-1.41	0.28	5.81	54	26.05	73	94	52	5	0	4	0	0	0
TAMPA	89	77	92	75	83	1	0.18	-1.28	0.09	10.14	124	26.63	129	90	48	4	0	3	0	0	0
WEST PALM BEACH	90	75	93	73	83	0	0.30	-1.09	0.19	8.57	81	21.69	75	91	58	5	0	2	0	0	0
GA ATLANTA	92	72	94	68	82	3	0.19	-0.96	0.15	1.88	33	25.68	86	80	38	7	0	3	0	0	0
AUGUSTA	89	70	93	65	79	-2	0.54	-0.40	0.48	2.86	49	16.56	64	90	58	4	0	2	0	0	0
MACON	91	70	94	66	81	0	1.25	0.27	0.90	3.49	65	21.80	82	86	44	6	0	2	1	0	0
SAVANNAH	91	72	95	69	81	0	0.87	-0.52	0.34	3.85	44	15.06	58	95	50	4	0	5	0	0	0
HI HILO	85	70	87	66	77	2	1.85	-0.29	1.30	13.81	137	66.19	95	91	63	0	0	4	1	0	0
HONOLULU	--	76	--	73	--	--	0.00	-0.14	0.00	0.53	69	8.20	72	76	50	--	0	0	0	0	0
KAHULUI	90	74	92	69	82	3	0.00	-0.08	0.00	0.20	49	13.00	102	80	50	3	0	0	0	0	0
LIHUE	--	76	--	74	--	--	0.00	-0.48	0.00	2.01	79	17.81	79	79	63	--	0	0	0	0	0
ID BOISE	94	69	99	54	76	3	0.00	-0.08	0.00	0.13	14	7.41	104	65	14	7	0	0	0	0	0
LEWISTON	92	57	97	51	75	1	0.00	-0.18	0.00	0.65	42	11.09	152	80	19	6	0	0	0	0	0
POCATELLO	90	51	93	39	71	0	0.00	-0.15	0.00	0.00	0	7.06	100	66	16	4	0	0	0	0	0
IL CHICAGO	81	58	91	50	70	-3	0.00	-0.80	0.00	5.12	98	18.13	101	82	43	1	0	0	0	0	0
MOLINE	83	58	91	50	70	-5	0.86	-0.27	0.86	3.20	50	18.02	88	88	41	1	0	1	1	0	0
PEORIA	84	60	90	55	72	-4	0.00	-0.98	0.00	1.89	32	16.29	84	83	36	1	0	0	0	0	0
QUINCY	82	61	88	54	71	-5	--	--	--	--	--	--	--	88	41	0	0	--	--	--	--
ROCKFORD	80	58	87	51	69	-5	0.23	-0.71	0.23	5.22	83	22.42	120	91	40	0	0	1	0	0	0
SPRINGFIELD	84	59	91	49	71	-5	0.05	-0.75	0.04	2.02	41	19.41	103	89	40	1	0	2	0	0	0
IN EVANSVILLE	85	64	94	57	75	-4	0.03	-1.02	0.03	4.13	73	33.81	130	82	36	2	0	1	0	0	0
FORT WAYNE	83	57	92	51	70	-4	0.91	0.14	0.91	6.50	129	22.56	121	85	37	1	0	1	1	0	0
INDIANAPOLIS	84	62	91	55	73	-2	0.87	-0.15	0.45	6.11	114	29.36	135	85	44	1	0	2	0	0	0
SOUTH BEND	80	55	89	47	67	-5	0.00	-0.87	0.00	7.20	125	23.85	118	81	35	0	0	0	0	0	0
IA DES MOINES	82	60	87	51	71	-4	0.10	-0.80	0.10	3.21	51	17.98	98	84	36	0	0	1	0	0	0
SIoux CITY	79	54	83	45	67	-9	0.00	-0.75	0.00	5.24	103	14.53	101	90	37	0	0	0	0	0	0
WATERLOO	81	59	86	47	70	-3	0.67	-0.48	0.51	5.13	78	15.22	83	91	45	0	0	2	1	0	0
KS CONCORDIA	82	63	92	57	73	-7	0.35	-0.49	0.33	1.10	18	11.99	73	89							

## Weather Data for the Week Ending July 13, 1996

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN., SINCE 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	82 AND BELOW	01 INCH OR MORE	05 INCH OR MORE
ME	73	55	77	47	64	-2	1.71	0.82	0.72	7.61	168	23.17	137	94	54	0	0	4	2
PORTLAND	77	58	81	53	68	-1	3.93	3.22	3.20	6.44	136	27.96	120	89	51	0	0	2	2
MD	85	62	92	53	74	-3	0.50	-0.33	0.22	4.70	91	26.97	124	98	46	3	0	3	0
BALTIMORE	86	66	91	56	78	-1	0.00	-0.93	0.00	4.96	93	27.89	119	98	54	3	0	0	0
SALISBURY	81	64	89	61	72	-1	1.19	0.56	1.08	3.26	77	23.41	106	82	48	0	0	2	1
MA	81	64	89	61	72	-1	1.19	0.56	1.08	3.26	77	23.41	106	82	48	0	0	2	1
BOSTON	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
CHATHAM	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
MI	76	54	94	49	66	-2	0.63	-0.11	0.30	2.94	89	10.27	71	93	50	0	0	4	0
ALPENA	77	57	91	48	65	-2	0.63	-0.11	0.30	2.94	89	10.27	71	93	50	0	0	4	0
DETROIT	82	60	91	52	71	-1	0.12	-0.60	0.10	2.36	48	13.74	81	98	46	1	0	2	0
FLINT	80	55	86	47	67	-3	0.07	-0.54	0.07	4.31	100	14.39	97	87	41	0	0	1	0
GRAND RAPIDS	80	58	86	48	68	-4	0.01	-0.71	0.01	6.45	128	16.59	96	83	38	0	0	1	0
HUGHTON LAKE	74	50	80	44	62	-5	0.36	-0.21	0.34	6.57	161	15.11	111	90	44	0	0	2	0
LANSING	80	53	87	45	67	-5	0.44	-0.14	0.39	4.99	113	14.56	96	92	42	0	0	2	0
MARQUETTE	68	50	77	46	59	-8	0.87	0.02	0.29	5.22	111	23.86	138	96	66	0	0	5	0
MUSKEGON	74	53	80	43	64	-7	0.27	-0.17	0.13	4.96	157	15.04	100	92	49	0	0	3	0
SAULT ST. MARIE	66	48	74	46	57	-6	1.31	0.72	0.38	5.06	119	17.75	112	96	70	0	0	6	0
MN	74	56	80	47	65	-7	..	..	..	..	..	..	..	93	51	0	0	..	..
DULUTH	68	51	78	43	59	-7	2.29	1.49	1.60	10.11	190	16.37	112	96	64	0	0	5	1
INT'L FALLS	72	51	78	44	62	-6	1.57	0.74	0.73	6.74	122	14.07	115	93	48	0	0	3	2
MINNEAPOLIS	76	58	82	49	67	-6	0.20	-0.60	0.10	5.56	100	12.19	80	86	44	0	0	4	0
ROCHESTER	74	56	80	48	65	-6	0.46	-0.49	0.45	8.07	147	16.58	110	91	48	0	0	2	0
MS	93	74	102	70	84	2	..	..	..	..	..	..	..	88	45	6	0	..	..
GREENWOOD	92	72	96	67	82	1	2.21	1.30	2.20	6.07	125	32.25	100	90	47	5	0	2	1
JACKSON	93	70	96	66	82	1	1.68	0.49	1.00	3.44	59	28.47	86	96	49	6	0	4	1
MO	84	67	90	59	76	-4	0.58	-0.22	0.54	3.82	78	23.46	90	91	48	2	0	2	1
CAPE GIRARDEAU	84	63	92	53	73	-4	0.16	-0.70	0.16	1.87	34	20.20	99	87	38	1	0	1	0
COLUMBIA	82	63	87	56	72	-6	0.28	-0.73	0.28	8.03	122	22.93	117	89	40	0	0	1	0
KANSAS CITY	84	66	93	57	75	-5	0.24	-0.66	0.24	4.63	86	23.77	116	78	39	1	0	1	0
SAINT LOUIS	80	63	91	56	72	-6	0.34	-0.32	0.33	3.12	49	18.11	79	96	54	1	0	2	0
SPRINGFIELD	83	56	93	50	70	-2	0.00	-0.23	0.00	1.30	54	8.59	90	61	21	1	0	0	0
MT	80	63	86	46	66	-4	0.00	-0.41	0.00	2.06	71	4.64	72	78	26	0	0	0	0
BILLINGS	80	47	92	41	63	-4	0.01	-0.28	0.01	1.18	40	5.93	62	75	24	1	0	1	0
GLASGOW	80	49	90	43	65	-4	0.00	-0.33	0.00	2.02	86	6.17	94	83	27	1	0	0	0
GREAT FALLS	83	48	90	42	65	-3	0.24	-0.01	0.24	1.89	81	6.53	94	81	22	1	0	1	0
HAVRE	82	44	87	38	63	0	0.00	-0.26	0.00	1.86	69	14.84	159	93	28	0	0	0	0
HELENA	82	53	90	46	67	-7	0.00	-0.38	0.00	0.91	26	9.54	108	68	23	1	0	0	0
KALISPELL	87	49	92	42	68	2	0.00	-0.21	0.00	1.92	88	10.17	127	79	19	1	0	0	0
MILES CITY	81	57	87	48	69	-9	0.19	-0.53	0.13	4.14	79	19.53	127	96	41	0	0	2	1
MISSOULA	78	56	84	46	67	-9	0.06	-0.72	0.06	3.43	68	10.84	71	90	40	0	0	1	0
NE	78	58	88	52	67	-7	2.03	1.30	1.80	5.95	125	11.72	96	92	48	0	0	4	1
GRAND ISLAND	81	61	85	53	71	-6	0.02	-0.78	0.02	3.69	69	18.39	114	88	38	0	0	1	0
LINCOLN	81	57	88	53	69	-5	1.33	0.83	1.26	2.36	66	9.59	96	90	38	0	0	2	1
NORFOLK	81	56	94	48	68	-7	0.00	-0.77	0.00	2.61	53	9.63	76	89	26	1	0	0	0
NORTH PLATTE	89	52	94	46	71	4	0.08	-0.09	0.08	0.14	12	4.59	81	78	18	3	0	1	0
OMAHA	103	82	107	80	93	2	0.00	-0.07	0.00	0.00	0	0.51	25	40	21	7	0	0	0
SCOTTSBLUFF	94	58	98	54	76	4	0.13	0.07	0.11	0.84	147	7.21	162	79	25	7	0	2	0
VALENTINE	98	81	99	52	80	8	0.00	-0.06	0.00	0.44	46	5.92	122	64	14	7	0	0	0
NV	81	56	89	48	69	-1	3.03	2.31	2.55	5.67	125	25.63	139	91	42	0	0	3	1
ELY	89	52	94	46	71	4	0.08	-0.09	0.08	0.14	12	4.59	81	78	18	3	0	1	0
LAS VEGAS	94	58	98	54	76	4	0.13	0.07	0.11	0.84	147	7.21	162	79	25	7	0	2	0
RENO	98	81	99	52	80	8	0.00	-0.06	0.00	0.44	46	5.92	122	64	14	7	0	0	0
WINNEMUCCA	81	56	89	48	69	-1	3.03	2.31	2.55	5.67	125	25.63	139	91	42	0	0	3	1
NH	82	64	90	56	73	-1	2.78	1.95	1.53	7.21	174	26.88	126	93	55	1	0	3	2
NJ	82	64	90	56	73	-1	2.78	1.95	1.53	7.21	174	26.88	126	93	55	1	0	3	2
NM	88	66	94	64	77	-1	0.64	0.36	0.59	3.75	338	4.14	117	80	30	3	0	2	1
ALBUQUERQUE	..	..	..	..	..	..	2.80	2.25	..	..	..	8.16	100	..	..	..	..	..	..
CLOVIS	95	71	102	70	83	2	4.86	4.49	..	..	..	8.19	163	78	30	6	0	..	..
NY	79	58	83	52	69	-3	3.52	2.80	3.48	8.06	163	24.74	130	87	43	0	0	3	1
ALBANY	74	56	81	49	65	-4	0.53	-0.27	0.53	6.76	133	23.09	120	89	50	0	0	3	1
BINGHAMTON	77	58	85	52	68	-3	0.46	-0.21	0.46	5.95	124	22.67	122	80	45	0	0	1	0
BUFFALO	82	68	89	64	75	-1	2.07	1.15	1.41	7.20	136	24.58	109	87	45	0	0	4	1
NEW YORK	78	58	83	50	68	-2	0.00	-0.61	0.00	6.93	168	22.21	139	91	47	0	0	0	0
ROCHESTER	79	58	86	54	68	-2	0.02	-0.86	0.02	4.56	84	18.87	97	86	45	0	0	1	0
SYRACUSE	81	59	88	54	70	-3	0.25	-0.78	0.22	3.80	57	21.63	73	93	50	0	0	2	0
NC	86	69	93	65	78	-2	0.83	-0.05	0.41	3.91	78	21.79	92	83	48	3	0	4	0
ASHEVILLE	85	66	93	61	76	-1	1.40	0.38	1.26	2.16	38	21.17	92	87	44	2	0	2	1
CHARLOTTE	82	72	84	64	77	-1	5.40	4.32	..	11.46	189	..	..	84	55	0	0	..	..
GREENSBORO	86	69	93	65	78	-2	0.83	-0.05	0.41	3.91	78	21.79	92	83	48	3	0	4	0
HATTERAS	85	66	93	61	76	-1	1.40	0.38	1.26	2.16	38	21.17	92	87	44	2	0	2	1
HATTERAS	82	72	84	64	77	-1	5.40	4.32	..	11.46	189	..	..	84	55	0	0	..	..
HATTERAS	86	69	93	65	78	-2	0.83	-0.05	0.41	3.91	78	21.79	92	83	48	3	0	4	0
HATTERAS	85	66	93	61	76	-1	1.40	0.38	1.26	2.16	38	21.17	92	87	44	2	0	2	1
HATTERAS	82	72	84	64	77	-1	5.40	4.32	..	11.46	189	..	..	84	55	0	0	..	..
HATTERAS	86	69	93	65	78	-2	0.83	-0.05	0.41	3.91	78	21.79	92	83	48	3	0	4	0
HATTERAS	85	66	93	61	76	-1	1.40	0.38	1.26	2.16	38	21.17	92	87	44	2	0	2	1
HATTERAS	82	72	84	64	77	-1	5.40	4.32	..	11.46	189	..	..	84	55	0	0	..	..
HATTERAS	86	69																	

Weather Data for the Week Ending July 13, 1996

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN, SINCE JUN 1	PCT. NORMAL SINCE JUN 1	TOTAL IN, SINCE JUN 1	PCT. NORMAL SINCE JUN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.05 INCH OR MORE		
OK TOLEDO	83	57	83	47	70	-2	0.08	-0.66	0.06	4.97	97	17.96	104	87	39	1	0	3	0		
OK YOUNGSTOWN	78	55	84	43	67	-4	0.65	-0.29	0.36	4.87	86	21.65	110	90	44	0	0	2	0		
OK OKLAHOMA CITY	84	70	106	63	77	-6	6.44	5.83	3.02	8.81	162	14.98	78	93	54	1	0	4	3		
OR TULSA	83	68	97	64	76	-7	0.51	-0.21	0.28	4.47	78	10.70	48	93	54	2	0	4	0		
OR ASTORIA	72	50	86	47	61	2	0.00	-0.28	0.00	1.66	57	44.02	125	94	51	0	0	0	0		
OR BURNS	92	48	94	38	70	4	0.00	-0.08	0.00	0.68	67	7.84	145	80	15	7	0	0	0		
OR MEDFORD	97	59	106	54	78	6	0.00	-0.08	0.00	0.22	33	14.31	154	75	24	6	0	0	0		
OR PENDELTON	93	58	100	50	75	2	0.00	-0.08	0.00	0.46	59	8.74	131	72	13	6	0	0	0		
OR PORTLAND	89	60	100	53	75	7	0.00	-0.14	0.00	0.62	36	31.18	164	73	32	4	0	0	0		
OR SALEM	88	55	99	49	72	6	0.00	-0.13	0.00	0.77	49	34.18	166	82	29	4	0	0	0		
PA ALLENTOWN	81	59	87	50	70	-4	3.00	2.08	2.25	8.50	157	28.68	126	90	46	0	0	4	2		
PA ERIE	77	60	86	52	69	-2	0.37	-0.40	0.26	8.78	159	25.49	128	85	45	0	0	2	0		
PA HARRISBURG	86	66	91	55	75	0	2.92	2.09	2.47	10.01	187	29.36	134	90	47	1	0	0	0		
PA PHILADELPHIA	83	67	89	64	75	0	1.10	0.03	0.77	6.46	104	23.92	97	85	42	0	0	4	1		
PA PITTSBURGH	80	58	84	47	69	-3	0.00	-0.85	0.00	8.58	162	26.72	130	86	40	0	0	0	0		
PA SCRANTON	79	58	84	50	68	-3	2.83	1.75	2.36	6.69	119	26.32	137	92	46	0	0	4	1		
RI PROVIDENCE	81	62	86	50	72	0	3.65	2.93	3.58	6.68	144	24.72	102	96	48	0	0	3	1		
SC CHARLESTON	89	73	91	69	81	-1	1.70	0.18	1.20	6.09	66	16.87	62	93	57	4	0	5	1		
SC COLUMBIA	90	71	96	68	81	0	0.27	-0.94	0.15	2.19	31	17.91	65	87	46	6	0	3	0		
SC FLORENCE	87	71	91	68	79	-2	0.00	-1.24	0.00	5.00	75	15.76	66	97	57	5	0	0	0		
SC GREENVILLE	87	68	93	66	77	-1	0.58	-0.51	0.55	4.59	68	29.67	102	87	44	3	0	2	1		
SD ABERDEEN	77	52	84	45	65	-7	0.03	-0.70	0.02	4.63	98	12.35	104	90	43	0	0	2	0		
SD HURON	79	53	87	45	66	-8	0.36	-0.27	0.36	2.72	60	9.66	78	89	40	0	0	1	0		
SD RAPID CITY	81	62	90	45	67	-5	0.00	-0.48	0.00	1.57	39	13.53	128	84	35	1	0	0	0		
SD SIOUX FALLS	78	54	84	43	66	-8	0.05	-0.56	0.05	1.77	39	9.58	74	92	40	0	0	1	0		
TN CHATTANOOGA	87	69	93	66	78	0	0.74	-0.38	0.69	4.26	78	29.12	97	85	43	3	0	2	1		
TN KNOXVILLE	87	67	93	63	77	1	0.00	-1.09	0.00	2.95	49	27.37	100	79	43	1	0	0	0		
TN MEMPHIS	89	72	92	69	80	-2	0.79	-0.06	0.50	10.97	213	34.06	117	82	46	3	0	2	1		
TN NASHVILLE	86	68	90	64	77	-3	0.35	-0.58	0.21	3.89	75	23.62	88	85	50	1	0	2	0		
TX ABILENE	93	75	104	72	84	0	0.11	-0.36	0.11	2.94	79	9.43	77	77	42	5	0	1	0		
TX AMARILLO	84	65	102	60	75	-4	1.69	1.10	0.75	4.81	96	6.84	66	89	50	2	0	4	2		
TX AUSTIN	98	78	100	75	87	3	0.15	-0.34	0.15	4.58	99	9.52	53	88	39	7	0	1	0		
TX BEAUMONT	93	78	94	75	86	2	0.00	-1.22	0.00	10.25	130	17.47	61	99	64	7	0	0	0		
TX BROWNSVILLE	95	78	97	75	87	3	0.00	-0.43	0.00	0.59	17	1.38	12	90	46	7	0	0	0		
TX CORPUS CHRISTI	96	75	97	72	86	2	0.34	-0.20	0.34	1.46	33	4.31	30	95	50	7	0	1	0		
TX DEL RIO	98	77	103	74	88	4	0.06	-0.35	0.06	0.08	2	2.31	18	76	35	6	0	2	0		
TX EL PASO	96	73	100	68	84	2	0.39	0.05	0.16	2.75	213	3.53	121	65	22	7	0	3	0		
TX FORT WORTH	94	77	108	74	86	3	1.31	0.79	1.12	4.77	113	11.57	66	83	49	6	0	2	1		
TX GALVESTON	91	81	92	79	86	3	0.00	-0.89	0.00	1.34	22	6.06	30	82	61	7	0	0	0		
TX HOUSTON	96	74	96	71	85	2	0.00	-1.06	0.00	6.77	84	12.02	43	94	50	7	0	0	0		
TX LUBBOCK	89	68	100	66	79	-1	0.65	0.11	0.32	3.62	96	6.48	71	82	41	2	0	3	0		
TX MIDLAND	96	73	102	70	84	3	0.00	-0.36	0.00	1.89	92	3.42	52	74	32	7	0	0	0		
TX SAN ANGELO	98	73	103	69	85	3	0.00	-0.23	0.00	1.89	69	6.96	67	79	36	7	0	0	0		
TX SAN ANTONIO	98	76	100	73	87	2	0.00	-0.50	0.00	2.09	44	4.50	27	87	37	7	0	0	0		
TX VICTORIA	95	76	96	74	85	2	0.06	-0.92	0.05	6.60	103	9.94	45	95	49	7	0	2	0		
TX WACO	96	78	104	74	86	1	1.78	1.30	1.12	4.06	97	9.89	55	92	38	6	0	3	1		
TX WICHITA FALLS	96	74	110	68	85	1	0.03	-0.38	0.03	0.84	18	3.29	18	74	40	6	0	1	0		
UT CEDAR CITY	90	61	95	55	78	2	0.36	0.14	0.23	0.70	86	5.60	99	84	21	5	0	3	0		
UT SALT LAKE CITY	97	66	100	61	81	4	0.00	-0.19	0.00	0.13	10	11.02	116	59	16	7	0	0	0		
VT BURLINGTON	77	57	83	50	67	-3	0.77	-0.03	0.41	6.43	130	24.52	148	87	47	0	0	5	0		
VA NORFOLK	86	71	95	68	79	1	3.19	2.06	1.98	9.94	168	30.53	128	88	54	3	0	3	2		
VA RICHMOND	86	67	93	60	77	-1	2.64	1.51	1.81	6.35	112	20.93	93	90	49	3	0	3	1		
VA ROANOKE	85	65	90	57	75	-1	0.41	-0.45	0.34	9.19	193	28.47	134	83	42	1	0	4	0		
WA QUILLAYUTE	76	50	95	46	63	4	0.00	-0.59	0.00	2.28	54	49.88	90	93	49	1	0	0	0		
WA SEATTLE-TACOMA	81	57	89	53	69	4	0.00	-0.17	0.00	0.81	45	25.97	138	82	37	0	0	0	0		
WA SPOKANE	88	52	94	46	70	1	0.00	-0.16	0.00	1.46	94	11.93	130	79	17	2	0	0	0		
WA YAKIMA	93	55	98	49	74	4	0.00	-0.03	0.00	0.04	7	5.19	123	75	21	7	0	0	0		
WV BECKLEY	78	58	83	51	68	-2	0.38	-0.71	0.33	5.84	100	28.49	126	89	49	0	0	2	0		
WV CHARLESTON	83	60	88	53	72	-3	1.02	-0.11	0.74	5.96	105	30.14	133	94	44	0	0	2	1		
WV HUNTINGTON	85	63	90	56	74	0	0.24	-0.90	0.23	4.91	89	29.36	127	91	42	1	0	2	0		
WV PARKERSBURG	85	60	88	50	73	-2	0.00	-1.00	0.00	5.51	98	27.02	118	94	43	0	0	0	0		
WI GREEN BAY	76	55	80	46	65	-4	0.45	-0.24	0.37	6.69	143	15.63	110	81	47	0	0	3	0		
WI LACROSSE	79	60	86	54	70	-4	0.95	0.10	--	7.46	135	18.40	105	94	43	0	0	--	--		
WI MADISON	77	57	82	47	67	-5	1.36	0.48	0.63	9.79	182	19.55	120	90	44	0	0	5	1		
WI MILWAUKEE	78	60	85	51	69	-2	0.29	-0.48	0.16	5.31	113	13.81	82	87	48	0	0	3	0		
WI WAUSAU	73	55	81	48	64	-6	0.16	-0.69	0.09	9.19	164	17.70	112	91	47	0	0	4	0		
WY CASPER	85	50	92	46	68	-3	0.05	-0.25	0.05	0.92	46	5.43	69	81	25	1	0	1	0		
WY CHEYENNE	75	55	85	50	65	-3	1.11	0.64	0.91	3.28	111	9.11	106	90	46	0	0	3	1		
WY LANDER	87	55	92	52	71	0	0.02	-0.18	0.02	0.41	22	6.24	73	74	18	2	0	1	0		
WY SHERIDAN	84	49	92	44	66	-3	0.02	-0.20	0.02	1.33	50	8.39	91	83	24	1	0	1	0		
PR SAN JUAN	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Based on 1961-90 normals

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

# National Agricultural Summary

July 8 - 14, 1996

## HIGHLIGHTS

Hurricane Bertha's heavy rains and high winds knocked over and damaged crops along North Carolina's coast. Extended power outages soured tobacco in curing barns. Some damaged tobacco fields may require hand harvesting. Producers in Virginia removed debris and assessed flood damage produced by Bertha. Localized heavy rains in Alabama restored soil moisture and revived drought-stricken crops. Scattered showers across the eastern Corn Belt brought relief to drought-stressed crops and improved soil moisture conditions, but some dry pockets remained. Warm, dry weather stressed Illinois' corn and soybean fields that were planted late or planted in wet fields. Crop conditions

started to decline slightly in the Midwest, but cooler weather and spotty showers slowed the rate of decline. Late-week rain slowed wheat harvest in the central Great Plains, but brought cooler weather to relieve heat-stressed row crops. Hail and high winds in Nebraska caused green snap in some fields. Dry soils remained over the western Corn Belt and the Mountain States. Weeds and insect problems were prevalent in the Dakotas. Hot weather over most of the Southern States aided cotton development, and late week rains brought much needed moisture. Spring crops were stressed by high temperatures in the Pacific Northwest, with some insect problems.

**Wheat** harvested for the 19 major producing States was 64 percent (%) complete, up 7 percentage points from the week earlier and 4 points behind the 5-year average. Widespread showers over the central States slowed the wheat harvest. Wheat harvested in Ohio at 37% complete was up 27 points from the previous week and 17 points behind the average. A second week of favorable weather in Missouri allowed wheat producers to near completion of the harvest. Rains in Texas slowed wheat combines as producers approached the end of the harvest season.

**Spring wheat** headed was 64% complete, up 19 points from the previous week and 15 points below the average. Spring wheat condition was mostly good to fair. Spring wheat headed in Montana at 68% complete was up 10 points from the previous week, but 25 points behind the average. Cooler weather and lower humidity aided the crop in the Mountain States.

**Corn** was in mostly good to fair condition, with 11% of the acreage in the silking stage or beyond. Corn silking for the 17 major producing States was up 5 points from the previous week, but 13 points behind the average. The percentage of acreage silking in Illinois, at 6% complete, was 32 points behind the average. Sunny weather in Iowa speeded corn development so much that many fields have not been cultivated. Corn borer infestations remained a concern for producers in the Midwest. The average height of corn in Illinois was 48 inches, compared with the 5-year average height of 60 inches. Illinois corn producers sprayed for European corn borers. Hot, dry weather accelerated corn maturity in Texas wherever favorable soil moisture was available.

**Cotton** squaring was 89% complete, up 10 points from a week earlier and 10 points ahead of the average. Cotton condition was mostly good to fair for the 14 major producing States. Crop development was ahead of normal by 35 points

in Oklahoma due to hot weather. Cotton setting bolls was 42% complete, up 16 points from the previous week and 9 points ahead of the average. Across the Southern States, hot weather accelerated development. Producers in the Delta fertilized and irrigated fields, and treated fields for insects. Cotton setting bolls was up 10 points from last week in California, where fields were treated for weeds and insects. In Texas, rains helped some marginal cotton fields, with low insect problems reported. In the Texas High Plains, some fields were plowed under and replanted to alternative crops.

**Rice** headed in the five major producing States was 27% complete, up 15 points from the previous week. Beneficial rains aided rice growth, and rice condition was mostly good to excellent. Rice fields in the Delta were treated with fungicides for sheath blight and insecticides for water weevils. California rice fields were treated for broadleaf weeds. Rice producers in Texas drained a few early fields along the Upper Coast, in preparation for harvest.

**Sorghum** condition was mostly good to fair. Sorghum headed at 23% complete was 1 point behind the average. Lesser corn stalk borers were afflicting some Georgia fields. Condition improved significantly in New Mexico as a result of previous week's rains. Rain in Texas reduced heat stress in many sorghum fields.

**Soybeans** blooming was 18% complete, up 11 points from last week and 13 points below the average. Soybeans were in mostly good to fair condition. Blooming in Illinois, Indiana, Michigan, and Ohio was behind the average by over 20 points. Late-planted soybeans in the Corn Belt experienced slow germination and emergence problems due to stress from the continued dry weather. Producers sprayed herbicides to control weeds in the Midwest. Cultivation of soybean fields continued in the Delta. The average height of soybeans in Minnesota was 13 inches, 2 inches below the 5-year average.

# Crop Progress and Condition

Week Ending July 14, 1996

## Soybeans Percent Blooming

	Jul 14 1996	Prev Week	Prev Year	5-Yr Avg
AL	25	8	15	17
AR	23	13	11	17
GA	23	15	21	24
IL	13	4	14	42
IN	7	1	15	39
IA	20	5	26	36
KS	33	11	3	22
KY	13	7	20	21
LA	56	38	45	28
MI	0	0	16	22
MN	17	5	28	31
MS	71	53	49	25
MO	16	6	3	20
NE	10	0	5	26
NC	13	7	10	11
OH	10	0	19	46
SC	16	16	13	12
SD	18	3	13	28
TN	10	2	14	11
ALL	18	7	18	31

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

## Winter Wheat Percent Harvested

	Jul 14 1996	Prev Week	Prev Year	5-Yr Avg
AR	100	98	100	99
CA	98	95	92	89
CO	21	19	4	46
GA	100	99	100	100
ID	0	0	0	2
IL	82	66	92	85
IN	60	40	84	68
KS	89	79	75	89
MI	0	0	6	18
MO	94	70	87	80
MT	0	0	0	0
NE	26	12	24	45
NC	96	89	83	95
OH	37	10	59	54
OK	100	100	98	97
OR	5	2	1	5
SD	0	0	1	13
TX	97	90	91	94
WA	1	0	1	5
ALL	64	57	59	68

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

## Cotton Percent Squaring

	Jul 14 1996	Prev Week	Prev Year	5-Yr Avg
AL	91	86	95	87
AZ	98	97	98	98
AR	100	100	99	98
CA	95	90	71	85
GA	96	92	96	94
LA	100	99	100	96
MS	99	98	100	93
MO	99	92	96	93
NM	90	87	69	76
NC	73	61	62	71
OK	84	60	28	49
SC	91	90	83	87
TN	99	91	97	89
TX	80	62	74	64
ALL	89	79	83	79

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

## Cotton Percent Setting Bolls

	Jul 14 1996	Prev Week	Prev Year	5-Yr Avg
AL	43	16	36	31
AZ	70	66	52	70
AR	65	38	30	40
CA	20	10	4	16
GA	66	44	69	50
LA	67	36	84	65
MS	78	50	53	43
MO	42	24	28	23
NM	49	15	16	28
NC	37	20	23	34
OK	19	12	2	7
SC	34	24	33	40
TN	44	13	30	21
TX	25	17	27	25
ALL	42	26	36	33

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

## Barley Percent Headed

	Jul 14 1996	Prev Week	Prev Year	5-Yr Avg
ID	73	59	65	74
MN	66	57	83	93
MT	64	39	65	76
ND	62	38	43	78
SD	80	63	74	93
WA	89	69	99	98
ALL	67	46	60	80

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

## Sorghum Percent Headed

	Jul 14 1996	Prev Week	Prev Year	5-Yr Avg
AR	43	NA	29	34
CO	0	NA	0	2
IL	0	NA	1	10
KS	8	NA	0	3
LA	78	NA	56	61
MS	70	NA	53	50
MO	8	NA	8	13
NE	0	NA	0	2
NM	0	NA	0	0
OK	31	NA	5	9
SD	0	NA	1	1
TX	58	NA	77	68
ALL	23	NA	24	24

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

## Oats Percent Headed

	Jul 14 1996	Prev Week	Prev Year	5-Yr Avg
IA	99	95	99	97
MI	92	74	91	86
MN	95	87	92	95
NE	100	100	NA	NA
ND	54	24	33	73
OH	99	97	99	99
PA	95	87	86	35
SD	87	70	75	93
WI	80	63	93	85
ALL	85	72	81	86

These 9 States produced 56% of the 1995 oat crop.

## Peanuts Percent Pegging

	Jul 14 1996	Prev Week	Prev Year	5-Yr Avg
AL	71	61	55	56
FL	98	98	NA	NA
GA	84	68	86	81
NC	40	28	NA	NA
OK	88	72	38	39
SC	63	51	0	0
TX	50	39	NA	NA
VA	57	30	NA	NA
ALL	71	58	72	70

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

# Crop Progress and Condition

Week Ending July 14, 1996

Corn Percent Silking				
	Jul 14 1996	Prev Week	Prev Year	5-Yr Avg
CO	8	0	0	7
GA	96	95	99	97
IL	6	3	10	38
IN	3	1	11	26
IA	0	0	0	14
KS	54	20	16	43
KY	40	35	52	53
MI	0	0	1	8
MN	4	0	8	5
MO	47	26	21	38
NE	7	0	1	24
NC	86	66	89	83
OH	0	0	6	22
PA	15	5	13	8
SD	0	0	0	6
TX	82	65	78	74
WI	0	0	2	7
ALL	11	6	10	24

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

Soybeans Crop Condition by Percent					
	VP	P	F	G	EX
AL	0	3	33	56	8
AR	2	9	30	46	13
GA	4	9	38	47	2
IL	4	15	48	30	3
IN	5	18	41	34	2
IA	1	7	26	50	16
KS	1	2	14	68	15
KY	1	3	29	54	13
LA	0	6	39	47	8
MI	5	11	30	39	15
MN	1	5	35	52	7
MS	5	6	31	48	10
MO	1	8	38	46	7
NE	1	2	23	64	10
NC	0	9	19	63	9
OH	4	14	48	30	4
SC	2	7	24	53	14
SD	0	3	25	53	19
TN	1	4	22	54	19
ALL	2	9	34	46	9
Prev Wk	2	7	33	50	8
Prev Yr	1	9	35	46	9

Corn Crop Condition by Percent					
	VP	P	F	G	EX
CO	0	1	19	62	18
GA	4	23	30	39	4
IL	4	11	42	38	5
IN	4	15	40	39	2
IA	1	5	20	56	18
KS	0	1	13	68	18
KY	1	6	33	51	9
MI	4	11	31	40	14
MN	0	5	32	54	9
MO	0	8	24	51	17
NE	0	2	14	61	23
NC	2	11	23	49	15
OH	6	16	40	33	5
PA	2	5	21	52	20
SD	0	2	21	54	23
TX	24	15	20	18	23
WI	3	8	28	50	11
ALL	3	8	28	48	13
Prev Wk	2	8	29	48	13
Prev Yr	1	7	30	50	12

Rice Percent Headed				
	Jul 14 1996	Prev Week	Prev Year	5-Yr Avg
AR	20	0	2	6
CA	0	0	0	0
LA	47	33	49	52
MS	20	10	19	14
TX	71	48	59	47
ALL	27	12	18	19

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

Barley Crop Condition by Percent					
	VP	P	F	G	EX
ID	0	1	8	58	33
MN	1	6	33	53	7
MT	1	7	38	44	10
ND	0	4	23	61	12
SD	0	1	20	73	6
WA	3	9	35	39	14
ALL	1	5	26	54	14
Prev Wk	0	4	26	58	12
Prev Yr	NA	NA	NA	NA	NA

Oats Crop Condition by Percent					
	VP	P	F	G	EX
IA	1	3	24	61	11
MI	1	7	31	46	15
MN	1	3	29	63	4
NE	1	2	24	47	26
ND	0	6	33	56	5
OH	2	11	50	34	3
PA	0	3	24	57	16
SD	0	1	20	71	8
WI	2	15	19	50	14
ALL	1	6	26	57	10
Prev Wk	1	4	26	59	10
Prev Yr	NA	NA	NA	NA	NA

Spring Wheat Percent Headed				
	Jul 14 1996	Prev Week	Prev Year	5-Yr Avg
ID	83	64	68	75
MN	68	58	85	93
MT	71	46	69	76
ND	55	34	39	74
SD	87	78	77	94
ALL	64	45	57	79

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

Rice Crop Condition by Percent					
	VP	P	F	G	EX
AR	0	2	16	60	22
CA	0	0	5	85	10
LA	0	4	16	69	11
MS	2	6	22	61	9
TX	0	8	8	62	22
ALL	0	3	14	66	17
Prev Wk	0	3	17	61	19
Prev Yr	0	1	20	62	17

Peanuts Crop Condition by Percent					
	VP	P	F	G	EX
AL	0	3	35	62	0
FL	0	0	26	30	44
GA	1	6	37	50	6
NC	0	0	11	80	9
OK	0	9	40	47	4
SC	5	8	39	47	1
TX	3	15	49	29	4
VA	0	0	10	53	37
ALL	1	6	34	50	9
Prev Wk	2	8	37	48	5
Prev Yr	NA	NA	NA	NA	NA

# Crop Progress and Condition

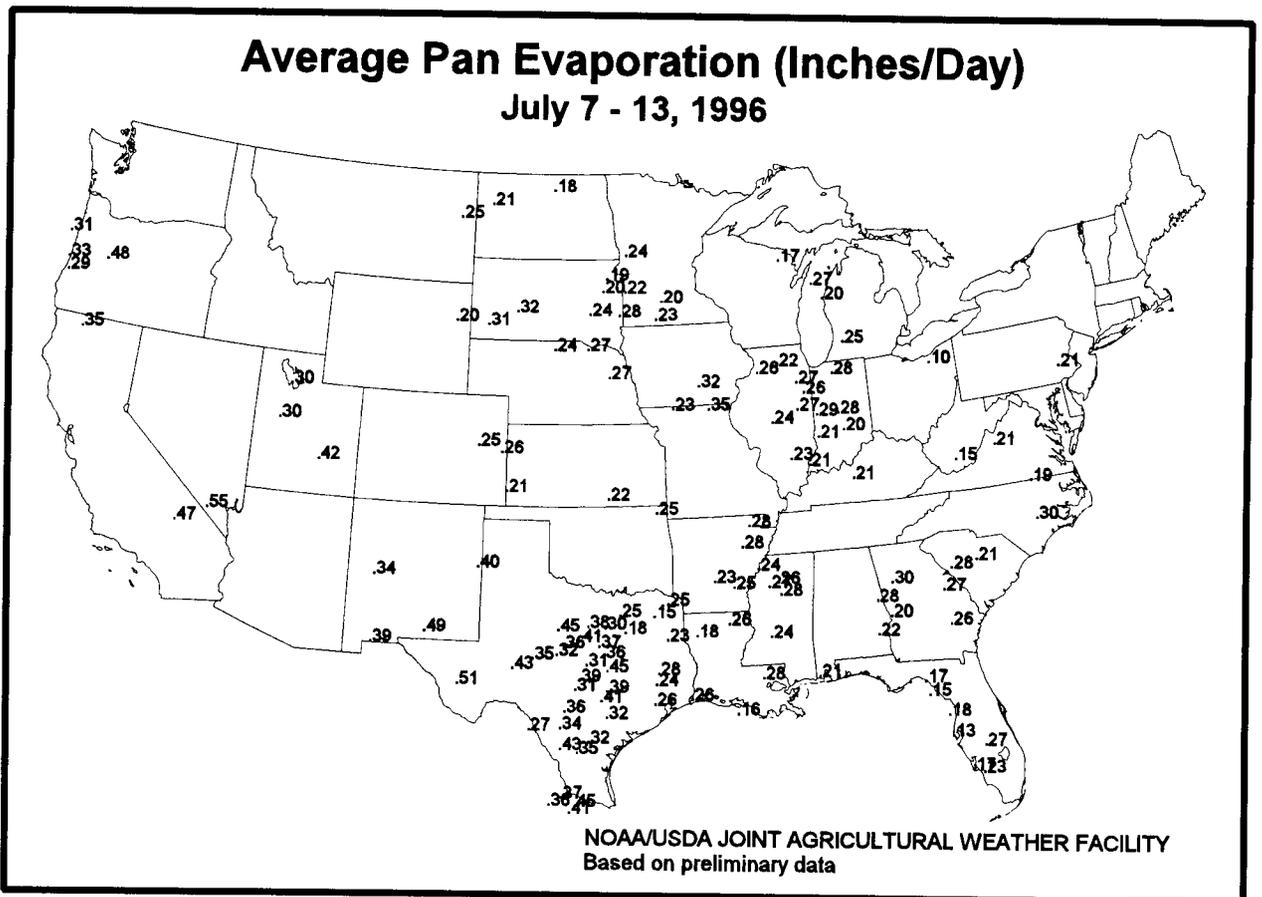
Week Ending July 14, 1996

Cotton Crop Condition by Percent					
	VP	P	F	G	EX
AL	1	4	31	58	6
AZ	1	4	22	46	27
AR	0	4	24	52	20
CA	0	0	0	50	50
GA	3	13	24	53	7
LA	0	4	48	31	17
MS	3	4	28	56	9
MO	0	5	29	62	4
NM	0	6	26	36	32
NC	0	3	17	65	15
OK	0	6	21	68	5
SC	6	5	35	48	6
TN	0	3	20	58	19
TX	10	25	28	27	10
ALL	5	13	26	41	15
Prev Wk	4	11	29	44	12
Prev Yr	2	7	33	49	9

Sorghum Crop Condition by Percent					
	VP	P	F	G	EX
AR	4	9	39	42	6
CO	0	4	27	63	6
IL	2	8	32	56	2
KS	1	2	23	63	11
LA	0	1	21	71	7
MS	1	4	28	64	3
MO	1	8	29	53	9
NE	2	3	22	61	12
NM	3	5	52	40	0
OK	0	2	9	88	1
SD	0	5	26	60	9
TX	12	14	32	30	12
ALL	4	6	27	53	10
Prev Wk	3	7	30	52	8
Prev Yr	1	6	31	53	9

Spring Wheat Crop Condition by Percent					
	VP	P	F	G	EX
ID	0	3	8	50	39
MN	3	10	32	48	7
MT	1	8	38	44	9
ND	1	5	25	61	8
SD	0	3	19	58	20
ALL	1	6	28	55	10
Prev Wk	1	5	27	56	11
Prev Yr	1	7	29	53	10

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



## State Agricultural Summaries

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

**ALABAMA:** Days suitable for fieldwork 5.0. Topsoil 5% very short, 30% short, 61% adequate, 4% surplus. Corn 95% silked, 94% 1995, 87% avg.; 36% dented, 41% 1995, 36% avg.; 3% very poor, 28% poor, 29% fair, 38% good, 2% excellent. Livestock 5% poor, 42% fair, 51% good, 2% excellent. Scattered showers provided relief to drought stressed crops, dry pockets remain in some localities.

**ALASKA:** Days available for making hay 5. Topsoil 35% short, 65% adequate. Subsoil 50%, 50% adequate. First crop hay harvest 55% complete, compared to 45% 1995. Crop growth was 10% slow, 55% moderate, 25% rapid. Barley was 10% in dough, compared to 20% in 1995. Oats, 60% in boot, 40% headed, compared to 80% headed, 20% in dough the 1995. Condition of barley 10% poor, 50% fair, 40% good. Commercial potato 20% poor, 35% fair, 30% good, 15% excellent. Potato height was 9 in., 3 in. less than 1995.

**ARIZONA:** Scattered rain continued to green pastures. Cotton setting bolls 70%, 52% 1995, 70% avg. Small grain harvest 100%, 98% 1995, 99% avg. Alfalfa harvest 51% active, 49% not being harvested. Condition 2% poor, 5% fair, 54% good, 39% excellent. Declining volume watermelon, cantaloupe, honeydew, specialty melons shipped from central areas. Central vegetable growers also harvested sweet corn carrots, green onions. Eastern growers continued to harvest dry onions, tomatoes. In central areas, decreasing amounts of grapefruit, Valencia oranges available. Table grape harvest complete western area, progressing in central vineyards.

**ARKANSAS:** Days suitable for fieldwork 6. Soil moisture 56% short, 43% adequate, 1% surplus. Main farm activities: Planting soybeans, cultivating, irrigating, fertilizing cotton, scouting rice fields, irrigating corn, sorghum, harvesting wheat, hay. Soybean cultivation continued in several counties. Faulkner county reported some soybean fields were treated for garden web worms. Some soybean fields were also being replanted due to lose stands from seeding disease caused by hot weather in Faulkner county. Cotton cultivation, irrigation, fertilization were reported by many counties. Cotton was treated for worms, aphids, plant bugs in several counties. Rice fields were being treated for sheath blight in many counties. Rice was also being treated for water weevils in Clay county. Fertilization of rice fields was reported by several counties. Corn, sorghum irrigation continued in numerous counties. Sorghum was treated for bollworms in Lafayette county. Wheat harvest was completed. Blueberry harvest was winding down in Benton county. Blackberry, blueberry harvests ended in White county. Tomato harvest concluded in Bradley county, continued in Cleburne county. Faulkner county reported peaches were harvested. Watermelon harvest was in full swing in Drew county. Disease continued to be a problem for horticulture producers in Van Buren county. Livestock good condition statewide. Hay harvest continued.

**CALIFORNIA:** Field activities progressed normally under hot, dry conditions in most areas. Grain harvest of wheat, barley, oats was virtually complete, except at higher elevations. Small grain stubble was baled for straw or burned. Second crop planting of corn, other row crops was winding down. Cotton was treated for aphids, lygus, mites, weeds. Most fields were blooming, boll development was underway in central, southern counties. Rice fields were sprayed for broadleaf weeds. Sugar beet harvest was in full swing in the San Joaquin Valley, nearing completion in the Imperial Valley. New crop sugar beets were treated for mildew, worms. Garbanzo bean harvest continued in the San Joaquin Valley. Black eye beans were blooming, setting pods, drying for harvest in the central, southern San Joaquin Valley. Some fields were sprayed for mites. Safflower was blooming, heading in central, northern counties; drying for harvest in southern counties. Some fields were

treated for lygus. Corn was harvested for silage in the San Joaquin Valley. Sunflowers were blooming in the Sacramento Valley. Seed alfalfa was hand weeded, sprayed for lygus, mites. Alfalfa, sudan grass were cut for hay or green chopped. Normal cultural practices such as disking, mowing, spraying, irrigating, cultivating continued in vineyards, orchards. Table grape harvest was gaining momentum in the central valley. Perlettes, Flame Seedless, Superior Seedless were the primary varieties harvested. Picking of Thompson Seedless was underway in Kern County. Harvest of nectarines, plums, freestone peaches was active. Some growers observed split pits in peaches, nectarines, caused by temperature fluctuations during development. Otherwise, fruit quality was good. Cling peach harvest gained momentum. Apple harvest was underway in the southern San Joaquin Valley. Gala, Golden Delicious variety apples were picked. Almond crop was progressing normally. Some were being sprayed for mites, peach twig borer, navel orange worm. Walnuts were sprayed for codling moth, mites. A few Red Blush, Juno variety pears were harvested in the Sacramento Valley. Bartlett pears were nearly mature. Valencia orange harvest continued at a slow pace. Lemon, grapefruit harvesting continued. Broccoli, cauliflower were harvested in Monterey, San Luis Obispo counties. Garlic was harvested in Kings County. Fresh market tomato harvest continued in the San Joaquin Valley. In northern areas, the cool spring delayed the harvest of processing tomatoes by a week. Central, southern areas processing tomato harvest activities increased. Harvest of red, yellow onions was winding down in the San Joaquin Valley. Plastic was removed in Fresno County's strawberry fields in preparation for planting. Bell pepper harvesting continued in the San Joaquin Valley. Cantaloupe, honeydew melons were harvested. Squash harvesting continued in Kings County. Ground preparation for the fall crop started in Imperial County. Harvesting of potatoes continued in central, southern areas. Other crops harvested included: parsley, eggplant, green onions, carrots, sweet corn. Hot, dry weather continued to cause lower rangelands to deteriorate, increased fire hazards. Some cattle herds were thinned due to reduced feed quality, lack of available water. Livestock movement was slow to moderate. Supplemental feeding was increasing. Cattle, sheep were in good condition.

**COLORADO:** Days suitable for fieldwork 4.9. Topsoil 5% very short, 24% short, 67% adequate, 4% surplus. Subsoil 8% very short, 34% short, 56% adequate, 2% surplus. Spring barley 65% turning color, 9% 1995, 27% avg.; 3% harvested, 0% 1995, 1% avg.; 6% poor, 16% fair, 60% good, 18% excellent. Oats 92% headed, 70% 1995, 80% avg.; 30% turning color, 19% 1995, 38% avg.; 4% harvested, 0% 1995, 5% avg.; 9% poor, 22% fair, 56% good, 13% excellent. Dry onions 6% fair, 64% good, 30% excellent. Spring wheat 95% headed, 71% 1995, 74% avg.; 48% turning color, 1% 1995, 10% avg.; 1% very poor, 6% poor, 19% fair, 61% good, 13% excellent. Sorghum 99% emerged, 88% 1995, 91% avg. Winter wheat 99% turning color, 80% 1995, 91% avg.; 75% ripe, 41% 1995, 77% avg.; 7% very poor, 10% poor, 25% fair, 45% good, 13% excellent. Sugar beets 1% very poor, 4% poor, 32% fair, 47% good, 16% excellent. Summer potatoes 4% poor, 10% fair, 58% good, 28% excellent. Fall potatoes 5% poor, 18% fair, 67% good, 10% excellent. Dry beans 11% flowered, 0% 1995, 0% avg.; 8% poor, 13% fair, 56% good, 23% excellent. Alfalfa hay 97% 1st cutting, 84% 1995, 92% avg.; 24% 2nd cutting, 9% 1995, 26% avg.; 3% poor, 17% fair, 64% good, 16% excellent.

**DELAWARE:** Days suitable for fieldwork 5.3. Topsoil 10% short, 53% adequate, 37% surplus. Subsoil 3% short, 64% adequate, 33% surplus. Winter wheat 91% harvested, 89% 1995, 90% avg. Corn 2% poor, 23% fair, 56% good, 19% excellent; 34% silked, 39% 1995, 35% avg.; 5% dough, 1% 1995, 1% avg. Sorghum 15% fair, 85% good; 10% headed, 0% 1995, 1% avg. Soybeans 3% poor, 21% fair, 68% good,

8% excellent; 90% planted, 91% 1995, 93% avg.; 6% bloomed, 8% 1995, 8% avg. Sweet corn 9% harvested, 14% 1995, 16% avg. Potatoes 16% harvested, 19% 1995, 12% avg. Apples 4% fair, 96% good. Peaches 7% fair, 93% good; 7% harvested, 9% 1995, 12% avg. Alfalfa hay 75% 2nd cutting, 89% 1995, 84% avg.; 10% 3rd cutting, 6% 1995, 4% avg. Other hay 57% 2nd cutting, 76% 1995, 47% avg. Hay supplies 3% very short, 34% short, 59% adequate, 4% surplus.

**FLORIDA:** Hot temperatures, scattered afternoon showers most areas: very welcomed in most Panhandle, north-central localities. Topsoil 2% very short, 77% adequate, 21% surplus. Subsoil 1% very short, 4% short, 75% adequate, 20% surplus. Rainfall boosted peanut growth; peanut 74% good to excellent, 26% fair. Most corn, cotton, soybean condition improved due to needed rain. Some corn in drier localities to have yield reductions, some may be abandoned. Haymaking active between showers. Tobacco harvesting continued, markets to open next 23rd. Harvest of summer vegetables for local markets active. Most producers delayed field preparations, fall crop plantings until threat of Hurricane Bertha passed. Quincy area tomato growers to begin transplanting fall crop fields over the next 7 to 10 days. Most citrus very good condition. Moisture adequate. New crop fruit very good progress. Valencia harvest all but over. Grapefruit harvest is over. Caretakers cutting cover crops, spraying, fertilizing, herbiciding. Pasture feed fair 10%, good 75%, excellent 15%. Condition of cattle herds fair 10%, good 80%, excellent 10%.

**GEORGIA:** Days suitable for fieldwork 6.0. Soil moisture 27% very short, 34% short, 38% adequate, 1% surplus. Corn 81% dough, 91% 1995, 85% avg.; 50% dent, 64% 1995, 58% avg.; 5% mature, 18% 1995, 15% avg. Hay 5% very poor, 23% poor, 41% fair, 30% good, 1% excellent. Peanuts 98% blooming, 98% 1995, 97% avg. Sorghum 4% very poor, 13% poor, 44% fair, 38% good, 1% excellent; 97% planted, 96% 1995, 97% avg. Soybeans 99% planted, 100% 1995, 99% avg.; 6% setting pods, 4% 1995, 5% avg. Tobacco 5% poor, 29% fair, 57% good, 9% excellent; 31% harvested, 38% 1995, 32% avg. Watermelons 8% very poor, 18% poor, 37% fair, 31% good, 6% excellent; 74% harvested, 84% 1995, 79% avg. Apples 4% very poor, 2% poor, 6% fair, 88% good. Peaches 93% very poor, 4% poor, 1% fair, 2% good; 83% harvested, 84% 1995, 82% avg. Pecans 4% very poor, 12% poor, 37% fair, 39% good, 8% excellent. Scattered showers in the southern half, Hurricane Bertha in extreme southeast improved soil moisture. Until weekend, north only widely scattered showers, rain badly needed. Overall crop conditions improved slightly. Lesser corn stalk borers hurting soybeans, sorghum stands. Budworms beginning in cotton fields. Activities: Cutting, baling hay, mowing, fertilizing pastures, controlling weeds, insects in cotton, applying cotton growth regulators, spraying fungicides on peanut fields, pecan groves; harvesting tobacco, vegetables.

**HAWAII:** Unusually wet summer slowed farming windward areas. Record-tying heat leeward areas. Crop progress, condition varies. Papaya, banana production good progress; production higher. Watermelon harvesting active. Head cabbage production steady; crop condition fair to good. Tomato production light. Cucumber production light. Sweet corn decreasing.

**IDAHO:** Days suitable for fieldwork 6.9. Spring planted, dryland crops in northern areas under severe stress due to lack of rain. Rodents damaging potatoes, small grains in south central areas. Topsoil 1% very short, 32% short, 64% adequate, 3% surplus. Potatoes 12 in. high 82%, 71% 1995, 83% avg. Potatoes closing middles 57%, 33% 1995, 44% avg. Potato 7% fair, 66% good, 27% excellent. Winter wheat 2% poor, 10% fair, 49% good, 39% excellent; turning color 65%, 39% 1995, 49% avg. Spring wheat booting 98%, 93% 1995, 91% avg.; turning color 16%, 10% 1995, 16% avg. Barley booting 94%, 89% 1995, 90% avg.; turning color 16%, 15% 1995, 19% avg. Alfalfa hay harvested (1st cutting) 95%, 94% 1995, 95% avg.; 2nd cutting 17%, 13% 1995, 15% average. Cherries harvested 74%, 91% 1995, 85% avg. Pasture feed, range 18% fair, 57% good, 25% excellent. Irrigation water 1% fair, 42% good, 57% excellent. Activities: Irrigating, inspecting, spraying potatoes for late blight, harvesting alfalfa hay, preparing for grain harvest.

**ILLINOIS:** Days suitable for fieldwork 6.7. Topsoil 22% very short, 53% short, 24% adequate, 1% surplus. Last week warm, dry weather started to cause heat stress to corn, soybeans, especially those planted late or in wet fields. However, rains this weekend provided temporary relief. Soybean planting is now virtually complete. Spraying for the European corn borer was reported in the northern districts. Spraying soybeans for weeds was reported throughout the State. There have been scattered reports of potato Leafhoppers in alfalfa. Activities included spraying chemicals, cultivating, mowing, caring for livestock. Corn height 48 in, 50 in. 1995, 60 in. avg. Soybeans 100% planted 100% 1995, 100% avg.; 1% setting pods, 1% 1995, 12% avg. Sorghum 100% planted, 100% 1995, 100% avg. Winter wheat 94% ripe, 99% 1995, 100% avg. Oats 98% headed, 100% 1995, 100% avg.; 83% filled, 83% 1995, 92% avg.; 42% turning yellow, 51% 1995, 73% avg.; 6% ripe, 9% 1995, 44% avg.; 4% poor, 33% fair, 56% good, 7% excellent. Alfalfa 98% first cutting, 100% 1995, 100% avg.; 37% second cutting, 43% 1995, 60% avg.; 1% very poor, 11% poor, 42% fair, 40% good, 6% excellent. Red clover 95% cut, 92% 1995, 94% avg.

**INDIANA:** Days suitable for fieldwork 6.6. Topsoil 26% very short, 44% short, 27% adequate, 3% surplus. Subsoil 5% very short, 33% short, 58% adequate, 4% surplus. Dry weather has placed stress on the major crops. Late planted soybeans are slow to germinate and emerge with the lack of precipitation. Some areas finally received late weekend showers. Corn borer problems, some fields. Winter wheat harvest 11% complete north, 45% complete central, 97% complete south. Head scab problems, some fields. Second cutting of alfalfa hay 23% complete, 42% 1995, 50% avg. Farmers had a good week for baling hay, straw. Activities: Repair of spring tillage, planting equipment, spraying, cultivating corn, mowing fence rows, care of livestock.

**IOWA:** Days suitable for field work 6.6. Topsoil very short 8%, short 39%, adequate 51%, surplus 2%. Subsoil very short 1%, short 18%, adequate 78%, surplus 3%. State's recent weather has been very suitable for field crop growth. Abundant sunny days helped corn progress so fast that a good percentage of the fields will not get cultivated the first time. Several reporters mentioned corn borer activity in most portions of the State. All districts would like to see some rainfall. Corn cultivated 1st time 91%, 88% 1995, 86% avg.; tasseled 2%, 2% 1995, 26% avg.; tallest height of corn 62 inches; average height of corn 47 inches. Oats turning color 55%, 65% 1995, 74% avg. Alfalfa hay 1st harvest 99%, 100% 1995, 96% avg.; 2nd harvest 15%, 22% 1995, 30% avg.; clover hay 1st harvest 85%, 87% 1995, 88% avg.; hay 1% very poor, 9% poor, 30% fair, 53% good, 7% excellent. Winter wheat harvested 38%, 42% 1995, 40% avg.; 3% very poor, 23% poor, 41% fair, 31% good, 2% excellent. State's livestock are thankful for the sunny, cooler weather. Flies are becoming a problem in the southern tier of counties and the pink eye that comes with them. Pastures need some rain.

**KANSAS:** Days suitable for fieldwork 3.7. Topsoil 2% very short, 20% short, 73% adequate, 5% surplus. Subsoil 5% very short, 22% short, 69% adequate, 4% surplus. Wheat harvest was slowed by widespread rain. No district averaged more than 4.7 days suitable for fieldwork. Weeds continue to be a problem in many areas. Soybean planting is complete. Cooler temperatures combined with rain provided relief to weather-stressed fall crops. Feed grain supplies are 26% short, hay 17% short. Alfalfa cut the second time 81% complete, 69% 1995, 75% avg. Alfalfa cut the third time 6% complete, 3% 1995, 8% avg. Activities: Harvesting wheat, baling brome and alfalfa, tilling wheat stubble, fall crop weed control.

**KENTUCKY:** Days suitable for fieldwork 5.6. Topsoil 8% very short, 45% short, 46% adequate, 1% surplus. Subsoil 7% very short, 27% short, 63% adequate, 3% surplus. Black shank, blue mold continue to be active in tobacco. Tobacco 3% very poor, 10% poor, 43% fair, 38% good, 6% excellent. Wheat harvest 98% complete. Wheat yields better than expected. Corn mostly in good condition. Double crop soybean

planting finishing up. Hay crops 1% very poor, 9% poor, 40% fair, 43% good, 7% excellent. Hay baling remains active. Pasture feed 1% very poor, 9% poor, 47% fair, 37% good, 6% excellent. Expecting good apple crop.

**LOUISIANA:** Days suitable for fieldwork 5.7. Soil moisture 4% very short, 32% short, 56% adequate, 8% surplus. Corn 5% very poor, 5% poor, 16% fair, 66% good, 8% excellent; 94% dough, 89% 1995, 84% avg.; 18% mature, 23% 1995, 20% avg.; 1% harvested, 0% 1995, 0% avg. A few corn farmers began harvesting. Hay 97% first cutting, 99% 1995, 91% avg.; 21% second cutting, 20% 1995, 9% avg. Hay harvest, aided by dry conditions, proceeded quickly. Peaches 66% harvested, 55% 1995, 71% avg. Rice 3% ripe, 8% 1995, 5% avg.; 0% harvested, 2% 1995, 1% avg. Rice growers applied fungicides to control sheath blight. Sorghum 16% turning, 9% 1995, 7% avg. Soybeans 100% planted, 100% 1995, 98% avg.; 99% emerged, 99% 1995, 96% avg.; 29% setting pods, 20% 1995, 9% avg. Soybean farmers were scouting their fields for insects and disease. Sugarcane 2% very poor, 5% poor, 28% fair, 47% good, 18% excellent. Sugarcane growth continued to be rapid, farmers were preparing for planting. Sweet potatoes 98% planted, 99% 1995, 95% avg. Sweet potato growers sprayed for cucumber beetles. Livestock 6% poor, 37% fair, 52% good, 5% excellent. Cattlemen were marketing cull cattle, working young calves. Broiler producers suffered substantial losses due to hot weather. Vegetables 2% very poor, 13% poor, 34% fair, 48% good, 3% excellent. Vegetable producers were harvesting tomatoes, squash, and cantaloupes. Pasture feed 11% poor, 37% fair, 47% good, 5% excellent. Lack of soil moisture hindered pasture growth.

**MARYLAND:** Days suitable for fieldwork 5.1. Topsoil 5% short, 58% adequate, 37% surplus. Subsoil 4% short, 72% adequate, 24% surplus. Winter wheat 84% harvested, 70% 1995; 82% avg. Barley 100% harvested 97% 1995, 97% avg. Rye 72% harvested, 47% 1995, 71% avg. Corn 4% poor, 15% fair, 47% good, 34% excellent; 27% silked, 32% 1995 30% avg.; 6% dough, 0% 1995, 2% avg. Soybeans 4% poor, 14% fair, 55% good, 27% excellent; 90% planted, 91% 1995, 91% avg. Tobacco 3% poor, 12% fair, 73% good, 12% excellent; 7% bloomed, 12% 1995, 7% avg. Sorghum 2% poor, 11% fair, 67% good, 20% excellent. Sweet corn 17% harvested, 14% 1995, 18% avg. Potatoes 15% harvested, 36% 1995, 24% avg. Cantaloupe 15% harvested, 12% 1995, 15% avg. Tomatoes 6% harvested, 7% 1995, 11% avg. Watermelon 7% harvest, 5% 1995, 6% avg. Alfalfa hay 61% 2nd cutting, 65% 1995, 78% avg.; 16% 3rd cutting, 5% 1995, 8% avg. Other hay 35% second cutting, 38% 1995, 40% avg. Hay supplies 6% very short, 6% short, 79% adequate, 9% surplus. Apples 5% poor, 13% fair, 72% good, 10% excellent. Peaches 1% very poor, 5% poor, 10% fair, 74% good, 10% excellent; 7% harvested, 5% 1995, 8% avg. Activities: Planting of soybeans nearing completion, cutting hay, harvesting wheat, vegetables.

**MICHIGAN:** Days suitable for fieldwork 6.5. There were reports of frost in the lower muck lands of the southwest district. Hailstorms in the northwest district of the lower peninsula caused damage in many field crops. Topsoil 15% very short, 43% short, 41% adequate, 1% surplus. Subsoil 9% very short, 30% short, 59% adequate, 2% surplus. Corn height 31 in., 44 in. 1995, 46 in. avg.; 4% very poor, 11% poor, 31% fair, 40% good, 14% excellent. Dry beans emerged 97%, 100% 1995, 98% avg. Soybeans emerged 99%, 100% 1995, 100% avg.; 5% very poor, 11% poor, 30% fair, 39% good, 15% excellent. All hay first cutting 95%, 98% 1995, 95% avg.; 4% very poor, 8% poor, 28% fair, 49% good, 11% excellent. Oats headed 92%, 91% 1995, 86% avg.; 1% very poor, 7% poor, 31% fair, 46% good, 15% excellent. Wheat turning yellow 80%, 92% 1995, 87% avg. Pasture feed 1% very poor, 11% poor, 37% fair, 41% good, 10% excellent. Strawberries harvested 100%, 96% 1995, 95% avg.

**MINNESOTA:** Days suitable for fieldwork 5.7. Topsoil 5% very short, 28% short, 64% adequate, 3% surplus. Corn 96% cultivated, 97% 1995, 88% avg.; 45 in. height, 50 in. 1995, 47 in. avg.; 4% tasseled, 8% 1995, 5% avg. Soybeans 84% cultivated, 79% 1995, 77% avg.; 13 in. height, 16 in. 1995, 15 in. avg.; 17% blooming, 28% 1995, 31% avg. Spring

wheat 68% heading, 85% 1995, 93% avg. Oats 95% heading, 92% 1995, 95% avg. Barley 66% heading, 83% 1995, 93% avg. Pasture feed 11% poor, 36% fair, 48% good, 5% excellent. Oats 1% very poor, 3% poor, 29% fair, 63% good, 4% excellent. Barley 1% very poor, 6% poor, 33% fair, 53% good, 7% excellent. Corn 5% poor, 32% fair, 54% good, 9% excellent. Spring wheat 3% very poor, 10% poor, 32% fair, 48% good, 7% excellent. Dry beans 1% very poor, 7% poor, 43% fair, 43% good, 6% excellent. Soybeans 1% very poor, 5% poor, 35% fair, 52% good, 7% excellent. Sunflowers 8% poor, 31% fair, 44% good, 17% excellent.

**MISSISSIPPI:** Days suitable for fieldwork 5.9. Soil moisture 17% very short, 38% short, 42% adequate, 3% surplus. Corn 96% silked, 96% 1995, 88% avg.; dough 69%, 68% 1995, 55% avg.; dent 33%, 23% 1995, 21% avg.; 14% very poor, 10% poor, 34% fair, 35% good, 7% excellent. Soybeans 100% emerged, 99% 1995, 98% avg.; 71% blooming, 53% 1995, 49% avg.; 34% setting pods, 00% 1995, 12% avg.; 5% very poor, 6% poor, 31% fair, 48% good, 10% excellent. Peaches 80% harvested, 44% 1995, 68% avg.; 50% very poor, 43% poor, 3% fair, 4% good. Sweet potatoes 95% planted, 100% 1995, 98% avg.; 3% poor, 20% fair, 70% good, 7% excellent. Watermelons 51% harvested, 55% 1995, 36% avg.; 10% poor, 37% fair, 45% good, 8% excellent. Blueberries 12% very poor, 33% poor, 35% fair, 17% good, 3% excellent. Cattle 9% very poor, 17% poor, 37% fair, 31% good, 6% excellent. Pasture feed 1% very poor, 10% poor, 33% fair, 48% good, 8% excellent. Main farming activities: Irrigating fields, controlling insects. Rain was a welcome sight in the areas that received it, still needed for crops to reach maximum yield potential.

**MISSOURI:** Days suitable for fieldwork 5.9. Topsoil 6% very short, 34% short, 57% adequate, 3% surplus. Second consecutive week of mostly dry weather enabled farmers to move toward completion of the wheat harvest. Reporters across the State indicate the major row crops in mostly fair to good condition. Ninety-five percent of the double-crop beans are in the ground; virtually all of the double-crop beans have been planted across the southern third, 90% central third, 75% northern third. Nearly all of the corn crop is silking in the southwest, southeast, about 50% central third, 10% northeast. Bootheel leads the State with 13% of sorghum crop heading. Virtually all of the wheat crop has been harvested across the southern third of the State, followed by 95% central third, 90% north-central to northeast, 76% northwest. Oats harvested 37%, 41% 1995, 49% avg. Alfalfa second cutting 64%, 43% 1995, 60% avg. Other hay cut 81%, 74% 1995, 80% avg. Pasture feed, range 2% very poor, 15% poor, 47% fair, 35% good, 1% excellent.

**MONTANA:** Days suitable for fieldwork 6.8. Topsoil 6% very short, 47% short, 46% adequate, 1% surplus. Subsoil 8% very short, 40% short, 51% adequate, 1% surplus. Warm dry conditions continued to help with the hay harvest. Reports continue to stress the need for rain. Winter wheat 38% turning, 32% 1995, 48% avg.; 0% ripe, 0% 1995, 1% avg. Oats 2% very poor, 11% poor, 35% fair, 45% good, 7% excellent; 96% boot, 93% 1995, 98% avg.; 65% headed, 68% 1995, 77% avg.; 5% turning, 4% 1995, 7% avg. First cutting alfalfa 80% complete, 56% 1995, 67% avg. First cutting other hay 56% complete, 49% 1995, 53% avg.

**NEBRASKA:** Days suitable for fieldwork 6.0. Topsoil 2% very short, 41% short, 56% adequate, 1% surplus. Subsoil 1% very short, 28% short, 69% adequate, 2% surplus. Wheat 98% turning color, 98% 1995, 99% avg.; 49% ripe, 52% 1995, 75% avg.; 26% harvested, 24% 1995, 45% avg. Cool, damp weather is resulting in extra weed growth which is becoming a problem in some fields. Corn 7% silked, 1% 1995, 24% avg. Areas hit by storms reported some green snap from high winds, some extensive hail damage. Soybeans 10% blooming, 5% 1995, 26% avg.; cultivation activities continued last week. Alfalfa 4% poor, 34% fair, 51% good, 11% excellent; 46% 2nd cutting, 34% 1995, 41% avg. Wild hay 3% poor, 19% fair, 67% good, and 11% excellent. Pasture feed, range 2% poor, 33% fair, 57% good, 8% excellent; some reports indicated that dry conditions were beginning to affect pasture conditions; rain is needed to maintain growth. Activities, spraying herbicides, cultivating row crops, irrigating crops, cutting alfalfa.

**NEVADA:** Grain acreage continued to turn color in Lyon County, with most of the fall seeded acreage turned. Spring seeded grains remained mostly in the dough stage across northern areas. Winter wheat, spring wheat, barley rated fair to good in Churchill County, good to excellent in other major producing areas. Smut, aphids, hail, wind damaged grain crops in Churchill County. Grain harvest was complete extreme south, second crop Sudan was being planted. Grain silage harvest continued northwest. Thundershowers damaged second cutting alfalfa in Fish Lake Valley, while second cutting was delayed by rains further north. Harvest of grass hay was disrupted by rains across the north. Potato bloom was advancing. Onions were in good to excellent condition. Irrigation has ceased on most garlic acreage and growers were preparing to top the plants. Range livestock were being supplemented with salt and mineral. Main farm, ranch activities: Haying, irrigating, spraying for weeds and insects, planting Sudan grass.

**NEW ENGLAND:** Days suitable for fieldwork 4.7. Topsoil 3% short, 48% adequate, 49% surplus. Subsoil 4% short, 54% adequate, 42% surplus. Pasture feed 1% poor, 22% fair, 71% good, 6% excellent. Maine potatoes condition excellent/good. Massachusetts potatoes condition good. Rhode Island potatoes condition good. Maine oats condition excellent/good. Maine barley condition excellent/good. Field corn 100% planted, 100% 1995, 100% avg.; 100% emerged, 100% 1995, 100% avg.; good. Sweet corn 100% planted, 100% 1995, 100% avg.; 99% emerged, 100% 1995, 100% avg.; <5% harvested, <5% 1995, <5% avg.; good. Shade tobacco 100% planted, 100% 1995, <5% harvested, 10% 1995, condition good/excellent. Outdoor tobacco 99% planted, 100% 1995; good. First hay 80% harvested, 95% 1995, 90% avg.; good/fair. Second hay 15% harvested, 15% 1995, 15% avg., condition good/excellent. Apples, peaches, pears set and size average, condition good. Strawberries 85% harvested, 90% 1995, set and size average, condition good. Cranberries at petal fall, size and set average, condition good. Highbush blueberries 5% harvested, <5% 1995, set and size average, condition good. Wild blueberries set and size above average, condition good. Warmer weather during the week has helped to ripen some crops, while tropical storm Bertha brought lots of extra rain to the region on Saturday. Farmers are continuing to harvest first cut hay, beginning their harvest of second cut hay. Sweet corn harvest has begun in southern New England. Major farm activities: Picking strawberries, cultivating row crops, top dressing fields that need nitrogen fertilizer; harvesting began for raspberries, blueberries in southern areas, harvesting continues for lettuce, summer squash, peas, zucchini, cabbage, tobacco, cucumbers. Orchardists are monitoring crop development, pest pressure and are spraying if needed.

**NEW JERSEY:** Days suitable for fieldwork 5. Topsoil adequate to surplus. Drier weather needed in some areas. Farmers are busy harvesting, cultivating, spraying, fertilizing. Light supply of cabbage, cantaloupes, watermelons, eggplant, okras, tomatoes. Moderate supply of peppers (all types), herbs, squash, leeks, greens, beets, turnips available. Good supply of beans, cucumbers and sweet corn also available. Blueberry harvest in just past peak stage. Good volume of blueberries should be available for next 2-3 weeks. Cranberries in full bloom. Peach harvest gradually increasing. Wheat combining very active as weather permits. Hay making active. Pasture feed very good.

**NEW MEXICO:** Days suitable for fieldwork 5.7. Soil moisture 15% very short, 57% short, 28% adequate. Tropical moisture fueled scattered afternoon, evening thunderstorms with all weather stations reporting some measurable precipitation. Corn 1% poor, 12% fair, 71% good, 16% excellent. Cotton 6% poor, 26% fair, 36% good, 32% excellent; squaring 90%, 69% 1995, 76% avg. Sorghum improved as showers continued across the State; 3% very poor, 5% poor, 52% fair, 40% good. Alfalfa 7% poor, 22% fair, 64% good, 7% excellent; second cutting 86% complete, third cutting 53% complete. Chile 2% poor, 30% fair, 48% good, 20% excellent. Onion harvest was slowed due to rain with 66% completed; 9% fair, 58% good, 33% excellent. Pecans 25% fair, 55% good, 20% excellent. Wheat harvest 94% complete, 83% 1995, 94% avg. Cattle 7% very poor, 24% poor, 45% fair, 24% good; sheep 12% very poor, 27% poor, 45% fair, 16% good.

**NEW YORK:** Days suitable for fieldwork 5.6. Soil moisture 7% short, 50% adequate, 43% surplus. Pasture feed 5% fair, 82% good, 13% excellent. Hay fair to good. Alfalfa first cutting 89% finished, 99% 1995, 97% avg. Dry bean planting near completion. Corn growing well. Wheat fair to good. Apples in good condition. Disease pressure high for grapes. Black rot, downy mildew reported in some areas. Strawberry harvest wound down. Vegetable planting near end. Early onion harvesting underway. Sweet corn harvest started.

**NORTH CAROLINA:** Days suitable for fieldwork 5.9. Soil moisture 15% very short, 42% short, 35% adequate, 8% surplus. Irish potatoes 77% harvested, 76% 1995, 80% avg. Hay 2nd cutting 47%, 37% 1995, 46% avg.; 3rd cutting 5%, 3% 1995, 4% avg. Wheat 96% harvested, 83% 1995, 95% avg. Crop condition: Tobacco 4% poor, 22% fair, 58% good, 16% excellent; soybeans 9% poor, 19% fair, 63% good, 9% excellent; hay 4% very poor, 16% poor, 44% fair, 34% good, 2% excellent; sweet potatoes 12% fair, 84% good; 4% excellent; apples 6% poor, 33% fair, 57% good; 4% excellent; peaches 65% very poor, 15% poor, 12% fair, 8% good; truck crops 2% very poor, 2% poor, 22% fair, 64% good, 10% excellent. Activities: Assessing storm damage; repairing storm damage; planting soybeans; cultivating crops; spraying for insects and weed control; harvesting small grains; harvesting and topping flue-cured tobacco; cutting and baling hay; pasture maintenance; tending livestock; repairing equipment, general farm maintenance.

**NORTH DAKOTA:** Days suitable for fieldwork 6. Spotty rains provided some needed relief, western part of State still needs moisture. Topsoil 2% very short, 27% short, 66% adequate, 5% surplus. Subsoil 1% very short, 21% short, 74% adequate, 4% surplus. Producers are spraying for orange wheat blossom midge which continues to be a major concern in northern tier. Small grain condition declined due to dry conditions. Progress ahead of last year, behind average. Durum 9% milk and beyond; 4% 1995; 20% avg. Late season crop development: Canola 77% blooming and beyond; flaxseed 29% blooming and beyond; 16% 1995; 31% avg.; dry edible beans 11% blooming and beyond; 14% 1995; 30% avg.; soybeans 7% blooming and beyond; 8% 1995; 29% avg.; potatoes 40% blooming and beyond; 38% 1995; 60% avg. Average height of all late season crops except corn, flax were behind average. Emerged crop condition: durum 6% poor, 31% fair, 57% good, 6% excellent; canola 2% poor, 19% fair, 62% good, 17% excellent; flaxseed 2% poor, 20% fair, 69% good, 9% excellent; corn 2% poor, 19% fair, 65% good, 14% excellent; dry edible beans 1% very poor, 1% poor, 16% fair, 69% good, 13% excellent; soybeans 7% poor, 27% fair, 56% good, 10% excellent; sunflower 2% poor, 17% fair, 69% good, 12% excellent; sugar beets 1% very poor, 2% poor, 12% fair, 70% good, 15% excellent; potatoes 1% very poor, 2% poor, 5% fair, 68% good, 24% excellent.

**OHIO:** Days suitable for fieldwork 6.9. Topsoil 27% very short, 53% short, 20% adequate. Alfalfa hay first cutting complete, second cutting 19% complete; other hay first cutting 93% complete, other hay second cutting 12% complete. Cherry harvest is underway.

**OKLAHOMA:** Days suitable for fieldwork 4.0. Topsoil 7% very short, 20% short, 67% adequate, 6% surplus. Subsoil 10% very short, 35% short, 52% adequate, 3% surplus. Wheat 82% plowed, 70% 1995, 69% avg. Oats 75% plowed, 49% 1995, 63% avg. Corn 85% tasselling, 27% 1995, 69% avg.; 25% milk-to-soft, 12% 1995, 17% avg.; 1% mature, 0% 1995, 1% avg. Sorghum 99% up-to-stand, 84% 1995, 92% avg.; 9% mature, 0% 1995, 0% avg. Soybeans 93% up-to-stand, 79% 1995, 78% avg.; 41% blooming, 29% 1995, 16% avg.; 11% setting pods, 8% 1995, 4% avg. Peanuts 45% setting pods, 2% 1995, 6% avg. Alfalfa 7% poor, 33% fair, 55% good, 2% excellent; Alfalfa hay 94% 2nd cutting, 88% 1995, 89% avg.; 23% 3rd cutting, 30% 1995, 30% avg./ Livestock 3% poor, 23% fair, 70% good, 4% excellent. Feeder steers and heifers were steady to \$2/cwt higher.

**OREGON:** Days suitable for fieldwork 7.0. Topsoil 1% very short, 41% short, 58% adequate. Subsoil 29% short, 71% adequate. Barley 4% harvested, 3% 1995, 14% avg. Activities: Small grains harvest underway. Some spring wheat damaged by prior frosts, southeastern sections. Grass seed harvest underway, Willamette Valley. Irrigating nursery field operations, container yards. Greenhouses doing clean up work. Some balling, potting trees before hot weather. Klamath Basin potatoes 50% row closure. Sweet corn tasseling, fresh market vegetable second, third harvest continued, green bean harvest to start soon, onions beginning to show development, Willamette Valley. Cherry harvest was mostly over in Polk county. Mid-Columbia sweet cherry harvest completed. Pears, apples good, cherry harvest winding down, early peach harvest to start soon, Rogue River Valley. Cranberry pollination good, some observations black-headed fireworms, southern coast. Hot weather accelerated raspberry harvest, blueberry, Marion variety blackberry, boysenberry harvest continued, hazelnuts sizing very nicely, Willamette Valley. Livestock good-excellent. Hot weather pasture feed, statewide, pasture feed supply still above average. Late season lamb shearing continued, western sections.

**PENNSYLVANIA:** Days suitable for fieldwork 5.5. Soil moisture 12% short, 82% adequate, 6% surplus. Good hay making weather. Farmers pushed hard on small grain harvest and hay making to complete it before weekend storms from Bertha. Corn height 46 in., 42 in. 1995, 41 in. avg. Soybeans planted 98% complete, 97% 1995, 99% avg.; 1% very poor, 6% poor, 23% fair, 51% good, 19% excellent. Barley 86% harvested, 69% 1995, 68% avg. Wheat 81% ripe, 72% 1995, 69% avg.; 54% harvested, 31% 1995, 34% avg.; 1% very poor, 8% poor, 23% fair, 57% good, 11% excellent. Alfalfa 1st cutting 95% complete, 94% 1995, 97% avg.; 2nd cutting 48% complete, 32% 1995, 45% avg. Timothy clover first cutting 86% complete, 80% 1995, 90% avg.; 2nd cutting 8% complete, 5% 1995, 5% avg. Quality of hay made 2% very poor, 8% poor, 30% fair, 42% good, 18% excellent. Peach 6% very poor, 8% poor, 33% fair, 43% good, 10% excellent. Apple 1% very poor, 7% poor, 28% fair, 44% good, 20% excellent. Activities: Planting soybeans; making hay and haylage; harvesting small grains; baling straw; applying pesticides; fixing fences; hauling manure; caring for livestock.

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

**SOUTH CAROLINA:** Days suitable for fieldwork 6.1. Soil moisture 21% very short, 40% short, 38% adequate, 1% surplus. Barley 100% harvested, 91% 1995, 94% avg. Corn 8% very poor, 21% poor, 32% fair, 26% good, 13% excellent; 98% silked, 98% 1995, 96% avg.; 62% doughed, 69% 1995, 71% avg.; 19% mature, 24% 1995, 21% avg.; 1% harvested, 1% 1995, 0% avg.; Rye 100% harvested, 97% 1995, 97% avg. Sorghum 98% planted, 87% 1995, 86% avg.; 1% poor, 23% fair, 64% good, 12% excellent. Tobacco topped 89%, 81% 1995, 87% avg.; 17% harvested, 19% 1995, 20% avg.; 1% very poor, 2% poor, 17% fair, 60% good, 20% excellent. Wheat 100% harvested, 100% 1995, 100% avg. Peach harvest 61% complete, 43% 1995, 47% avg.; 11% very poor, 39% poor, 40% fair, 10% good. Watermelons 80% harvested, 78% 1995, 72% avg.; 1% very poor, 25% poor, 32% fair, 35% good, 7% excellent. Cantaloups 91% harvested, 79% 1995, 70% avg.; 44% poor, 38% fair, 14% good, 4% excellent. Tomatoes 92% harvested, 87% 1995, 93% avg.; 10% fair, 26% good, 64% excellent. Cucumbers 92% harvested, 71% 1995, 80% avg.; 3% very poor, 5% poor, 35% fair, 55% good, 2% excellent.

**SOUTH DAKOTA:** Days suitable for fieldwork 5.7. Topsoil 1% very short, 25% short, 66% adequate, 8% surplus. Subsoil 8% short, 75% adequate, 17% surplus. Cool weather helped maturing small grain while severe thunderstorms caused severe hail damage in several areas during the week. Barley 95% boot, 92% 1995, 98% avg.; 7% turning color, 19% 1995, 49% avg. Oats 17% turning color, 17% 1995, 48% avg. Spring wheat 5% turning color, 22% 1995, 41% avg. Corn height 37 in., 30 in. 1995, 37 in. avg. Flax 49% blooming, 32% 1995, 41% avg.; 1% poor, 6% fair, 84% good, 9% excellent. Sunflowers 3% poor, 13% fair, 68% good, 16% excellent. Winter wheat 73% turning color, 89% 1995, 91% avg.; 2% ripe, 21% 1995, 43% avg.; 3% very poor,

11% poor, 31% fair, 50% good, 5% excellent. Winter rye 70% turning color, 86% 1995, 86% avg.; 1% ripe, 24% 1995, 37% avg.; 1% very poor, 11% poor, 25% fair, 51% good, 12% excellent. Weeds were a major concern with much spraying taking place. Corn borers, sunflower beetles were also becoming problems. Alfalfa 1st cutting 93% harvested, 92% 1995, 92% avg.; 2nd cutting 11% harvested, 9% 1995, 17% avg. Other hay 50% harvested, 45% 1995, 43% avg. Livestock 6% fair, 76% good, 18% excellent. Stock water supplies 2% short, 79% adequate, 19% surplus.

**TENNESSEE:** Days suitable for fieldwork 5.6. Topsoil moisture 10% very short, 29% short, 60% adequate, 1% surplus. Subsoil moisture 6% very short, 24% short, 69% adequate, 1% surplus. Hot weather aided in development of cotton, rainfall in western areas provided needed moisture for crops. Corn 1% very poor, 4% poor, 27% fair, 39% good, 29% excellent; 89% tasseled, 90% 1995, 74% avg.; 16% dough, 28% 1995, 17% avg. Tobacco 1% very poor, 8% poor, 38% fair, 49% good, 4% excellent; 13% topped, 14% 1995, 11% avg. Sorghum 4% poor, 20% fair, 64% good, 12% excellent; 19% headed, 25% 1995, 20% avg. Alfalfa hay 7% poor, 34% fair, 53% good, 6% excellent; 78% second cutting, 89% 1995, 89% avg. Other hay 2% very poor, 18% poor, 41% fair, 32% good, 7% excellent. Pasture feed 2% very poor, 21% poor, 41% fair, 34% good, 2% excellent.

**TEXAS:** Hot temperatures continued most areas; however, many areas received good rainfall. Rainfall amounts heaviest in Plains with widely scattered amounts reported other areas. Many parts South Central remained dry, with extreme heat, more grain fields failing. Final small grain harvest operations slowed in High Plains. Ranges, pastures should improve many areas. Harvest operations moved ahead with only minimal delays along Upper Coast, in Coastal Bend, Rio Grande Valley.

**Crops:** Small grains: many producers in final harvest stages in High Plains, rain slowed progress. Corn fields in High Plains rapidly maturing under hot temperatures, but rain brought slightly cooler temperatures, slowed maturing some. Irrigation needs decreased. Many fields throughout South Central continued fail because prolonged drought conditions. Harvest getting underway along Upper Coast while progress continued in Rio Grande Valley. 57% doughing, 58% 1995, 55% avg.; 38% denting, 47% 1995, 40% avg.; 6% mature, 18% 1995, 14% avg. Grain sorghum: rainfall reduced stress fields in Plains during week. Some replanting of failed cotton continued as weather permitted. Fields South-Central areas rapidly maturing under hot temperatures. Many fields continued disasterized out, some cut for hay. Harvest getting underway along Upper Coast. Harvest continued in Coastal Bend, Rio Grande Valley. Many producers finished in Valley. 48% turning color, 64% 1995, 53% avg.; 33% mature, 48% 1995, 33% avg. 13% harvested, 29% 1995, 16% avg. Cotton fields in High Plains still behind progress; however, rain during week should help them catch up. Insect problems low to this point. Some fields been disasterized out, replanted to alternative crops. Bolls opening along Upper Coast, Coastal Bend. Defoliation activity getting underway in Rio Grande Valley. 6% open bolls, 8% 1995, 5% avg. Rice: Most fields along Upper Coast remained good condition during week. A few early fields will be drained soon in preparation for harvest. Peanuts: Fields most areas continued show good progress. Some fields having problems with weeds. Soybeans: Good growth, development reported North-Central areas, along Upper Coast.

**Commercial Vegetables:** Rio Grande Valley, land preparations for fall crops continued. Availability irrigation water will be very critical factor going into fall. San Antonio-Winter Garden, harvest watermelons, cantaloups continued wind down. East, extreme heat caused some decline in vegetable production. Sweet potato progress slowed because hot temperatures. High Plains, onion harvest underway but progress delayed by rain. Potato harvest also slowed. Trans-Pecos, cantaloup harvest continued. Pecans: Hot temperatures, dry conditions declined prospects many areas. Damage from casebearers continued high.

**Range and Livestock:** Recent rainfall should improve many ranges, pastures; however, amount of improvement will vary widely. Numerous fields failed corn, grain sorghum continued be cut for hay. High amounts prussic acid, nitrates occurring many of these fields. Livestock condition continued good most areas.

**UTAH:** Days suitable for fieldwork 6.9. Topsoil 14% very short, 45% short, 39% adequate, 2% surplus. Subsoil 12% very short, 44% short, 43% adequate, 1% surplus. Irrigation water supply 10% very short, 23% short, 65% adequate, 2% surplus. Stock water supply 10% very short, 33% short, 57% adequate. Winter wheat harvested 14%, 9% avg. Spring wheat harvested 3%, 2% avg. Barley harvested 6%, 4% avg. Oats headed 76%, 64% 1995, 74% avg. Corn height 45 inches, 20 inches 1995, 32 inches avg. Alfalfa hay second cutting 36%, 12% 1995, 26% avg. Oats harvested for hay or silage 36%, 25% 1995, 32% avg. Other hay cut 53%, 46% 1995, 55% avg. Sweet cherries picked 80%, 44% 1995. Tart cherries picked 33%. Range, pasture feed 4% very poor, 12% poor, 35% fair, 48% good, 1% excellent. Major farm, ranch activities: Irrigating crops, harvesting some small grains, picking cherries.

**VIRGINIA:** Days suitable for fieldwork 5.7. Topsoil 20% short, 60% adequate, 20% surplus. Subsoil 15% short, 70% adequate, 15% surplus. Corn 35% silked, 1995 40%, 38% avg.; 14% dough, 1995 6%, 9% avg.; 1% very poor, 8% poor, 22% fair, 48% good, 21% excellent. Soybeans 95% planted, 94% 1995, 93% avg.; 10% poor, 31% fair, 50% good, 9% excellent. Oats 90% harvested, 62% 1995, 83% avg. Winter wheat 90% harvested, 79% 1995, 89% avg. Barley 95% harvested, 94% 1995, 98% avg. Cotton 1% poor, 19% fair, 44% good, 36% excellent. Peanuts 57% pegged; 10% fair, 53% good, 37% excellent. Alfalfa 1% very poor, 9% poor, 25% fair, 59% good, 6% excellent. Other hay 1% very poor, 10% poor, 41% fair, 44% good, 4% excellent. Summer potatoes 40% harvested, 33% 1995, 45% avg. Fire cured tobacco 22% poor, 45% fair, 33% good. Flue cured tobacco 15% poor, 20% fair, 44% good, 21% excellent. Burley tobacco 4% very poor, 7% poor, 30% fair, 52% good, 7% excellent. Sun cured tobacco, 40% fair, 60% good. Pasture feed 1% very poor, 10% poor, 35% fair, 51% good, 3% excellent. Apples 5% very poor, 10% poor, 15% fair, 50% good, 20% excellent. Peaches 13% poor, 26% fair, 61% good. Activities: Removing debris from fields, accessing flood damage from Hurricane Bertha near coastal areas. Non-hurricane related hail damage reported in center of state. Cotton growers applying growth regulators and banding herbicides. Peanut growers spraying for leaf spot. Soybean planting, small grain harvest continuing. Squash, cucumbers, tomatoes, sweet corn, peppers, potatoes being harvested. Burley tobacco transplanting complete. Tobacco growers cultivating, spraying, topping, laying by. Flue tobacco harvest beginning. Hay being fed western central in localized dry areas.

**WASHINGTON:** Days suitable for fieldwork 7.0. Topsoil 2% very short, 47% short, 50% adequate, 1% surplus; subsoil 1% very short, 39% short, 60% adequate. Hot, dry weather allowed winter wheat harvest to start with high yields. Spring crops were stressed by high temperatures, which may reduce yields. The Russian wheat aphids were severe in some later cropping locations. Winter wheat, dryland 3% poor, 7% fair, 53% good, 37% excellent; irrigated, 82% good, 18% excellent. Barley, dryland 3% very poor, 10% poor, 38% fair, 34% good, 15% excellent; irrigated, 97% good, 3% excellent. Spring wheat, dryland 7% very poor, 7% poor, 24% fair, 42% good, 20% excellent; irrigated, 89% good, 11% excellent. Winter wheat 1% harvested, 1% 1995, 5% avg. Spring wheat 92% headed, 98% 1995, 98% avg. Barley 89% headed, 99% 1995, 98% avg. Hay, other roughage supplies, 1% short, 82% adequate, 17% surplus. Range, pasture feed, 32% fair, 56% good, 12% excellent. As hot, dry conditions prevailed non-irrigated pastures began to show drought stress. The first cutting of grass hay, and timothy was baled. Alfalfa first cutting 98%, 99% 1995, 99% average; second cutting 75%, 53% 1995, 54% average. Hand thinning of apples continued. Summer squash harvest began. Strawberry harvest come to an end. Irrigation, mowing, and weed control were major activities. Early sweet corn harvest began, although delayed by cold weather. Raspberry harvest continued. Harvest of early potato fields began. Potatoes 2% harvested, 4% 1995, 3% avg.

**WEST VIRGINIA:** Days suitable for fieldwork 6. Topsoil 4% very short, 38% short, 58% adequate. Wheat 65% fair, 35% good; 25% harvested, 11% 1995, 51% avg. Hay 1% very poor, 2% poor, 32% fair, 60% good, 5% excellent; first cutting 85%, 86% 1995, 92% avg.; 2nd cutting 11%, 15% 1995, 21% avg. Corn 1% poor, 17% fair, 75% good,

7% excellent; 6% silking, 11% 1995. Oats 2% poor, 20% fair, 78% good; 97% headed, 27% harvested, 22% 1995. Soybeans 8% fair, 86% good, 6% excellent; planted 100%, 100% 1995; blooming 7%, 8% 1995. Tobacco 1% poor, 28% fair, 71% good. Cattle 2% poor, 15% fair, 79% good, 4% excellent. Sheep 10% fair, 88% good, 2% excellent. Apples 5% poor, 90% fair, 5% good. Peaches 5% poor, 95% fair. Activities: Cutting, baling hay, harvesting oats and wheat, working livestock, clipping pastures, equipment maintenance.

**WISCONSIN:** Days suitable for fieldwork 5.2. Soil moisture 23% short, 65% adequate, 12% surplus. South central, southeastern district reporters commented on the drastic change in soil moisture, which caused the ground to become concrete-like. Reporters from the northwest, west-central districts reported oats and pea forage yielded very good for livestock feed. Rye, barley, winter wheat were turning color. Some winter wheat scab disease was noted in the east-central, south-central, southeastern districts. Harvest reports showed 1% started on winter wheat fields. As of 14th, the statewide average for first crop hay was 94% harvested. Second crop hay harvested statewide was at 12%, compared to 17% 1995, 18% avg. Corn had a statewide average height of 35 in., 50 in. 1995, 46 in. avg. Reporters statewide still noted areas of uneven corn growth, uncontrolled weed problems due to the wet weather conditions. Corn borers were observed in the following districts: northwest, west central, central, south central, southeast. Soybeans 5% very poor, 9% poor, 33% fair, 46% good, 7% excellent. Apple trees varied in fruit set with several reports of fewer blossoms due to the cold winter, cool, rainy spring. Some cranberry beds, varieties looked good in the central district. Pasture feed 3% poor, 24% fair, 64% good, 9% excellent.

**WYOMING:** Days suitable for fieldwork 6.8. Topsoil 51% adequate or better. Subsoil moisture supplies 67% adequate or better. Irrigation water 12% short, 88% adequate. Winter wheat 100% turning color, 61% 1995, 74% avg.; 51% mature, 1% 1995, 28% avg.; small amount harvested. Barley 24% turning color, 33% 1995, 37% avg.; 2% mature, 1% 1995, 6% avg. Oats 24% turning color, 6% 1995, 16% avg.; 5% mature, 0% 1995, 3% avg. Spring wheat 27% turning color, 3% 1995, 28% avg.; 9% mature, 0% 1995, 3% avg. Dry beans 14% in bloom, 4% 1995, 22% avg. Corn height 32 in., 25 in. 1995. Alfalfa 1st cutting 79%, 70% 1995, 77% avg.; 2% second cutting, 0% 1995, 0% avg. Other hay 43% harvested, 30% 1995, 37% avg. Range, pasture feed 18% fair, 77% good, 5% excellent. Stock water 85% adequate or better.



# International Weather and Crop Summary

July 7 - 13, 1996

## HIGHLIGHTS

**FSU-WESTERN:** A heat wave in Ukraine and Russia adversely affected crop development.

**FSU-NEWLANDS:** Showers and cool weather benefited spring grains in central growing areas.

**EUROPE:** Continued unseasonably cool weather slowed crop development, while rain hampered early harvest activities in central areas.

**AUSTRALIA:** Light showers moistened topsoils for emerging wheat.

**CANADA:** Cool, showery weather prevailed as crops advance through reproduction.

**SOUTH ASIA:** Showers covered central and southern India, benefiting summer crop planting.

**SOUTHEAST ASIA:** Drier weather in Thailand and the northern Philippines reduced moisture for main-season crops.

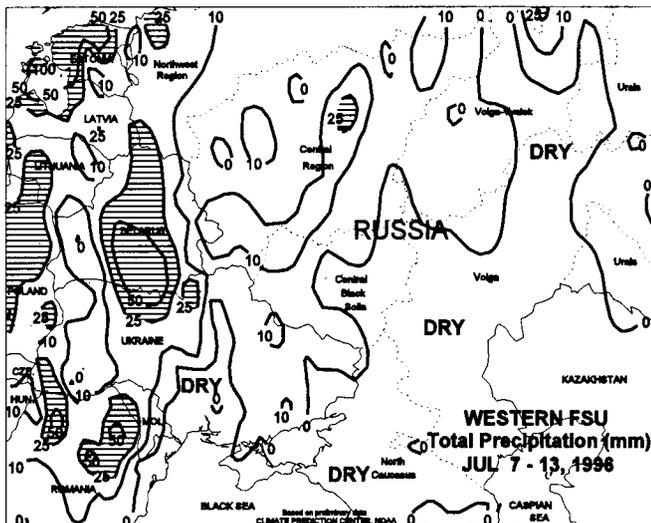
**EASTERN ASIA:** Widespread rain covered most of China, especially benefiting summer crops in the North China Plain and southeastern China. Heavy rain aggravated flooding in the lower Yangtze Valley.

**SOUTH AMERICA:** Rain boosted topsoil moisture for germinating winter wheat in central Argentina and vegetative wheat across southern Brazil.

**MEXICO:** Early-season showers brought some drought relief to the northwest, as variable showers favored vegetative corn across the corn belt.

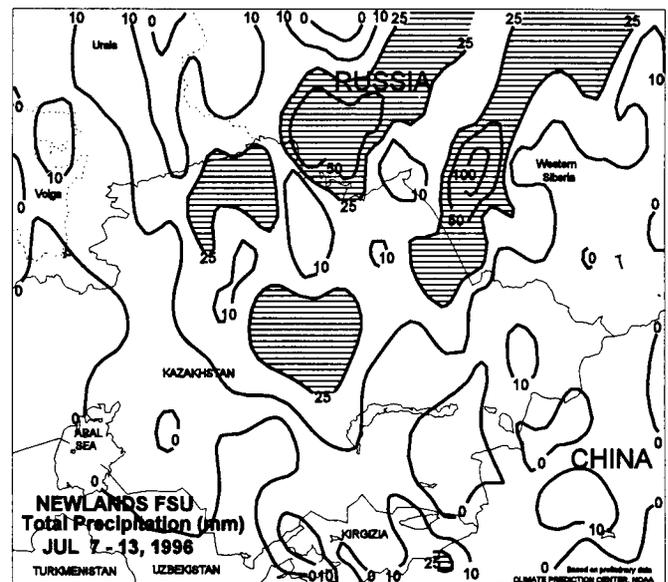
### FSU-WESTERN

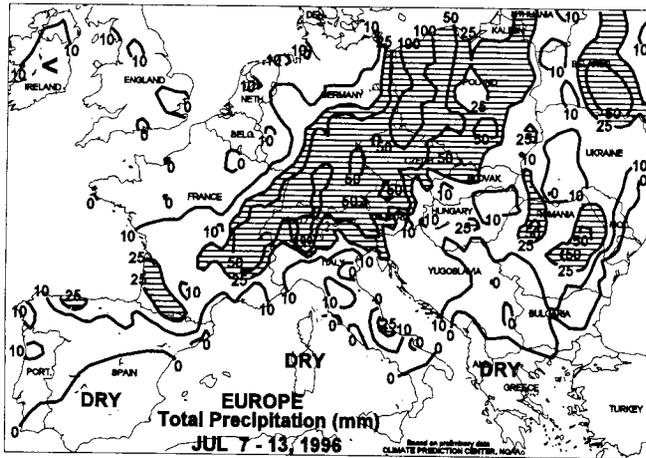
A heat wave continued over the eastern two-thirds of Ukraine and southern Russia (North Caucasus, lower Volga Valley, and the southern Black Soils Region), adversely affecting spring grain and summer crop development. The hot weather spread northward over Russia (Central Region, Volga Vyatsk, and upper Volga Valley) as the week progressed. Highest weekly temperatures ranged from 32 to 35 degrees C in northern Russia and 35 to 40 degrees C in Ukraine and southern Russia. In addition, the hot weather in eastern Ukraine and southern Russia was accompanied by low humidities and breezy conditions, causing moderate to severe stress on crops. Elsewhere, showers and thunderstorms (10-25 mm, with local amounts in excess of 50 mm) occurred along a stationary front that stretched northward from the western Ukraine, through Belarus, into the Baltics.



### FSU-NEW LANDS

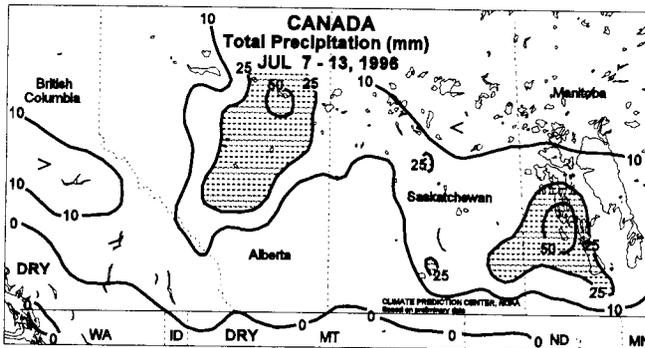
Showers and cool weather prevailed over central growing areas in Russia and Kazakhstan, benefiting spring grains in or nearing the reproductive phase of development. Precipitation amounts ranged from 10 to 40 mm, with local amounts in excess of 50 mm. In contrast, crop areas in the west (southern Urals and western Kazakhstan) and east (Altay Kray, Russia, and eastern Kazakhstan) experienced unfavorably hot, dry weather. Weekly temperatures averaged 2 to 4 degrees C above normal in these areas, with highest maximum temperatures ranging from 32 to 37 degrees C.





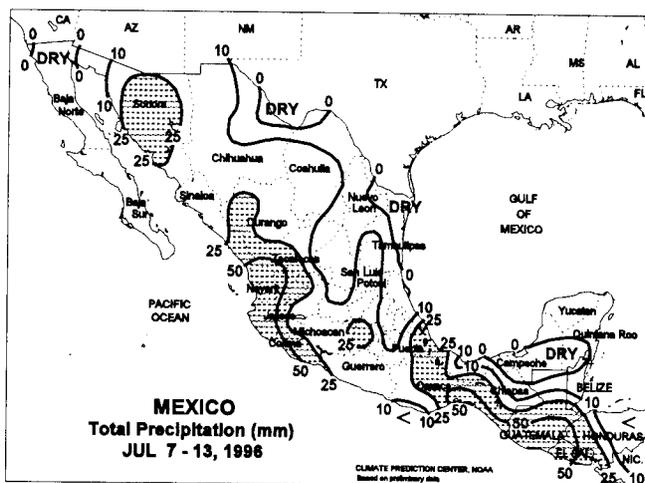
**EUROPE**

Cool, dry weather prevailed over England, northern France, the Benelux countries, and northern Germany, limiting moisture for crop development, especially on lighter soils. The continued cool weather in these areas has reportedly caused significant delays in winter grain development. Elsewhere, wet weather spread northeastward from southern France, through southern Germany and the Czech Republic, into Poland. Rainfall amounts in these areas generally ranged from 20 to 50 mm, with heavier amounts (100-130 mm) falling over southern Germany and western Poland. While the rain slowed winter grain harvesting in these areas, it provided abundant moisture for spring grain and summer crop development. In the southeast, a cooling trend eased heat stress on summer crops. Although light to moderate showers (10-25 mm, with local amounts in excess of 50 mm) increased soil moisture in Romania, dry weather persisted over Bulgaria and southeastern former Yugoslavia.



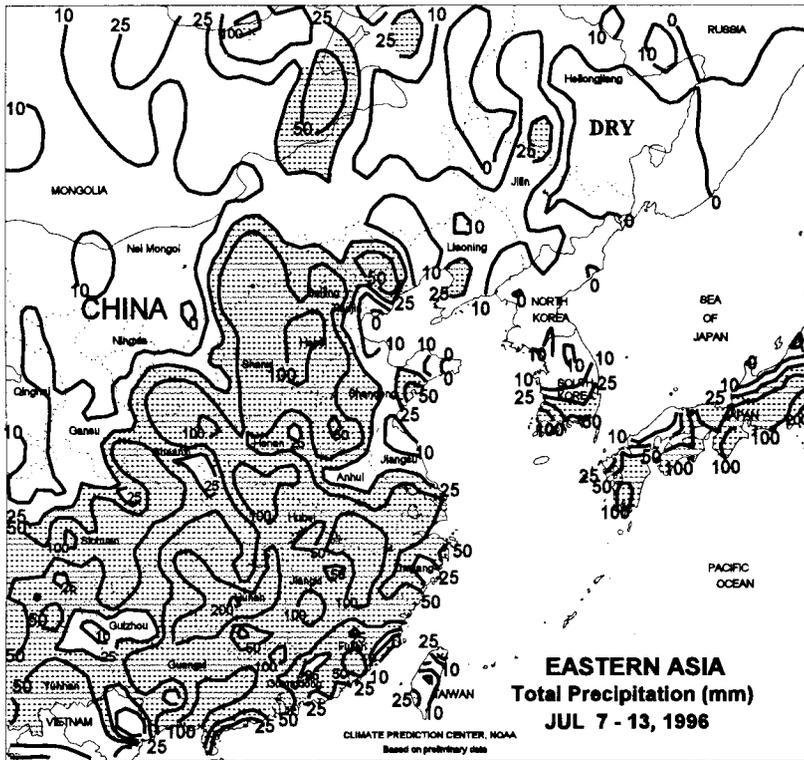
**CANADA**

Cool weather and variable showers (temperature 3-4 degrees C below normal, rainfall totaling 3-40 mm) occurred throughout the Prairies, maintaining favorable moisture conditions but slowing crop development. Grains and oilseeds were advancing through reproduction. In southern crop areas in Alberta and western Saskatchewan, the weather was drier and somewhat warmer, with maximum temperatures briefly reaching the low 30's C. In eastern Canada, cool (temperatures 1-3 degrees C below normal), mostly dry weather covered the major crop areas of Ontario and Quebec, slowing crop growth rates.



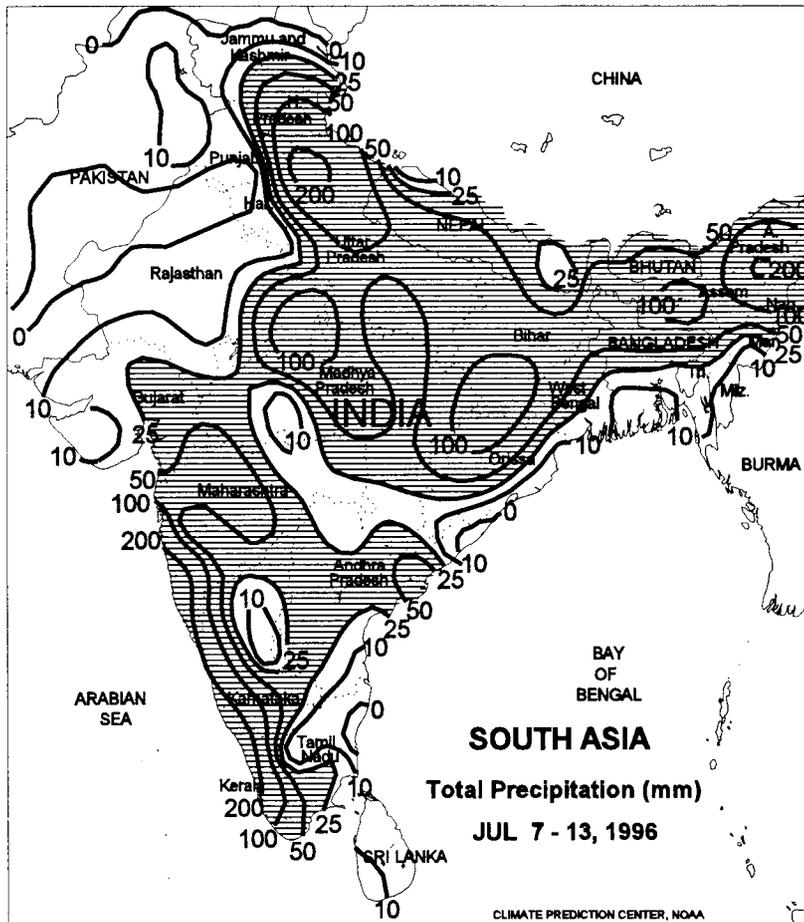
**MEXICO**

Early-season rain (10-40 mm) covered northwestern Mexico (Sonora, Sinaloa, and Chihuahua) bringing some drought relief to the region. However, above-normal summer rainfall is needed to reverse long-term moisture deficits. The rainy season across northwestern Mexico typically begins in July. Across the Southern Plateau corn belt, variable showers (5-50 mm) aided vegetative corn, but more rain is needed in the west. Mostly dry weather increased long-term moisture deficits in the northeast. The only significant rain (10-25 mm) in the region fell in southwestern Tamaulipas and southern Nuevo Leon. Temperatures averaged 1 to 3 degrees C above normal across most of Mexico.



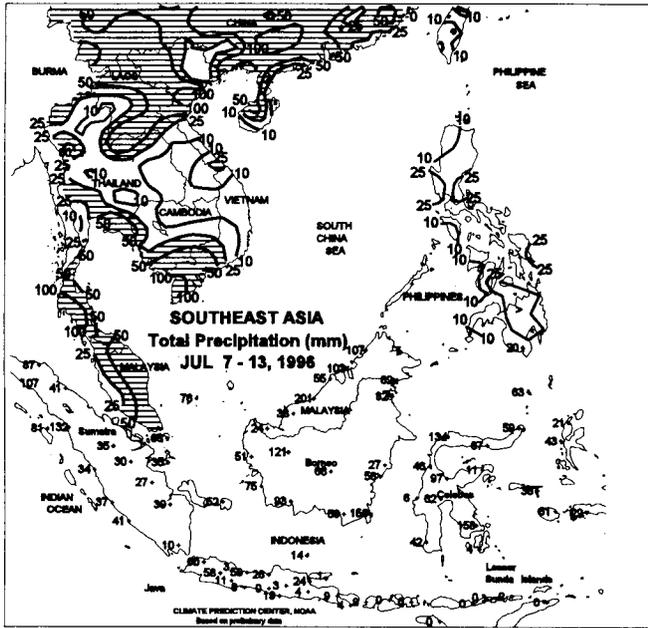
**EASTERN ASIA**

Widespread rain covered all of the major crop areas of China, benefiting summer crops, but exacerbating flooding in the lower Yangtze Valley. In the North China Plain, moderate to heavy rain (25-100 mm) favored cotton, corn, and soybeans, while lesser amounts (10-25 mm) aided spring wheat, corn, and soybeans in Manchuria. Across central and southern China, rainfall amounts ranged from 25 to 80 mm, maintaining irrigation supplies for rice. However, 50 to 150 mm of rain aggravated flooding in the lower Yangtze Valley (southern Anhui and Jiangsu and Zhejiang). Heavy rain (100-200 mm) also caused some flooding across Hunan. Moderate to heavy rain (50-100 mm) eased dryness in portions of southeastern China (Fujian and Jiangxi). Drier weather (less than 25 mm) eased previous wetness across the Korean Peninsula. Typhoon Dan brushed eastern Japan (near Tokyo) on July 10, bringing very heavy rain (200-400 mm) to the immediate coast, but more moderate amounts (25-80 mm) to central Honshu. Temperatures averaged 2 to 5 degrees C below normal across central and northern China, the Korean Peninsula, and Japan, slowing crop development.



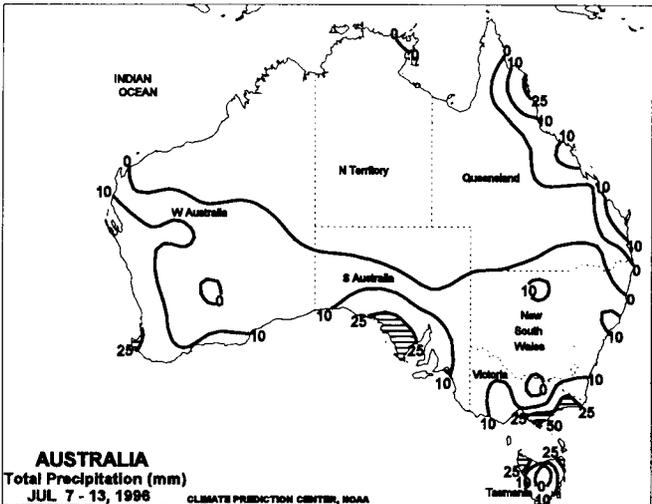
**SOUTH ASIA**

Showers (10-50 mm, with scattered amounts greater than 75 mm) covered a broad area of central and southern India that had been trending dry. The rainfall was highly beneficial for oilseed, coarse grain, and cotton planting. Temperatures averaged 1 to 3 degrees C above normal in central India, keeping evaporation rates high. Elsewhere, drier weather returned to northwestern India and Pakistan, with only a few locations receiving over 25 mm. In contrast, scattered showers (10-100 mm or more) kept eastern rice areas well watered. The southwest monsoon typically reaches its northernmost extent in mid-July.



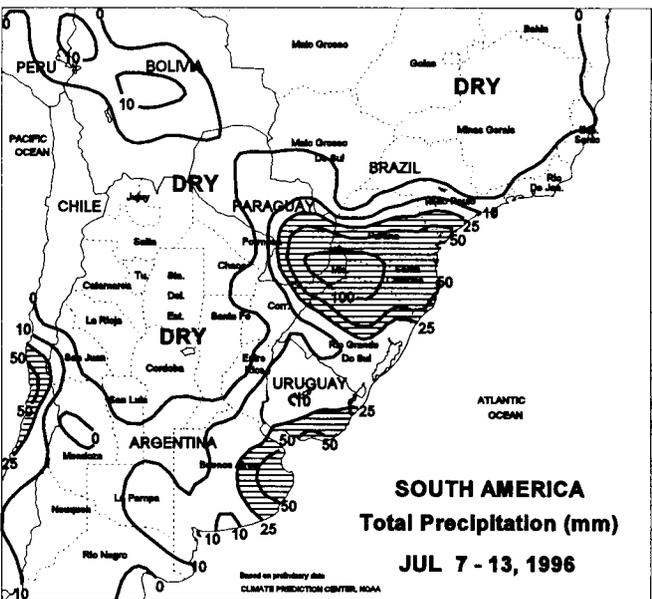
**SOUTHEAST ASIA**

Drier weather prevailed across Thailand (10-30 mm) and the northern Philippines (5-40 mm), reducing moisture for main-season crops. However, little crop impact will occur if the seasonal rains resume within 1 to 2 weeks. The rest of the Philippines also received light to moderate showers (10-40 mm), but moisture supplies are adequate due to several weeks of near- to above-normal rainfall. Variable showers (20-150 mm) fell across northern Vietnam, maintaining moisture supplies for summer rice. Showers (25-60 mm) again benefited oil palm across peninsular Malaysia. In Java, showers (10-50 mm) boosted moisture supplies for second-season rice in the west, while drier weather (less than 15 mm) prevailed in the east.



**AUSTRALIA**

Light showers (5-20 mm, with isolated amounts greater than 30 mm) kept topsoils moist throughout the western and southeastern winter grain belts. Dry weather dominated the main agricultural areas of east-central Australia and favored sugarcane harvesting along Queensland's coast. Temperatures throughout the grain belt averaged below normal, with lows ranging from -3 to 3 degrees C, possibly burning back some newly emerged grains.



**SOUTH AMERICA**

Rain (10-35 mm, with isolated amounts greater than 50 mm) boosted topsoil moisture across central Argentina, aiding germinating winter wheat and spurring the remainder of wheat planting. The heaviest rain fell across eastern Buenos Aires. Reports indicated that as of July 5, nearly 65 percent of the wheat crop has been planted. In southern Brazil, moderate to heavy rain (25-80 mm) fell across eastern Rio Grande do Sul northward into eastern Parana, favoring vegetative winter wheat. Seasonably warm, dry weather prevailed across the rest of southern Brazil, aiding coffee and citrus harvesting. Late in the week, isolated frost was reported in southwestern Minas Gerais, but the frost was confined to high elevations and non-coffee producing areas.

The Weekly Weather and Crop Bulletin is published weekly and jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the Weekly Weather Chronicle. It is issued under general authority of the Act of January 12, 1895 (44-USC 213), 53rd Congress, 3rd Session. NOAA is responsible for managing, printing, and distributing the bulletin. The contents may be reprinted freely, with proper credit.

Annual subscriptions: domestic first class \$45, foreign \$55 (in U.S. funds by international money order or check drawn on U.S. bank) payable to U.S. Department of Commerce, NOAA. POSTMASTER: Send address changes to Weekly Weather and Crop Bulletin, NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 5844, Washington, DC 20250. Order subscriptions from the office and address listed above. First class postage paid at Washington, DC, and additional mailing offices. E-mail address: [wwcb@jawfarv.wwb.noaa.gov](mailto:wwcb@jawfarv.wwb.noaa.gov)

#### U.S. DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration  
National Weather Service/Climate Prediction Center  
Managing Editor ..... **Douglas Le Comte** (202) 720-7919  
Editor ..... **Brad Rippey** (202) 720-1444  
Meteorologists . . . **D. Secora, J. Savadel, B. Morris, J. Linhardt**  
Subscriptions ..... **Joyce Houston** (202) 720-7917  
fax (202) 720-1455

#### U.S. DEPARTMENT OF AGRICULTURE

Economic Research Service  
E.R.S. Editor ..... **Sharon Lee**  
National Agricultural Statistics Service  
Agricultural Statistician ..... **Greg Preston** (202) 720-7621  
State Summaries Editor ..... **Klara Haskins** (202) 720-8033  
World Agricultural Outlook Board  
Agricultural Weather Analysts ..... **Ray Motha**  
..... **Tom Puterbaugh, Mark Brusberg, Bob Stefanski**  
Secretary ..... **Teressa Davis** (202) 720-9807

## U.S. Crop Production Highlights

The following information was released by USDA's Agricultural Statistics Board on July 12, 1996. Forecasts refer to July 1.

**All wheat** production for 1996 is forecast at 2.26 billion bushels, up 4 percent (%) from 1995. U.S. yields are expected to average 35.9 bushels per acre, up 0.1 bushels from a year ago. Grain area totals 63.1 million acres, up 4% from last season.

**Winter wheat** production is forecast at 1.48 billion bushels. This is up 8% from June 1, but down 4% from 1995. The yield is forecast at 37.0 bushels per acre, up 0.9 bushels from the last forecast, but 0.7 bushels below last year. Grain area totals 40.1 million acres, down 2% from 1995.

Total Hard Red production is up substantially from last month due to increased area and yields. Soft Red production is also up, primarily due to acreage increases.

**Spring wheat** (excluding durum) production is forecast at 655 million bushels, up 22% from 1995. This production would be the second highest on record. The U.S. yield is forecast at 33.5

bushels per acre, up 1.3 bushels from last year. Grain area totals 19.6 million acres, up 18% from last season.

**Durum wheat** production is forecast at 123 million bushels, up 21% from 1995, and the highest level since 1982. Yield is forecast at 35.7 bushels per acre, up 5.2 bushels from last year. Grain area totals 3.46 million acres, up 3% from last season.

U.S. **peach** production is forecast to drop 14% from 1995 due to severe winter cold in Washington and spring freezes across the South. Total production, including California's Clingstone crop, is forecast at 1,988.4 million pounds, down 312.9 million pounds from 1995.

Production is forecast to be down more than 90% from last year in Alabama, Arkansas, Georgia, North Carolina, Oklahoma, South Carolina, and Tennessee. Oklahoma had no significant commercial production in 1996, down from 30.0 million pounds in 1995, while Georgia's production plummeted to 6.0 million pounds, down from 160.0 million pounds.

NOAA/USDA Joint Agricultural  
Weather Facility  
USDA South Building, Room 5844  
Washington, DC 20250

WEEKLY NEWS BULLETIN  
FIRST CLASS

FIRST CLASS MAIL  
POSTAGE & FEES PAID  
NOAA  
PERMIT NO. G-19

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300