

# 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

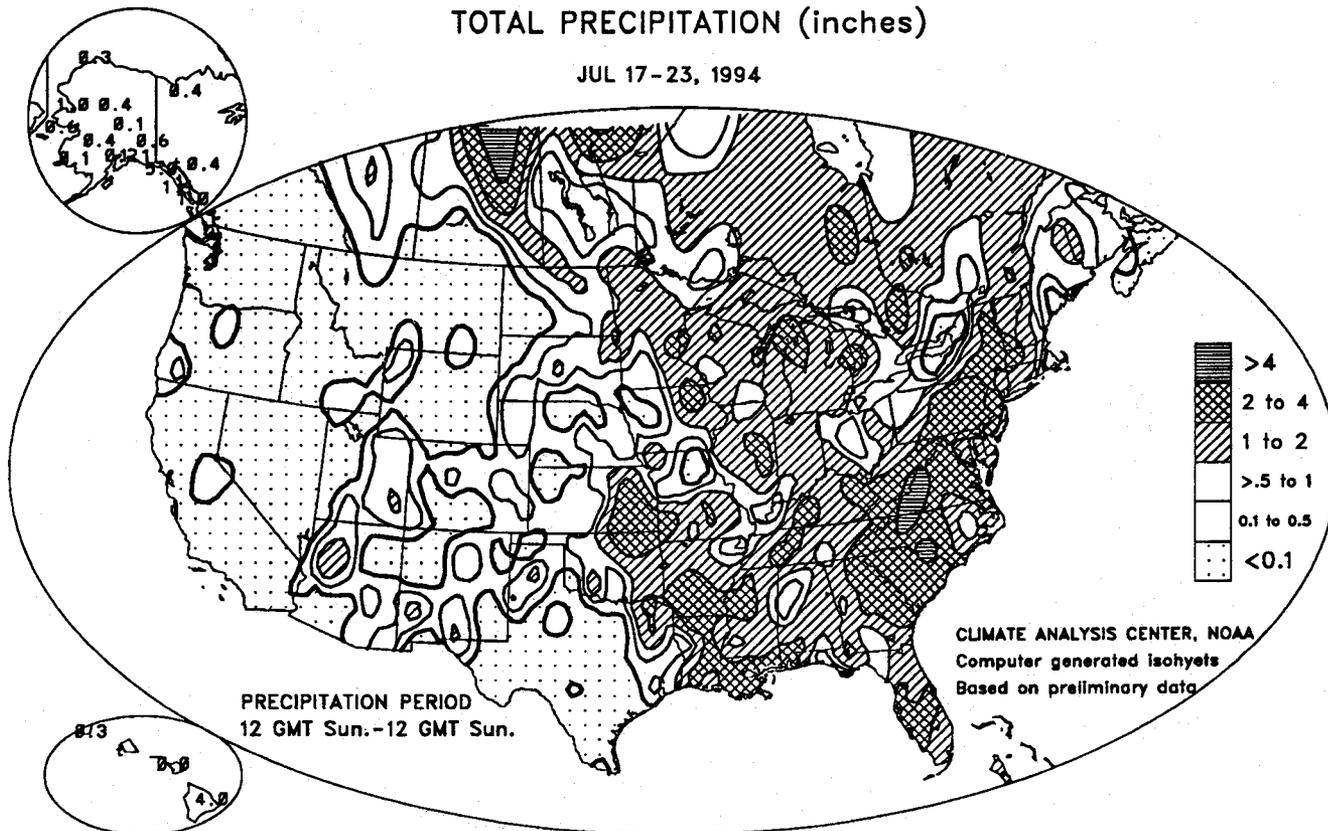
Volume 81, No. 30

Washington, D.C.

July 26, 1994

## TOTAL PRECIPITATION (inches)

JUL 17-23, 1994



## HIGHLIGHTS

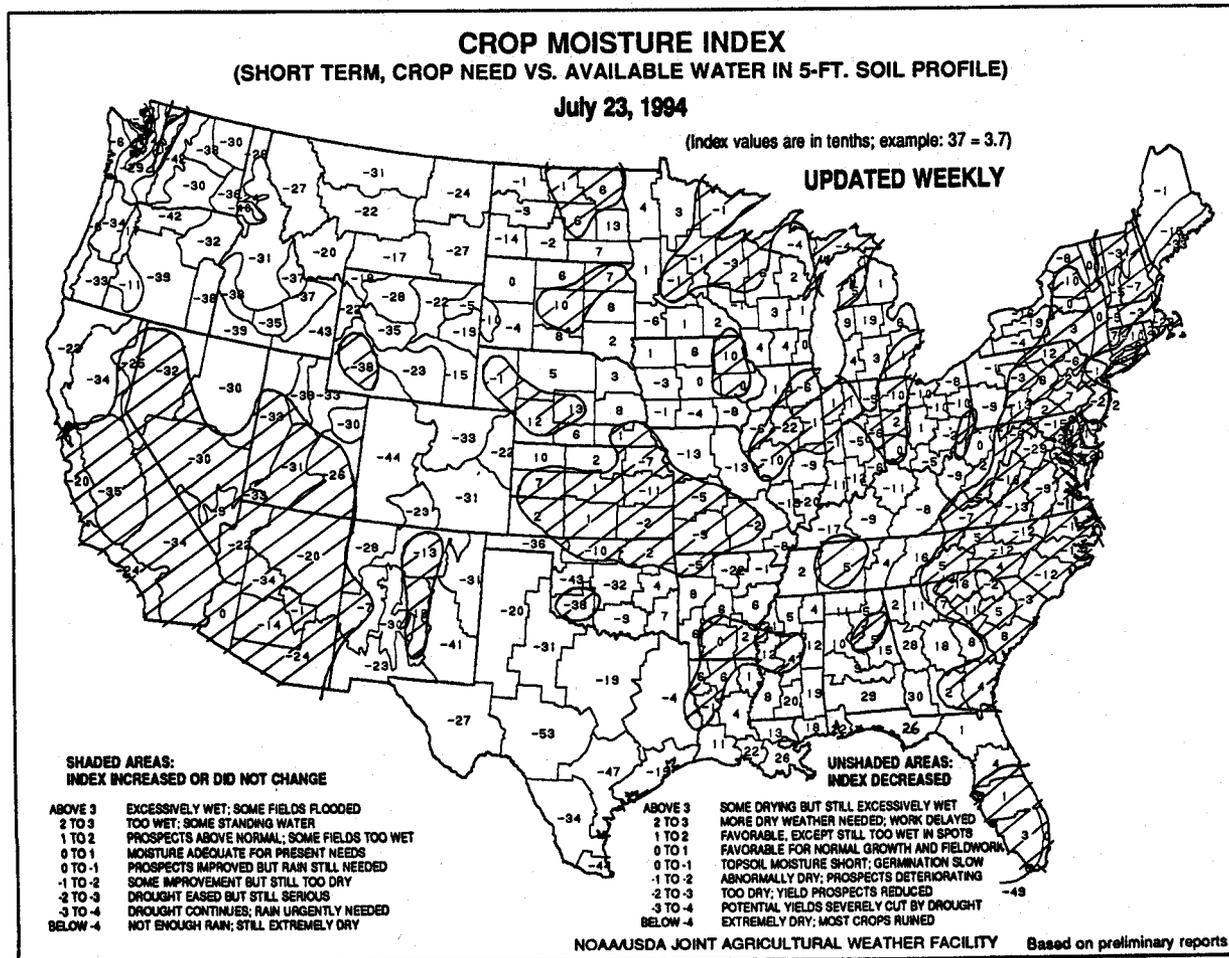
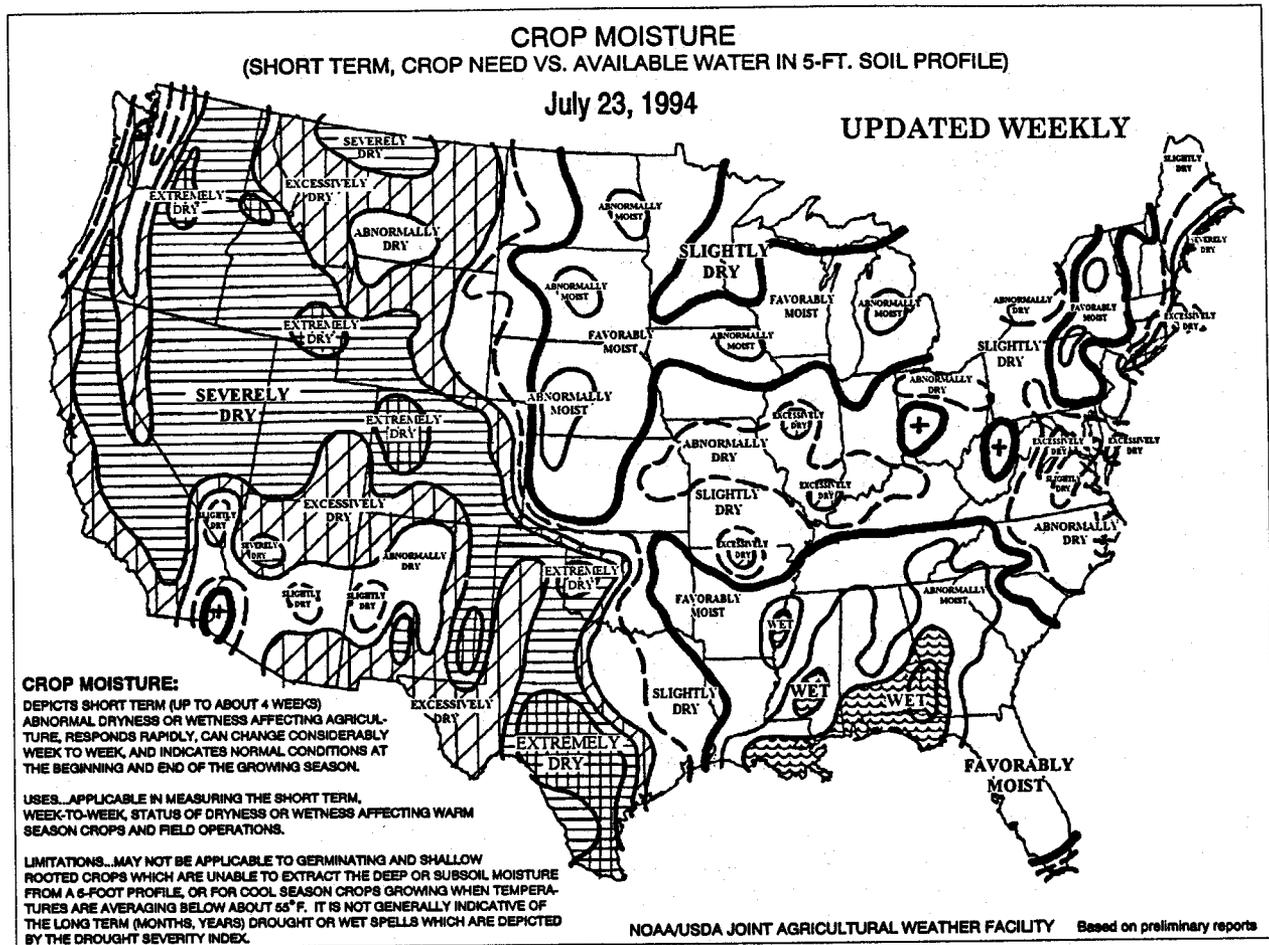
July 17 - 23, 1994

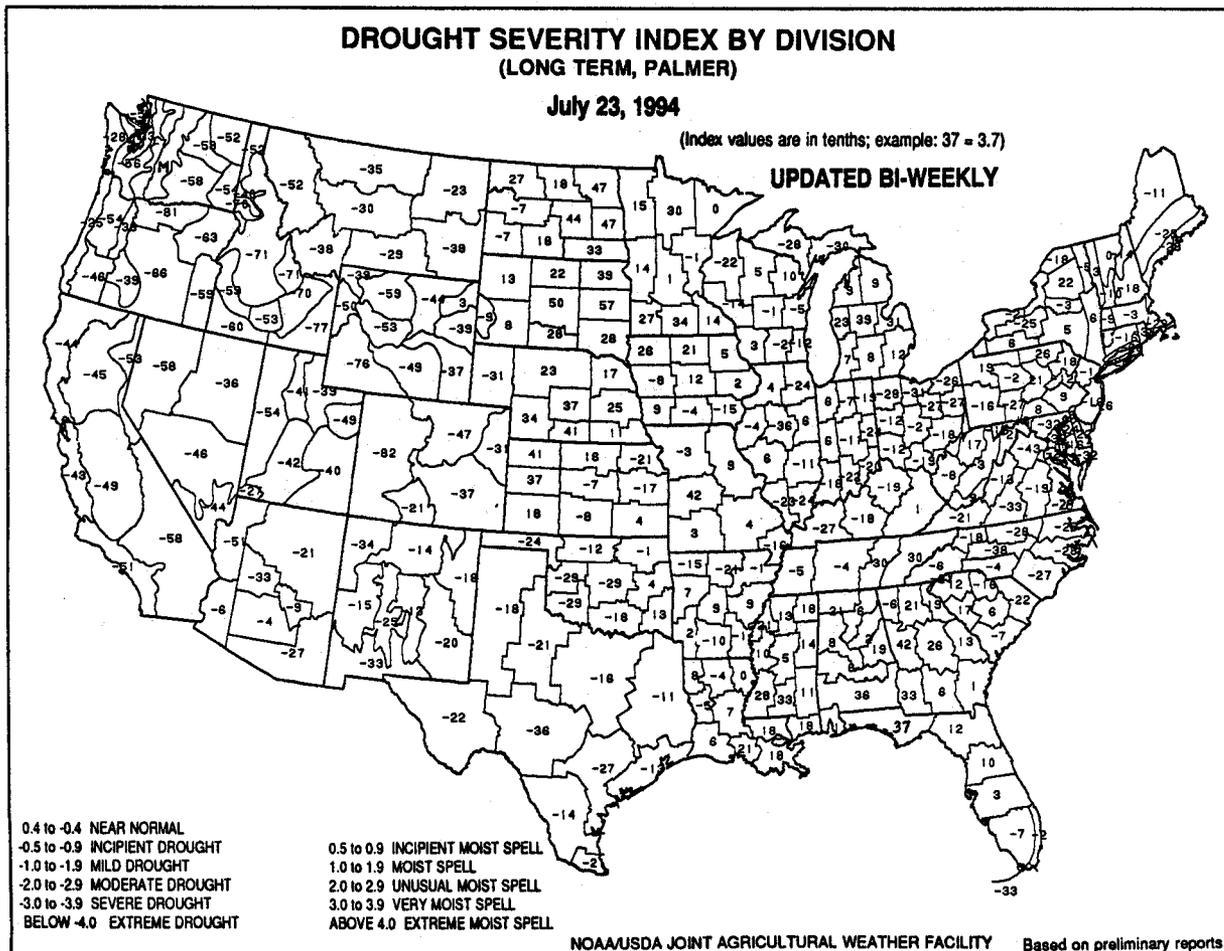
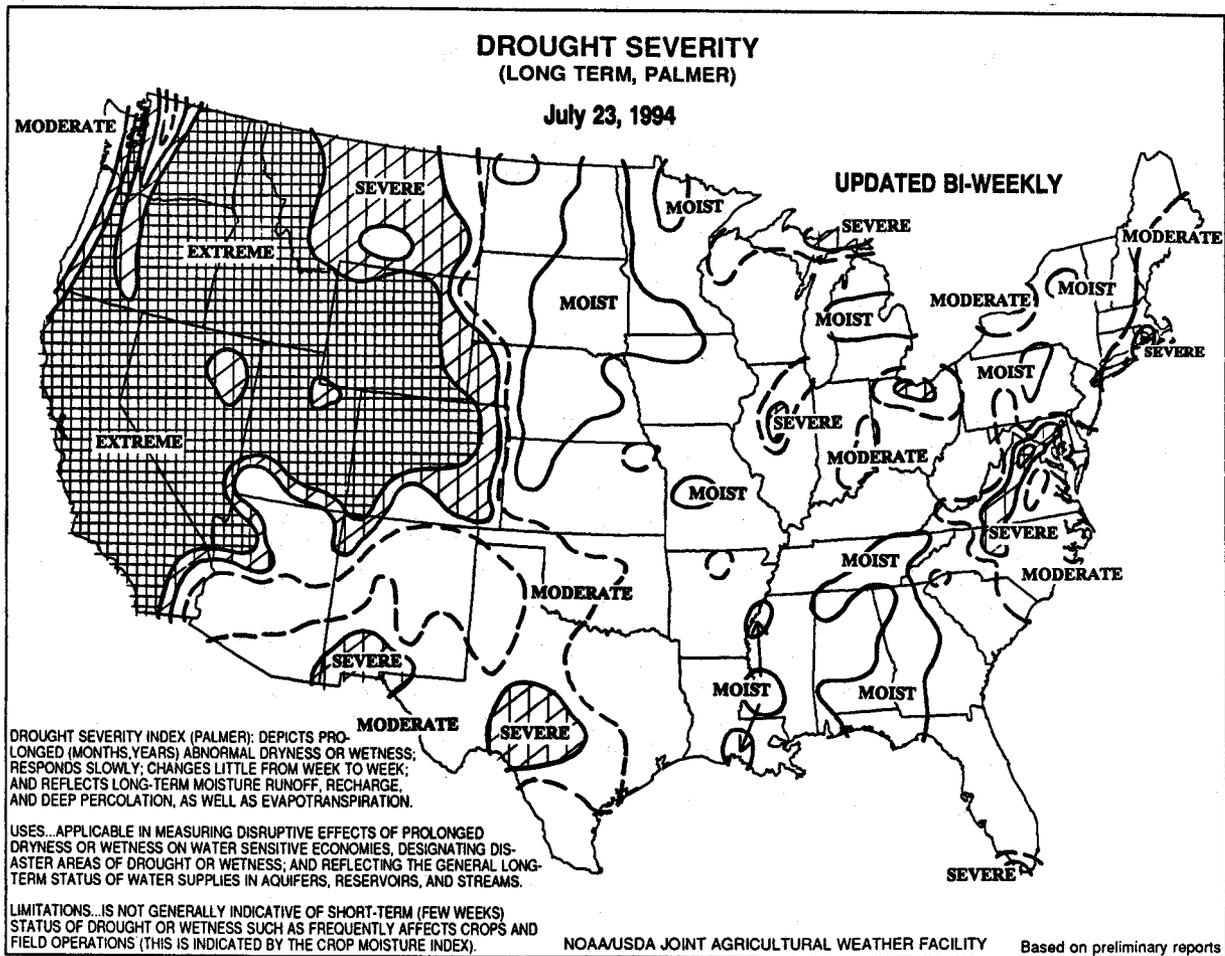
Widespread showers accompanied a slow-moving cold front during its 4-day trek across the Corn Belt. Farther east, wet weather covered the Atlantic Coast States, in part due to the passage of a tropical depression. Rainy, humid weather continued to plague the Southeast and Mississippi Delta regions. In the Northwest, heat intensified, with weekly temperatures up to 10°F above normal. Early in the week, an upper level disturbance over the Southwest temporarily broke a long spell of hot weather. In El Paso, TX, a 50-day string of above-normal temperatures (May 28 to July 16) and a 23-day stretch with highs at or above 100°F (June 23 to July 15) came to an end. Isolated but strong thunderstorms struck Arizona and surrounding States. But farther north, intense heat gripped the Northwest. On July 20, Sea-Tac Airport in Seattle, WA reached 100°F for the first time since the weather

(Continued to p. 9)

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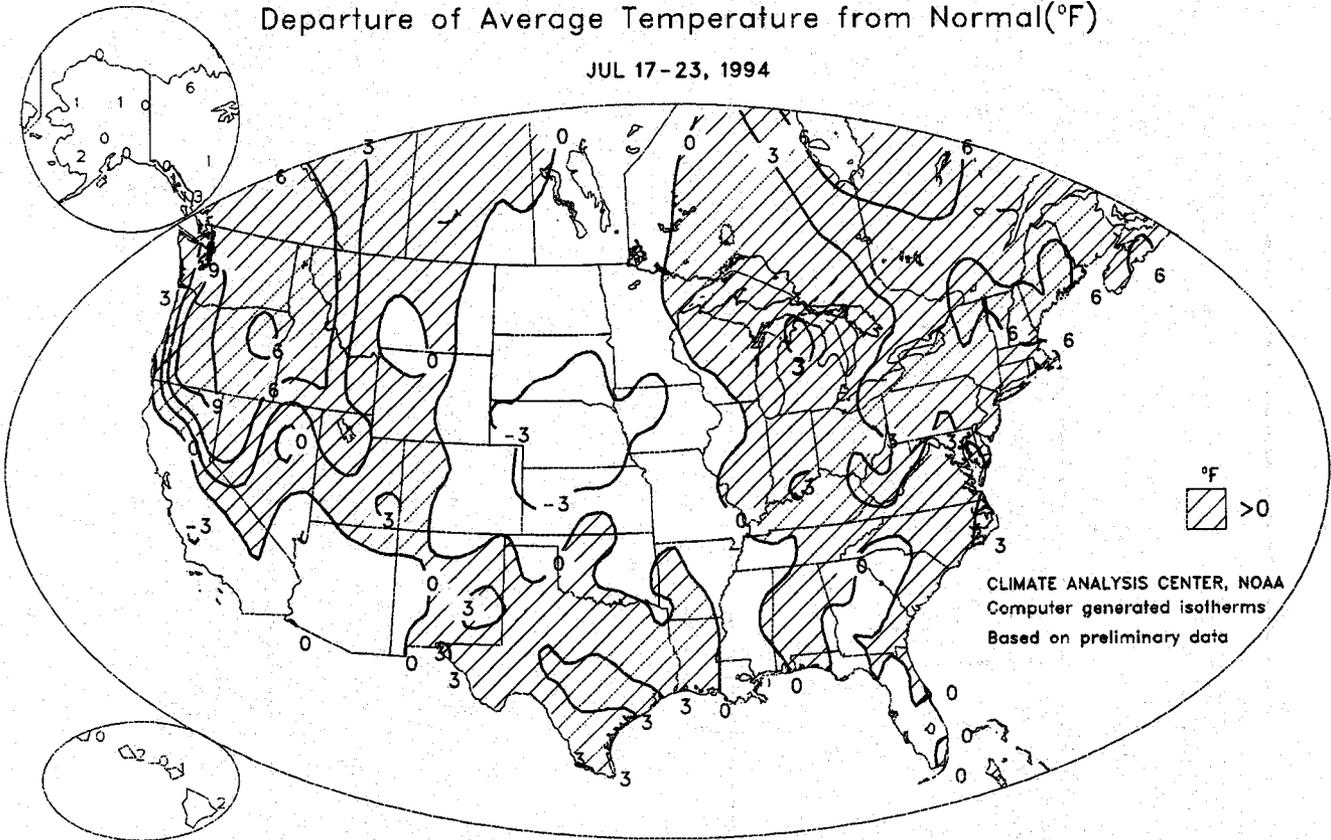
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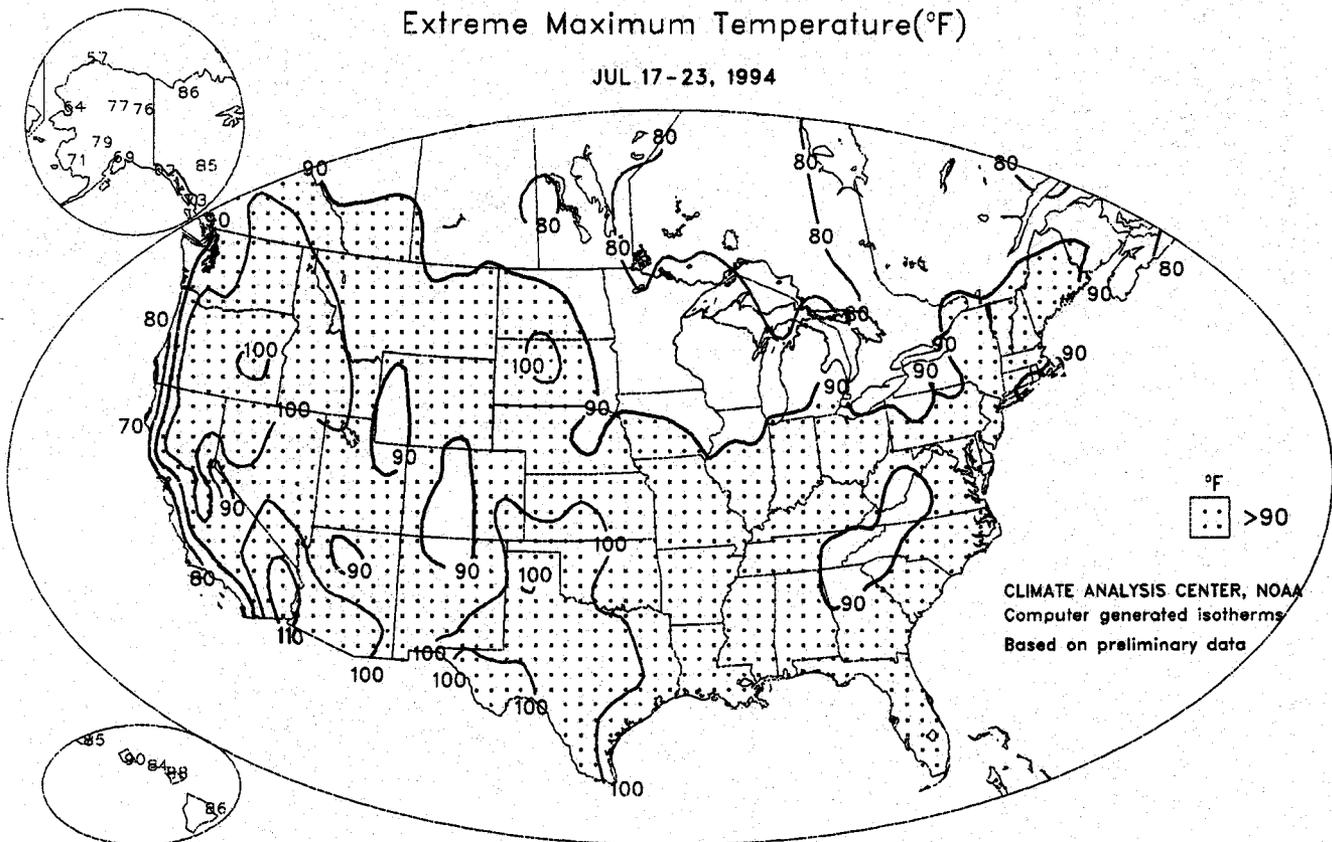
### Departure of Average Temperature from Normal(°F)

JUL 17-23, 1994



### Extreme Maximum Temperature(°F)

JUL 17-23, 1994



# National Weather Data for Selected Cities

Weather Data for the Week Ending July 23, 1994

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS						
	AVERAGE	MAXIMUM	MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	TOTAL, IN., SINCE Jan 1		PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	TEMP. °F		PRECIP.
													90 AND ABOVE					32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	90	71	92	70	80	0	1.2	.0	1.1	10.9	143	36.0	108	96	56	5	0	3	1	
MOBILE	91	72	94	70	81	-1	2.9	1.3	1.1	15.4	154	37.7	102	97	61	4	0	4	3	
MONTEGOMERY	92	72	95	70	82	1	1.1	1.1	.6	13.2	143	34.1	100	94	56	6	0	3	1	
AK ANCHORAGE	65	52	69	49	58	0	2	.2	.1	1.7	74	5.0	83	88	54	0	0	0	0	
BARROW	50	32	57	29	41	1	.3	.1	.6	67	1.2	71	96	73	0	0	5	4	0	
FAIRBANKS	73	52	81	47	63	0	1	.3	.1	2.8	103	4.1	82	85	46	0	0	2	2	
JUNEAU	63	50	72	44	57	0	1.1	.1	.6	3.5	57	23.5	98	97	67	0	0	4	1	
KODIAK	56	49	64	45	52	-3	1.6	.8	1.0	10.3	138	52.8	153	98	72	0	0	6	1	
NOKE	60	46	66	38	53	1	.6	.1	.4	1.5	56	4.3	73	95	72	0	0	4	0	
AZ PHOENIX	101	80	108	73	90	-4	.7	.2	.7	3	2.5	77	59	24	7	0	0	0	0	
PRESCOTT	85	63	92	57	74	0	.4	.4	.3	.9	34	4.4	49	78	30	2	0	1	0	
TUCSON	100	74	107	70	87	0	1	.5	.1	.4	19	3.1	67	63	21	7	0	0	0	
TUMACACI	105	83	111	78	94	0	.7	.0	.7	17	.7	63	41	19	7	0	2	0	0	
AR FORT SMITH	94	73	100	69	83	1	.2	.4	.2	11.1	198	33.2	143	92	46	6	0	1	0	
LITTLE ROCK	92	71	94	68	81	0	1.1	.5	.6	11.3	171	35.9	129	92	57	7	0	3	1	
CA BAKERSFIELD	97	70	102	64	84	-1	.7	.0	.7	0	4.2	110	49	21	7	0	0	0	0	
FRESNO	62	52	65	50	57	0	1	.1	.1	.8	132	19.5	93	94	78	0	0	1	0	
FRESNO	96	68	103	64	82	0	.7	.0	.7	0	6.3	91	61	21	6	0	0	0	0	
LOS ANGELES	72	61	76	60	67	-3	0	.0	.0	0	6.2	81	89	70	0	0	0	0	0	
REDDING	100	69	106	67	85	3	0	.0	.0	4	15.0	79	65	22	7	0	0	0	0	
SACRAMENTO	87	57	100	55	72	-4	0	.0	.0	0	6.7	63	87	36	1	0	0	0	0	
SAN DIEGO	73	65	75	65	69	-2	.7	.0	.7	.1	78	8.2	132	86	70	0	0	0	0	
SAN FRANCISCO	71	56	73	53	63	1	.7	.0	.7	25	10.7	87	89	58	0	0	0	0	0	
CO DENVER	89	59	97	54	74	0	.2	.2	.2	1.5	46	6.8	71	82	22	4	0	2	0	
GRAND JUNCTION	96	67	100	64	81	1	0	.2	.0	.7	3	3.1	57	71	14	7	0	0	0	
FURELO	94	60	99	53	77	-1	.7	.5	.7	2.6	95	8.6	137	79	22	5	0	0	0	
CT BRIDGEPORT	86	72	91	68	79	5	.2	.6	.2	2.3	37	22.6	94	92	63	2	0	1	0	
HARTFORD	89	70	95	66	79	5	.7	.0	.6	5.4	89	27.0	111	93	55	3	0	3	1	
DC WASHINGTON	91	75	94	72	83	3	.5	.4	.2	3.4	55	23.5	111	92	53	6	0	5	0	
FL PANAMA CITY	87	76	89	74	81	0	.2	-.9	.2	10.9	81	25.0	68	95	64	0	0	2	0	
DAYTONA BEACH	90	72	93	70	81	0	1.0	-.2	.7	11.1	110	30.9	126	100	58	5	0	3	1	
JACKSONVILLE	92	73	96	72	83	1	1.8	.5	1.3	19.2	195	33.5	126	95	59	5	0	5	1	
KEY WEST	90	77	91	74	84	-1	1.2	.4	.8	1.9	24	12.4	67	83	64	4	0	4	1	
MIAMI	90	77	92	73	83	1	1.6	.4	1.2	7.5	55	25.5	88	85	57	4	0	5	1	
ORLANDO	91	73	94	72	82	0	1.6	.0	1.3	19.5	153	34.2	128	94	53	6	0	5	1	
TALLAHASSEE	91	71	96	69	81	0	.8	-.2	.5	15.0	111	45.6	118	95	56	6	0	5	0	
TAMPA	91	73	93	71	82	0	3.4	1.9	2.1	13.5	132	21.8	97	96	61	5	0	2	0	
WEST PALM BEACH	89	73	90	72	81	-2	.7	.6	.3	12.3	98	36.3	119	92	58	3	0	4	0	
GA ATLANTA	89	73	90	72	81	2	.8	.4	.4	16.6	228	37.1	119	96	59	4	0	4	0	
AUGUSTA	91	70	93	69	81	0	.6	.4	.5	7.2	59	23.8	87	98	60	6	0	3	1	
MACON	88	72	91	71	80	-2	2.4	1.4	1.9	21.9	323	40.1	144	98	63	1	0	3	1	
SAVANNAH	92	74	96	72	83	-1	2.0	.6	1.8	12.7	124	30.3	108	94	54	5	0	3	1	
HI HILO	84	73	86	71	78	4	4.0	1.7	1.5	21.9	165	90.2	124	95	72	3	0	7	3	
HONOLULU	88	77	90	75	83	2	.2	.1	.7	.3	32	11.5	99	74	55	0	0	2	0	
KAHULUI	85	74	88	70	80	1	.7	.1	.7	1.4	264	9.0	70	78	61	0	0	0	0	
LIIHUE	84	76	85	74	80	1	.3	.3	.1	2.3	72	19.4	83	83	69	0	0	0	0	
ID BOISE	99	65	106	55	82	7	0	.1	.0	.3	31	5.0	69	49	16	7	0	0	0	
LEWISTON	99	68	108	62	84	9	0	.1	.0	1.3	71	5.9	79	39	15	6	0	0	0	
POCATELLO	93	52	100	46	73	1	1	.0	.1	.4	24	4.4	60	92	15	6	0	1	0	
IL CHICAGO	86	66	90	63	76	2	1.1	.2	.8	7.7	120	16.2	85	90	51	1	0	4	1	
MOLINE	85	64	90	59	75	-1	.8	.3	.7	10.5	132	19.1	87	95	52	1	0	3	1	
PEORIA	88	65	93	60	77	1	.9	.1	.7	3.2	44	12.1	59	95	50	2	0	2	1	
QUINCY	85	66	88	62	76	-1	.7	-.0	.7	3.0	41	12.4	58	88	51	0	0	1	0	
ROCKFORD	83	63	84	58	73	-1	.6	.4	.4	8.3	109	17.5	89	100	60	0	0	2	0	
SPRINGFIELD	87	67	93	65	77	0	1.0	.2	.9	8.0	132	23.5	119	92	53	1	0	3	1	
IN EVANSVILLE	91	71	95	66	81	2	.2	.8	.2	5.6	79	19.7	72	89	48	6	0	1	0	
FORT WAYNE	85	65	93	60	75	1	.5	.2	.3	6.4	104	18.9	96	95	57	1	0	3	0	
INDIANAPOLIS	87	67	94	65	77	2	.3	.8	.3	8.0	118	20.7	90	89	50	2	0	1	0	
SCOTT BEND	83	66	92	64	75	1	1.2	.3	.6	9.3	133	17.6	83	94	60	1	0	5	1	
IA DES MOINES	85	64	95	60	75	-1	.5	.3	.5	8.6	114	16.1	83	93	50	1	0	3	0	
SIOUX CITY	84	61	90	58	73	-4	.7	.7	.7	7.5	122	12.6	82	95	53	1	0	0	0	
WATERLOO	82	62	85	60	72	-2	1.5	.4	1.1	10.9	134	17.9	91	95	60	0	0	2	1	
KS CONCORDIA	88	65	94	60	76	-4	.6	.2	.4	7.6	106	11.8	68	92	48	1	0	4	0	
DODGE CITY	92	65	99	61	79	-2	.9	.1	.6	6.2	112	9.9	75	84	37	4	0	2	1	
GOODLAND	89	57	96	52	73	-3	.7	.6	.7	3.7	68	8.6	71	88	33	3	0	0	0	
TOPEKA	88	67	95	61	78	-1	.6	.2	.5	4.8	58	11.5	57	93	44	2	0	2	0	
WICHITA	91	71	99	67	81	0	1.8	1.1	1.4	7.7	93	12.7	63	89	44	5	0	2	1	
KY BOWLING GREEN	88	70	92	67	79	0	.4	.7	.3	8.4	108	36.1	120	98	57	3	0	3	0	
LEXINGTON	89	69	93	65	79	3	.3	.9	.1	5.2	70	30.9	118	95	57	4	0	3	0	
LOUISVILLE	91	71	97	68	81	4	.7	.4	.6	4.1	59	22.4	85	92	50	4	0	2	1	
LA BATON ROUGE	89	74	91	73	81	-1	1.0	.6	.8	12.4	132	40.3	115	100	63	4	0	2	1	
LAKE CHARLES	93	76	96	72	85	2	.8	.4	.5	10.8	122	24.0	82	97	59	7	0	4	1	
NEW ORLEANS	90	72	93	70	81	-1	2.8	1.4	1.6	17.8	171	32.9	93	96	62	4	0	5	2	
SHREVEPORT	94	74	96	71	84	2	.2	.6	.2	9.3	131	31.1	107	96	52	7	0	1	0	

Based on 1961-90 normals.

Weather Data for the Week Ending July 23, 1994

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
ME CARIBOU	82	62	90	54	72	6	.5	-.5	.3	7.6	131	23.1	127	91	43	1	0	4	0		
ME PORTLAND	85	66	94	62	76	6	.3	-.4	.3	2.0	34	23.2	96	95	59	2	0	2	0		
MD BALTIMORE	89	73	92	70	81	3	1.7	-.9	.7	5.5	86	28.4	125	98	63	2	0	4	0		
MA BOSTON	90	73	93	70	81	4	1.7	-.7	1.3	2.9	43	25.0	101	96	56	6	0	4	1		
MA CHATHAM	88	71	97	66	80	6	.1	-.5	.1	1.7	32	24.9	109	93	57	5	0	1	0		
MI ALPENA	78	68	81	61	73	5	.1	-.6	.1	2.0	35	27.8	113	96	83	0	0	1	0		
MI DETROIT	82	60	87	56	71	3	1.9	1.2	.7	8.3	160	16.8	110	99	60	0	0	6	1		
MI FLINT	85	67	92	61	76	3	1.9	1.2	1.7	6.6	111	18.3	103	89	57	1	1	1	1		
MI GRAND RAPIDS	83	63	89	57	73	2	1.2	.6	1.1	9.3	179	19.5	125	95	57	0	0	4	1		
MI HOUGHTON LAKE	82	65	88	63	74	2	2.1	1.4	1.9	15.2	250	27.0	146	95	59	0	0	2	1		
MI LANSING	81	63	85	58	72	4	.9	.3	.3	6.0	123	15.1	105	95	59	0	0	5	0		
MI MARQUETTE	83	63	90	57	73	1	1.1	.5	1.0	9.4	178	19.0	119	98	55	1	0	2	1		
MI MUSKEGON	76	58	82	53	67	2	.4	-.3	.1	3.9	70	12.9	72	95	55	0	0	5	0		
MI SAULT ST. MARIE	80	65	86	59	72	2	.3	-.2	.2	7.3	191	17.7	113	94	59	0	0	3	0		
MI SAGINAW	77	57	82	52	67	3	2.0	1.4	1.6	6.0	118	16.1	96	97	43	0	0	5	1		
MI ALEXANDRIA	78	60	81	59	69	-3	.5	-.2	.5	3.5	54	9.6	66	95	51	0	0	1	1		
MI DULUTH	76	58	81	53	67	0	.8	.0	.3	6.4	99	16.0	102	92	50	0	0	4	0		
MI INT'L FALLS	77	57	82	53	67	0	.6	-.2	.3	7.9	119	12.4	94	96	55	0	0	5	0		
MI MINNEAPOLIS	82	61	88	57	71	-3	.6	-.2	.4	7.1	106	15.4	94	91	53	0	0	4	0		
MI ROCHESTER	79	59	84	57	69	-2	1.6	-.7	1.4	6.0	88	16.5	101	96	61	0	0	2	1		
MI GREENWOOD	81	71	94	69	81	0	3.6	2.7	3.2	11.6	154	31.0	94	99	58	6	0	3	1		
MI JACKSON	88	71	91	68	79	-2	.5	-.4	.4	10.8	174	37.4	112	96	60	3	0	2	0		
MI MERIDIAN	92	71	95	69	81	0	1.0	-.2	.7	14.8	198	45.2	130	95	52	5	0	2	1		
MO CAPE GIRARDEAU	91	71	95	66	81	1	.3	-.5	.2	4.3	71	23.1	85	95	50	4	0	3	0		
MO COLUMBIA	87	66	95	63	77	-1	-.1	-.8	.0	4.2	62	22.5	104	95	53	1	0	2	0		
MO KANSAS CITY	88	66	96	60	77	-3	-.2	-.8	.3	5.0	63	15.7	75	93	46	2	0	2	0		
MO SAINT LOUIS	90	71	96	68	81	1	.5	-.4	.5	3.6	54	20.3	95	87	45	3	0	1	1		
MO SPRINGFIELD	89	68	96	66	79	0	3.2	2.6	3.0	7.4	101	28.7	122	91	48	3	0	2	1		
MT BILLINGS	89	59	94	35	74	0	.7	-.2	.7	3.9	144	8.7	89	58	20	4	0	1	0		
MT GLASGOW	87	56	92	49	72	0	.7	-.4	.7	2.7	78	6.5	94	89	24	2	0	0	0		
MT GREAT FALLS	88	52	96	45	70	1	.1	-.3	.1	2.3	68	7.2	73	89	21	3	0	2	0		
MT HAVRE	89	52	95	48	71	0	.7	-.3	.7	3.9	137	4.8	69	91	19	3	0	1	0		
MT HELENA	89	53	96	49	71	1	.0	-.2	.0	1.4	53	5.0	70	89	23	2	0	0	0		
MT KALISPELL	90	49	96	43	70	6	-.1	-.2	.0	2.2	71	7.1	73	89	19	4	0	0	0		
MT MILLS CITY	91	59	99	33	75	-1	-.1	-.3	.1	1.3	32	5.4	58	66	20	4	0	1	0		
MT MISSOULA	93	55	100	49	74	7	.7	-.2	.7	2.3	93	8.4	102	89	20	5	0	0	0		
NE GRAND ISLAND	84	61	89	56	73	-4	-.4	-.2	.0	1.49	149	14.7	95	93	49	0	0	1	0		
NE LINCOLN	85	63	91	56	74	-5	.7	-.7	.7	7.9	125	12.3	75	96	53	1	0	0	0		
NE NORFOLK	86	62	91	58	74	-2	.7	-.7	.7	13.9	199	18.6	116	91	46	1	0	1	0		
NE NORTH PLATTE	85	58	91	52	71	-3	.7	-.1	.3	9.3	162	12.8	97	95	46	2	0	4	0		
NE OMAHA	87	63	94	58	75	-3	.7	-.8	.7	12.3	189	17.7	103	95	48	2	0	0	0		
NE SCOTTSBLUFF	87	57	98	51	72	-3	-.4	-.1	.3	5.3	124	10.5	98	94	31	2	0	2	0		
NE VALENTINE	85	56	93	49	71	-5	.7	-.7	.7	5.6	94	9.6	69	85	33	1	0	0	0		
NV ELY	90	50	93	44	70	2	.7	-.2	.7	.7	0	5.4	92	82	13	4	0	0	0		
NV LAS VEGAS	102	77	106	68	89	-2	.1	.0	.1	.1	31	.8	35	49	15	7	0	2	0		
NV RENO	97	62	101	58	79	7	.1	.0	.1	.1	14	3.2	70	79	17	7	0	1	1		
NV WINDHOEK	97	59	102	51	78	6	.4	.3	.4	.4	35	4.7	96	82	12	7	0	3	0		
NH CONCORD	88	65	95	60	77	7	.7	.0	.6	4.2	75	20.2	104	96	50	3	0	3	1		
NJ ATLANTIC CITY	86	71	91	65	78	3	1.5	.6	1.4	4.4	81	26.8	120	97	68	1	0	2	1		
NM ALBUQUERQUE	93	66	96	65	79	0	.1	-.2	.1	.4	25	3.2	81	63	21	6	0	2	0		
NM CLOVIS	94	67	100	65	80	3	.7	.2	.6	2.5	53	7.0	79	78	25	6	0	2	1		
NM ROSWELL	99	69	102	67	84	3	.7	-.4	.7	.1	5	5.1	92	58	19	7	0	1	0		
NY ALBANY	86	67	91	63	76	4	1.1	.4	.5	6.7	112	22.7	114	95	60	2	0	5	0		
NY BINGHAMTON	82	65	86	58	73	4	1.8	1.0	.8	10.0	160	25.9	128	97	63	0	0	4	2		
NY BUFFALO	86	67	91	60	77	5	.7	-.7	.7	5.2	89	19.7	101	87	52	2	0	1	0		
NY NEW YORK	89	74	94	70	81	5	1.2	.3	.8	5.3	80	26.0	110	85	60	3	0	3	1		
NY ROCHESTER	88	66	97	59	77	6	.1	-.6	.0	2.6	51	15.2	90	91	46	2	0	2	0		
NY SYRACUSE	86	66	92	60	76	5	.7	-.9	.7	4.7	71	23.5	114	90	54	2	0	0	0		
NC ASHEVILLE	83	65	86	64	74	1	2.4	1.3	1.3	10.7	129	33.7	108	100	64	0	0	4	2		
NC CHARLOTTE	88	71	91	69	79	0	1.0	.1	.6	6.9	110	21.8	88	94	60	3	0	5	1		
NC GREENSBORO	87	70	90	68	79	2	1.1	.0	.6	5.5	77	19.9	82	98	60	2	0	3	1		
NC HATTERAS	88	77	91	73	83	4	1.3	.1	.5	4.7	61	28.1	97	92	69	2	0	5	0		
NC NEW BERN	91	74	99	72	83	3	1.1	-.6	.3	3.2	31	20.2	66	95	58	4	0	6	0		
NC RALEIGH	88	71	92	69	80	1	.9	.0	.3	4.1	62	20.2	84	97	65	2	0	5	0		
NC WILMINGTON	89	75	93	73	82	2	1.3	-.3	.5	5.8	58	27.8	91	95	61	4	0	5	0		
ND BISMARCK	85	55	99	45	70	-1	-.1	-.3	.1	5.1	117	8.4	85	92	40	2	0	2	0		
ND FARGO	78	60	83	56	69	-3	.3	-.3	.1	8.1	168	13.8	122	90	53	0	0	4	0		
ND GRAND FORKS	80	59	86	53	70	0	.2	-.4	.1	10.1	207	14.2	136	91	48	0	0	3	0		
ND WILLISTON	85	54	94	45	70	-2	.7	-.4	.7	4.3	109	10.4	118	89	34	1	0	1	0		
OH AKRON-CANTON	84	66	90	61	75	3	.4	-.5	.4	5.3	85	23.2	112	90	54	1	0	1	0		
OH CINCINNATI	86	67	91	64	77	1	.3	-.6	.2	8.9	127	24.6	100	95	59	1	0	3	0		
OH CLEVELAND	86	66	92	62	76	4	.8	.0	.8	5.5	87	15.5	77	89	53	1	0	2	1		
OH COLUMBUS	87	66	93	61	77	4	1.1	-.7	.1	6.2	94	18.9	88	91	50	1	0	3	0		
OH DAYTON	86	67	92	62	76	2	1.7	.9	1.1	8.1	124	23.3	108	90	53	1	0	4	1		

Based on 1961-90 normals.

Weather Data for the Week Ending July 23, 1994

STATES  AND  STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1		PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	TEMP. °F		PRECIP.
													80 AND ABOVE					32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OHIO	85	64	93	57	74	2	1.4	-.7	1.4	5.7	93	18.5	102	97	55	1	0	3	1	
OHIO YOUNGSTOWN	85	63	91	56	74	3	.5	-.4	.5	4.3	62	20.3	97	92	51	1	0	1	0	
OKLAHOMA OKLAHOMA CITY	94	69	99	63	82	-1	1.0	-.3	1.0	2.1	33	14.1	72	90	37	6	0	1	0	
OKLAHOMA TULSA	92	73	96	69	82	-1	1.0	-.3	1.0	9.1	134	24.7	107	89	45	0	0	1	1	
OREGON ASTORIA	69	53	82	50	61	1	.2	-.2	.2	3.0	91	34.6	97	98	75	5	0	0	0	
OREGON BURNS	95	52	99	46	74	6	.1	-.1	.1	.5	44	2.9	53	50	12	7	7	0	0	
OREGON MEDFORD	103	65	109	58	84	10	.3	-.2	.3	3.3	43	5.1	54	75	16	7	7	1	1	
OREGON PENDLETON	98	65	106	58	82	8	.1	-.1	.1	1.3	129	8.0	118	49	15	6	6	0	0	
OREGON PORTLAND	95	62	103	58	79	10	.0	-.1	.0	1.7	88	14.5	76	78	24	5	0	0	0	
OREGON SALEM	97	58	103	48	78	11	.0	-.1	.0	1.3	65	16.0	77	81	21	6	6	0	0	
PENNSYLVANIA ALLENTOWN	88	71	92	63	79	5	2.4	1.5	2.2	9.3	138	29.6	124	91	57	3	0	4	1	
PENNSYLVANIA ERIE	84	68	91	62	76	4	.1	-.7	.0	6.4	97	20.2	97	84	51	2	2	2	1	
PENNSYLVANIA HARRISBURG	87	71	94	65	79	3	4.2	3.4	3.8	8.5	124	29.3	126	96	57	1	0	4	1	
PENNSYLVANIA PHILADELPHIA	91	75	94	73	83	8	4.4	3.3	3.5	9.6	125	30.2	116	88	58	5	0	4	2	
PENNSYLVANIA PITTSBURGH	86	67	93	63	77	4	.8	-.1	.8	5.0	77	22.4	104	83	49	1	0	1	2	
PENNSYLVANIA SCRANTON	86	67	91	59	76	4	2.3	1.5	1.6	6.1	88	21.9	108	100	55	2	0	5	1	
RHODE ISLAND PROVIDENCE	85	70	92	65	77	4	.1	-.6	.1	3.7	64	23.6	94	96	66	1	0	2	0	
SOUTH CAROLINA CHARLESTON	91	74	95	74	83	1	3.0	1.4	2.4	16.7	145	32.4	111	94	59	4	0	3	1	
SOUTH CAROLINA COLUMBIA	92	72	95	70	82	1	1.5	-.3	.8	13.4	153	28.4	98	93	59	6	0	6	1	
SOUTH CAROLINA FLORENCE	91	74	97	73	82	1	1.0	-.3	.7	6.4	76	21.6	84	95	56	3	0	3	1	
SOUTH CAROLINA GREENVILLE	86	68	88	67	77	-1	2.8	1.8	2.2	15.5	188	31.7	104	96	67	0	0	6	1	
SOUTH DAKOTA ABERDEEN	82	62	92	58	72	-1	.6	-.1	.3	6.3	109	10.6	83	91	49	1	0	4	0	
SOUTH DAKOTA HURON	81	59	91	56	70	-5	.6	.0	.5	8.0	147	14.3	109	92	52	1	0	2	1	
SOUTH DAKOTA RAPID CITY	88	57	96	53	73	0	T	-.4	T	1.3	28	5.5	49	74	25	3	0	2	0	
SOUTH DAKOTA SIOUX FALLS	84	61	89	58	72	-2	T	-.6	T	7.7	143	14.1	103	94	51	0	0	1	0	
TENNESSEE CHATTANOOGA	89	70	91	69	80	1	.4	-.8	.4	16.5	231	50.4	159	99	57	3	0	1	0	
TENNESSEE KNOXVILLE	87	69	89	67	78	1	.3	-.8	.1	9.4	125	48.0	167	97	61	0	0	3	0	
TENNESSEE MEMPHIS	91	74	95	71	83	0	1.2	-.3	.9	8.6	135	32.4	107	93	53	5	0	4	1	
TENNESSEE NASHVILLE	88	71	93	68	79	0	2.4	1.5	1.3	10.5	160	38.1	136	92	61	2	0	3	2	
TEXAS ABILENE	97	73	99	72	85	1	T	-.5	T	.6	13	15.0	117	88	28	7	0	0	0	
TEXAS AMARILLO	91	66	97	63	79	0	2.4	1.8	2.4	5.1	91	10.0	89	76	29	5	0	1	1	
TEXAS AUSTIN	100	76	103	74	88	3	.0	-.4	.0	1.0	19	11.6	63	87	27	7	0	0	0	
TEXAS BRAUNSBURG	94	76	97	74	85	2	.4	-.8	.4	14.4	150	40.7	134	97	55	7	0	2	0	
TEXAS BROWNSVILLE	95	75	97	73	85	1	.0	-.4	.0	3.3	80	9.6	81	93	43	7	0	0	0	
TEXAS CORPUS CHRISTI	95	74	96	72	84	0	.0	-.5	.0	3.7	72	15.4	104	96	47	7	0	0	0	
TEXAS DEL RIO	98	75	99	73	86	2	.0	-.4	.0	2.9	69	12.5	93	88	43	7	0	0	0	
TEXAS EL PASO	99	73	102	69	86	3	.1	-.3	.1	.8	44	2.9	85	58	23	7	0	2	0	
TEXAS FORT WORTH	98	77	103	75	88	4	T	-.5	T	5.9	119	20.4	96	88	40	7	0	0	0	
TEXAS GALVESTON	91	83	92	80	87	3	T	-.9	T	4.9	66	14.1	66	79	63	7	0	0	0	
TEXAS HOUSTON	98	77	99	75	87	4	.2	-.8	.2	4.9	51	19.3	67	95	50	7	0	1	0	
TEXAS LUBBOCK	96	70	101	66	83	3	T	-.5	T	1.9	42	9.7	99	88	25	6	0	0	0	
TEXAS MIDLAND	97	68	100	64	83	1	.0	-.4	.0	2.7	104	5.1	72	88	22	7	0	0	0	
TEXAS SAN ANGELO	100	73	102	70	86	3	.0	-.2	.0	1.2	39	7.6	71	88	22	7	0	0	0	
TEXAS SAN ANTONIO	101	77	103	75	89	4	.0	-.4	.0	2.2	39	18.6	108	83	28	7	0	0	0	
TEXAS VICTORIA	97	77	98	75	87	4	.0	-.9	.0	5.5	70	19.0	81	92	35	7	0	0	0	
TEXAS WACO	99	77	102	74	88	2	.1	-.4	.1	2.3	47	18.6	100	83	30	7	0	1	0	
TEXAS WICKITA FALLS	98	72	102	69	85	1	.1	-.2	.1	.2	4	6.4	35	90	33	7	0	0	0	
UTAH CEDAR CITY	92	59	96	53	76	1	T	-.3	T	.1	9	4.0	66	52	16	6	0	0	0	
UTAH SALT LAKE CITY	98	67	101	64	83	4	T	-.2	T	.2	3	7.7	79	71	16	7	0	1	0	
VERMONT BURLINGTON	88	68	94	59	78	7	.3	-.3	.3	6.7	109	21.0	119	91	56	3	0	6	0	
VIRGINIA NORFOLK	90	75	93	74	82	4	2.3	1.1	.7	8.9	119	31.1	123	91	63	4	0	6	1	
VIRGINIA RICHMOND	90	71	93	70	81	3	2.5	1.4	1.5	6.3	85	26.9	111	93	27	5	0	4	2	
VIRGINIA ROANOKE	86	69	92	68	78	2	3.3	2.4	1.5	6.7	110	29.5	132	96	62	1	0	5	2	
WASHINGTON QUILLAYUTE	75	53	89	50	64	5	T	-.6	T	5.7	112	54.9	97	95	63	0	0	0	0	
WASHINGTON SEATTLE-TACOMA	87	61	100	55	74	9	T	-.2	T	1.5	72	15.4	81	83	34	3	0	0	0	
WASHINGTON SPOKANE	94	63	102	56	78	9	.0	-.1	.0	.9	50	6.2	66	76	15	5	0	0	0	
WASHINGTON YAKIMA	97	58	103	51	78	7	.0	.0	.0	.6	98	4.2	99	84	21	6	0	0	0	
WEST VIRGINIA BECKLEY	81	64	85	61	73	3	.8	-.3	.4	9.2	124	33.6	140	94	61	0	0	5	0	
WEST VIRGINIA CHARLESTON	87	68	93	66	78	2	.3	-.8	.2	7.6	104	35.1	145	98	59	2	0	4	1	
WEST VIRGINIA HUNTINGTON	88	68	92	66	78	4	1.3	-.1	1.2	5.0	70	30.3	123	93	53	3	0	2	1	
WEST VIRGINIA PARKERSBURG	86	67	92	64	77	2	.6	-.4	.2	7.7	108	32.3	133	100	58	1	0	4	1	
WISCONSIN GREEN BAY	83	64	87	61	73	3	2.8	2.1	1.8	9.3	163	20.6	136	96	61	0	0	5	1	
WISCONSIN LACROSSE	82	65	86	61	74	0	T	-.9	T	2.7	40	12.7	76	92	54	0	0	0	0	
WISCONSIN MADISON	84	64	86	57	74	2	.7	-.2	.4	9.6	145	18.2	104	92	52	0	0	4	0	
WISCONSIN MILWAUKEE	88	68	89	66	78	6	.4	-.4	.3	5.6	96	15.5	87	90	52	0	0	3	0	
WISCONSIN WAUSAU	80	62	85	56	71	1	.7	-.2	.3	5.6	81	12.7	75	94	50	0	0	5	0	
WYOMING CASPER	89	55	98	51	72	1	.0	-.3	.0	2.8	113	5.7	69	90	20	3	0	0	0	
WYOMING CHEYENNE	83	53	92	47	68	-1	T	-.5	T	3.1	85	8.7	95	95	26	2	0	1	0	
WYOMING LANDER	88	57	94	52	73	1	T	-.2	T	.4	18	4.8	55	47	15	3	0	0	0	
WYOMING SHERIDAN	88	54	97	49	71	1	.1	.0	.1	3.2	108	9.3	99	74	23	3	0	2	0	

Based on 1961-90 normals.

## CUMULATIVE GROWING DEGREE DAYS (CORN\*) March 1 - July 23, 1994

STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL
AL ANNISTON	2834	+ 197	RUSSELL	2357	+ 293	YOUNGSTOWN	1600	+ 151
AL BIRMINGHAM	2833	+ 149	SALINA	2394	+ 241	ZANESVILLE	1817	+ 98
AL MOBILE	3220	+ 60	TOPEKA/BILLARD	2315	+ 194	OK ALTUS	2855	+ 84
AL MONTGOMERY	3117	+ 318	WICHITA	2471	+ 160	GAGE	2552	+ 198
AL MUSCLE SHOALS	2740	+ 190	KY LEXINGTON	2148	+ 99	HOBART	2720	+ 147
AL OZARK	3104	+ 138	BOWLING GREEN	2364	+ 103	MCALISTER	2808	+ 150
AL TUSCALOOSA	2945	+ 139	PADUCAH	2479	+ 118	PONCA CITY	2742	+ 295
AZ DOUGLAS	2778	+ 274	LA LAFAYETTE	3353	+ 144	TULSA	2712	+ 116
FLAGSTAFF	...	...	LAKE CHARLES	3416	+ 200	OR BAKER	1391	+ 235
PHOENIX	3620	+ 410	MONROE	3209	+ 264	EUGENE	1483	+ 253
TUCSON	3282	+ 348	NEW ORLEANS	3354	+ 136	NORTH BEND	876	+ 155
YUMA	3872	+ 503	SERVIERPORT	3112	+ 186	PENDLETON	1711	+ 217
AR PRESBOTT	2100	+ 376	ME AUGUSTA	1271	+ 121	REDMOND	1356	+ 170
AR EL DORADO	2948	+ 157	CARIBOU	1054	+ 172	PORTLAND	1608	+ 360
FAYETTEVILLE	2483	+ 212	HOULTON	1094	+ 115	SALEM	1573	+ 361
FORT SMITH	2886	+ 281	PORTLAND	1271	+ 209	SEKTON SUMMIT	916	+ 81
JONESBORO	2707	+ 102	MD SALLISBURY	2272	+ 311	PA ALLENTOWN	1964	+ 314
LITTLE ROCK	2870	+ 199	MA WORCESTER	1408	+ 148	PHILADELPHIA	2288	+ 524
TEXARKANA	3006	+ 122	MI GRAND RAPIDS	1578	...	WILLIAMSPORT	1846	+ 263
CA BAKERSFIELD	2752	+ 112	JACKSON	1608	+ 103	SC BRADFORD	3258	+ 311
BLUE CANYON	1172	+ 149	LANSING	1549	+ 19	CHARLESTON	3163	+ 306
DAGGETT	3159	+ 328	MUSKOGON	1367	+ 57	COLUMBIA	3035	+ 273
FOURKA	843	+ 331	PELLSTON	1206	+ 146	FLORENCE	3016	+ 267
FAIRFIELD	2136	+ 226	SAULS STE. MARIE	925	+ 69	SUMNER/SHAW AFB	2921	+ 145
FRESNO	2672	+ 339	TRAVERSE CITY	1378	+ 163	SD ABERDEEN	1712	+ 351
MARYSVILLE	2504	+ 251	DULUTH	1064	+ 158	HURON	1668	+ 144
MT SHASTA	1441	+ 220	INT'L FALLS	1166	+ 120	PIERRE	1834	+ 307
PASO ROBLES	2163	+ 249	MINNEAPOLIS	1637	...	RAPID CITY	1724	+ 326
RED BLUFF	2439	+ 117	ROCHESTER	1506	...	SIOUX FALLS	1837	+ 267
RIVERSIDE	2297	+ 61	ALEXANDRIA	1436	+ 160	WATERLOO	1481	+ 149
SANTA ANA	2558	+ 447	MS BILLOXI	3378	+ 154	TN BRISTOL	2227	+ 159
SAN DIEGO	2057	+ 95	COLUMBUS	3125	+ 415	CHATTAHOOGA	2633	+ 212
SACRAMENTO	2219	+ 172	JACKSON	2975	+ 165	CROSSVILLE	2223	+ 368
THERMAL	3313	+ 18	MERIDIAN	3133	+ 291	MEMPHIS	3000	+ 286
CO ALAMOSA	1307	+ 89	GREENWOOD	3075	+ 230	NASHVILLE	2559	+ 119
DENVER	1998	+ 417	MO COLUMBIA	2181	+ 165	ABILENE	3019	+ 104
EAGLE	1410	+ 134	JOPLIN	2508	+ 172	AMARILLO	2387	+ 146
GRAND JUNCTION	2270	+ 300	SPRINGFIELD	2406	+ 235	AUSTIN	3410	+ 189
LA JUNTA	2250	+ 209	VICHY	2269	+ 127	BROWNSVILLE	3858	+ 90
DE DOVER	2069	+ 32	MT HEBENA	1397	+ 305	COLLEGE STATION	3351	+ 184
WILMINGTON	2158	+ 308	KALISPELL	1156	+ 61	DALHART	2338	+ 228
FL DAYTONA BEACH	3488	+ 198	MILLS CITY	1707	+ 261	DEL RIO	3596	+ 310
FORT MYERS	3914	+ 303	NE GRAND ISLAND	2039	+ 237	DALLAS/FT NORTH	3161	+ 207
GAINESVILLE	3297	+ 22	NORFOLK	2047	+ 316	GALVESTON	3694	+ 315
JACKSONVILLE	3312	+ 142	NORTH PLATTE	1936	+ 299	HOUSTON/INTCNL	3503	+ 338
FORT LAUDERDALE	4269	+ 517	VALENTINE	1824	+ 155	KINGSVILLE/NAS	3744	+ 122
MIAMI	4204	+ 320	SCOTTSBLUFF	1888	+ 319	LARDO	3891	+ 178
MILTON	3240	+ 183	NV SIDNEY	1816	+ 392	LUBBOCK	2784	+ 258
PENSACOLA	3320	+ 119	ELKO	1497	+ 195	MCALLEN	3978	+ 305
ST PETERSBURG	3820	+ 123	ELY	1484	+ 274	MIDLAND	2961	+ 88
TALLAHASSEE	3256	+ 161	LAS VEGAS	3390	+ 522	PALACIOS	3559	+ 139
TAMPA	3762	+ 258	RENO	1895	+ 397	SAN ANTONIO	3529	+ 220
VERO BEACH	3742	+ 270	WINNEMUCCA	1801	+ 327	VICTORIA	3537	+ 212
GA W. PALM BEACH	3972	+ 250	NR CONCORD	1522	+ 205	WACO	3195	+ 68
ATHENS	2789	+ 233	NJ NEWARK	2247	+ 435	WICHITA FALLS	2856	+ 50
AUGUSTA	2918	+ 185	NM ALBUQUERQUE	2513	+ 435	WINK	3135	+ 230
BRUNSWICK	3323	+ 216	CARLSBAD	3091	+ 323	UT CEDAR CITY	1916	+ 344
COLUMBUS/METRO	3074	+ 211	CLOVIS	2468	+ 254	VT BARRIE-MONTPELIER	1278	+ 195
MACON	3020	+ 140	GALLUP	1781	+ 156	BURLINGTON	1496	+ 242
SAVANNAH	3280	+ 303	TRUTH OR CONSEQ.	2713	+ 278	VA CHARLOTTESVILLE	2369	+ 234
ID BOISE	1830	+ 323	NY ALBANY	1600	+ 161	HAMPTON/LANGLEY	2516	+ 290
BURLEY	1748	+ 436	ELMIRA	1536	+ 160	LYNCHBURG	2224	+ 168
IDAHO FALLS	1505	+ 335	GLENS FALLS	1495	+ 191	NORFOLK	2690	+ 436
POCATELLO	1582	+ 323	POUGHKEEPSIE	1740	+ 217	RICHMOND	2506	+ 261
IL BELLEVILLE	2282	+ 122	ROCHESTER	1505	+ 105	WA BELLINGHAM	1087	+ 249
CHICAGO/MIDWAY	1815	+ 114	SYRACUSE	1500	+ 115	HOQUIAM	875	+ 137
DECATUR	1960	- 52	UTICA	1430	+ 147	SEATTLE-TACOMA	1305	+ 316
PEORIA	2019	+ 221	WATERLOO	1341	+ 63	SPOKANE	1390	+ 235
ROCKFORD	1803	+ 217	NC ASHEVILLE	2138	+ 169	TACOMA	...	...
SPRINGFIELD	2102	+ 126	FAYETTEVILLE	2817	+ 285	WALLA WALLA	1997	+ 433
QUINCY	1987	+ 57	GREENSBORO	2435	+ 162	WENATCHEE	1859	+ 225
IN INDIANAPOLIS	2012	+ 124	HICKORY	2455	+ 199	YAKIMA	1741	+ 235
SOUTH BEND	1776	+ 183	RILEIGH	2598	+ 238	WV HUNTINGTON	2199	+ 265
VERMILION	2067	+ 141	WILMINGTON	2902	+ 260	MARTINSBURG	2035	+ 177
IA DES MOINES	1958	+ 83	ND NEW BERN	2784	+ 202	MORGANTOWN	1936	+ 121
MASON CITY	1693	+ 90	BISMARCK	1469	+ 191	WI KAU CLAIRE	1576	+ 192
OTTUMWA	1995	+ 152	DICKINSON	1303	+ 123	GREEN BAY	1511	+ 247
SIOUX CITY	1963	...	JAMESTOWN	1412	+ 161	LACROSSE	1723	+ 177
WATERLOO	1842	...	MINOT	1325	+ 153	MADISON	1724	+ 217
KS CHANUTE	2372	+ 121	GRAND FORKS	1398	+ 181	WAUSAU	1461	+ 200
DODGE CITY	2310	+ 194	OR AKRON-CANTON	1642	+ 87	CASPER	1731	+ 482
GARDEN CITY	2285	+ 196	COLUMBUS	1932	+ 169	LANDER	1654	+ 432
GOODLAND	1987	+ 258	DAYTON	1923	+ 96	SHERIDAN	1539	+ 329
MEDICINE LODGE	2595	+ 224	FINDLAY	1689	+ 61	WORLDAN	1821	+ 433

Based on 1951-80 normals.

\* Growing degree days for corn are computed to a 50°F base with the daily maximum temperature limited to 86°F or lower, and the daily minimum to 50°F or higher.

## National Agricultural Summary

July 18 - 24, 1994

**HIGHLIGHTS:** Corn was supplied with much-needed moisture in the eastern Corn Belt during the crucial pollinating period. Spotty showers across the rest of the Corn Belt provided welcomed rainfall but left some dry areas. The timely rain and favorable temperatures spurred corn and soybean development and improved the crop condition. Soggy fields in the Southeast increased weed and disease problems and delayed some field activities. Heavy rains in the Delta slowed fieldwork and hindered crop growth. Dry, hot weather continued over most of the Southwest and Pacific Coastal region, keeping producers concerned for dryland crops. Dry, windy conditions in eastern Oregon resulted in some wheat damage from wind shatter. Scattered thunderstorms in New Mexico, where reported soil moisture was 100 percent short, were unable to provide relief. Iowa reported some hail and tornado damage in the northeast part of the State. Insect and weed growth resulted in farmers using some spraying and control measures. Producers began preparing storage facilities for the upcoming harvest while waiting for the corn to mature.

**SMALL GRAINS:** Winter wheat harvested was 84 percent (%) complete, up 5 percentage points from last week and 7 points ahead of the 5-year average. Scattered precipitation in the central Great Plains caused the winter wheat harvest to advance slowly. The wheat harvested in South Dakota and Washington advanced 39 and 14 points, respectively. The wheat harvest in South Dakota was 25 points ahead of the average.

**Spring wheat** was 96% headed, up 5 points from last week and tied with the average, while spring wheat harvested was 1% complete, 3 points behind the average. South Dakota increased spring wheat harvested by 4 points from last week but remained 6 points behind the average. The condition for spring wheat was mostly good, down from last week's and last year's condition.

**FIELD CROPS:** Corn condition was mostly good, up slightly from last week and last year. Corn development continued to outpace last year's rate and the average. Corn silking for the 17 major States was 74%, up 28 points from last week and 25 points ahead of the average. Indiana, Minnesota, and Wisconsin increased corn silking by over 35 points from last week. The average corn height ranged from 54 inches for North Dakota to 78 inches for Indiana. Aerial spraying for corn borers in the

middle Mississippi Valley decreased as the spraying was effective and brought the insects under control.

**Cotton** condition was down from last week in New Mexico and Georgia, but slightly up for the 14 major producing States and up from last year. Cotton squaring was 93% complete, up 4 points from last week and 6 points ahead of the average. Cotton setting bolls was 65% for the major producing States, up 18 points from last week and 12 points ahead of the average. California cotton squaring was up 5 points from last week to 100%, while setting bolls was up 30 points from last week but 6 points behind the average. Texas cotton squaring was up 6 points from last week to 87%, 11 points ahead of the average, while setting bolls was up from last week and ahead of the average by 14 points. Weed, insect, and disease problems in Arizona were reported light to moderate. Drier weather in Louisiana was needed to improve cotton growth, while both California and Texas continued to irrigate and treat for boll worms.

**Sorghum** condition was down in New Mexico and improved in South Dakota, while the 12-State average was up slightly from last week and last year. Sorghum headed was 47% for the week, 14 points ahead of last week and 13 points ahead of the average. Sorghum headed was up 26 points in Nebraska from the previous week, and 25 points ahead of the average. Sorghum turning color was 2 points ahead of the average at 22% for the 12 States.

**Rice** condition was mostly good, down slightly from last week and last year, with most of the drop coming from Mississippi. Rice headed was 40%, up 14 points from last week and 12 points ahead of the average. Arkansas reported rice headed at 32%, 20 points ahead of the average, while California reported excellent growth with 0% headed, 1 point behind the average. Sheath blight and blast continued to affect some Arkansas rice fields.

**Soybean** condition was mostly good, up from last week and last year. Soybeans blooming were 72% complete, 17 points over last week and 20 points ahead of the average. Soybeans blooming in Illinois, Indiana, and Kansas increased by over 20 points from last week. Soybeans setting pods was 25% for the 19 major producing States, 10 points ahead of the average. Iowa was 34 points ahead of the average for setting pods, while Illinois and Indiana were 3 and 2 points behind, respectively. The average height of soybeans ranged from 23 inches in North Dakota to 26 inches in Indiana.

(Continued from front cover)  
station was established in 1945. Daily records were eclipsed on Wednesday in Olympia, WA (102°F) and Portland, OR (103°F). Medford, OR reached 109°F on July 21. On Friday, heat continued across the Northwest, and began to return to the Southwest. Boise, ID and Pendleton, OR tied daily records with 106°F, as did Tucson, AZ with 107°F. East of the Rockies, heat made a cameo before being flushed southward by a strong cold front. Highs on Monday included 100°F in Worland, WY and 102°F in Pierre, SD. Both locations reported a high of 81°F on Tuesday. Later in the week (on Thursday), daily record lows included 42°F in Alamosa, CO and 52°F in Goodland, KS, although 100-degree heat persisted across southern Texas. As the front pressed eastward, it dropped beneficial rain on central Illinois, where Peoria received 0.85 inches. Much of the remainder of the Corn Belt collected rainfall totaling a half-inch or more. East and south of the front, a rich supply of heat and humidity plagued the Atlantic Coast and Gulf Coast States. Daily record highs in the Northeast included 91°F in Buffalo, NY on July 20, 97°F in Rochester, NY on July 21, and

94°F in Portland, ME on July 22. Embedded in the tropical flow was a tropical depression (T.D. #2), which made landfall near Georgetown, SC on the morning of July 20. The system was quickly downgraded to an extratropical low pressure system, and its remnant circulation center tracked through central North Carolina and western Virginia before dissipating over eastern Pennsylvania and southern New England late on July 21. Storm-total rainfall included 3.84 inches in Harrisburg, PA, 2.68 inches in Fayetteville, NC, and 2.41 inches in Charleston, SC. Hawaii also eyed the tropics, as Hurricanes Emilia and Gilma became the strongest central Pacific storms during the era of satellite monitoring. Both storms' eye-wall sustained winds reached 160 miles per hour (Emilia peaked on July 19 and 20, and Gilma on July 24). Both storms weakened as they approached Hawaii, Emilia passing within 250 miles on a parallel to the islands, and Gilma passing about 500 miles south of the Big Island. Impacts on Hawaiian weather were relatively minor, but included high surf on south- and east-facing shorelines and enhanced rainfall on windward slopes. Weekly rainfall totaled 3.98 inches in Hilo, HI.

**Crop Condition**

for the Week Ending July 24, 1994

**SORGHUM**

State	VP	P	F	G	EX
AR	0	0	25	61	14
CO	0	5	44	43	8
IL	0	0	6	89	5
KS	0	0	13	80	7
LA	0	1	50	49	0
MS	0	0	1	92	7
MO	0	2	33	58	7
NE	0	1	6	64	29
NM	0	59	23	18	0
OK	0	2	31	67	0
SD	0	6	1	80	13
TX	0	3	42	52	3
12 State	0	3	25	64	8
Prev Week	1	2	28	60	9
Prev Year	1	10	33	47	9

**CORN**

State	VP	P	F	G	EX
CO	1	4	27	49	19
GA	0	0	4	80	16
IL	0	0	12	62	26
IN	0	4	18	65	13
IA	0	0	4	43	53
KS	0	3	22	66	9
KY	0	2	14	65	19
MI	3	7	20	50	20
MN	0	0	5	52	43
MO	0	3	25	60	12
NE	0	0	10	62	28
NC	2	12	29	54	3
OH	1	6	27	51	15
PA	0	4	18	53	25
SD	0	1	8	51	40
TX	0	3	25	62	10
WI	0	0	0	41	59
17 State	0	2	12	55	31
Prev Week	0	1	13	57	29
Prev Year	4	14	33	41	8

**COTTON**

State	VP	P	F	G	EX
AL	0	5	21	66	8
AZ	0	0	5	75	20
AR	0	0	12	69	19
CA	0	0	0	85	15
GA	0	4	21	63	12
LA	0	0	12	78	10
MS	0	0	27	55	18
MO	0	0	20	70	10
NM	0	9	9	55	27
NC	0	0	21	75	4
OK	0	0	10	90	0
SC	0	0	27	73	0
TN	0	0	2	96	2
TX	0	4	42	42	12
14 State	0	2	26	60	12
Prev Week	0	1	26	62	11
Prev Year	0	5	38	55	2

**RICE**

State	VP	P	F	G	EX
AR	0	0	6	92	2
CA	0	0	5	90	5
LA	0	0	66	34	0
MS	0	0	26	51	23
TX	0	0	0	75	25
5 State	0	0	19	74	7
Prev Week	0	0	16	76	8
Prev Year	0	0	29	70	1

**SOYBEANS**

State	VP	P	F	G	EX
AL	0	0	13	69	18
AR	0	0	29	71	0
GA	0	0	13	71	16
IL	0	0	12	69	19
IN	0	3	20	70	7
IA	0	0	6	55	39
KS	0	0	14	77	9
KY	0	0	16	79	5
LA	0	7	33	60	0
MI	3	7	30	45	15
MN	0	2	8	60	30
MS	0	0	22	60	18
MO	0	1	28	64	7
NE	0	0	5	63	32
NC	0	0	22	76	2
OH	1	6	26	51	16
SC	0	0	33	67	0
SD	0	0	9	57	34
TN	0	0	11	71	18
19 State	0	1	16	64	19
Prev Week	0	2	19	63	16
Prev Year	3	16	41	35	5

**SPRING WHEAT**

State	VP	P	F	G	EX
ID	0	6	25	60	9
MN	0	8	32	60	0
MT	2	12	24	45	17
ND	2	8	19	59	12
SD	0	4	39	55	2
5 State	1	8	25	57	9
Prev Week	1	5	26	56	12
Prev Year	0	2	17	64	17

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

**Crop Progress**

for the Week Ending July 24, 1994

**RICE HEADED**

	Current	Last Wk	1993	Avg.
AR	32	15	7	12
CA	0	0	0	1
LA	65	53	59	63
MS	40	18	19	32
TX	83	67	44	70
5 States	40	26	21	28

These 5 States produced 96% of the 1993 rice crop.

**GRAIN SORGHUM HEADED**

	Current	Last Wk	1993	Avg.
AR	77	61	32	50
CO	5	1	2	4
IL	21	12	9	25
KS	30	10	4	10
LA	83	77	70	74
MS	80	63	60	68
MO	42	22	20	32
NE	35	9	0	10
NM	13	2	2	14
OK	26	18	21	21
SD	12	2	1	5
TX	76	72	69	69
12 States	47	33	28	34

These 12 States produced 98% of the 1993 grain sorghum crop.

**GRAIN SORGHUM COLORING**

	Current	Last Wk	1993	Avg.
AR	21	NA	6	8
CO	0	NA	0	0
IL	4	NA	0	3
KS	0	NA	0	0
LA	19	NA	12	25
MS	32	NA	9	25
MO	2	NA	0	0
NE	0	NA	0	0
NM	0	NA	0	0
OK	6	NA	4	5
SD	0	NA	0	0
TX	62	NA	55	58
12 States	22	NA	19	20

These 12 States produced 98% of the 1993 grain sorghum crop.

**SPRING WHEAT HEADED**

	Current	Last Wk	1993	Avg.
ID	100	96	81	93
MN	99	99	99	99
MT	99	90	73	87
ND	93	87	92	97
SD	100	100	100	100
5 States	96	91	91	96

These 5 States produced 97% of the 1993 spring wheat crop.

**COTTON SQUARING**

	Current	Last Wk	1993	Avg.
AL	93	83	86	95
AZ	100	100	100	100
AR	100	100	98	99
CA	100	95	100	100
GA	98	96	97	99
LA	100	100	99	97
MS	100	100	97	95
MO	100	100	100	99
NM	96	79	85	90
NC	90	78	79	87
OK	88	75	96	65
SC	92	90	93	94
TN	100	99	100	94
TX	87	81	83	76
14 States	93	89	91	87

These 14 States produced 99% of the 1993 cotton crop.

**SOYBEANS BLOOMING**

	Current	Last Wk	1993	Avg.
AL	42	29	33	33
AR	40	27	25	22
GA	47	31	34	40
IL	78	57	53	69
IN	81	58	64	68
IA	92	80	30	63
KS	75	50	25	40
KY	54	40	43	39
LA	58	36	46	43
MI	40	25	40	35
MN	86	71	23	56
MS	62	35	31	36
MO	63	44	26	43
NE	90	76	31	51
NC	28	18	18	21
OH	70	60	64	58
SC	26	17	28	23
SD	74	54	19	46
TN	34	14	29	24
19 States	72	55	38	52

These 19 States produced 95% of the 1993 soybean crop.

**SPRING WHEAT HARVESTED**

	Current	Last Wk	1993	Avg.
ID	1	0	0	1
MN	1	0	0	2
MT	0	0	0	0
ND	0	0	0	4
SD	6	2	0	12
5 States	1	0	0	4

These 5 States produced 97% of the 1993 spring wheat crop.

**COTTON SETTING BOLLS**

	Current	Last Wk	1993	Avg.
AL	60	42	49	65
AZ	93	84	95	95
AR	80	77	64	65
CA	65	35	60	71
GA	82	66	67	72
LA	95	81	85	79
MS	94	60	52	68
MO	71	54	60	66
NM	77	45	79	76
NC	65	46	60	58
OK	31	20	47	17
SC	60	47	77	63
TN	69	38	72	50
TX	49	35	45	35
14 States	65	47	56	53

These 14 States produced 99% of the 1993 cotton crop.

**WINTER WHEAT HARVESTED**

	Current	Last Wk	1993	Avg.
AR	100	96	100	100
CA	99	95	97	97
CO	98	98	57	75
GA	100	100	100	100
ID	8	4	2	5
IL	98	96	89	94
IN	98	88	90	89
KS	100	100	75	95
MI	50	30	40	40
MO	100	98	68	91
MT	2	0	0	1
NE	99	91	29	75
NC	100	100	100	100
OH	99	88	84	76
OK	100	100	100	100
OR	27	9	8	21
SD	71	32	5	46
TX	100	99	99	99
WA	20	6	9	16
19 States	84	79	65	77

These 19 States produced 92% of the 1993 winter wheat crop.

**CORN SILKING**

	Current	Last Wk	1993	Avg.
CO	55	18	11	18
GA	100	98	100	99
IL	94	69	51	73
IN	78	40	50	59
IA	82	52	6	42
KS	90	70	65	75
KY	84	67	76	72
MI	35	10	10	25
MN	44	8	1	17
MO	78	55	36	64
NE	95	66	28	54
NC	95	92	90	89
OH	51	24	37	46
PA	34	10	17	19
SD	49	20	0	21
TX	83	75	75	85
WI	47	12	2	21
17 States	74	46	29	49

These 17 States produced 91% of the 1993 corn crop.

**SOYBEANS SETTING PODS**

	Current	Last Wk	1993	Avg.
AL	14	NA	9	13
AR	17	NA	6	6
GA	22	NA	12	13
IL	27	NA	12	30
IN	13	NA	6	15
IA	55	NA	5	21
KS	20	NA	4	10
KY	18	NA	8	10
LA	26	NA	19	16
MI	5	NA	0	0
MN	27	NA	5	10
MS	22	NA	5	12
MO	16	NA	5	10
NE	34	NA	5	8
NC	0	NA	0	0
OH	14	NA	14	20
SC	7	NA	5	5
SD	26	NA	0	12
TN	7	NA	5	5
19 States	25	NA	7	15

These 19 States produced 95% of the 1993 soybean crop.

## State Summaries of Weather and Agriculture

These summaries 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.

**ALABAMA:** Rainfall none to 1.16 in. north; none to 1.54 in. central; 0.01 to 2.89 in. south. Temperatures 3° below normal to 2° above normal statewide. Lows 64 to 70° north; 65 to 71° central; 64 to 71° south. Highs 88 to 94° north; 90 to 95° central; 92 to 94° south.

Days suitable for fieldwork 3.8. Soil moisture 40% adequate, 60% surplus. Corn silked 97%, 93% 1993, 95% avg.; dented 53%, 44% 1993, 57% avg.; mature 21%, 16% 1993, 30% avg.; 8% poor, 14% fair, 50% good, 28% excellent. Sorghum 13% poor, 24% fair, 48% good, 15% excellent. Peanuts pegged 59%, 71% 1993, 86% avg.; 28% poor, 70% fair, 2% good. Wheat harvested 99%, 97% 1993, 97% avg. Pasture feed 12% fair, 49% good, 39% excellent. Livestock 11% fair, 77% good, 12% excellent. Seasonal activities: Planting, harvesting vegetables, controlling weeds, insects.

**ALASKA:** Matanuska, Tanana Valleys remain extremely dry, while the Kenai Peninsula received some rain.

Days suitable for haying activity 5.5. Hay harvest was 70% complete, 25% behind 1993 progress. Height of 2nd crop timothy and brome was 2 in., 7 to 9 in. behind last year's crops. Barley 20% poor, 35% fair, 40% good, 5% excellent; 95% dough or earlier; 5% turning color. Oats 80% dough or earlier; 20% turning color. Harvest of grain hay, silage 35% complete. Commercial potatoes 20% in bloom compared to 85% 1993. Commercial vegetable harvest continues. Topsoil 60% short, 40% adequate. Subsoil moisture 40% short, 60% adequate.

**ARIZONA:** Temperatures remain near normal; 5° below to 3° above. Extremes 44°; 100° higher elevations; 63°; 115° deserts. Precipitation all stations; trace to 1.31 in.

Cotton condition continues mostly good; squaring 100%, 100% 1993, 100% avg.; setting bolls 93%, 95% 1993, 95% avg. Weed, insect, disease infestations reported light to moderate. Alfalfa good to excellent. Harvest continues active, but slowing. Weed infestations light to moderate; insect, disease infestations moderate. Citrus, grape harvest nearing end; grapefruit, valencia oranges, grapes available central areas. Vegetables harvested from central areas included carrots, green onions, potatoes, bell pepper, chili pepper. Cantaloupe, honeydew available central areas. Watermelons available central, western areas.

**ARKANSAS:** Temperatures slightly below normal with showers, thunderstorms, heaviest in west, southwest. Extremes 60°; 100°. Precipitation none to 4.22 in.

Days suitable for fieldwork 5. Soil moisture 13% short, 69% adequate, 18% surplus. Crop development ahead of schedule. Sheath blight and blast reported in several rice fields. Peaches, tomatoes, watermelons mostly good with harvest ongoing. Hay harvest continuing. Alfalfa 51% fair, 44% good, 5% excellent. Other hay 4% poor, 38% fair, 51% good, 7% excellent. Pasture feed 4% very poor, 4% poor, 29% fair, 49% good, 14% excellent. Livestock good condition. Producers in northwestern areas feeding hay due to dry pastures. Pinkeye present in cattle herds in Carroll county.

**CALIFORNIA:** Low pressure moved through at midweek, increased clouds, thunderstorms mountains. Spotty precipitation. Weekend drier, no thunderstorms, temperatures begin climbing.

Good progress field activities, generally open weather. Small grain harvest nearly complete, except higher elevations. Straw baled wheat, barley stubble. Corn, dry bean seedings neared completion. Rice excellent growth, development one week behind normal. Some growers applied fertilizers, broadleaf herbicides. Cotton full bloom San Joaquin Valley, desert area fields began opening bolls. Irrigation, thinning, treatments weeds, aphids, lygus, mites, pink bollworm, whitefly ongoing. Corn cut silage, San Joaquin Valley. Early fields grain corn rapidly forming ears. Corn sprayed worms; dry beans treated aphids. Overwintered sugarbeets, garbanzo beans harvested. Alfalfa, sudangrass cut, baled. Summer fruit harvest active including table grapes, peaches, plums, nectarines, Gala apples, Bartlett pears, Valencia oranges. Hull split spraying continued in almonds. Fresno County fig growers preparing for harvest. Irrigation continued tree crops, vineyards. Harvests broccoli, cauliflower, celery, lettuce seasonally normal coastal areas. Central valley fields prepared fall plantings, cauliflower planting began. Processing, fresh market tomato harvests active most areas. Fall harvest tomatoes planted San Joaquin Valley. Early sweet corn harvest full swing, later plantings doing well. Cantaloupe, honeydew harvests gained momentum most areas, completed Palo Verde Valley. Watermelon harvest began most areas. Fresh market dry onion harvest active central coast. Other crops harvested include garlic, peppers, green beans, squash, eggplant, carrots, shallots, spices, potatoes, okra, tomatillos, cucumbers, taro, various oriental vegetables. Decline rangeland fodder continued. Condition rangeland remained very dry. Fire hazard concerns

expressed. Ranchers supplied livestock supplemental feed some locations. High temperatures slowed growth upper elevation pastures. Cattle, sheep good condition.

**COLORADO:** Many locations received some much needed rainfall. Southwest, south central mountains received some rain on the 19th. More active weather was recorded on the 23rd, 24th. Temperatures were at or slightly below normal in the east, just above normal in the west.

Days suitable for fieldwork 6.2. Soil moisture 29% very short, 37% short, 33% adequate, 1% surplus. Alfalfa second cutting 70% complete, 33% 1993, 35% avg. Spring barley 53% turning color, 75% 1993, 63% avg.; 15% harvested, 11% 1993, 18% avg.; 7% poor, 9% fair, 72% good, 12% excellent. Dry beans 51% flowered, 27% 1993, 24% avg.; 3% poor, 24% fair, 57% good, 16% excellent. Oats 93% turning color, 76% 1993, 66% avg.; harvested 55%, 13% 1993, 24% avg.; 16% poor, 27% fair, 48% good, 9% excellent. Dry onion 1% poor, 26% fair, 46% good, 27% excellent. Sugarbeets 4% poor, 37% fair, 47% good, 12% excellent. Spring wheat 29% turning color, 29% 1993, 35% avg. Spring wheat 14% harvested, 3% 1993, 9% avg.; 1% very poor, 17% poor, 19% fair, 47% good, 16% excellent. Summer potatoes 4% harvested, 1% 1993, 3% avg.; 11% fair, 57% good, 32% excellent. Fall potatoes 10% poor, 20% fair, 50% good, 20% excellent. Winter wheat harvest virtually complete except on west slope. Livestock fair to good. Pasture, range feed poor to fair, except the northeast, northwest where condition is very poor.

**FLORIDA:** Temperatures within 2° of normal. Highs; low to mid 90s. Lows; upper 60s to low 70s. Scattered to numerous showers, thunderstorms nearly every day. Rainfall 1.00 to 3.00 in. with 5.00 in. locally.

Soil moisture adequate to surplus Panhandle, northern Peninsula. Central, southern Peninsula adequate moisture with scattered areas short. First tobacco market opened 19th. Tobacco harvest active. Corn harvest starting. Sugarcane good progress. Haying active. Some cotton fields so weedy may be abandoned. Dry some areas, irrigation elsewhere. Fruit softening where rains have missed, some new growth continues. Valencia harvest complete except for a few small groves being held for fresh juice. All gift fruit houses are closed. Caretakers are cutting cover crops, spraying, fertilizing, herbiciding wild weeds. Most vegetable growers preparing fields, laying plastic for the fall crop north, central, east coast vegetable areas. Rain, wet soil conditions hampered fieldwork. Some fall crop tomatoes being planted north. Pasture feed 10% fair, 70% good, 20% excellent. Cattle herds good to excellent condition.

**GEORGIA:** Temperatures within 2° of normal, slightly above north, below normal central, south. Warmest highs low to mid 90s, except mid to upper 80s mountains. Coolest lows upper 60s to low 70s, except low to mid 60s northeast. Rain on 2 to 5 days during week. Rainfall less than 0.50 in. in spots northwest, south, to over 2.00 in. numerous areas. Greatest amount of rain 6.62 in. Habersham County.

Days suitable for fieldwork 3.8. Soil moisture 1% very short, 5% short, 54% adequate, 40% surplus. Corn 98% dough, 91% 1993, 93% avg.; 86% dent, 69% 1993, 77% avg.; 38% mature, 20% 1993, 27% avg.; harvest underway south, silage harvest north. Sorghum 18% fair, 77% good, 5% excellent; 98% planted, 99% 1993, 99% avg. Peanuts 17% fair, 76% good, 7% excellent; 100% pegging, 89% 1993, 92% avg.; farmers spraying fungicides, diseases major concern. Tobacco 2% very poor, 5% poor, 19% fair, 68% good, 6% excellent; 47% harvested, 28% 1993, 47% avg.; markets opened, diseases widespread. Watermelons 12% poor, 44% fair, 42% good, 2% excellent; 91% harvested, 87% 1993, 88% avg. Other vegetables 7% poor, 56% fair, 37% good; diseases prevalent. Apples 8% very poor, 13% fair, 79% good; 4% harvested, 5% 1993, 6% avg. Peaches 51% fair, 49% good; 96% harvested, 88% 1993, 90% avg. Pecans 5% poor, 39% fair, 56% good. Hay 4% poor, 21% fair, 61% good, 14% excellent; harvest very difficult, some over mature. Pasture feed 1% poor, 5% fair, 69% good, 25% excellent. Cattle 5% fair, 86% good, 9% excellent. Hogs 8% fair, 89% good, 3% excellent. Activities: Harvesting tobacco, spraying for insects, weeds, diseases.

**HAWAII:** Variable weather. Some islands mostly sunny during week. Shower activities on most islands during evenings, early mornings. Rainfall heaviest on 18th, weekend. Winds 10 to 35 mph, with stronger gusts. Remnants of tropical depression Daniel lingered to begin the week. Hurricane Emilia, tropical depression Fabio skirted south of the islands during the second half of the week. Humid, wet conditions by weekend. Temperatures low 70s to low 90s. Rainfall none to 4.40 in.

Weather fair for crop progress. Mostly dry with some wet areas. Irrigation necessary in the drier areas. Regular spray programs to keep insects, disease under control. Sugar harvesting active all islands. Pineapple harvesting increasing. Papaya production heavy.

**IDAHO:** Temperatures normal to 8° above normal. Precipitation none north, none southwest, none to 0.02 in. central, none to 0.04 in. east.

Days suitable for fieldwork 7. Soil moisture 21% very short, 40% short, 39% adequate. Range, pasture feed 63%. Potato progress: not yet 12" high 1%, 12" high 19%, closing middles 71%, turning 9%. Potato 1% poor, 17% fair, 71% good, 11% excellent. Barley harvested 2%, 0% 1993, 4% avg.; 1% very poor, 4% poor, 20% fair, 63% good, 12% excellent. Alfalfa hay harvested (2nd cutting) 44%, 25% 1993, 29% average. Mint acreage harvested 27%, 9% 1993, 18% avg. Peaches harvested 27%, 8% 1993, 17% avg. Irrigation water supplies 11% very poor, 18% poor, 27% fair, 40% good, 4% excellent. Activities: irrigating, cutting alfalfa, grain harvest.

**ILLINOIS:** Warm front pushed through about midweek followed by a cold front on 22nd. Some storms were strong with frequent lightning, locally heavy rain. Temperatures 3° below normal to 4° above. Highs were in the low 80s to low 90s, lows 60s to lower 70s. Most areas received some rain, 0.25 in. or less to over 1.00 in. with the heaviest rain in northern, central areas.

Days suitable for fieldwork 5.0. Soil moisture 35% short, 63% adequate, 2% surplus. Corn dough 22%, less than 5% 1993, 19% avg.; 2% dented, 1% less than 1993, 3% avg. Oats turning yellow 99%, 75% 1993, 93% avg.; ripe 91%, 38% 1993, 72% avg.; harvested 54%, 9% 1993, 43% avg.; 13% excellent, 70% good, 13% fair, 4% poor. Alfalfa hay second cutting 90%, 64% 1993, 78% avg. Third cutting 11%, 5% 1993, 10% avg.; 10% excellent, 70% good, 19% fair, 1% poor. Pasture 86% of normal. Soil moisture continues short in portions of central, eastern areas, becoming short in the south. Crop conditions continue to improve across the north with more scattered rains falling most of week. Aerial spraying for corn rootworm beetles, spider mites decreased in the central, east as stress from these pests lessened. Farm activities included crop scouting, preparing storage facilities for harvest, cutting hay, harvesting oats, mowing weeds.

**INDIANA:** Drier, warmer than normal weather occurred across the State. Gulf moisture, cold fronts from Canada produced scattered thunderstorms on several days. High temperatures from the mid 80s to around 90°, which was mostly 1 to 4° above normal. Lows in the mid to upper 60s. This was 1 to 4° above normal. Highest readings were in the low to mid 90s across State. Rainfall around 0.20 to 0.65 in. south to 0.40 to 1.40 in. north, central. This was below normal by around 0.30 to 0.90 in., except for above normal over parts of the west central, northwest by around 0.10 to 1.40 in.

Days suitable for fieldwork 5. Japanese beetles are the most reported insect. Harvesting of oats, wheat, mint, second crop hay, spraying weeds, detasseling seed corn, topping tobacco were major field activities. Livestock were being stressed by either hot, dry or wet, cool conditions. Flies, mosquitoes were heavy in the moist areas. Pastures feed remains fair to good. Pasture feed 83% of normal, 82% last week. Topsoil 33% short, 59% adequate, 8% surplus. Subsoil 30% short, 63% adequate, 7% surplus. Corn 78 in. high, 69 in. 1993, 68 in. avg. Soybeans 26 in. high, 24 in. 1993, 21 in. avg. Oats harvested 68%, 56% 1993, 50% avg. Alfalfa 2nd cutting 84%, 69% 1993, 67% avg.

**IOWA:** Hot, humid weather 18th with heavy rain parts of the northeast. Relatively mild, dry weather for the remainder of the week. Temperatures 1 to 3° below normal. Extremes 54°, 95°. Rainfall none portions of west up to 4.72 in. northeast; State average 0.69 in. (normal 0.91 in.).

Days suitable for fieldwork 4.8. Topsoil 12% short, 65% adequate, 23% surplus. Subsoil 2% short, 79% adequate, 19% surplus. Corn tasseled 96%, 12% 1993, 62% avg. Corn in or past milk stage 22%, 0% 1993, 6% avg. Oats harvested for grain 65% 1994, 8% 1993, 47% avg. Alfalfa hay 2nd crop harvested 75%, 15% 1993, 57% avg. Clover hay 2nd crop harvested 32%, 5% 1993, 32% avg. Winter wheat harvested for grain 90%, 15% 1993, 72% avg. Pasture 1% poor, 19% fair, 61% good, 19% excellent. Hay 2% poor, 24% fair, 59% good, 15% excellent. Livestock doing well. Variable crop conditions, some areas too dry. Some areas much too wet. Some hail damage, tornado damage in northeastern areas. Some weed pressure in drilled soybeans. Most areas still report crops doing well.

**KANSAS:** Temperatures were 0 to 3° below normal. Precipitation received in all districts. Rainfall ranged from 0.13 in. northwest to 2.86 in. southeast. Six of 9 districts received greater than 1.00 in.

Days suitable for fieldwork 4.5. Surface soil moisture 25% short to very short, 70% adequate, 5% surplus. Subsurface moisture 25% short to very short, 72% adequate, 3% surplus. Fall crops are making good progress toward maturity. Corn, sorghum, soybeans all ahead of average maturity. Approximately three-quarters of corn, sorghum, soybeans good to excellent. Corn silking is nearly complete across the State. Average corn in dough stage for the State is 30%, 10% 1993, 20% avg. Spider mites, corn borers reported in the western, southern districts. All districts have sorghum heading. Chinch bugs are reported in many areas of the State. Some moderate infestations are reported mostly in the central district. Three-quarters of the State's soybeans are blooming.

Soybeans podding for the State 20%, 4% 1993, 10% avg. Alfalfa 3rd cutting 30%, 10% 1993, 20% avg. Pasture feed good condition in all districts except the southern districts where they are fair.

**KENTUCKY:** Typical summer week. Temperatures low to mid 90s with overnight lows mid to upper 60s. Temperatures 75 to 80°, normal for late July. Widely scattered thunderstorms developed most afternoons. Some locations over 1.50 in., others received no rain. Precipitation 0.5 in.

Day suitable for fieldwork 4.4. Soil moisture 9% very short, 28% short, 57% adequate, 6% surplus. All crops show wide variance in condition based on rainfall received. Soybeans being sprayed for grasshoppers, Japanese Beetles, grasses such as Johnson grass. Tobacco 33% fair, 60% good, 7% excellent. Burley blooming or beyond 41%, 37% 1993, 47% avg. Some black shank, grasshoppers, aphids, worms reported. Pasture feed 77% normal. Some hay being fed to supplement pastures. Hay crops poor to good with poor second crop in dry areas.

**LOUISIANA:** Temperatures 1.6° below to 0.9° above normal. Extremes 67°; 96°. Rainfall 0.36 in. northwest to 2.58 in. southeast.

Days suitable for fieldwork 3.1. Soil moisture supplies 44% adequate, 56% surplus. Corn 27% fair, 61% good, 12% excellent; 96% dough stage, 92% 1993, 93% avg.; 51% mature, 15% 1993, 45% avg.; 2% harvested, 1% 1993, 2% avg. Rains, wet fields keeping harvest from picking up speed. Cotton. Drier weather needed for proper growth. Hay 97% first cutting, 97% 1993, 91% avg.; 15% second cutting, 9% 1993, 8% avg. Peaches 90% harvested, 74% 1993, 79% avg. Rice 11% ripe, 8% 1993, 14% avg.; 5% harvested, 2% 1993, 5% avg. Rain slowing early harvest. Sorghum 0% ripe, 0% 1993, 3% avg. Soybeans 100% emerged, 96% 1993, 97% avg. Blight beginning to appear in some fields. Sugarcane 25% fair, 75% good. Borers on increase. Sweet potatoes 98% planted, 91% 1993, 96% avg.; 0% harvested, 0% 1993, 3% avg. Livestock 3% very poor, 9% poor, 63% fair, 23% good, 2% excellent. Pasture feed 5% poor, 4% fair, 86% good, 5% excellent. Vegetables 29% fair, 63% good, 8% excellent.

**MARYLAND & DELAWARE:** **MARYLAND:** Precipitation 1.15 in., normal 0.88 in. Temperature 79.2°, normal 76.0°. Extremes 57°; 98°.

Days suitable for fieldwork 5.7. Topsoil 29% short, 66% adequate, 5% surplus. Subsoil moisture 57% short, 43% adequate. Pasture feed good. Small grain condition fair to good. Winter wheat, rye harvest virtually complete. Oats 43% harvested, 38% 1993, 40% avg. Corn mostly fair to good; 63% silking, 53% 1993, 54% avg.; 4% dough, 8% 1993, 14% avg. Soybeans fair to mostly good; planting virtually complete; 29% bloomed, 18% 1993, 14% avg. Sorghum good; 11% headed, 11% 1993, 11% avg. Tobacco fair to mostly good; 21% bloomed, 16% 1993, 28% avg. Sweet corn 40% harvested, 28% 1993, 35% avg. Potatoes 61% harvested, 29% 1993, 29% avg. Vegetable, melon harvest active. Other hay 63% second cutting, 66% 1993, 46% avg. Alfalfa hay 32% third cutting, 23% 1993, 15% avg. Peaches poor, very short crop; 24% harvested, 14% 1993, 20% avg. Apples mostly fair to good. Hay supplies adequate.

**DELAWARE:** Precipitation 1.14 in., normal 0.93 in. Temperature 79.7°, normal 76.4°. Extremes 65°; 94°.

Days suitable for fieldwork 6.3. Topsoil 10% very short, 20% short, 70% adequate. Subsoil moisture 7% very short, 36% short, 57% adequate. Small grain condition fair. Wheat harvest virtually complete; oats 55% harvested, 100% 1993, 100% avg. Corn good; 70% silked, 78% 1993, 78% avg.; 10% dough, 11% 1993, 11% avg. Soybeans fair condition; planting virtually complete; 34% bloomed, 22% 1993, 22% avg. Sorghum heading underway. Sweet corn 40% harvested, 36% 1993, 32% avg. Other vegetable, melon harvest active. Other hay 56% second cut, 77% 1993, 65% avg. Alfalfa hay 83% second cut, 96% 1993, 92% avg.; 32% third cut, 24% 1993, 35% avg. Hay supplies adequate; pastures poor to fair. Peaches fair to mostly good; 23% picked, 21% 1993, 14% avg. Apples good condition.

**MICHIGAN:** Extremes 51°; 93°. Precipitation 0.26 to 2.78 in.

Days suitable for fieldwork 3.5. Soil moisture 5% short, 40% adequate, 55% surplus. Dry beans 25% blooming, 35% 1993, 30% avg.; 15% very poor, 30% poor, 25% fair, 25% good, 5% excellent. Oats 95% headed, 85% 1993, 95% avg.; 60% turning, 30% 1993, 60% avg.; 15% ripe, 5% 1993, 20% avg.; 1% very poor, 9% poor, 30% fair, 45% good, 15% excellent. Wheat 85% ripe, 80% 1993, 85% avg. Potatoes 4% harvested, 5% 1993, 5% avg. Hay second cutting, 35% harvested, 45% 1993, 35% avg.; 3% very poor, 7% poor, 25% fair, 45% good, 20% excellent. Pasture feed 90% of normal. Major activities included: Cultivating, cutting hay, harvesting cherries, sweet corn, wheat.

**MINNESOTA:** (Last week's summary was inadvertently omitted from the *Bulletin*. Call (202) 720-1444 for additional information.) Temperatures 2 to 3° below normal for the State. Extremes 48°; 89°. Precipitation 0.30 in. above normal in the northwest to 0.48 in. below normal for the southwest. Greatest weekly total was 2.68 in.

Days suitable for fieldwork 3.3. Topsoil 2% short, 63% adequate, 35% surplus. Corn 91% tasseled, 9% 1993, 40% avg.; 7% milk, 1% 1993, 3% avg. Soybeans 86% blooming, 23% 1993, 56% avg.; 27% setting pods, 5% 1993, 10% avg. Spring wheat 72% turning ripe, 20% 1993, 51% avg.; 2% cut/swathed, 0% 1993, 4% avg.; 1% combined, 0% 1993, 2% avg.; oats

92% turning ripe, 39% 1993, 69% avg.; 19% cut/swathed, 2% 1993, 20% avg.; 7% combined, 1% 1993, 9% avg.; barley 84% turning ripe, 29% 1993, 64% avg.; 6% cut/swathed, 0% 1993, 14% avg.; 3% combined, 0% 1993, 5% avg.; corn 5% fair, 52% good, 43% excellent. Spring wheat 8% poor, 32% fair, 60% good. Barley 7% poor, 30% fair, 63% good. Oats 5% very poor, 28% fair, 62% good, 5% excellent. Soybeans 2% poor, 8% fair, 60% good, 30% excellent.

**MISSISSIPPI:** Temperatures 1.4° below normal. Extremes 57°; 95°. Soil temperature 84°. Rainfall 1.46 in., 0.36 in. above normal. Greatest precipitation occurred in the lower delta with 2.72 in. Greenwood received the greatest 1-day precipitation with 3.23 in.

Days suitable for fieldwork 2.1. Soil moisture 30% adequate, 70% surplus. Corn 100% silked, 88% 1993, 92% avg.; 80% dough, 49% 1993, 65% avg.; 39% dent, 15% 1993, 38% avg.; 7% mature, 9% 1993, 14% avg.; 14% silage harvested, 5% 1993, 21% avg.; 4% fair, 72% good, 24% excellent. Cotton 94% setting bolls, 52% 1993, 68% avg.; 27% fair, 55% good, 18% excellent. Rice 40% heading, 19% 1993, 32% avg.; 26% fair, 51% good, 23% excellent. Sorghum 80% heading, 60% 1993, 68% avg.; 32% turning color, 9% 1993, 25% avg.; 1% mature, 0% 1993, 2% avg.; 1% fair, 92% good, 7% excellent. Soybeans 62% blooming, 31% 1993, 36% avg.; 22% podding, 5% 1993, 12% avg.; 22% fair, 60% good, 18% excellent. Hay 77% harvested, 71% 1993, 61% avg. Peaches 90% harvested, 82% 1993, 86% avg. Pecans 14% poor, 64% fair, 22% good. Watermelons 65% harvested, 34% 1993, 52% avg.; 18% poor, 46% fair, 36% good. Livestock 9% fair, 79% good, 12% excellent. Pasture feed 84% of normal. Activities: weed control, cotton insect control, hay harvest.

**MISSOURI:** Temperatures 3° below normal in the western counties to 1° above normal east central, southwest. Rainfall averaged 0.69 in., varying from 0.16 in. northeastern district to 1.55 in. southwest.

Days suitable for fieldwork 5.2. Topsoil 31% short, 67% adequate, 2% surplus. Corn in dough stage 26%, 10% 1993, 21% avg.; most advanced in southeastern district 60%, all other major corn districts less than 18% dough except northwest district 27%. Soybeans most advanced northwestern, north-central districts with over 76 percent blooming, least advanced southeast 40%, southwest 48%. Sorghum heading most advanced southeastern district 66%, least advanced northeast 15%, north central 24%. Oats harvested 98%, 38% 1993, 75% avg. Alfalfa second cutting 93%, 46% 1993, 77% avg.; third cutting 10%, 0% 1993, 7% avg. Other hay 92%, 74% 1993, 85% avg. Pasture feed 1% very poor, 13% poor, 57% fair, 26% good, 3% excellent.

**MONTANA:** Temperatures above normal except in the northeast corner. Scant precipitation for most of State.

Days suitable for fieldwork 6.8. Topsoil 61% short, 39% adequate. Subsoil 46% short, 53% adequate, 1% surplus. Winter wheat 24% ripe, 0% 1993, 8% avg.; 1% very poor, 5% poor, 26% fair, 52% good, 16% excellent. Spring wheat 48% turning color, 3% 1993, 20% avg. Barley 3% ripe, 0% 1993, 2% avg.; 1% harvested, 0% 1993, 0% avg.; 2% very poor, 11% poor, 31% fair, 45% good, 11% excellent. Oats 2% ripe, 0% 1993, 2% avg.; 1% harvested, 0% 1993, 0% avg.; 1% very poor, 7% poor, 21% fair, 54% good, 17% excellent. Sugarbeets 2% fair, 76% good, 22% excellent. First cutting alfalfa 96%, 43% 1993, 79% avg. Second cutting alfalfa 9%, 0% 1993, 1% avg. Other hay harvest 82%, 32% 1993, 59% avg. Pasture, range feed 88% of normal.

**NEBRASKA:** Temperatures 2 to 5° below normal. Precipitation was scattered across the State varying from a trace to 1.50 in.

Days suitable for fieldwork 5.0. Topsoil moisture 14% short, 81% adequate, 5% surplus. Subsoil moisture 16% short, 77% adequate, 7% surplus. Winter wheat 99% harvested, 29% 1993, 75% avg. Corn 10% fair, 62% good, 28% excellent; 95% silked, 28% 1993, 54% avg.; 14% dough, 0% 1993, 4% avg. Soybeans 5% fair, 63% good, 32% excellent; 90% blooming, 31% 1993, 51% avg.; 34% setting pods, 5% 1993, 8% avg. Sorghum 1% poor, 6% fair, 64% good, 29% excellent; 35% headed, 0% 1993, 10% avg. Dry bean 36% fair, 54% good, 10% excellent; 79% blooming, 29% 1993; 18% setting pods, 1% 1993. Pasture, range feed 91% of normal.

**NEVADA:** Moist, tropical air moved up from Mexico, Arizona early in the week, triggering thunderstorms in southern areas. Some very heavy rainfall, localized flooding reported. Thunderstorms moved northward into central, western Nevada later in the week with one-half inch hail reported in Douglas County. Temperatures 2 to 8° above normal. High for the State was 116° at Laughlin, the low was 33° at Mountain City.

Second cutting of alfalfa continued. Small grain harvest advancing northward, with grains turning color in the north. Some livestock are being moved from summer range due to lack of water. Emergency feed assistance has been requested in Pershing County.

**NEW ENGLAND:** Precipitation 0.01 to 4.05 in. regionwide. Temperatures 71 to 78° north; 57 to 80° south. Temperatures 7° above

normal regionwide. Maximum temperatures 88 to 98° north; 86 to 96° south. Minimum temperatures 53 to 64° north; 58 to 68° south.

Days suitable for fieldwork 6.2. Soil moisture 20% very short, 40% short, 35% adequate, 5% surplus. Available grazing 5% very short, 55% short, 35% adequate, 5% surplus. Fieldwork 1 day behind schedule. Outbreak of a resistant strain of late blight developing in Aroostook County, Maine. Losses may be significant depending on developing weather patterns. Condition on unaffected potato fields good. Maine oats condition good. Field corn condition good. Tobacco condition good. Shade and outdoor tobacco harvest just getting underway. First crop hay 90% harvested, 95% 1993, 95% avg.; good. Second crop hay 35% harvested, 20% 1993, 25% avg.; good to fair. Sweet corn 15% harvested, 15% 1993, 15% avg.; good. Apples, pears average fruit set. Peaches light fruit set. Cranberries average fruit set. Major farm activities: Harvesting hay, vegetables, irrigating, applying herbicides, fertilizers.

**NEW JERSEY:** Temperatures averaged much above normal. Extremes 62°; 95°. Rainfall 1.21 in. north, 1.77 in. central, 0.91 in. south. Heaviest 24-hour total 3.12 in. on 23rd, 24th. Estimated soil moisture, in percent field capacity, averaged 66% north, 75% central, 70% south. Four-inch soil temperatures 76° north, 78° central, 79° south.

Days suitable for fieldwork 5. Rainfall was reported statewide. The needed rain revived the topsoil moisture supply to an adequate level. Harvest of Lodi, Jersey mac apples is increasing. Blueberry harvest is active, 95% harvested in South Jersey. Good supply of green, yellow squash, cucumbers, green beans, tomatoes, eggplants, peppers, cantaloupes. Moderate supply of cabbage, watermelon. Light volume of okra, beets, herbs, green onions, parsley, turnips. Fall vegetables are being planted, including spinach, snap beans, cabbage, lettuce. Active harvesting of sweet corn continues. Potatoes are starting to be harvested in limited areas of South Jersey. Corn for grain, silage is at the silk stage. Second hay cutting occurring in limited areas. Pasture, range feed conditions remain below normal (90%).

**NEW MEXICO:** Temperatures were within a few degrees of normal at most locations, averaged 1° above normal for the entire State. Maximums still reached 100° at locations in the central, southeast plains, with 105° at Carlsbad on the 20th the highest reported. Hit or miss thunderstorms dotted the State. Higher totals included 1.52 in. at Raton, 0.85 in. at Johnson Ranch, 0.84 in. at Gran Quivira.

Days suitable for fieldwork 6.8. Soil moisture is 100% short. Cropland conditions: Alfalfa 5% poor, 15% fair, 75% good, 5% excellent. Irrigated wheat 11% poor, 22% fair, 56% good, 11% excellent. Dryland wheat 28% very poor, 29% poor, 29% fair, 14% good. Chile was reported at 8% poor, 8% fair, 84% good. Corn 11% poor, 17% fair, 55% good, 17% excellent. Irrigated sorghum was reported as 9% poor, 18% fair, 73% good. Dryland sorghum was 75% poor, 25% fair. Cattle, sheep conditions varied across the State poor to excellent condition. Range feed condition remained the same at 54% of normal.

**NEW YORK:** Temperatures near normal. Peak temperatures at midweek when highs were in 90s. Tropical humidity prevailed. Thunderstorms common throughout period. Extremes 51°; 97°. Rainfall 0.02 to 3.89 in. Locally heavy amounts due to thunderstorms.

Days suitable for fieldwork 6.2. Soil moisture short to adequate. Southeastern areas need rain. Pasture feed 89% of normal. Corn condition good to excellent, tasselling in most areas. Hay condition good. Alfalfa first cutting finished, second cutting 36% complete, 34% 1993, 31% avg. Clo-tim first cutting 96% finished, 96% 1993, 90% avg. Early potato harvest for fresh market continued. Dry beans in excellent. Vegetable harvesting gained momentum. Orange County onions show stress from dryness, heat. Strawberry fields being renovated. Fruit sizing well. Hot, humid conditions promoted growth. Tart cherry harvest near completion. Early peach varieties being picked.

**NORTH CAROLINA:** Mean temperatures normal to 4° above normal. Largest positive departures were in the central coastal plain. Rainfall ranged from 6.49 in. at Lookout Shoals to none at Banardsville, Beetree Dam.

Days suitable for fieldwork 5.1. Soil moisture 1% very short, 26% short, 62% adequate, 11% surplus. Crop conditions: Pasture 1% very poor, 9% poor, 30% fair, 59% good, 1% excellent; tobacco 18% fair, 67% good, 15% excellent; corn 2% very poor, 12% poor, 29% fair, 54% good, 3% excellent; cotton 21% fair, 75% good, 4% excellent; peanuts 17% fair, 77% good, 6% excellent; soybeans 22% fair, 76% good, 2% excellent; hay 1% very poor, 6% poor, 28% fair, 63% good, 2% excellent; sweet potatoes 17% fair, 78% good, 5% excellent; apples 18% fair, 78% good, 4% excellent; peaches 10% fair, 88% good, 2% excellent; truck crops 5% poor, 30% fair, 61% good, 4% excellent; hay, roughage supplies 21% short, 78% adequate, 1% surplus; peaches harvested 75%, 61% 1993, 65% avg.; flue cured tobacco harvested 14%, 13% 1993, 16% avg.; cotton squared 90%, 79% 1993, 87% avg.; cotton bloomed 65%, 60% 1993, 58% avg.; corn soft dough 69%, 60% 1993, 61% avg.; corn dent 45%, 22% 1993, 33% avg.; soybeans flowered 28%, 18% 1993, 21% avg.; second cutting of hay 56% complete with the third cutting 26% complete. Activities: topping tobacco;

harvesting flue tobacco, peaches, truck crops, applying pesticides. Other activities included: Harvesting hay, small grain; cultivating crops; tending livestock; equipment repair, general farm maintenance.

**NORTH DAKOTA:** Slow-moving low pressure system brought a mixture of weather. Rainfall 0.09 in. southwest to 1.10 in. northeast. Temperatures normal to 3° below normal. Extremes 39° southwest; 100° west central, south central.

Days suitable for fieldwork 5.8. Topsoil 1% very short, 20% short, 69% adequate, 10% surplus. Subsoil 14% short, 75% adequate, 11% surplus. Small grain development made good progress, varying levels of disease reported in the east. Spring wheat 2% very poor, 8% poor, 19% fair, 59% good, 12% excellent; durum 1% very poor, 4% poor, 15% fair, 60% good, 20% excellent; barley 1% very poor, 3% poor, 18% fair, 63% good, 15% excellent; oats 2% very poor, 6% poor, 22% fair, 60% good, 10% excellent. Spring wheat 19% turning to ripe and beyond, 6% 1993, 34% avg. Durum 5% turning to ripe and beyond, 3% 1993, 19% avg. Barley 30% turning to ripe and beyond, 12% 1993, 51% avg. Oats 26% turning to ripe and beyond, 5% 1993, 40% avg. Late season crops development ahead of last year, at or ahead of average. Flaxseed 1% poor, 16% fair, 67% good, 16% excellent; corn 2% very poor, 3% poor, 14% fair, 64% good, 17% excellent; dry edible beans 1% very poor, 8% poor, 21% fair, 53% good, 17% excellent; soybeans 6% poor, 15% fair, 61% good, 18% excellent; sunflower 1% poor, 8% fair, 71% good, 20% excellent; sugarbeets 1% very poor, 4% poor, 8% fair, 71% good, 16% excellent; potatoes 2% very poor, 3% poor, 9% fair, 63% good, 23% excellent. Average height of late season crops: flaxseed 16 in., corn 54 in., dry edible beans 17 in., soybeans 23 in., sunflower 43 in., potatoes 27 in. Flaxseed 65% blooming and beyond, 47% 1993, 66% avg., dry edible beans 40% podding and beyond, 3% 1993, avg. NA, soybeans 45% podding and beyond, 2% 1993, 24% avg., sunflower 14% blooming and beyond, 0% 1993, 6% avg., potatoes 83% blooming and beyond, 92% 1993, 88% avg., 68% rows filled, 56% 1993, 49% avg., corn 48% tasseling to silking and beyond, 2% 1993, 29% avg. Range, pasture conditions 89% of normal, hay 83% of normal. Alfalfa hay first cutting 97% complete, second cutting 16%, other hay 63%. Stockwater supplies 4% short, 92% adequate, 4% surplus.

**OHIO:** Warm front crossed at midweek, a cold front late 22nd. Most of the rain fell during the last half of the week. Storms were strong with frequent lightning, locally heavy rain. Temperatures 1 to 6° above normal across State. Extremes: highs in the middle 90s to night time lows 50s.

Days suitable for fieldwork 5.9. Rain, although scattered, fell in major corn-producing areas of the State. Moisture could not have come at a more favorable time as corn is now pollinating over much of the State. Soil moisture 24% short, 70% adequate, 6% surplus. Winter wheat harvest virtually complete. Corn has sixteen to all leaves emerged. Corn silking is 51%. Hay 1% very poor, 5% poor, 35% fair, 49% good, 10% very good. Alfalfa hay second cutting 83% complete. Other hay second cutting 53% complete. Pasture feed 2% very poor, 9% poor, 31% fair, 49% good, 9% excellent.

**OKLAHOMA:** Temperatures normal Panhandle, central to 2° above normal southwest. Precipitation 0.01 in. west central to 1.75 in. northeast.

Days suitable for fieldwork 5.7. Topsoil 42% short, 53% adequate, 5% surplus. Topsoil 31% short, 69% adequate. Corn 1% poor, 10% fair, 89% good; 99% tasseling, 93% 1993, 82% avg.; 50% milk-to-soft, 22% 1993, 30% avg.; 3% mature, 3% 1993, 3% avg. Soybeans 49% flowering, 15% 1993, 20% avg.; 22% setting pods, 2% 1993, 4% avg. Peanuts 25% fair, 75% good, 66% pegging, 65% 1993, 61% avg.; 32% setting pods, 41% 1993, 18% avg. Pasture feed 87% normal. Cattle prices \$1 to \$2 per cwt. above preceding week.

**OREGON:** Temperatures well above normal most areas, exception coast, normal. Willamette Valley, central sections 12° above normal. Dry statewide.

Soil moisture 60% short, 40% adequate. Winter wheat 27% harvested. Barley 26% harvested. Hay activities continued statewide. Some eastern wheat damaged by wind shatter. Mint development aided by extreme highs central areas. Grass seed harvest continued, Willamette Valley. Columbia Basin of Oregon sweet corn, onion, green pepper, potato harvests underway. Klamath Basin, central area potatoes bloom stage. Willamette Valley: Onion, green bean, broccoli, summer squash, zucchini, cucumber harvest underway, raspberry harvest coming to quick close, blueberry harvest continued mid to late season varieties, Marion blackberries harvest continued with some red berries showing, boysenberry harvest continued, peach harvest continued, Lodi, Yellow Transparent apple harvest underway, tart cherry harvest continued. Hood River Valley apple, pear crop development stalled, some sunburn due heat. Cranberry sizing continued, some fertilizing and irrigation continued; southern coast. Livestock good. Range, pasture feed 77% of normal. Grasshopper outbreaks, stockwater shortages still concern, eastern rangelands. Range, forest fires continued to threaten due to extreme dry, hot, windy conditions.

**PENNSYLVANIA:** Above normal temperatures, precipitation. Temperature 82°, 12° above normal. Extremes 52°, 96°. Precipitation 1.67 in., 0.78 in. above normal.

Days suitable for fieldwork 5. Soil moisture 39% short, 54% adequate, 7% surplus. Corn 34% silk, 17% 1993, 19% avg.; height 61 in., 54 in. 1993, 49 in. avg.; 4% poor, 18% fair, 53% good, 25% excellent. Soybean 6% poor, 18% fair, 57% good, 19% excellent. Barley 100% turning yellow, 98% 1993; 95% ripe, 88% 1993; 84% harvested, 73% 1993. Wheat 98% turning yellow, 100% 1993; 90% ripe, 88% 1993; 70% harvested, 63% 1993. Oats 79% turning yellow, 84% 1993; 47% ripe, 39% 1993; 14% harvested, 14% 1993; 1% very poor, 10% poor, 26% fair, 48% good, 15% excellent. Alfalfa first cutting 100% complete, 100% 1993. Second cutting alfalfa 67% complete, 64% 1993. Quality of hay made 2% poor, 57% fair, 41% good. First cutting timothy clover 95% complete, 98% 1993. Feed from pastures poor to fair. Apple condition 20% below avg., 79% avg., 1% above avg. Activities: Making hay; harvesting small grains; baling straw; spreading fertilizer; repairing equipment; fixing fences; hauling manure; caring for livestock.

**PUERTO RICO:** Island average rainfall of 0.96 in. was 0.27 in. below normal. Highest totals were 4.13 in. at Fajardo and 3.45 in. at Pico del Este. Highest 24-hour total was 4.10 in. at Fajardo on the 18th. Temperatures averaged 81 to 82° on the coasts and 74 to 77° in the interior with means ranging from 66.6° at Pico del Este to 83.6° at Roosevelt Roads. Extremes 57° and 96°.

**SOUTH CAROLINA:** Rainfall 2.40 in.; temperatures near normal.

Days suitable for fieldwork 5.1. Soil moisture 22% short, 76% adequate, 2% surplus. Tobacco fair to good; 96% topped, 88% 1993, 94% avg.; 36% harvested, 13% 1993, 29% avg. Corn fair to good; 91% doughing, 79% 1993, 81% avg.; 45% mature, 30% 1993, 33% avg.; 3% harvested, 7% 1993, 4% avg. Cotton 27% fair, 73% good; 92% squaring, 93% 1993, 94% avg.; 60% setting bolls, 77% 1993, 63% avg. Soybeans 33% fair, 67% good; 26% blooming, 28% 1993, 23% avg.; 7% setting pods, 5% 1993, 5% avg. Cantaloupes fair to good; 74% harvested, 72% 1993, 76% avg. Watermelons fair; 80% harvested, 76% 1993, 79% avg. Cucumbers fair to good; 90% harvested, 91% 1993, 87% avg. Peaches fair to good; 74% harvested, 56% 1993, 61% avg. Sorghum fair to good; 96% planted, 94% 1993, 90% avg.; 5% harvested, 3% 1993, 4% avg. Snap beans fair to good; 70% harvested, 79% 1993, NA avg. Fall hay fair to good; 18% harvested, 27% 1993, 25% avg. Pasture feed fair to good.

**SOUTH DAKOTA:** Temperatures normal to 5° below normal. Extremes 32°; 102°. Widely scattered rainfall received over nearly all locations. Heavier amounts 1.25 in. central to over 3.00 in. extreme northeast. Heaviest 3.68 in. northeast.

Days suitable for fieldwork 5.2. Topsoil 6% very short, 17% short, 61% adequate, 16% surplus. Subsoil 1% very short, 17% short, 65% adequate, 17% surplus. Winter wheat 9% poor, 38% fair, 49% good, 4% excellent. Winter rye 3% poor, 30% fair, 59% good, 8% excellent; 31% harvested, 1% 1993, 33% avg. Barley 2% poor, 49% fair, 44% good, 5% excellent; 12% harvested, 0% 1993, 22% avg. Oats 1% very poor, 2% poor, 42% fair, 49% good, 6% excellent; 26% harvested, 0% 1993, 29% avg. Flax 37% fair, 58% good, 5% excellent; 72% blooming, 54% 1993, 64% avg. Sunflower 8% fair, 73% good, 19% excellent. Alfalfa 49% 2nd cutting, 15% 1993, 32% avg. Other hay 59% harvested, 36% 1993, 56% avg. Livestock 2% fair, 75% good, 23% excellent. Feed supply 14% short, 75% adequate, 11% surplus. Pasture feed 91% of normal. Water supply 4% short, 78% adequate, 18% surplus.

**TENNESSEE:** Weather moist, unstable for week. Scattered showers prevailed. Temperatures east below normal 1° Plateau below normal 4°. Middle, west above normal 1°. Precipitation east, west below normal, middle slightly above normal.

Days suitable for fieldwork 3.6. Soil moisture 5% short, 72% adequate, 23% surplus. Corn 85% tasseling, 88% 1993, 82% avg.; 34% dough, 27% 1993, 29% avg.; 8% dent, 3% 1993, 8% avg.; 4% fair, 62% good, 34% excellent. Cotton 69% setting bolls; 72% 1993, 50% avg.; 2% fair, 96% good, 2% excellent. Sorghum 26% headed, 56% 1993, 46% avg.; 1% fair, 83% good, 16% excellent. Soybeans 34% blooming, 29% 1993, 24% avg.; 7% setting pods, 5% 1993, 5% avg.; 11% fair, 71% good, 18% excellent. Tobacco 23% topped, 16% 1993, 21% avg.; 11% fair, 88% good, 1% excellent. Alfalfa 96% 2nd cut., 97% 1993, 94% avg.; 2% poor, 7% fair, 85% good, 6% excellent. Other hay, 1% poor, 20% fair, 76% good, 3% excellent. Pasture feed 10% fair, 76% good, 14% excellent. Cattle, 4% fair, 89% good, 7% excellent.

**TEXAS:** Warm, mostly dry conditions plagued the Lone Star State last week. However, a cold front moved into the State on 20th producing rather heavy rainfall in the Panhandle. Front stalled 21st, precipitation began to diminish. Precipitation associated with this front was concentrated in the central portion of the State, while some thunderstorms also developed along the Texas Coast. Precipitation, as well as the front, disappeared by the weekend. All areas received below normal rainfall last week. Low Rolling Plains, Southern Texas, Edwards Plateau did not receive any

rainfall. The most any one area received was 0.39 in. High Plains. Departures ranged from -0.16 in the Lower Valley to -0.79 in the Upper Coast. Highest single station total was 2.80 in. at Amarillo. Many areas did not receive any rainfall. In fact, Amarillo was the only area to record over 1.00 in. Temperatures were at or above normal for all areas, except the Low Rolling Plains, Southern Texas. The above normal departures ranged from 1° in East Texas to 3° Upper Coast, Edwards Plateau.

**Crops:** Corn harvest increased in Central Texas, expanded in Blacklands. Harvest began winding down in Rio Grande Valley. Irrigation remained active in Plains, most fields were showing signs of improvement. Corn 83% normal, 85% 1993; 64% doughing, 61% 1993; 52% dented, 44% 1993; 38% mature, 23% 1993; 13% harvested, 8% 1993. Cotton harvest increased in the Valley, northward through the Coastal Bend. Plants were maturing rapidly in Central Texas, Blacklands under hot temperatures. In the Plains, spraying operations increased due to bollworm problems. Cultivation activities, insect scouting, irrigation were also constant. Cotton 77% normal, 77% 1993; 9% open bolls, 5% 1993; 1% harvested, 0% 1993. Peanuts made good progress last week, however, most dryland fields were moisture stressed. Producers continued to spray for leaf spot, irrigation activities increased. Peanuts 83% normal, 79% 1993. Rice hot, dry weather conditions along the Upper Coast, South Central Texas allowed harvest activities to increase. Rice 95% normal, 87% 1993; 9% harvested, 0% 1993. Sorghum harvest made good progress in Central Texas, Blacklands, however lodging in some fields continued to hinder harvesting operations. Harvest was winding down in most southern areas. Fields in the Plains showed some improvement, still stressed from lack of moisture. Sorghum 76% normal, 79% 1993; 51% mature, 32% 1993; 40% harvested for grain, 20% 1993. Soybeans progress remained good. Some fields along Upper Coast were harvested. Irrigation on the Plains continued. Small grains most producers were busy plowing fields and making preparations for fall grain planting. Wheat harvest was completed, oat harvest was nearing completion. Oats 96% harvested, 92% 1993.

**Commercial Vegetables:** Rio Grande Valley irrigation continued in citrus groves. Plowing, leveling, herbicide application activities increased in preparation for fall vegetable plantings. San Antonio-Winter Garden: watermelon, cantaloupe harvest began winding down. Trans-Pecos harvest of cantaloupe continued. East Texas: tomatoes, okra, peppers, squash, peas, beans, watermelons were harvested. Sweet potatoes continued to make good progress. Producers were busy preparing for fall vegetable plantings. High Plains potato, carrot, onion harvest remained active. Some vegetables began to stress due to extreme high temperatures. Peaches early variety peach harvest began to wind down with most late varieties making good progress. In the Edwards Plateau, most varieties continued to mature, however, quality was declining due to extreme heat. Pecans continued to make good progress, however, some trees were still shedding nuts due to drought conditions. Scab problems in Cross Timbers began to decrease and irrigation increased in areas where available.

**Range and Livestock:** Hot, dry conditions caused most range, pasture conditions to begin to decline again. Hay cutting, baling continued in areas where grasses were available. Most producers increased supplemental feeding or began grazing, baling forage on CRP land in areas where this practice was allowed. Livestock remained in fair to good condition, showed signs of heat stress. Flies, ticks also continued to be a problem in most herds.

**UTAH:** No weather data available.

Days suitable for fieldwork 6.8. Soil moisture 100% short. Irrigation water supply 31% very short, 59% short, 10% adequate. Stockwater supply 21% very short, 65% short, 14% adequate. Hay, roughage supplies 39% short, 58% adequate, 3% surplus. Spring wheat ripe 70%, 38% 1993, 46% avg.; harvested 30%, 2% 1993. Barley ripe 68%, 47% 1993, 51% avg.; harvested 30%, 10% 1993. Oats harvested hay/silage 81% completed, 57% 1993. Winter wheat harvested 45%, 5% 1993, 28% avg. Corn height 53 in., 43 in. 1993, 50.8 in. avg.; tasseling 28%, 16% 1993, 24% avg. Alfalfa hay 2nd cutting 60% completed, 50% 1993, 57% avg. Other hay cutting 75% completed, 63% 1993, 66% avg. Tart cherries 75% picked. Pastures, range conditions poor to fair. Irrigating, harvesting alfalfa, oats hay/silage, grass hay, barley, wheat, tart cherries, apricots. Flash flooding was reported in extreme southwestern areas.

**VIRGINIA:** Temperatures above normal. Extremes 61°; 100°. Rainfall above normal.

Days suitable for fieldwork 4.5. Topsoil moisture 37% short, 57% adequate, 6% surplus. Pasture feed 8% very poor, 28% poor, 45% fair, 19% good. Alfalfa hay 13% poor, 42% fair, 45% good. Other hay 7% very poor, 31% poor, 42% fair, 20% good. Apple 2% poor, 35% fair, 63% good. Flue tobacco 17% poor, 15% fair, 68% good. Flue tobacco harvested 3%, 3% 1993, 7% avg. Burley tobacco 2% fair, 98% good. Fire tobacco 31% fair, 69% good. Sun tobacco 100% fair. Corn 7% very poor, 21% poor, 43% fair, 26% good, 3% excellent; 61% silked, 61% 1993, 66% avg.; dough stage 24%, 22% 1993, 28% avg.; dented 2%, 2% 1993, 8% avg. Soybeans 15% poor, 45% fair, 40% good. Soybean planting was 100% complete, 100% 1993, 99% avg.; blooming 24%, 24% 1993, 28% avg.; setting pods 10%, 10% 1993, 12% avg. Peanuts 50% fair, 50% good. Cotton 7% fair, 93% good. Wheat 100% harvested, 100%

1993, 100% avg. Barley 100% harvested, 100% 1993, 100% avg. Oats 100% harvested, 97% 1993, 98% avg. Potatoes 70% harvested, 80% 1993, 75% avg. Peaches harvested 35%, 10% 1993, 32% avg. Summer apples harvested 8%, 3% 1993, NA avg. Tobacco topping continues, harvesting flue tobacco begins. Harvesting vegetables remains active. Spraying fruit trees, harvesting of summer apples, peaches. Rain cutting down on suitable fieldwork days, helping crop condition considerably.

**WASHINGTON:** Temperatures 5 to 9° above normal west, with the exception of Hoquiam which was normal; 5 to 12° above normal east, with the exception of Wapato which was 1° below normal. Precipitation none to 0.13 in. west; none to 0.01 in. east. Weather was hot, dry. High temperatures were at or above 100° throughout statewide with the exception of the northeast, along the coast. Highest temperatures 102° in the west at Olympia, 112° in the east at Walla Walla. Daily record highs were recorded in many areas.

Days suitable for fieldwork 7.0. Soil moisture 68% short, 32% adequate. Hay, other roughage supplies 2% very short, 6% short, 92% adequate. Range, pasture feed 18% very poor, 37% poor, 33% fair, 12% good. Winter wheat dryland 25% poor, 44% fair, 31% good; irrigated 2% fair, 98% good. Spring wheat dryland 8% very poor, 48% poor, 36% fair, 8% good; irrigated 3% fair, 97% good. Barley dryland 17% very poor, 42% poor, 23% fair, 18% good; irrigated 4% fair, 96% good. Potatoes 2% fair, 98% good. Dry edible beans 4% fair, 96% good. Corn 10% fair, 90% good. Winter wheat 20% harvested, 9% 1993, 16% avg. Spring wheat 10% harvested, 0% 1993, 7% avg. Barley 18% harvested, 4% 1993, 13% avg. Potatoes 5% harvested, 2% 1993, 4% avg. Dry peas 14% harvested, 7% 1993, 17% avg. Alfalfa, second cutting, 71% complete, 60% 1993, 67% avg. The hot, dry weather reduced soil moisture. Grain harvest was well underway in many areas. Yields for winter wheat were mixed while spring grain yields were mostly below "average". Cherry harvest was completed in the Wenatchee Valley. Some heat damage was seen in apple orchards. A few Golden Delicious apples were being picked in Grant, Adams Counties. Pastures continued to dry out and fire danger increased.

**WEST VIRGINIA:** Temperature 75°. Extremes 59°; 97°. Precipitation 1.01 in.

Days suitable for fieldwork 4.5. Soil moisture 13% short, 80% adequate, 7% surplus. Wheat good; harvested 86%, 94% 1993, 69% avg. Hay 11% poor, 35% fair, 47% good, 7% excellent; first cutting 96%, 95% 1993, 90% avg.; second cutting 26%, 30% 1993, 27% avg. Apples 50% poor, 50% fair. Peaches 100% very poor. Corn 6% poor, 17% fair, 77% good; silked 31%, 30% 1993, 34% avg.; dough stage, 10%, 5% 1993. Oats 42% fair, 58% good; ripe 80%, 92% 1993, 75% avg.; harvested 48%, 36% 1993. Tobacco 38% fair, 62% good, topped 4%. Gardens 36% fair, 64% good. Soybeans 38% fair, 62% good; blooming 54%, 37% 1993; podding 29%. Pasture feed 3% poor, 40% fair, 57% good; 81% of normal. Cattle 2% fair, 94% good, 4% excellent. Sheep 8% fair, 91% good, 1% excellent. Farm activities: Cutting hay, harvesting oats, wheat, gardening.

**WISCONSIN:** Temperature 70°, 1° below normal. Extremes 45°; 92°. Precipitation 0.60 to 1.70 in.

Days suitable for fieldwork 4.1. Soil moisture 7% short, 69% adequate, 24% surplus. Pasture feed 89%, 92% 1993, 78% avg. General condition of crops 2% fair, 72% good, 26% excellent. Average height of corn 75 in., 42 in. 1993, 57 in. avg. Corn silked 47%, 2% 1993, 21% avg. Corn condition: 41% good, 59% excellent. Oats 1% very poor, 4% poor, 34% fair, 56% good, 5% excellent. Soybean 4% fair, 51% good, 45% excellent. Second cutting hay harvested 40%, 23% 1993, 39% avg. Winter wheat harvested 24%, 8% 1993, 24% avg. Oats harvested 7%, 3% 1993, 7% avg. The frequent rainfalls have really moved the crops along. Corn continued to progress well in the hot, wet conditions. Wet, cloudy weather caused difficulties for farmers, who were eager to complete second cutting hay harvest. Third crop hay was coming back well where second crop has been removed. Oats harvesting has begun with many reports of weed problems. Some soybeans began to set pods; the crop looks excellent. Wet, humid weather slowed winter wheat harvest. Potato harvest has started, early reports indicated good yields. Cranberries are just out of bloom in the north, had a good set in the central part of the State.

**WYOMING:** Temperatures ranged from 5° below normal at Powell to 5° above normal at Moran. Precipitation 0.40 in. below normal to 0.50 in. above normal. Torrington received the largest amount with 0.83 in.

Days suitable for fieldwork 6.5. Topsoil 75% short, 25% adequate. Winter wheat 98% mature, 61% 1993, 61% avg.; 60% harvested, 6% 1993, 15% avg. Spring wheat 14% mature, 4% 1993, 18% avg. Oats 16% mature, 8% 1993, 14% avg.; 6% harvested, 0% 1993, 2% avg. Barley 35% mature, 10% 1993, 29% avg.; 4% harvested, 3% 1993, 3% avg. Corn 63% tasseled, 8% 1993, 25% avg.; 23% silked, 0% 1993, 3% avg. Dry beans 79% bloomed, 56% 1993, 58% avg.; 24% setting pods, 0% 1993, 9% avg. Winter wheat 73% fair, 27% good. Barley 3% poor, 16% fair, 81% good. Oat 14% poor, 28% fair, 58% good. Spring wheat 29% poor, 46% fair, 20% good, 5% excellent. Sugarbeets 1% fair, 76% good, 23% excellent. Corn 19% fair, 42% good, 39% excellent. Dry beans 12% fair, 59% good, 29% excellent. Alfalfa 22% second cutting, 1% 1993, 5% avg. Other hay 65% acreage harvested, 54% 1993, 52% avg. Irrigation water supplies 52% short, 48% adequate. Stockwater supplies 54% short, 46% adequate.

# International Weather and Crop Summary

## HIGHLIGHTS

July 17 - 23, 1994

**FSU-WESTERN:** Weather conditions favored winter grain harvesting but remained too dry for summer crops advancing through reproduction.

**FSU-NEW LANDS:** Drier weather covered spring grain areas in Kazakhstan.

**EUROPE:** Rain benefited summer crops in northern France but slowed winter grain harvesting in southern Germany and the Balkans.

**AUSTRALIA:** Drought continued to significantly delay eastern wheat planting.

**SOUTH ASIA:** Monsoon showers benefited primary grains, oilseeds, and cotton but caused additional flooding to rainfed rice.

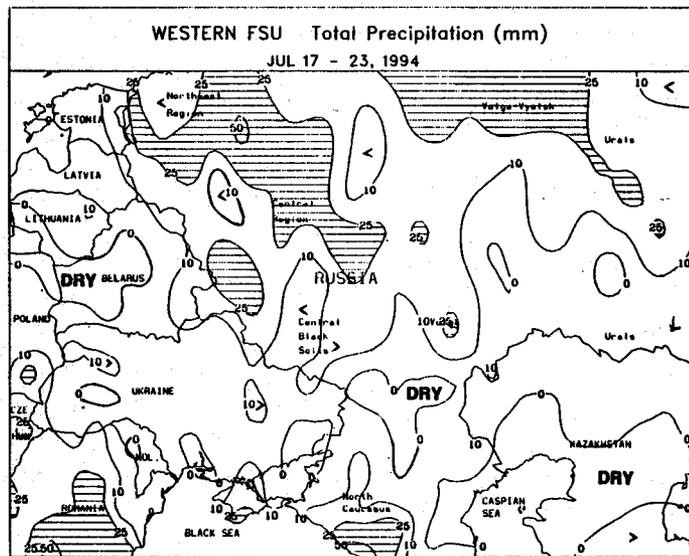
**SOUTHEAST ASIA:** Rainfall was unseasonably light over primary Thai rainfed crop areas.

**EASTERN ASIA:** Heavy rains produced additional flooding across portions of southern China.

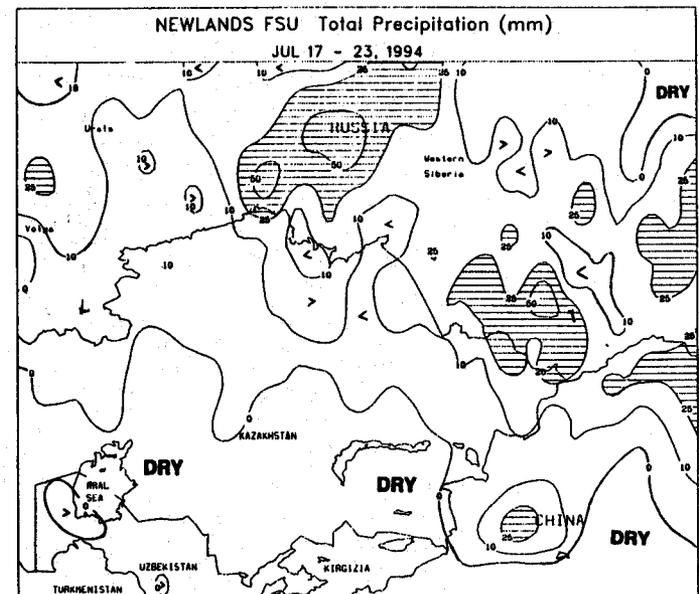
**SOUTH AMERICA:** Rain benefited winter wheat across Argentina and southern Brazil.

**MEXICO:** Seasonal showers continued to benefit summer crops across the main corn belt.

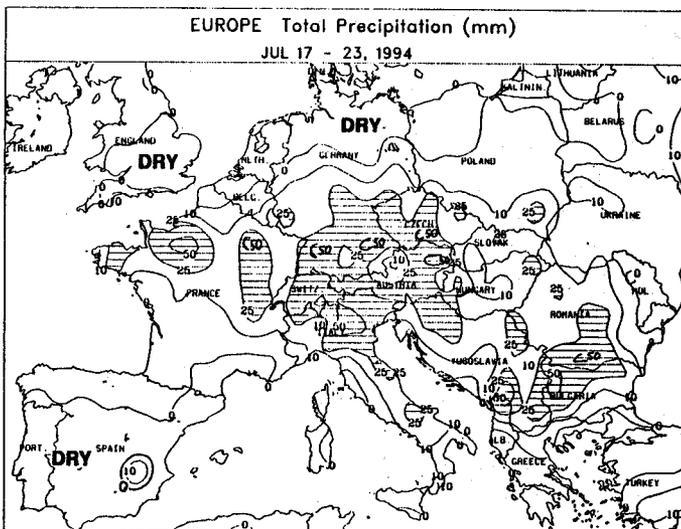
**CANADA:** Warm, dry weather in the southwest Prairies reduced moisture for reproductive grains and oilseeds.



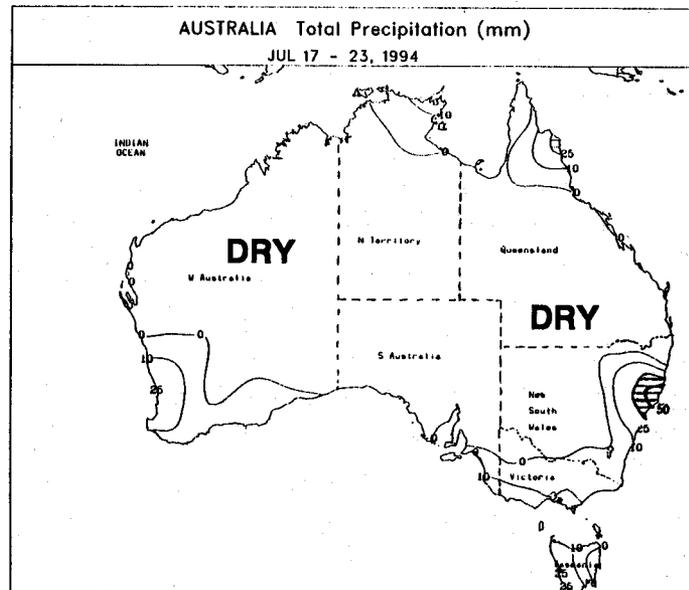
**FSU-WESTERN:** Scattered showers (mostly less than 10 mm) over Ukraine and southern Russia eased persistent dryness that has lasted since mid-June. However, rainfall was below normal and insufficient to meet the peak water requirements of corn and sunflowers advancing through reproduction. As a result, crops had to rely on limited soil moisture reserves for development. Winter grain harvesting continued to advance northward, helped by several days of dry weather. Spring grains were maturing in southern Ukraine and North Caucasus in Russia. The spring grain harvest usually begins in August and advances north and eastward during the month. Weekly average temperatures were 1-3 degrees Celsius (C) above normal in Ukraine and near-normal in Russia.



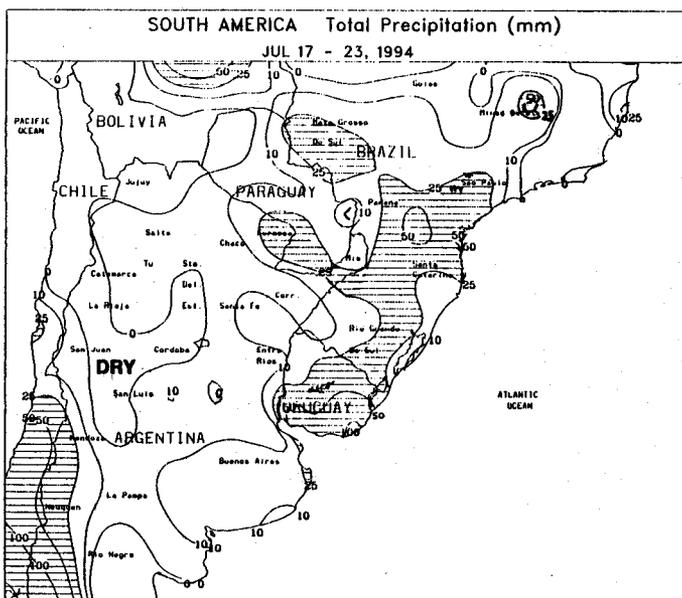
**FSU-NEW LANDS:** Rainfall diminished over the Urals in Russia as well as Kazakhstan, where precipitation amounts were mostly below 10 mm. Drier weather over the Urals was beneficial, following several weeks of wetness. Greatest amounts of rain (11-30 mm, with local amounts in excess of 50 mm) fell over Western Siberia in Russia, benefiting spring grains in the filling stage. Although there was a gradual warming trend over the region, weekly temperatures averaged 2-4 degrees Celsius below normal, slowing crop development. In cotton areas of Central Asia, seasonably dry weather was accompanied by below-normal temperatures, favoring cotton in the flowering stage.



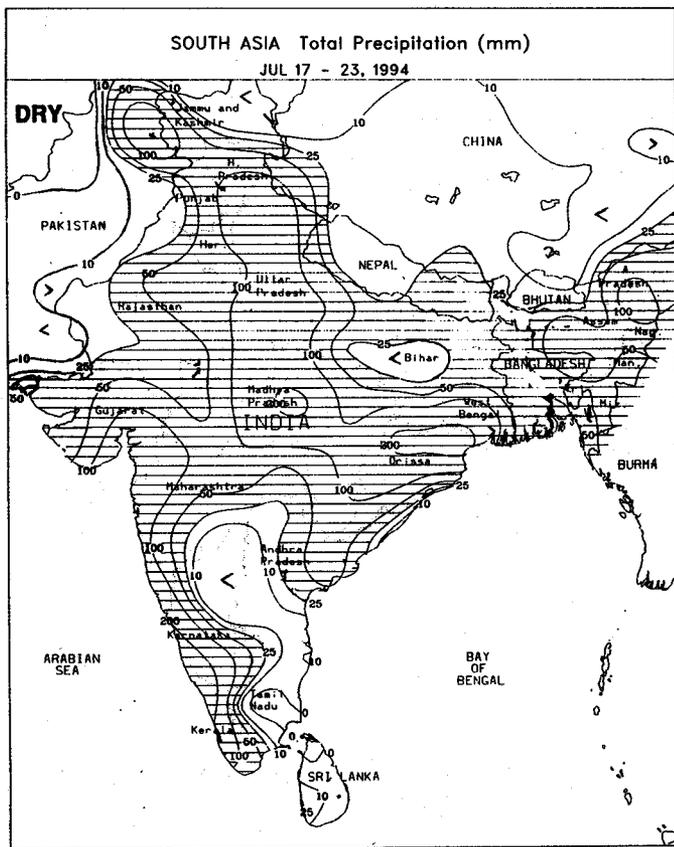
**EUROPE:** In northern France, beneficial rain (10-65 mm) moistened topsoils for summer crop development. Drier weather late in the week allowed winter grain harvesting to resume. Early winter crop harvesting began in England, aided by mostly dry weather. Showers (10-30 mm) over southern Germany maintained adequate crop moisture but delayed harvesting. Mostly dry weather over northern Germany and most of Poland favored early winter grain and oilseed harvesting. Variable showers (5-25 mm) over east-central Europe helped corn development and caused only minor winter grain harvest delays. In southeastern Europe, wet weather continued over the Balkans, with locally heavy showers in southern Romania and western Bulgaria, possibly affecting the quality of mature grains. In Scandinavia, mostly dry, warm weather promoted crop development. Weekly temperatures averaged 1-4 degrees C above normal across Europe, promoting winter crop maturation and summer crop growth.



**AUSTRALIA:** The drought continued across the eastern wheat areas (Queensland and New South Wales), further delaying planting. Rain in the next few weeks may allow some planting, but the end of the planting season is near. The only significant rain in the east occurred across southern Victoria (3-16 mm). Rains (8-20 mm) continued to benefit western wheat. Seasonably dry weather favored sugarcane harvesting across the northeast coast of Queensland. Temperatures averaged 1-2 degrees C below normal across the east and 2-4 degrees C above normal in the west.

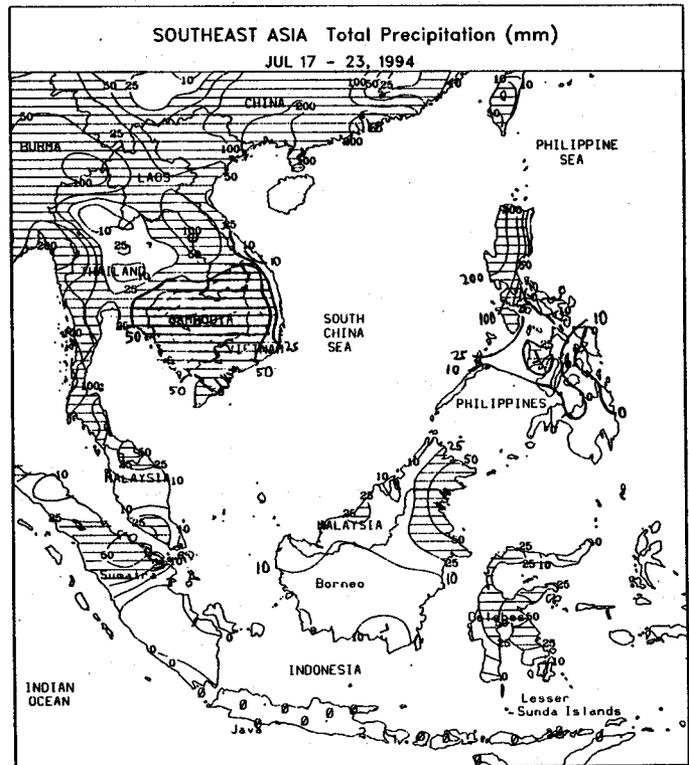


**SOUTH AMERICA:** In Argentina, light showers (10-15 mm) fell across central and southern Buenos Aires, favoring germinating to vegetative winter wheat. Drier weather prevailed across the wheat areas of southern Santa Fe and northern Buenos Aires. So far this season, rainfall has been mostly adequate for winter wheat. In southern Brazil, moderate showers covered the prime wheat areas of Parana and Rio Grande do Sul, aiding vegetative to heading winter wheat. Temperatures averaged near normal across Buenos Aires province and 2-4 degrees C above normal across northern Argentina, southern Paraguay, and southern Brazil. Temperatures remained well above freezing across the main coffee areas.

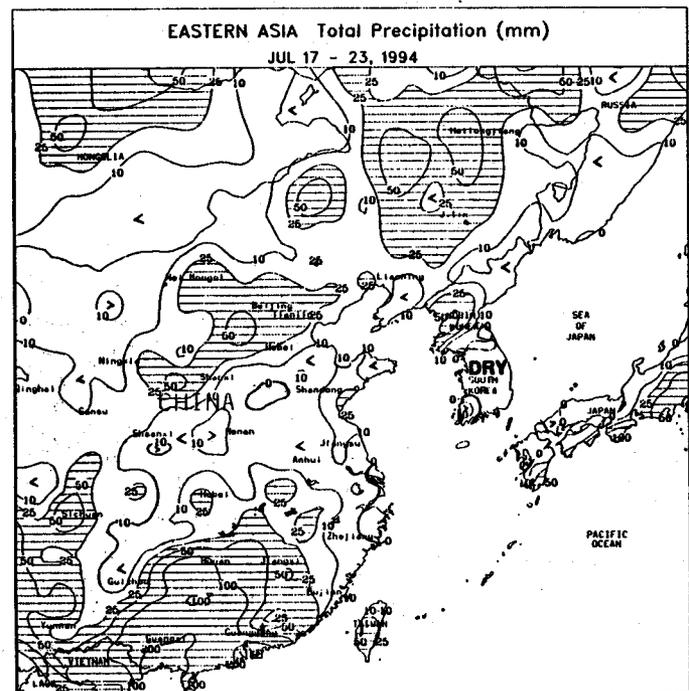


**SOUTH ASIA:** An active monsoon brought additional moderate to heavy rains (50-100 mm or more) to central and northern India, favoring summer crop development. However, inundating rain (100-250 mm) caused additional local flooding in eastern rainfed rice areas (Madhya Pradesh and Orissa). Rainfall totaled 45-104 mm over western groundnut areas (Gujarat), keeping topsoils wet following last week's heavy rain. Mostly dry weather returned to sections of the southern interior. Further north, heavy rain (100 mm or more) boosted irrigation reserves over northern Pakistan, but rainfall was lighter (less than 25 mm) over rainfed cotton and rice.

**EASTERN ASIA:** Very heavy showers (100-200 mm, with isolated amounts greater than 300 mm near the coast) covered portions of southern China (Guangxi, Guangdong, and southern Hunan), causing additional flooding in areas which experienced flooding in June. The rains possibly damaged mature, early double-crop rice and delayed fieldwork. Southeast China (Jiangxi, Fujian, and Zhejiang) along with central Sichuan received light to moderate showers (20-70 mm), benefiting summer crops. Scattered light rain (5-20 mm) fell across most of the North China Plain, where moisture remains adequate for reproductive summer crops. Light to moderate rain (10-40 mm) in northern China (northern Shaanxi and northern Hebei) and Manchuria favored vegetative to reproductive summer crops. Temperatures averaged 1-3 degrees C above normal across most of eastern China, while portions of southern China reported temperatures of 1-2 degrees C below normal. South Korea reported little or no rain for the week, but North Korea received moderate showers (15-60 mm). Temperatures across the Korean Peninsula remained 4-6 degrees C above normal. Southern and northern Japan received little rain, with moderate showers (20-60 mm) reported in central Japan. Temperatures averaged 2-4 degrees above normal across Japan. Dry, sunny weather in Japan the past few weeks benefited reproductive to filling rice. However, rain is needed across South Korea, which has been experiencing unusually hot, dry weather. Last year, cool, wet weather during July and August reduced rice yields in South Korea and Japan.



**SOUTHEAST ASIA:** Rainfall was unseasonably light (25 mm or less) for the third week over Thailand's primary rainfed rice and corn areas. Moderate to heavy showers (35-130 mm) continued over sections of the Mekong River and the Thai Peninsula. However, mostly dry weather prevailed in rice and oil palm areas of Malaysia and Indonesia, including Java, which received virtually no rain for the sixth week. In the Philippines, Tropical Storm Yunya brought inundating rain (200-300 mm) to Luzon's northwest coast, causing more flooding of rice and corn. Rainfall elsewhere in the islands was mostly light.

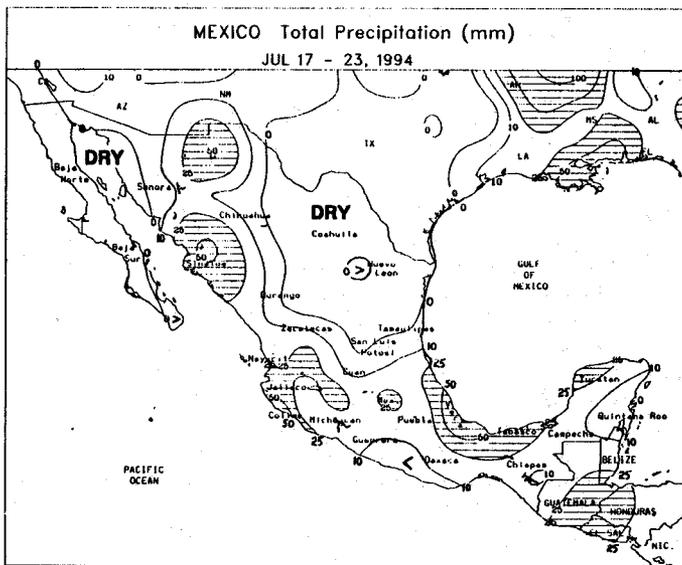


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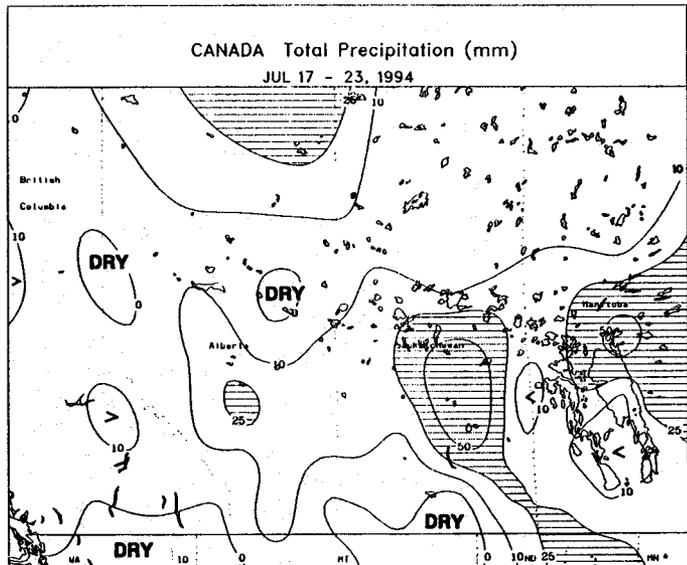
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**MEXICO:** Light to moderate showers (10-40 mm) covered most of the Southern Plateau corn belt, favoring corn and sorghum. Scattered showers (10-60 mm) helped to replenish reservoirs across the northwest (Sinaloa, western Chihuahua, and eastern Sonora). Moderate to heavy showers (25-80 mm) benefited sugarcane, coffee, and citrus along the east-central coast (Veracruz). Temperatures averaged near normal across the main corn belt.



**CANADA:** The drying trend continued over the southwestern Prairies, with rainfall totaling less than 10 mm over a large area. Hot weather (highs reaching the low to mid 30's C) at midweek enhanced evaporative losses and increased moisture demands on grains and oilseeds in or nearing reproduction. Elsewhere in the Prairies, light to moderate rain (10-25 mm or more, with 50-100 mm in northeastern Saskatchewan) benefited grains and oilseeds, except for Alberta's Peace River Valley which was mostly dry. In Ontario and Quebec, warm weather and moderate showers (25-57 mm) benefited corn and soybeans.

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