

# 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

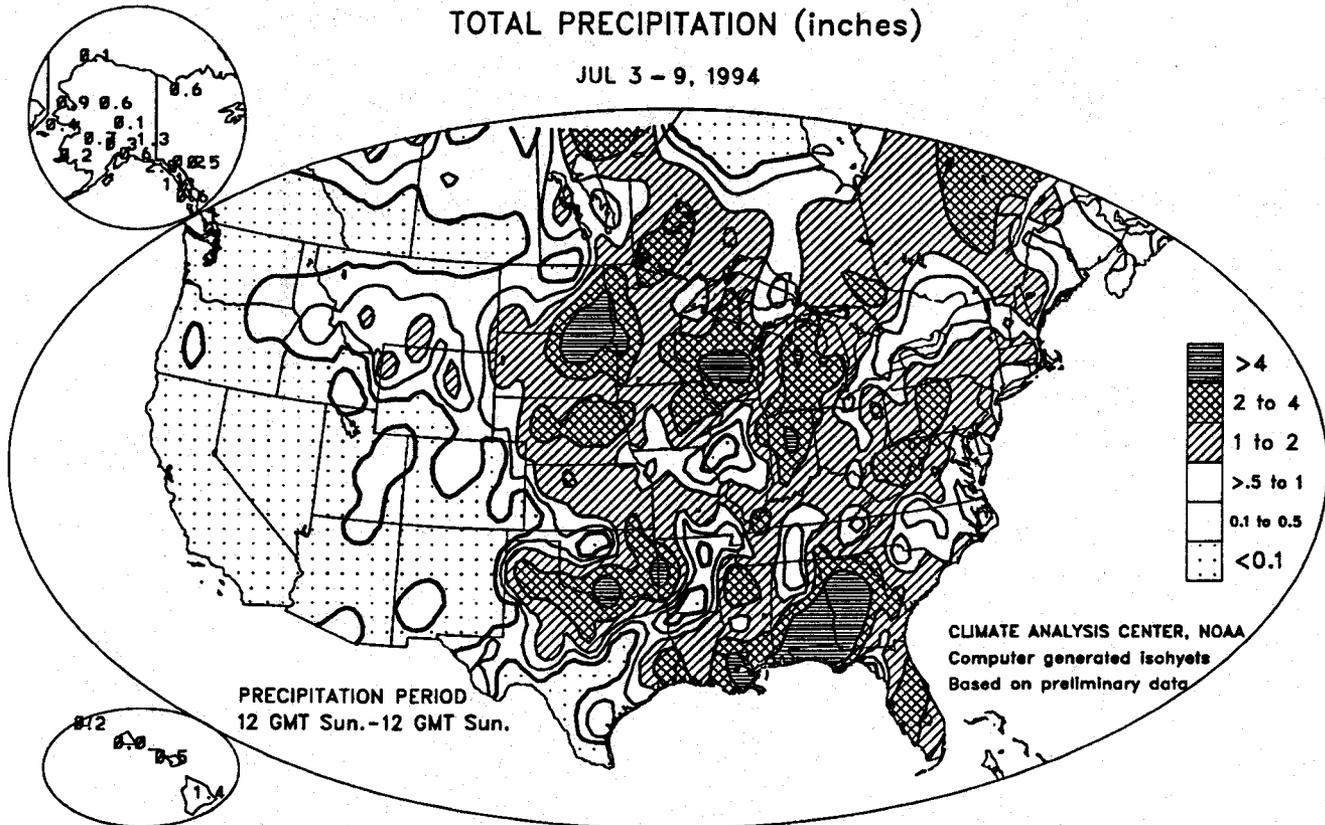
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## TOTAL PRECIPITATION (inches)

JUL 3 - 9, 1994



## HIGHLIGHTS

July 3 - 9, 1994

Record flooding ravaged southwestern and west-central Georgia, southeastern Alabama, and western Florida as the meandering circulation center of former tropical storm Alberto unleashed epic rainfall. Farther west, a vigorous storm center crossed the Western States in the wake of last week's heat wave and in the face of ongoing drought, spawning lightning-lit wildfires. Elsewhere, heavy rain soaked the James and Red River basins in the eastern Dakotas, the northern Corn Belt (central Wisconsin and central Lower Michigan), the central Appalachians, and the Red River Valley (along the Texas-Oklahoma border).

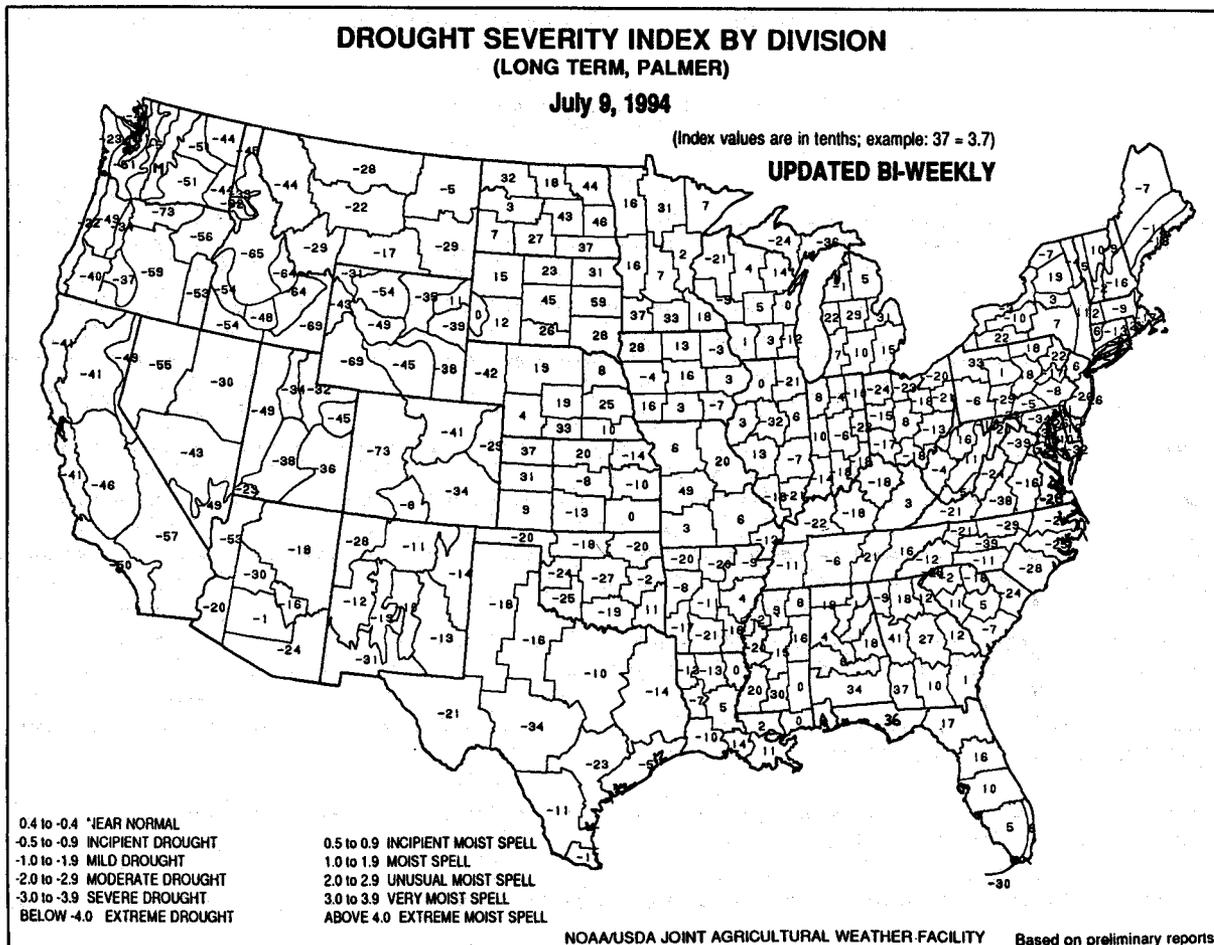
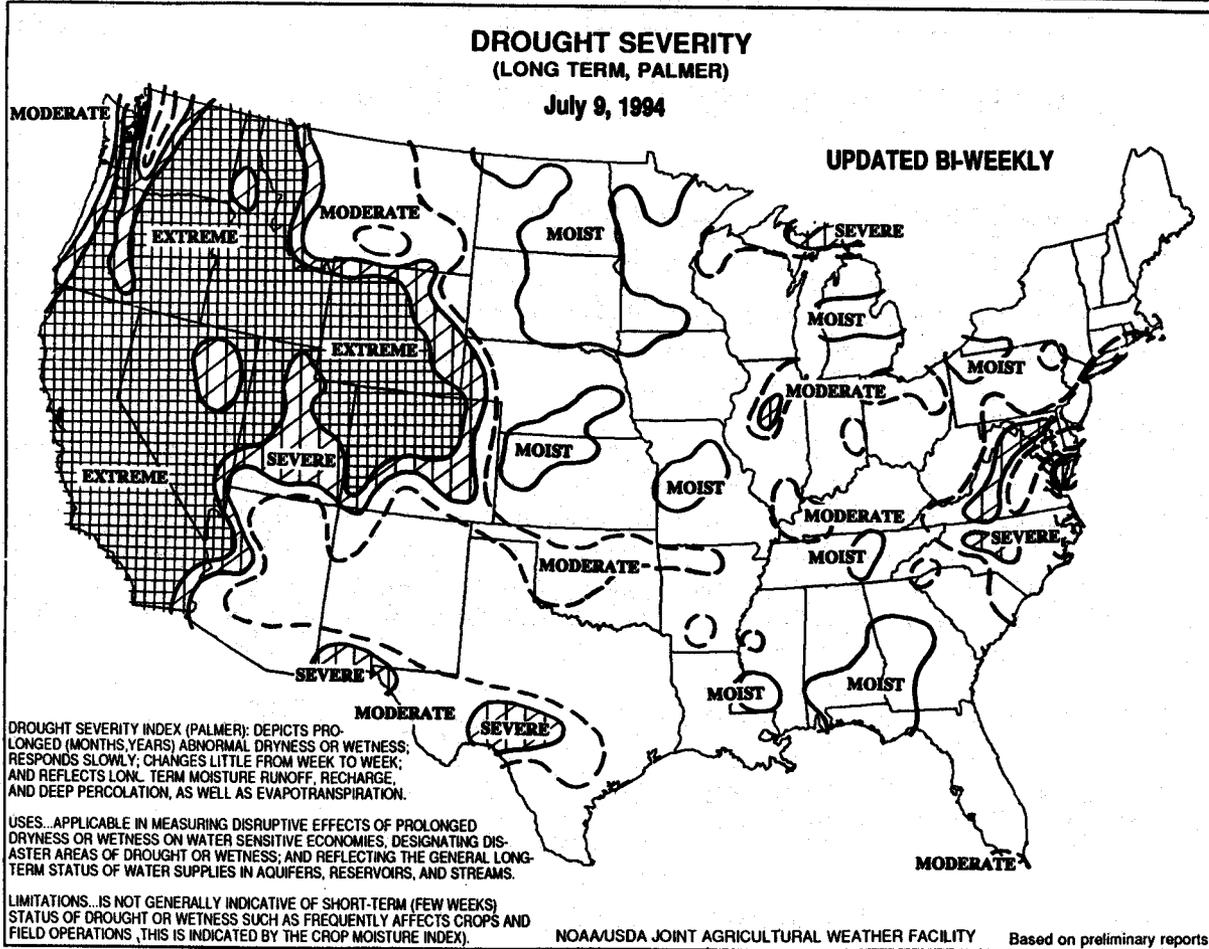
Alberto swept across the Florida coast near Fort Walton Beach during the late morning hours of July 3, spreading tropical storm-force winds across the barrier beaches south of Choctawhatchee Bay. Over the next 4 days, Alberto's remnant circulation center drifted into central Georgia, then wandered westward into

(Continued to p. 10)

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## Remains of Alberto Deluge a Three-State Area

The torrential rains left over by Tropical Storm Alberto brought major flood damage to southwestern Georgia, southeastern Alabama, and the panhandle of Florida. In Georgia, which experienced the worst flooding in modern times, several towns were largely under water, some 600 bridges and 1700 roads were reported to be out, tens of thousands of residents were homeless, and the media reported the death toll to be at least 28. One death was reported in Alabama. Large acreage of crops were under water in both Georgia and Alabama and, to a lesser extent, northwest Florida.

In Georgia, the Georgia Agricultural Statistics Service reports that areas of west central, central, and southwest Georgia were hit by torrential rains and record floods. Damage to agriculture and the infrastructure supporting agriculture has been severe in affected areas. As of Monday, July 11, flooding continued on major rivers and streams in central and southwest Georgia. The weather of the week of July 4-10 was also a disastrous one for many south Alabama counties as flooding breached levies and swelled rivers and creeks above flood stage. The excessive rains also caused major flooding across Florida's panhandle during the first part of last week.

Weekly rainfall topped 10 inches in a band from near Atlanta, GA to southeastern Alabama. The hardest hit basins were Georgia's Flint and Ocmulgee Rivers, which drain an area that includes peach orchards and the western portion of the State's peanut crop. Severe flooding occurred in Macon and Albany, GA, where the Flint surged to 26 feet above flood stage.

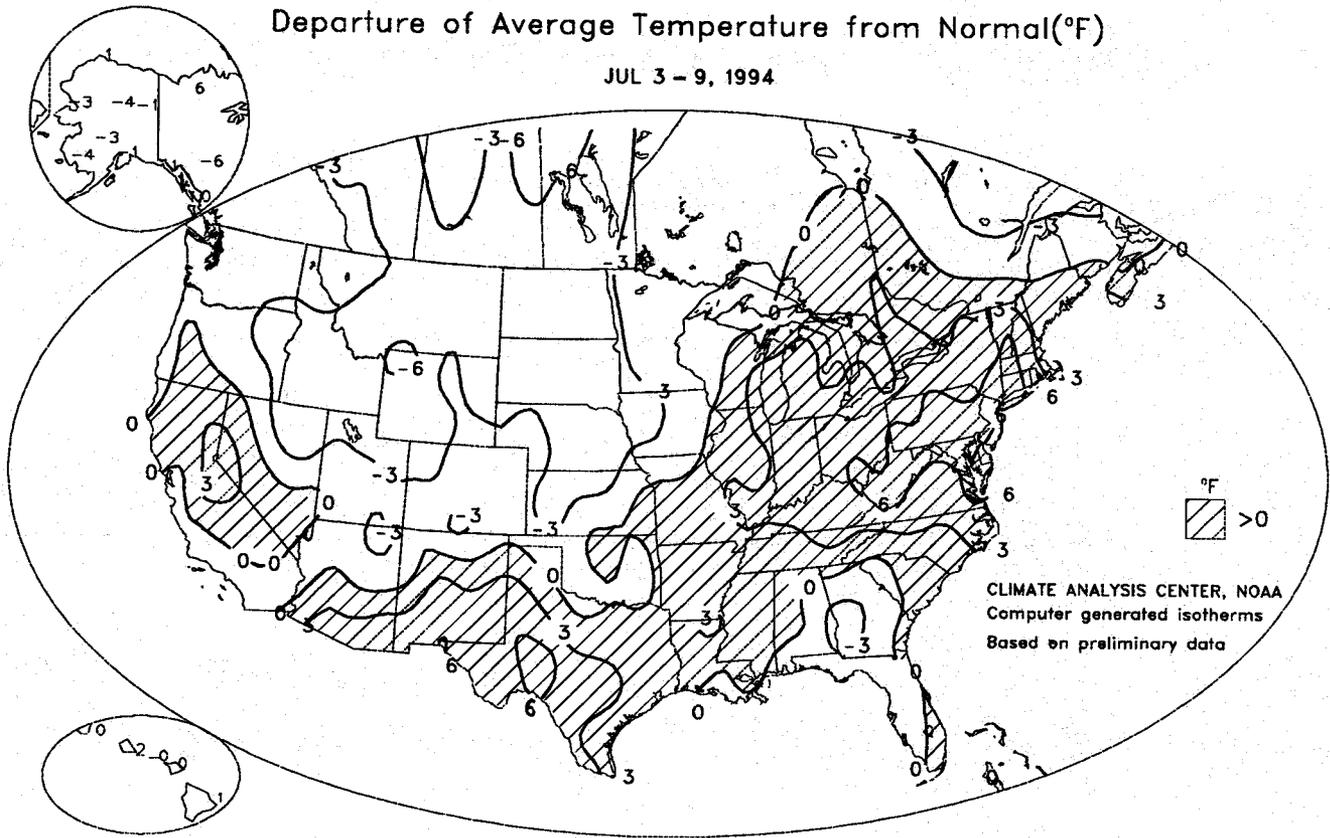
--Doug Le Comte

### River Levels

RIVER	LOCATION	CREST (feet)	FLOOD STAGE (ft)	PREVIOUS RECORD
<i>Flint</i>	<i>Albany, GA</i>	<i>46 on Jul 10</i>	<i>20</i>	<i>37.8 in 1925</i>
<i>Flint</i>	<i>Bainbridge, GA</i>	<i>45 on Jul 14 (FCST)</i>	<i>25</i>	<i>40.9 in 1925</i>
<i>Kinchafoonee</i>	<i>Dawson, GA</i>	<i>26.6 on Jul 7</i>	<i>13</i>	<i>20.4 in 1990</i>
<i>Ocmulgee</i>	<i>Macon, GA</i>	<i>35.3 on Jul 7</i>	<i>18</i>	<i>29.8 in 1990</i>
<i>Apalachicola</i>	<i>Blountstown, FL</i>	<i>27.4 on Jul 10</i>	<i>15</i>	<i>28.6 in 1929 (record holds)</i>
<i>Woodruff Dam</i>	<i>Chattahoochee, FL</i>	<i>76.3 on Jul 10</i>	<i>66</i>	<i>79.6 in 1929 (record holds)</i>
<i>Choctawhatchee</i>	<i>Geneva, AL</i>	<i>42.2 on Jul 8</i>	<i>23</i>	<i>N/A</i>
<i>Chattahoochee</i>	<i>George Lock &amp; Dam</i>	<i>149 on Jul 7</i>	<i>134</i>	<i>N/A</i>

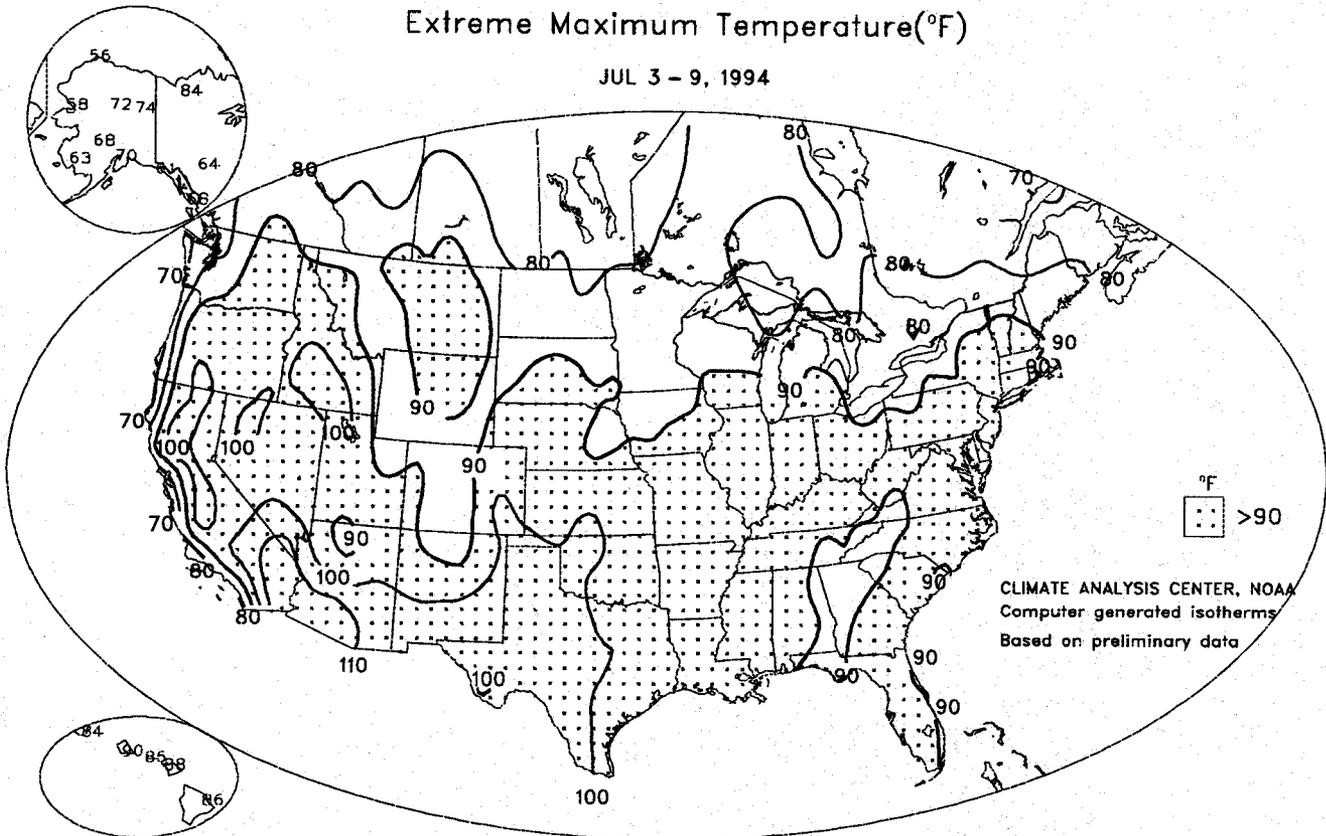
### Departure of Average Temperature from Normal(°F)

JUL 3 - 9, 1994



### Extreme Maximum Temperature(°F)

JUL 3 - 9, 1994



# National Weather Data for Selected Cities

Weather Data for the Week Ending July 9, 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 Jun 1	PCT. NORMAL SINCE Jun 1	AVERAGE	MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.	
																	90 AND ABOVE	82 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	87	71	90	70	79	0	.4	-.7	.3	5.8	112	31.0	100	94	65	1	0	3	0	
MOBILE	88	73	93	71	81	-1	2.7	1.2	1.8	8.0	116	30.3	90	97	64	3	0	5	2	
MONTGOMERY	87	73	93	69	80	0	4.1	2.9	1.8	10.9	163	31.7	101	95	70	2	0	6	2	
AK ANCHORAGE	63	50	70	44	57	-1	.2	-.1	.1	.7	46	4.0	77	84	54	0	0	2	0	
BARROW	46	34	56	32	40	1	.1	-.1	.1	.3	56	.8	67	95	71	0	2	4	0	
FAIRBANKS	70	50	76	47	60	-3	.1	-.3	.1	2.5	133	3.7	91	88	44	0	0	2	0	
JUNEAU	57	49	63	48	53	-2	1.1	.3	.7	2.3	53	22.2	101	96	74	0	0	4	1	
KODIAK	61	45	66	42	53	0	.3	-.5	.2	3.8	65	46.3	141	91	66	0	0	2	0	
NOOME	49	41	53	35	45	-5	.4	-.0	.2	.6	33	3.4	68	93	75	0	0	4	0	
AZ PHOENIX	108	80	112	75	94	1	.0	-.2	.0	.0	0	2.5	87	31	11	7	0	0	0	
PRESCOTT	92	58	96	53	75	3	.0	-.6	.0	.6	47	4.0	54	35	9	5	0	0	0	
TUCSON	107	73	111	67	90	4	.0	-.4	.0	.3	32	3.0	85	40	9	7	0	0	0	
YUMA	111	79	113	75	95	2	.0	-.0	.0	.0	0	.7	67	32	11	7	0	0	0	
AR FORT SMITH	93	73	97	70	83	2	3.6	2.9	2.9	7.7	179	29.8	136	89	47	6	0	2	2	
LITTLE ROCK	91	73	94	68	82	1	.3	-.5	.2	6.5	125	31.1	118	90	56	5	0	4	0	
CA BAKERSFIELD	100	69	104	65	84	1	.0	-.0	.0	.0	0	4.2	110	54	11	7	0	0	0	
SURREA	62	51	64	49	56	0	.0	-.0	.0	.7	131	19.4	93	89	66	0	0	0	0	
FRESNO	99	67	106	64	83	2	.0	-.0	.0	.0	0	6.3	91	63	12	7	0	0	0	
LOS ANGELES	72	62	74	61	67	-1	.0	-.0	.0	.0	0	6.2	81	88	71	0	0	0	0	
REDDING	101	67	106	62	84	3	.0	-.0	.0	.0	0	15.0	79	63	16	7	0	0	0	
SACRAMENTO	93	56	99	54	75	0	.0	-.0	.0	.0	0	6.7	63	90	32	5	0	0	0	
SAN DIEGO	73	65	76	63	69	-1	.0	-.0	.0	.1	67	8.2	132	83	66	0	0	0	0	
SAN FRANCISCO	70	52	73	51	61	-1	.1	-.0	.0	.0	25	10.7	87	91	58	0	0	0	0	
CO DENVER	91	55	97	46	73	0	.0	-.4	.1	1.0	44	6.4	73	81	16	5	0	1	0	
GRAND JUNCTION	93	62	98	54	78	-1	.0	-.2	.0	.0	4	3.1	61	71	9	6	0	0	0	
FURELO	94	53	100	44	74	-3	.0	-.4	.0	2.6	146	8.6	162	81	15	5	0	0	0	
CT BRIDGEPORT	89	71	95	65	80	7	.3	-.6	.2	1.8	39	22.1	99	92	54	4	0	2	0	
HARTFORD	90	67	97	57	79	6	.5	-.2	.3	4.4	93	25.9	113	94	52	4	0	2	0	
DC WASHINGTON	94	74	98	71	84	5	.4	-.4	.4	2.7	60	22.8	117	91	51	7	0	2	0	
FL PANAMA CITY	84	75	88	73	79	-1	2.5	.5	2.1	10.6	115	24.8	76	97	76	0	0	4	1	
DAYTONA BEACH	88	72	89	69	80	-1	2.5	1.2	2.2	9.8	130	29.7	135	100	65	0	0	3	1	
JACKSONVILLE	91	73	92	71	82	1	2.0	.0	1.2	16.2	226	30.5	128	99	61	6	0	5	1	
KEY WEST	88	79	90	74	84	-1	.3	-.5	.1	.7	10	11.2	66	79	66	1	0	4	0	
MIAMI	88	78	89	75	83	1	.5	-.9	.3	5.8	52	23.9	89	84	61	0	0	3	0	
ORLANDO	89	72	91	70	80	-2	3.5	1.8	2.2	16.4	173	31.1	133	94	60	4	0	3	2	
TALLAHASSEE	86	72	92	69	79	-2	4.7	2.8	2.8	13.8	146	44.4	129	92	63	2	0	5	2	
TAMPA	90	73	93	71	81	0	2.0	.6	1.4	8.9	122	17.2	88	97	62	4	0	4	1	
WEST PALM BEACH	88	75	89	71	82	0	1.1	-.3	.8	11.6	117	35.5	128	87	62	0	0	3	1	
GA ATLANTA	82	72	87	69	77	-2	9.1	8.0	3.9	11.5	231	32.0	111	96	70	0	0	7	3	
ALBUQUA	88	70	92	67	79	-1	.7	-.3	.6	6.5	122	23.2	92	99	66	2	0	2	0	
BOCON	89	74	94	71	82	0	1.2	-.2	.2	9.3	126	26.8	107	97	69	1	0	3	1	
SAVANNAH	84	71	86	69	77	2	1.4	-.6	1.0	15.9	181	84.2	124	91	71	0	0	4	1	
HI HILLO	89	76	90	73	82	2	.0	-.1	.0	.2	34	11.4	101	76	51	3	0	0	0	
HONOLULU	86	71	88	68	79	0	.5	-.5	.4	.9	247	8.5	66	80	59	0	0	2	0	
KARULUI	83	74	84	72	79	0	.2	-.3	.2	2.0	86	19.0	85	85	72	0	0	3	0	
ID BOISE	85	53	101	45	69	-3	.1	-.0	.1	.3	36	5.0	71	66	20	2	0	2	0	
LEWISTON	83	55	97	51	69	-4	.2	-.0	.2	1.3	85	5.9	82	68	23	2	0	1	0	
POCATELLO	83	46	99	42	64	-5	.2	-.0	.2	.3	20	4.3	61	87	19	1	0	1	0	
IL CHICAGO	86	68	95	56	77	5	.5	-.3	.2	6.6	137	15.1	87	89	57	3	0	5	0	
MOLINE	85	67	92	57	76	1	1.8	-.7	1.6	7.1	125	15.8	80	92	60	3	0	2	1	
PRORIA	88	69	95	60	78	3	.1	-.9	.1	2.3	44	11.2	60	90	58	4	0	2	0	
QUINCY	85	68	91	58	76	0	.5	-.6	.3	2.8	54	12.2	63	85	56	3	0	2	0	
ROCKFORD	84	66	91	55	75	2	1.2	-.2	.9	6.8	118	16.0	89	98	70	1	0	4	1	
SPRINGFIELD	88	69	95	59	79	2	.5	-.3	.4	6.8	153	22.4	122	89	57	4	0	4	0	
IN EVANSVILLE	92	72	98	68	82	4	1.8	-.7	1.8	5.2	103	19.4	77	88	54	4	0	1	1	
FORT WAYNE	87	66	93	59	76	3	2.3	1.5	1.4	8.8	126	18.3	101	95	59	2	0	3	2	
INDIANAPOLIS	88	70	93	63	79	4	.1	-.9	.0	7.6	159	20.2	96	91	57	3	0	3	0	
SOUTH BEND	85	67	91	61	76	4	2.4	1.5	1.0	7.5	142	15.9	81	91	64	1	0	5	2	
IA DES MOINES	83	65	90	58	74	-1	.4	-.5	.4	6.9	120	14.5	82	92	60	2	0	3	0	
SIOUX CITY	79	62	87	53	70	-5	2.6	1.9	1.1	6.2	133	11.3	81	93	67	0	0	5	2	
WATERLOO	82	64	90	55	73	0	2.2	1.1	1.3	7.8	132	14.9	85	94	64	2	0	4	2	
KS CONCORDIA	86	64	92	55	75	-4	1.1	-.2	.5	6.8	122	11.0	70	90	53	3	0	3	1	
DODGE CITY	91	63	96	51	77	-3	1.1	-.4	1.1	3.3	82	7.0	59	86	38	5	0	3	1	
GOODLAND	88	56	92	48	72	-3	.5	-.2	.2	3.0	73	7.9	73	93	37	4	0	3	0	
TOPEKA	88	68	93	59	78	0	.2	-.7	.1	3.8	57	10.5	56	87	50	3	0	3	0	
WICHITA	90	68	96	61	79	-1	1.4	-.5	1.3	4.8	71	9.7	52	86	47	4	0	3	1	
KY BOWLING GREEN	88	71	93	69	80	2	.5	-.6	.5	6.4	115	34.1	122	97	61	4	0	1	0	
LEXINGTON	90	71	94	68	81	5	.5	-.6	.5	4.4	86	30.1	126	90	53	5	0	2	0	
LOUISVILLE	93	72	98	68	82	5	1.4	-.4	1.3	3.3	70	21.7	89	90	52	6	0	4	1	
LA BATON ROUGE	89	74	93	72	81	-1	1.6	-.2	.7	6.6	107	34.6	109	98	67	3	0	3	2	
LAKE CHARLES	90	76	93	74	83	1	1.0	-.1	.4	5.8	90	19.1	71	98	63	5	0	4	0	
NEW ORLEANS	90	74	94	72	82	0	2.5	1.1	1.5	11.8	155	26.9	82	95	63	4	0	5	1	
SHERBOURNE	94	73	96	71	84	2	.0	-.9	.0	2.8	53	24.7	90	96	50	6	0	1	0	

Based on 1961-90 normals.

Weather Data for the Week Ending July 9, 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	TEMP. °F		PRECIP.	
																80 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME CARIBOU	71	54	76	46	63	-3	.8	-.1	.4	7.0	175	22.5	138	84	59	0	0	0	0
PORTLAND	78	60	88	55	69	1	.2	-.2	.3	1.5	34	22.7	100	53	58	0	0	4	0
MD BALTIMORE	93	73	98	70	83	6	.5	-.5	3.3	71	26.2	124	95	54	0	0	2	0	
SALISBURY	92	72	96	70	82	6	.1	-.2	1.1	24	25.3	102	95	51	0	0	2	0	
MA BOSTON	81	66	90	64	74	1	.1	-.2	1.1	24	24.2	112	88	61	1	1	1	0	
CHATHAM	76	61	81	55	69	3	.0	-.7	1.3	46	27.7	119	97	76	0	0	0	0	
MI ALPENA	79	57	85	43	68	1	2.6	2.0	1.3	5.9	151	14.4	103	98	65	0	0	2	0
DETROIT	87	68	95	57	77	5	.7	-.0	4.4	4.7	103	16.4	100	89	58	2	0	3	0
FLINT	84	63	92	52	74	4	1.6	1.0	2.8	8.2	204	18.3	127	93	64	1	1	5	2
GRAND RAPIDS	84	64	90	55	74	3	6.0	5.2	2.6	13.1	283	24.9	146	93	66	0	0	6	3
HOUGHTON LAKE	83	61	90	42	72	2	2.6	2.1	1.1	4.4	115	13.4	101	91	61	1	1	5	2
LANSING	84	64	91	53	74	4	2.1	1.5	1.1	7.6	185	17.3	117	96	61	1	1	3	2
MARQUETTE	72	56	80	42	64	4	.6	-.0	.3	3.3	76	12.3	74	97	54	0	0	5	5
MUSKOGON	83	64	88	55	74	4	1.9	1.4	.9	6.9	235	17.2	117	96	65	0	0	4	2
SAULT ST. MARIE	75	54	83	42	64	3	1.2	.6	.3	4.1	104	14.1	91	98	50	0	0	4	1
NH ALEXANDRIA	77	62	88	57	69	-1	1.4	-.7	1.2	2.9	56	9.0	68	95	65	0	0	3	1
DULUTH	71	55	79	50	63	-2	.5	-.3	.3	5.1	104	14.7	104	92	57	0	0	3	0
INT'L FALLS	74	56	83	49	65	-1	2.1	1.3	1.2	6.7	132	11.2	96	94	61	0	0	4	2
MINNEAPOLIS	81	64	87	58	72	2	2.6	1.8	1.6	5.7	112	14.0	95	90	58	0	0	4	2
ROCHESTER	78	61	85	50	69	-1	.9	-.1	.3	3.7	76	14.2	99	96	68	0	0	4	2
MS GREENWOOD	94	74	97	73	84	3	.1	-.9	.1	5.2	92	24.6	79	94	51	7	7	1	0
JACKSON	91	72	93	70	82	1	.1	-.8	.1	7.5	173	34.1	108	94	56	5	5	1	0
MERIDIAN	92	73	94	72	83	3	1.6	.5	.7	9.3	183	39.7	123	94	56	6	6	5	1
MO CAPE GIRARDEAU	92	73	97	68	82	3	.1	-.7	.1	3.5	78	22.3	88	94	51	5	5	2	0
COLUMBIA	88	68	94	60	78	2	.9	-.0	.5	3.8	75	22.1	111	91	53	3	3	3	0
KANSAS CITY	87	68	93	59	78	0	.1	-.9	.1	4.6	75	15.2	81	88	52	3	3	2	0
SANIT LOUIS	91	74	96	66	83	3	.9	-.1	.8	3.0	62	19.9	100	84	48	4	4	2	1
SPRINGFIELD	91	69	97	61	80	3	.7	-.0	.6	4.0	65	25.3	113	88	44	4	4	2	1
MT BILLINGS	80	53	86	50	67	-4	1.8	1.5	.9	3.8	164	8.6	92	79	34	1	1	4	2
GLASGOW	79	52	96	47	65	-4	.2	-.2	.1	2.7	102	6.5	105	92	36	1	0	2	0
GREAT FALLS	77	50	88	46	64	-3	.6	-.3	.3	2.2	77	7.1	76	89	29	0	0	2	0
HAVRE	82	50	95	44	64	-3	.2	-.3	.2	3.6	167	4.6	72	88	24	2	2	1	0
HELENA	78	49	90	45	64	-4	.4	-.2	.3	1.3	57	4.9	72	91	30	1	1	0	0
KALISPELL	79	44	91	38	61	-1	.0	-.3	.0	2.2	84	7.1	77	94	27	1	0	3	0
MILES CITY	83	56	99	50	69	-4	.2	-.2	.2	1.2	37	5.3	62	87	29	1	0	2	0
MISSOULA	80	45	93	35	63	-3	.3	-.0	.2	1.7	82	7.8	100	95	28	1	0	2	0
NE GRAND ISLAND	83	60	89	53	71	-5	1.9	1.2	1.0	6.6	138	12.3	87	92	60	0	0	3	1
LINCOLN	84	64	90	53	74	-4	.9	-.1	.4	5.9	122	10.4	70	90	57	1	0	5	2
NORFOLK	81	61	88	52	71	-4	3.7	2.9	2.0	10.1	182	14.8	101	92	59	0	0	5	2
NORTH PLATTE	85	56	93	50	71	-2	1.2	.5	.5	6.1	141	9.7	82	94	48	2	0	3	1
OMAHA	83	64	90	55	74	-3	1.7	.9	.5	12.0	244	17.4	111	92	63	1	0	5	2
SCOTTSBLUFF	85	55	93	47	70	-4	1.1	-.6	.6	3.9	118	9.1	94	92	36	2	0	2	0
VALMIRE	83	58	97	47	71	-4	.7	-.1	.4	5.1	114	9.1	73	82	40	2	2	2	0
NV RLY	87	40	92	32	64	-3	.0	-.2	.0	T	0	5.4	97	83	12	1	1	0	0
LAS VEGAS	104	77	109	75	91	0	.0	-.1	.0	.0	0	.7	33	24	8	7	7	0	0
RENO	91	56	96	51	74	3	.0	-.1	.0	.0	0	3.1	70	78	16	4	0	0	0
WINNEVOCCA	90	50	100	46	70	-1	.0	-.1	.0	.0	0	4.4	91	90	10	3	0	0	0
NE CONCORD	86	60	92	47	73	4	1.4	.7	1.0	3.4	82	19.4	108	95	45	3	0	3	1
NJ ATLANTIC CITY	90	69	96	64	80	6	.9	-.1	.9	1.6	43	24.0	116	95	58	4	0	1	1
NH ALBUQUERQUE	96	67	98	63	81	3	T	-.3	T	.3	30	3.1	93	31	10	7	0	0	0
CLOVIS	96	68	103	62	82	5	.6	-.0	.6	1.5	42	6.0	77	66	20	5	0	1	1
ROSWELL	100	69	106	62	85	4	T	-.4	T	.1	5	5.0	107	51	16	7	0	0	0
NY ALBANY	87	64	93	53	76	4	1.5	.8	1.4	4.8	105	20.8	112	92	50	4	0	4	1
SINGAMTON	83	63	88	55	73	4	1.2	.4	.8	7.9	169	23.8	127	93	60	0	0	3	1
BUFFALO	86	67	91	58	76	6	.8	.1	.5	5.1	115	19.6	108	87	54	1	0	4	1
NEW YORK	91	73	99	68	82	7	1.1	.2	1.1	3.7	77	24.3	111	84	49	4	0	1	1
ROCHESTER	86	64	93	50	75	5	.1	-.5	.1	2.5	66	15.2	97	92	51	2	0	2	0
SYRACUSE	85	65	91	53	75	5	1.5	.6	.7	4.1	84	22.9	122	94	58	1	0	4	1
NC ASHEVILLE	82	66	86	63	74	1	.4	-.6	.3	6.3	102	29.3	101	98	66	0	0	3	0
CHARLOTTE	89	72	91	71	81	2	.1	-.7	.1	5.4	120	20.3	88	91	55	3	0	2	0
GREENSBORO	88	69	90	67	79	3	T	-1.0	T	4.0	78	18.4	83	96	56	1	0	1	0
HATTERAS	87	74	89	72	81	3	.1	-1.0	.1	2.6	49	26.0	98	93	69	0	0	1	0
NEW BERN	94	73	96	69	83	4	.7	-.8	.7	1.9	26	18.9	68	97	50	7	0	1	1
RALIGH	90	71	93	68	81	3	.5	-.4	.5	2.7	56	18.8	84	94	56	6	0	1	1
WILMINGTON	90	72	93	69	81	2	.4	-1.1	.4	3.3	48	25.3	93	99	59	5	0	2	0
ND BISMARCK	76	54	85	42	65	-4	1.4	.8	.5	4.7	138	8.6	89	95	61	0	0	5	1
FARGO	74	58	82	53	66	-4	4.2	3.5	2.1	6.7	184	12.4	122	95	67	0	0	4	3
GRAND FORKS	74	57	81	52	65	-3	4.4	3.7	1.8	9.9	269	13.9	152	95	63	0	0	5	4
WILLISTON	78	52	85	44	65	-5	.3	-.3	.1	4.2	143	10.4	132	95	38	0	0	2	0
OK AKRON-CANTON	85	67	91	61	76	5	1.2	.3	1.0	4.5	103	22.5	119	98	59	1	0	3	1
CINCINNATI	89	70	95	66	79	5	1.2	.2	.9	5.3	105	20.9	93	91	54	2	0	3	1
CLEVELAND	86	68	92	61	77	6	.7	-.1	.4	4.1	87	14.2	77	93	57	2	0	4	0
COLUMBUS	89	70	94	65	79	7	1.5	-.6	1.1	5.3	109	18.0	91	87	51	4	0	3	1
DAYTON	88	69	94	65	79	5	.5	-.3	.2	5.2	106	20.4	103	90	56	4	0	4	0

Based on 1961-90 normals.

Weather Data for the Week Ending July 9, 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	.01 INCH OR MORE		.50 INCH OR MORE	
																		90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
TOLEDO	86	66	92	60	76	4	.7	-.1	.3	4.3	92	17.1	102	92	64	1	0	4	0		
YOUNGSTOWN	86	65	92	58	76	6	1.3	-.3	1.1	3.8	73	19.8	104	94	56	2	2	3	0		
OK OKLAHOMA CITY	94	70	99	67	82	1	T	-.7	T	1.7	33	13.7	74	84	39	5	0	0	0		
TULSA	91	72	95	66	82	-1	.2	-.4	.2	2.9	53	18.5	85	84	44	5	0	1	0		
OR ASTORIA	64	52	66	48	58	-1	1.1	-.2	1	3.0	106	34.5	98	95	70	0	0	2	0		
BURNS	82	44	94	35	63	-2	0.0	-.1	0.0	.5	51	2.9	55	64	17	2	0	0	0		
MEDFORD	92	53	102	47	73	1	0.0	-.1	0.0	1.1	18	4.9	53	82	18	4	0	0	0		
PENDLETON	82	54	97	48	68	-3	.4	-.3	.4	1.2	155	8.0	120	76	24	3	0	1	0		
PORTLAND	79	54	90	51	66	4	T	T	T	1.7	102	14.5	77	85	35	1	1	1	0		
SALEM	81	49	93	44	65	0	T	-.2	T	1.3	75	16.0	78	90	33	2	0	0	0		
PA ALLENTOWN	80	70	94	67	80	6	.5	-.4	.4	6.0	122	26.2	119	95	55	4	0	0	0		
ERIE	84	70	91	63	77	3	1.3	-.5	1.3	6.1	119	19.9	103	88	58	1	1	1	1		
HARRISBURG	93	73	98	69	83	8	1.5	-.7	1.3	3.3	67	24.1	112	97	50	6	5	6	0		
PHILADELPHIA	94	74	99	70	84	10	.6	-.5	.6	2.3	42	22.9	96	87	46	0	0	1	0		
PITTSBURGH	88	69	93	64	78	7	.5	-.3	.3	3.9	81	21.2	107	89	56	3	0	3	0		
SCRANTON	87	65	91	59	76	5	.2	-.7	1.1	3.7	72	19.5	105	95	57	4	0	0	0		
RI PROVIDENCE	85	67	89	58	76	4	.1	-.6	1.1	2.8	67	22.8	96	96	62	2	0	1	0		
SC CHARLESTON	88	74	91	73	81	0	2.0	-.5	.6	13.7	164	29.5	113	95	65	0	0	0	0		
COLOMBIA	90	72	93	70	81	1	.4	-.8	1.1	11.6	184	26.6	100	93	53	0	0	3	0		
FLORENCE	91	73	93	70	82	2	1.1	-.1	1.1	4.9	83	20.1	87	97	56	5	0	1	1		
GREENVILLE	85	69	88	68	77	0	1.4	-.4	1.1	11.6	187	27.8	98	95	62	0	0	4	0		
SD ABERDEEN	77	59	90	52	68	-3	3.5	2.7	1.6	4.6	106	8.8	78	94	59	1	0	5	3		
BURON	79	59	89	50	69	-4	1.5	-.8	1.1	6.8	162	13.2	110	93	62	0	0	4	1		
RAPID CITY	80	56	89	47	68	-3	.3	-.2	.3	1.0	26	5.2	50	84	40	0	0	2	0		
SIOUX FALLS	80	61	92	53	71	-3	.8	-.1	.6	6.8	161	13.2	105	95	59	2	0	3	0		
TN CHATTANOOGA	85	71	88	69	78	0	1.7	-.6	.3	8.9	182	42.8	146	95	64	0	0	5	1		
KNOXVILLE	89	70	92	68	79	3	.4	-.7	.3	6.4	119	45.0	170	91	54	4	0	2	1		
MEMPHIS	91	76	97	72	84	2	1.3	-.4	1.0	6.3	136	30.1	105	86	55	4	0	2	0		
NASHVILLE	89	72	94	71	80	2	T	-.9	T	8.1	172	35.7	136	86	56	4	0	0	0		
TX ABILENE	97	73	104	68	85	2	.4	-.1	.4	.4	11	14.8	124	88	36	6	0	2	0		
AMARILLO	94	65	103	54	79	1	1.3	-.7	1.3	2.6	58	7.5	74	68	26	4	0	1	0		
AUSTIN	99	77	101	74	88	4	.3	-.3	.3	1.0	23	11.6	66	88	35	7	0	1	0		
BEAUMONT	91	75	93	73	83	1	2.8	1.5	1.2	11.2	155	37.4	134	97	64	5	0	3	3		
BROWNSVILLE	93	78	94	76	86	1	T	-.5	T	3.3	100	9.6	87	90	50	7	0	0	0		
CORPUS CHRISTI	93	77	94	73	85	1	.2	-.3	.2	3.7	89	15.3	111	96	53	7	0	1	0		
DEL RIO	102	78	106	76	90	6	0	-.4	0	.1	1	9.6	77	82	44	7	0	0	0		
EL PASO	103	79	108	71	91	9	T	-.3	T	.7	65	2.8	104	34	12	7	0	1	0		
FORT WORTH	94	74	99	69	84	1	2.1	1.6	1.7	4.2	105	18.7	93	91	49	6	0	3	1		
GALVESTON	90	80	91	75	85	2	.2	-.7	.2	4.3	77	13.5	70	90	68	5	0	2	0		
HOUSTON	94	76	97	73	85	3	.7	-.4	1.4	4.1	54	18.5	69	96	54	7	0	2	0		
LUBBOCK	98	70	105	62	84	4	1.4	-.9	1.4	1.9	54	9.7	111	88	27	6	0	2	1		
MIDLAND	102	73	108	68	88	7	T	-.0	.4	1.4	75	3.8	60	88	21	7	0	2	0		
SAN ANGELO	102	76	108	74	89	7	T	-.3	T	1.0	39	7.4	73	82	26	7	0	0	0		
SAN ANTONIO	99	78	101	76	88	4	.5	-.1	.5	2.2	48	18.7	114	84	34	7	0	1	1		
VICTORIA	94	76	95	74	85	2	T	-1.0	T	5.5	93	19.0	88	95	49	7	0	0	0		
WACO	97	76	100	74	87	2	T	-.5	T	2.0	51	18.4	103	87	39	7	0	1	0		
WICHITA FALLS	94	71	100	64	83	-1	.1	-.4	1.1	.1	2	6.3	36	88	45	5	0	1	0		
UT CEDAR CITY	90	56	95	49	73	0	0	-.2	0	.1	15	4.0	72	30	9	3	0	0	0		
SALT LAKE CITY	89	57	102	50	73	-3	T	-.2	T	T	2	7.7	82	82	22	3	0	1	0		
VT BURLINGTON	86	63	93	54	75	5	1.6	-.8	.9	6.0	133	20.3	126	92	50	2	0	2	2		
VA NORFOLK	94	76	99	72	85	7	1.8	-.7	1.8	6.0	114	28.1	122	88	49	5	0	1	1		
RICHMOND	95	72	99	70	84	6	.2	-.8	1	2.0	39	22.6	104	84	14	6	0	3	0		
ROANOKE	90	68	93	66	79	4	1.0	-.1	1.0	3.2	76	26.1	126	92	49	4	0	1	1		
WA QUILLAYUTE	64	49	66	44	57	-1	T	-.6	T	5.5	142	54.8	99	95	65	0	0	1	0		
SEATTLE-TACOMA	75	54	83	52	65	0	.1	-.1	1	1.5	86	15.4	82	94	44	0	0	1	0		
SPOKANE	80	51	92	44	66	-2	0	-.2	0	.9	60	6.2	68	92	26	1	0	0	0		
YAKIMA	86	52	96	41	69	0	.1	0	1	.7	112	4.3	101	92	25	3	0	1	0		
WV BECKLEY	86	65	89	61	76	7	.4	-.7	.4	4.1	79	28.5	130	83	52	0	0	1	0		
CHARLESTON	91	69	95	66	80	5	2.3	1.2	1.4	6.7	135	34.2	157	94	54	4	0	4	2		
HUNTINGTON	91	71	96	67	81	7	T	-1.1	T	2.0	42	27.3	123	84	50	4	0	1	0		
PARKERSBURG	88	68	94	64	78	4	2.8	1.8	1.7	6.0	119	30.6	138	99	56	3	0	2	2		
WI GREEN BAY	82	63	88	54	73	3	3.4	2.7	2.5	6.3	146	17.6	128	94	67	0	0	6	1		
LACROSSE	81	63	91	53	72	-1	..	..	..	..	..	..	..	..	..	..	..	..	..		
MADISON	84	63	92	51	73	2	2.7	1.8	1.4	8.3	171	16.9	108	91	63	2	0	6	2		
MILWAUKEE	84	66	95	57	75	5	1.1	-.3	.8	4.2	99	14.1	87	90	65	1	0	4	1		
WAUSAU	79	60	89	49	69	0	3.1	2.2	1.0	4.4	87	11.6	76	93	57	0	0	6	2		
WY CASPER	86	52	95	45	69	-1	1.2	-.9	.9	1.5	78	4.4	57	88	22	4	0	2	1		
CHEYENNE	83	51	88	42	67	-1	T	-.5	T	1.5	55	7.1	86	90	25	0	0	1	0		
LANDER	83	52	94	47	68	-2	.1	-.1	1	.4	23	4.8	57	59	16	2	0	3	0		
SHERIDAN	81	52	92	46	67	-2	1.3	1.0	.8	3.0	114	9.1	100	81	33	1	0	3	1		

Based on 1961-90 normals.

## CUMULATIVE GROWING DEGREE DAYS (CORN\*) March 1 - July 9, 1994

STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL
AL ANNISTON	2433	+ 171	AL ANNISTON	2433	+ 171	AL ANNISTON	2433	+ 171
AL BIRMINGHAM	2438	+ 139	AL BIRMINGHAM	2438	+ 139	AL BIRMINGHAM	2438	+ 139
AL MOBILE	2821	+ 67	AL MOBILE	2821	+ 67	AL MOBILE	2821	+ 67
AL MONTGOMERY	2713	+ 293	AL MONTGOMERY	2713	+ 293	AL MONTGOMERY	2713	+ 293
AL MUSCLE SHOALS	2340	+ 170	AL MUSCLE SHOALS	2340	+ 170	AL MUSCLE SHOALS	2340	+ 170
AL OZARK	2705	+ 123	AL OZARK	2705	+ 123	AL OZARK	2705	+ 123
AL TUSCALOOSA	2545	+ 128	AL TUSCALOOSA	2545	+ 128	AL TUSCALOOSA	2545	+ 128
AL ...	...	...	AL ...	...	...	AL ...	...	...
AL FLAGSTAFF	2410	+ 263	AL FLAGSTAFF	2410	+ 263	AL FLAGSTAFF	2410	+ 263
AL DOUGLAS	3151	+ 401	AL DOUGLAS	3151	+ 401	AL DOUGLAS	3151	+ 401
AL PHOENIX	2844	+ 326	AL PHOENIX	2844	+ 326	AL PHOENIX	2844	+ 326
AL TUCSON	3390	+ 488	AL TUCSON	3390	+ 488	AL TUCSON	3390	+ 488
AL YUMA	1768	+ 345	AL YUMA	1768	+ 345	AL YUMA	1768	+ 345
AR EL DORADO	2543	+ 144	AR EL DORADO	2543	+ 144	AR EL DORADO	2543	+ 144
AR FAYETTEVILLE	2118	+ 207	AR FAYETTEVILLE	2118	+ 207	AR FAYETTEVILLE	2118	+ 207
AR FORT SMITH	2481	+ 267	AR FORT SMITH	2481	+ 267	AR FORT SMITH	2481	+ 267
AR JONESBORO	2311	+ 101	AR JONESBORO	2311	+ 101	AR JONESBORO	2311	+ 101
AR LITTLE ROCK	2473	+ 185	AR LITTLE ROCK	2473	+ 185	AR LITTLE ROCK	2473	+ 185
AR TEXARKANA	2601	+ 132	AR TEXARKANA	2601	+ 132	AR TEXARKANA	2601	+ 132
CA BAKERSFIELD	3355	+ 108	CA BAKERSFIELD	3355	+ 108	CA BAKERSFIELD	3355	+ 108
CA SIUTE CANYON	845	+ 87	CA SIUTE CANYON	845	+ 87	CA SIUTE CANYON	845	+ 87
CA DAGGETT	2723	+ 307	CA DAGGETT	2723	+ 307	CA DAGGETT	2723	+ 307
CA FURBER	754	+ 328	CA FURBER	754	+ 328	CA FURBER	754	+ 328
CA FAIRFIELD	1865	+ 229	CA FAIRFIELD	1865	+ 229	CA FAIRFIELD	1865	+ 229
CA FRESNO	2288	+ 305	CA FRESNO	2288	+ 305	CA FRESNO	2288	+ 305
CA MARYSVILLE	2150	+ 225	CA MARYSVILLE	2150	+ 225	CA MARYSVILLE	2150	+ 225
CA MT SHASTA	1141	+ 170	CA MT SHASTA	1141	+ 170	CA MT SHASTA	1141	+ 170
CA PASO ROBLES	1908	+ 265	CA PASO ROBLES	1908	+ 265	CA PASO ROBLES	1908	+ 265
CA RED BLUFF	2064	+ 107	CA RED BLUFF	2064	+ 107	CA RED BLUFF	2064	+ 107
CA RIVERSIDE	1969	+ 54	CA RIVERSIDE	1969	+ 54	CA RIVERSIDE	1969	+ 54
CA SANTA ANA	2235	+ 428	CA SANTA ANA	2235	+ 428	CA SANTA ANA	2235	+ 428
CA SAN DIEGO	1782	+ 116	CA SAN DIEGO	1782	+ 116	CA SAN DIEGO	1782	+ 116
CA SACRAMENTO	1926	+ 182	CA SACRAMENTO	1926	+ 182	CA SACRAMENTO	1926	+ 182
CA THERRMAL	2913	+ 60	CA THERRMAL	2913	+ 60	CA THERRMAL	2913	+ 60
CO ALAMOSA	1086	+ 93	CO ALAMOSA	1086	+ 93	CO ALAMOSA	1086	+ 93
CO DENVER	1698	+ 417	CO DENVER	1698	+ 417	CO DENVER	1698	+ 417
CO EAGLE	1151	+ 113	CO EAGLE	1151	+ 113	CO EAGLE	1151	+ 113
CO GRAND JUNCTION	1902	+ 279	CO GRAND JUNCTION	1902	+ 279	CO GRAND JUNCTION	1902	+ 279
CO LA JUNTA	1922	+ 222	CO LA JUNTA	1922	+ 222	CO LA JUNTA	1922	+ 222
CO DOVER	1670	- 8	CO DOVER	1670	- 8	CO DOVER	1670	- 8
CO WILMINGTON	1757	+ 259	CO WILMINGTON	1757	+ 259	CO WILMINGTON	1757	+ 259
FL DAYTONA BEACH	3082	+ 198	FL DAYTONA BEACH	3082	+ 198	FL DAYTONA BEACH	3082	+ 198
FL FORT MYERS	3495	+ 304	FL FORT MYERS	3495	+ 304	FL FORT MYERS	3495	+ 304
FL GAINESVILLE	2902	+ 22	FL GAINESVILLE	2902	+ 22	FL GAINESVILLE	2902	+ 22
FL JACKSONVILLE	2896	+ 134	FL JACKSONVILLE	2896	+ 134	FL JACKSONVILLE	2896	+ 134
FL FORT LAUDERDALE	3799	+ 467	FL FORT LAUDERDALE	3799	+ 467	FL FORT LAUDERDALE	3799	+ 467
FL MIAMI	3755	+ 303	FL MIAMI	3755	+ 303	FL MIAMI	3755	+ 303
FL MILTON	2829	+ 144	FL MILTON	2829	+ 144	FL MILTON	2829	+ 144
FL PENSACOLA	2908	+ 126	FL PENSACOLA	2908	+ 126	FL PENSACOLA	2908	+ 126
FL ST PETERSBURG	3389	+ 125	FL ST PETERSBURG	3389	+ 125	FL ST PETERSBURG	3389	+ 125
FL TALLAHASSEE	2861	+ 163	FL TALLAHASSEE	2861	+ 163	FL TALLAHASSEE	2861	+ 163
FL TAMPA	3346	+ 241	FL TAMPA	3346	+ 241	FL TAMPA	3346	+ 241
FL VERO BEACH	3333	+ 268	FL VERO BEACH	3333	+ 268	FL VERO BEACH	3333	+ 268
FL W. PALM BEACH	3536	+ 222	FL W. PALM BEACH	3536	+ 222	FL W. PALM BEACH	3536	+ 222
GA ATHENS	2398	+ 218	GA ATHENS	2398	+ 218	GA ATHENS	2398	+ 218
GA AUGUSTA	2519	+ 170	GA AUGUSTA	2519	+ 170	GA AUGUSTA	2519	+ 170
GA BRUNSWICK	2893	+ 203	GA BRUNSWICK	2893	+ 203	GA BRUNSWICK	2893	+ 203
GA COLUMBUS/METRO	2670	+ 200	GA COLUMBUS/METRO	2670	+ 200	GA COLUMBUS/METRO	2670	+ 200
GA MACON	2615	+ 127	GA MACON	2615	+ 127	GA MACON	2615	+ 127
GA SAVANNAH	2856	+ 277	GA SAVANNAH	2856	+ 277	GA SAVANNAH	2856	+ 277
ID BOISE	1510	+ 310	ID BOISE	1510	+ 310	ID BOISE	1510	+ 310
ID BURLEY	1445	+ 402	ID BURLEY	1445	+ 402	ID BURLEY	1445	+ 402
ID IDAHO FALLS	1245	+ 330	ID IDAHO FALLS	1245	+ 330	ID IDAHO FALLS	1245	+ 330
ID POCATELLO	1316	+ 332	ID POCATELLO	1316	+ 332	ID POCATELLO	1316	+ 332
IL BELLEVILLE	1906	+ 105	IL BELLEVILLE	1906	+ 105	IL BELLEVILLE	1906	+ 105
IL CHICAGO/MIDWAY	1484	+ 122	IL CHICAGO/MIDWAY	1484	+ 122	IL CHICAGO/MIDWAY	1484	+ 122
IL DECATUR	1615	- 48	IL DECATUR	1615	- 48	IL DECATUR	1615	- 48
IL PEORIA	1670	+ 211	IL PEORIA	1670	+ 211	IL PEORIA	1670	+ 211
IL ROCKFORD	1501	+ 232	IL ROCKFORD	1501	+ 232	IL ROCKFORD	1501	+ 232
IL SPRINGFIELD	1746	+ 124	IL SPRINGFIELD	1746	+ 124	IL SPRINGFIELD	1746	+ 124
IL QUINCY	1644	+ 66	IL QUINCY	1644	+ 66	IL QUINCY	1644	+ 66
IN INDIANAPOLIS	1660	+ 110	IN INDIANAPOLIS	1660	+ 110	IN INDIANAPOLIS	1660	+ 110
IN SOUTH BEND	1454	+ 174	IN SOUTH BEND	1454	+ 174	IN SOUTH BEND	1454	+ 174
IN TERRE HAUTE	1720	+ 133	IN TERRE HAUTE	1720	+ 133	IN TERRE HAUTE	1720	+ 133
IA DES MOINES	1630	+ 96	IA DES MOINES	1630	+ 96	IA DES MOINES	1630	+ 96
IA MASON CITY	1424	+ 138	IA MASON CITY	1424	+ 138	IA MASON CITY	1424	+ 138
IA OTTUMWA	1654	+ 161	IA OTTUMWA	1654	+ 161	IA OTTUMWA	1654	+ 161
IA SIOUX CITY	1656	...	IA SIOUX CITY	1656	...	IA SIOUX CITY	1656	...
IA WATERLOO	1547	...	IA WATERLOO	1547	...	IA WATERLOO	1547	...
KS CHANUTE	2000	+ 122	KS CHANUTE	2000	+ 122	KS CHANUTE	2000	+ 122
KS DODGE CITY	1959	+ 209	KS DODGE CITY	1959	+ 209	KS DODGE CITY	1959	+ 209
KS GARDEN CITY	1950	+ 219	KS GARDEN CITY	1950	+ 219	KS GARDEN CITY	1950	+ 219
KS GOODLAND	1686	+ 274	KS GOODLAND	1686	+ 274	KS GOODLAND	1686	+ 274
KS MEDICINE LODGE	2208	+ 210	KS MEDICINE LODGE	2208	+ 210	KS MEDICINE LODGE	2208	+ 210
MO RUSSELL	2004	+ 305	MO RUSSELL	2004	+ 305	MO RUSSELL	2004	+ 305
MO SALINA	2031	+ 256	MO SALINA	2031	+ 256	MO SALINA	2031	+ 256
MO TOPEKA/BILLARD	1944	+ 188	MO TOPEKA/BILLARD	1944	+ 188	MO TOPEKA/BILLARD	1944	+ 188
MO WICHITA	2084	+ 149	MO WICHITA	2084	+ 149	MO WICHITA	2084	+ 149
KY LEXINGTON	1777	+ 76	KY LEXINGTON	1777	+ 76	KY LEXINGTON	1777	+ 76
MO BOWLING GREEN	1983	+ 85	MO BOWLING GREEN	1983	+ 85	MO BOWLING GREEN	1983	+ 85
MO PADUCAH	2090	+ 102	MO PADUCAH	2090	+ 102	MO PADUCAH	2090	+ 102
LA LAFAYETTE	2939	+ 136	LA LAFAYETTE	2939	+ 136	LA LAFAYETTE	2939	+ 136
LA LAKE CHARLES	2987	+ 190	LA LAKE CHARLES	2987	+ 190	LA LAKE CHARLES	2987	+ 190
MO MONROE	2793	+ 249	MO MONROE	2793	+ 249	MO MONROE	2793	+ 249
MO NEW ORLEANS	2943	+ 131	MO NEW ORLEANS	2943	+ 131	MO NEW ORLEANS	2943	+ 131
MO SHELVEPORT	2695	+ 151	MO SHELVEPORT	2695	+ 151	MO SHELVEPORT	2695	+ 151
MO AUGUSTA	951	+ 78	MO AUGUSTA	951	+ 78	MO AUGUSTA	951	+ 78
MO CARLEBOU	773	+ 109	MO CARLEBOU	773	+ 109	MO CARLEBOU	773	+ 109
MO HOULAND	813	+ 68	MO HOULAND	813	+ 68	MO HOULAND	813	+ 68
MO PORTLAND	954	+ 153	MO PORTLAND	954	+ 153	MO PORTLAND	954	+ 153
MO SALLISBURY	1872	+ 267	MO SALLISBURY	1872	+ 267	MO SALLISBURY	1872	+ 267
MO WORCESTER	1098	+ 119	MO WORCESTER	1098	+ 119	MO WORCESTER	1098	+ 119
MI GRAND RAPIDS	1278	...	MI GRAND RAPIDS	1278	...	MI GRAND RAPIDS	1278	...
MI JACKSON	1319	+ 117	MI JACKSON	1319	+ 117	MI JACKSON	1319	+ 117
MI LAWSON	1262	+ 28	MI LAWSON	1262	+ 28	MI LAWSON	1262	+ 28
MI MUSKOGEE	1086	+ 62	MI MUSKOGEE	1086	+ 62	MI MUSKOGEE	1086	+ 62
MI PELLISON	959	+ 136	MI PELLISON	959	+ 136	MI PELLISON	959	+ 136
MI SAULT ST. MARIE	725	+ 75	MI SAULT ST. MARIE	725	+ 75	MI SAULT ST. MARIE	725	+ 75
MI TRAVERSE CITY	1104	+ 158	MI TRAVERSE CITY	1104	+ 158	MI TRAVERSE CITY	1104	+ 158
MI DULUTH	841	+ 156	MI DULUTH	841	+ 156	MI DULUTH	841	+ 156
MI INT'L FALLS	953	+ 146	MI INT'L FALLS	953	+ 146	MI INT'L FALLS	953	+ 146
MI MINNEAPOLIS	1354	...	MI MINNEAPOLIS	1354	...	MI MINNEAPOLIS	1354	...
MI ROCHESTER	1259	...	MI ROCHESTER	1259	...	MI ROCHESTER	1259	...
MI ALEXANDRIA	1167	+ 180	MI ALEXANDRIA	1167	+ 180	MI ALEXANDRIA	1167	+ 180
MI BLOOM	2957	+ 152	MI BLOOM	2957	+ 152	MI BLOOM	2957	+ 152
MI COLUMBUS	2703	+ 370	MI COLUMBUS	2703	+ 370	MI COLUMBUS	2703	+ 370
MI JACKSON	2579	+ 150	MI JACKSON	2579	+ 150	MI JACKSON	2579	+ 150
MI MERIDIAN	2732	+ 279	MI MERIDIAN	2732	+ 279	MI MERIDIAN	2732	+ 279
MI GREENWOOD	2668	+ 221	MI GREENWOOD	2668	+ 221	MI GREENWOOD	2668	+ 221
MO COLUMBIA	1827	+ 165	MO COLUMBIA	1827	+ 165	MO COLUMBIA	1827	+ 165
MO JOPLIN	2129	+ 175	MO JOPLIN	2129	+ 175	MO JOPLIN	2129	+ 175
MO SPRINGFIELD	2031	+ 221	MO SPRINGFIELD	2031	+ 221	MO SPRINGFIELD	2031	+ 221
MI VICKY	1904	+ 128	MI VICKY	1904	+ 128	MI VICKY	1904	+ 128
MI HILKEMA	1140	+ 296	MI HILKEMA	1140	+ 296	MI HILKEMA	1140	+ 296
MI KALISPELL	902	+ 42	MI KALISPELL	902	+ 42	MI KALISPELL	902	+ 42
MI MILLS CITY	1413	+ 280	MI MILLS CITY	1413	+ 280	MI MILLS CITY	1413	+ 280
MI GRAND ISLAND	1729	+ 268	MI GRAND ISLAND	1729	+ 268	MI GRAND ISLAND	1729	+ 268
MI NORFOLK	1725	+ 331	MI NORFOLK	1725	+ 331	MI NORFOLK	1725	+ 331
MI NORTH PLATTE	1644	+ 316	MI NORTH PLATTE	1644	+ 316	MI NORTH PLATTE	1644	+ 316
MI VALENTINE	1537	+ 194	MI VALENTINE	1537	+ 194	MI VALENTINE	1537	+ 194
MI SCOTTSBLUFF	1604	+ 339	MI SCOTTSBLUFF	1604	+ 339	MI SCOTTSBLUFF	1604	+ 339
MI SIDNEY	1539	+ 397	MI SIDNEY	1539	+ 397	MI SIDNEY	1539	+ 397
MI ELKO	1233	+ 194	MI					

## June Crop Summary

It was the warmest June on record for parts of the Nation, and the continued dry weather stressed the Nation's crops. June began with the development of small grains accelerated by the persistent hot weather. Beneficial rains early in the month were evaporated by the hot weather and could not restore the soil moisture to adequate levels for the field crops. Scattered rainfall produced uneven stands of row crops in the middle Mississippi Valley. The Nation's cotton crop was initially assisted by the hot weather but was later stressed by the continued dry conditions. Producers treated for moderate insect problems, sprayed herbicides, and cultivated to control weeds due to poor pre-emergence control from the dry soil conditions. By mid-month, the first heat wave hit the eastern Corn Belt and further stressed the row crops. Crops in the Midwest and Southeastern States received much-needed rainfall that promoted crop development. Across the Western States, mostly clear weather allowed planting and early-harvest activities to continue. Wheat across the Nation was turning color and beginning to ripen, while temperatures in the 90's in the Southern States allowed producers to conclude cotton planting. Later in the month, a storm front lingered over the central Great Plains and Tennessee Valley, interrupting the winter wheat harvest but providing much-needed moisture. Severe weather in the middle Mississippi Valley produced hail, which caused some replanting of soybeans and corn. At the end of the month, a second heat wave hit the southern High Plains, further stressing field crops. By month's end, some of the hottest days ever recorded in the Southwest wilted field crops and slowed some crop development. The wheat harvest progressed quickly in the central Great Plains until the rains arrived at month's end. Hot, windy weather dried fields, allowing the harvest to resume. The Nation's row crops began the month of June ahead of the 5-year average, and the dry weather allowed all field crop's progress to remain ahead of the average for the month.

**Winter wheat** headed finished ahead of the average across most of the Nation. The hot, summer-like weather accelerated wheat

development in the central Great Plains, causing winter wheat to mature early. Winter wheat harvest started in the southernmost States slightly ahead of average. Rain in the central Great Plains at mid-month interrupted the wheat harvest but did not stop producers from ending the month 8 percentage points ahead of the average. Condition of the winter wheat crop started the month of June mostly fair and increased by the end of the month to mostly good.

**Corn** condition at the beginning of the month was mostly good, with 7 percent(%) rated as excellent. At month's end, the corn condition was mostly good, but 18% was rated as excellent. The average corn height ranged from 7 to 8 inches at the beginning of the month and increased to 19-39 inches by the end of the month.

Continued hot, dry weather allowed farmers to plant **soybeans** ahead of the average by 8 points. Soybeans blooming ended the month at 2%, tied with the average. The average height of soybeans planted at the end of the month ranged from 5 to 9 inches. Soybean condition ended the month mostly good.

The month featured a series of heat waves that first pushed **cotton** development but later slowed cotton growth. Cotton squaring started the month 6 points ahead of the average, and by month's end was 14 points ahead of the average, at 56% complete. By the end of June, cotton setting bolls was at 11%, 4 points ahead of the average. Cotton condition remained steady throughout the month at mostly good.

Progress of **sorghum** planting remained ahead of the average throughout the month and ended 11 points ahead of the average, with sorghum condition mostly good.

By the end of June, **rice** emerged was 9 points ahead of the average. Rice condition was mostly good at month's end ahead of the previous year.

(Continued from front cover)

**Alabama.** Rainfall topped 24 inches at Americus, GA, 21 inches of which fell during a 24-hour period on July 5 and 6. More than 10 inches of rain deluged an area from south of Atlanta, GA to southeastern Alabama. Severe flooding ensued in Georgia's Flint and Ocmulgee River basins, engulfing Americus, Albany, and Bainbridge. According to press reports, more than 2 dozen people perished in the floods, many of those in and near Americus. For most gauging points along the Flint and Ocmulgee Rivers, the previous flood of record, in January 1925, was surpassed. Florida's Apalachicola River, formed by the confluence of the Flint and Chattahoochee Rivers, reached its highest level since 1929. The flooding adversely affected the peach harvest in west-central Georgia and left peanut fields drenched or flooded in southwestern Georgia and southeastern Alabama.

In the West, dry, windy weather and the passage of a lightning-laced storm system favored the spread of destructive wildfires across 11 States from the High Plains westward. On July 6, near Glenwood Springs, CO, a fire claimed the lives of 14 firefighters. But farther east, the storm's cold front temporarily broke the latest round of heat in Texas' High Plains, where temperatures crept as high as 105°F in Lubbock on July 6, and 108°F in Midland and

San Angelo on July 7. In contrast, Salt Lake City, UT reported a high of 73°F on Wednesday, only a day after reaching 100°F. By Friday morning, daily record lows included 36°F in Alamosa, CO and 37°F in Laramie, WY. However, temperatures again climbed in the West by week's end, with highs topping 100°F as far north as Medford, OR (102°F on Friday) and Boise, ID (101°F on Saturday). Heat returned to the East during the week, with highs edging into the lower to middle 90's across the central and eastern Corn Belt, and soaring into the upper 90's in the Middle Atlantic piedmont. Louisville, KY tied a daily record on July 5 with 98°F. Springfield and Peoria, IL attained 95°F. On Saturday, as cooler air overspread the Corn Belt (the high in Peoria was 78°F), Richmond, VA and Philadelphia, PA notched 99°F.

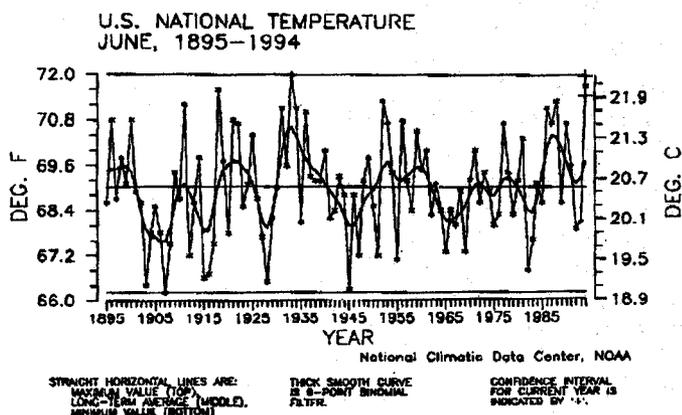
Despite the heat, most of the Corn Belt received favorable showers, as first a warm front lifted slowly northward, followed by the approach of a late-week cold front. Weekly totals neared excessive levels in a few locations, including Grand Rapids, MI (5.95 inches), Norfolk, NE (3.74 inches), and Wausau, WI (3.07 inches). In North Dakota, heavy rain pelted Grand Forks (4.37 inches) and Fargo (4.16 inches). Farther west, beneficial showers totaled more than 1 inch in Wyoming at Casper and Sheridan, and in Montana at Billings.

# June Weather in Historical Perspective

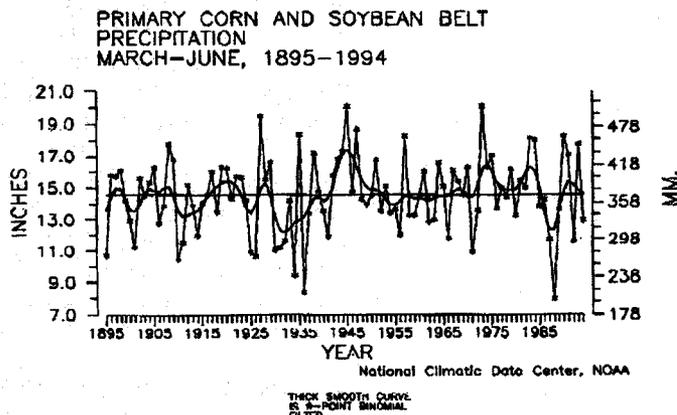
A pair of heat waves highlighted a very warm, dry month. The Nation's average temperature of 71.7°F was second only to an average of 72.0°F in June 1933, and 2.7°F above normal (fig. 1). The normalized precipitation index achieved its fourth lowest ranking on record (fig. 2), fueled by six of nine regions ranking in the dry third of the historical distribution (table 1). Despite spotty growing-season precipitation (fig. 3) and a mid-June heat wave in the eastern Corn and Soybean Belt, crops began to enter reproduction in generally good condition.

For the Southwest region, it was the hottest June on record, largely due to a record-breaking heat wave that began about June 24. All of the other regions except the Northwest measured above-normal temperatures. Eighteen States, mostly in the Southwest and Northeast, had ranked among their ten hottest Junes (fig. 4). In addition to the heat, record- or near-record dryness covered the intermountain West and parts of the Northeast. In contrast, wetness developed across the Southeast.

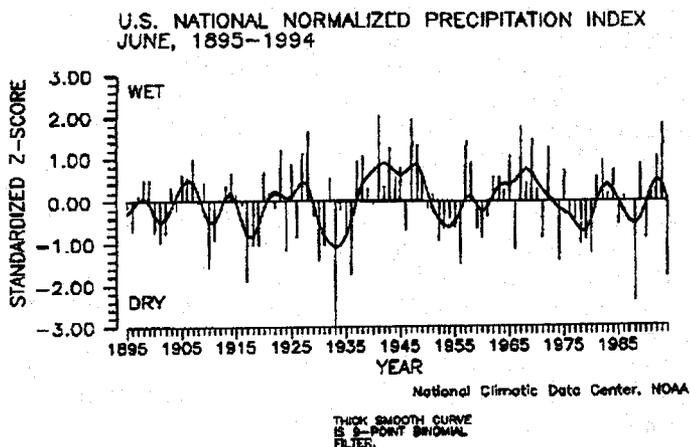
**Figure 1**



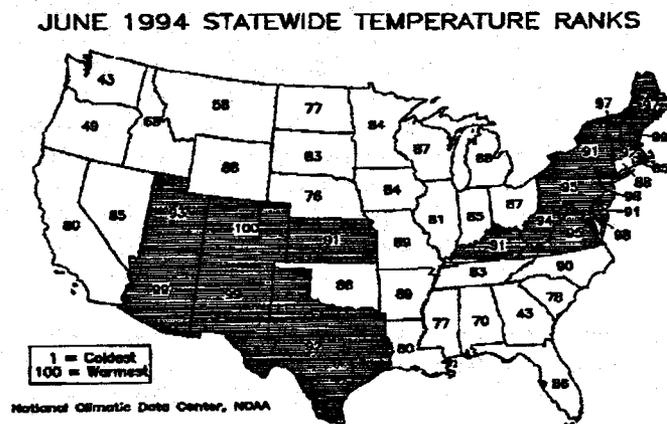
**Figure 3**



**Figure 2**



**Figure 4**



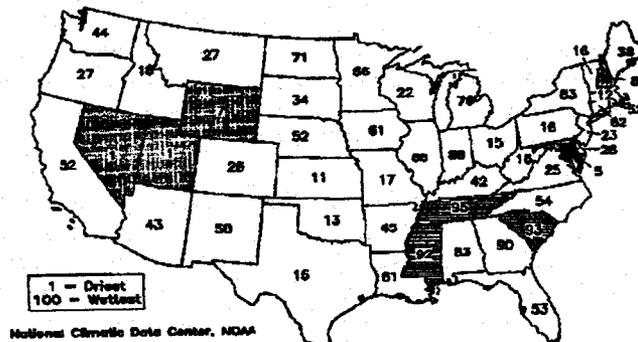
Temperature Ranks for the contiguous United States. Each state is ranked based on its data from 1895-1994. States having a rank of top ten coldest (rank 1-10) or top ten warmest (rank 91-100) are shaded.

**Table 1**

Temperature and precipitation rankings for June 1994, based on the period 1895-1994. 1 = Driest/Coldest, 100 = Wettest/Hottest.

Region	Precipitation	Temperature
Northeast	30	97
East North Central	49	84
Central	48	87
Southeast	72	84
West North Central	33	81
South	24	92
Southwest	23	100
Northwest	26	58
West	20	87
National	4	99

**JUNE 1994 STATEWIDE PRECIPITATION RANKS**



Precipitation Ranks for the contiguous United States. Each state is ranked based on its data from 1895-1994. States having a rank of top ten driest (rank 1-10) or top ten wettest (rank 91-100) are shaded.

## National Agricultural Summary

July 4 - 10, 1994

**HIGHLIGHTS:** Torrential rains from tropical storm Alberto caused flooding and interrupted planting and harvesting activities from the Florida Panhandle to Georgia. Damage to agriculture and the infrastructure supporting agriculture was severe in affected areas, and it will be several weeks before the extent of the losses can be estimated. The flooding left weedy, water-logged fields that caused conditions for corn and cotton to decline. The heavy rains and flooding did not prevent Georgia producers from concluding the winter wheat harvest. The wheat harvest was slowed by a storm system, with substantial rainfall and damaging winds originating over the Dakotas and passing through Michigan and Indiana. Hail damage was reported in the lower Mississippi Valley on some soybean and sorghum fields. Rain was needed in the southern Great Plains, but the fast-moving and heavy rains only prompted flash flooding and did little to revive the row crops. The wheat harvest in the southern Great Plains was unaffected by isolated heavy rains and storms. The crops in the Corn Belt experienced a brief return of last month's heat, but with adequate soil moisture from the previous week's rain, the crops thrived. Cool, but dry, weather early in the week on the West Coast put some nonirrigated fields under stress. Later in the week, the return of hot, dry weather left most of the Western States with no relief for soil moisture shortages. Scattered rain in the Southwest did not ease concerns over short soil moisture supplies. Insect problems were taking shape in the Midwest where Japanese beetles, chinch bugs, and potato leaf hoppers were reported.

**SMALL GRAINS:** Winter wheat harvested was 74 percent(%) complete, up 9 percentage points from last week and 12 points ahead of the 5-year average. The rains in the northern Great Plains and Great Lakes region slowed the Great Plains wheat harvest. The wheat harvest in Georgia and Oklahoma was complete. Winter wheat harvested increased 24 points from last week in Colorado to 94% complete, 58 points ahead of the average. Winter wheat harvest in Ohio increased 45 points from last week, while the wheat harvest in Illinois increased 31 points from last week.

Spring wheat was 79% headed, up 18 points from last week and 1 point ahead of the average. The condition for spring wheat was mostly good, down slightly from the previous week.

**FIELD CROPS:** Corn condition was mostly good, up from last week and the previous year. Rains in the Corn Belt helped the crop. Corn silking for the 17 major States was 18%, 4 points ahead of the average. Illinois, Michigan, and Ohio were behind the average for corn silking, while Kansas increased 30 points from last week and was 15 points ahead of the average. The average corn height ranged from 37 inches for South Dakota to 64 inches for Illinois, which was a 15-inch increase for Illinois from last week. Spider mites and corn borers were reported in the central and southern Great Plains.

Cotton squaring for the 14 major producing States was 82% complete, up 11 points from last week and 11 points ahead of the average. Cotton setting bolls was 32% for the major producing States, up 13 points from last week and 11 points ahead of the average. California cotton squaring was up 25 points from last week but 3 points behind the average, while

Texas was up 12 points from last week and 15 points ahead of the average. Cotton squaring in Arizona was 100%, but cotton setting bolls was 4 points behind the average. Cotton setting bolls in Missouri and California increased 10 points from the previous week, while Texas was 10 points ahead of the average. Damage to cotton fields caused by high winds and blowing sands was reported in Texas, where some dryland cotton fields showed signs of crop development slowing.

Sorghum condition was good to fair up from last year. Sorghum headed reached 26%, 3 points ahead of last year and 5 points ahead of the average. Sorghum headed was up 3 points from last week in Kansas, Illinois, and Texas. Illinois and Oklahoma were the only States behind the average. Lodging in the Texas Blacklands slowed harvest progress, while the harvest was nearing completion in southern Texas. Growth in the Texas plains was slowed from lack of moisture in some fields.

Rice condition was mostly good, down from last week, but up from last year. Rice headed was 18%, up 4 points from last week and 5 points ahead of the average. Rice headed in Texas was up 14 points from last year and 10 points ahead of the average. Louisiana and Texas producers reported rice growers beginning to harvest some early-planted fields. Arkansas rice headed was 8 points ahead of last year and the average. Sheath blight and blast were reported in Arkansas and Louisiana.

Soybean condition was mostly good, up slightly from last week. Soybean blooming was 35% complete, 22 points over last week and 16 points ahead of the average. The average height of soybeans ranged from 17 inches in Indiana and 14 inches for Minnesota and North Dakota.

### Crop Condition

for the Week Ending July 10, 1994

#### SORGHUM

State	VP	P	F	G	EX
AR	0	0	16	78	6
CO	0	1	32	49	18
IL	0	0	5	90	5
KS	0	0	33	65	2
LA	1	2	40	53	4
MS	0	2	36	53	9
MO	0	3	48	48	1
NE	0	0	16	59	25
NM	10	45	31	12	2
OK	0	1	13	86	0
SD	0	0	19	77	4
TX	1	4	27	61	7
12 State	1	2	27	63	7
Prev Week	0	2	27	65	6
Prev Year	1	5	31	47	16

#### CORN

State	VP	P	F	G	EX
CO	1	3	14	59	23
GA	0	0	2	72	26
IL	0	0	10	66	24
IN	0	2	26	59	13
IA	0	0	2	44	54
KS	0	0	30	63	7
KY	0	1	19	69	11
MI	1	4	25	50	20
MN	0	0	7	63	30
MO	0	4	35	54	7
NE	0	1	14	63	22
NC	1	4	22	63	10
OH	1	8	30	51	10
PA	0	4	22	47	27
SD	0	2	14	57	27
TX	1	2	24	60	13
WI	0	0	3	38	59
17 State	0	1	14	57	28
Prev Week	0	1	16	61	22
Prev Year	3	10	36	43	8

#### COTTON

State	VP	P	F	G	EX
AL	0	0	40	46	14
AZ	0	0	5	80	15
AR	0	0	5	82	13
CA	0	0	5	80	15
GA	0	1	29	54	16
LA	0	0	9	69	22
MS	0	1	17	72	10
MO	0	0	36	64	0
NM	0	0	38	54	8
NC	0	4	23	67	6
OK	0	0	14	86	0
SC	0	0	43	57	0
TN	0	0	4	83	13
TX	0	9	32	49	10
14 State	0	4	22	63	11
Prev Week	0	3	12	72	13
Prev Year	0	4	34	58	4

#### RICE

State	VP	P	F	G	EX
AR	0	0	0	93	7
CA	0	0	10	85	5
LA	0	0	52	46	2
MS	0	0	18	71	11
TX	0	0	11	64	25
5 State	0	0	15	77	8
Prev Week	0	0	3	96	1
Prev Year	0	0	35	65	0

#### SOYBEANS

State	VP	P	F	G	EX
AL	0	0	17	72	11
AR	0	0	17	83	0
GA	0	2	19	70	9
IL	0	0	11	74	15
IN	0	5	28	63	4
IA	0	1	4	62	33
KS	0	0	28	71	1
KY	0	0	30	65	5
LA	0	7	28	60	5
MI	5	10	30	45	10
MN	0	0	14	68	18
MS	0	5	22	62	11
MO	0	4	46	49	1
NE	0	0	12	67	21
NC	1	1	20	75	3
OH	2	9	32	47	10
SC	0	4	35	61	0
SD	0	2	15	63	20
TN	0	0	17	72	11
19 State	0	2	19	66	13
Prev Week	0	2	23	64	11
Prev Year	3	12	39	41	5

#### SPRING WHEAT

State	VP	P	F	G	EX
ID	2	5	20	63	10
MN	0	5	21	71	3
MT	2	6	27	39	26
ND	1	5	18	61	15
SD	0	7	49	42	2
5 State	1	5	25	56	13
Prev Week	0	6	22	60	12
Prev Year	0	2	13	64	21

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

#### CORN SILKING

	Current	Last Wk	1993	Avg.
CO	4	0	0	0
GA	98	97	95	95
IL	23	2	3	24
IN	15	1	3	13
IA	10	0	0	4
KS	45	15	15	30
KY	41	17	34	36
MI	2	0	0	5
MN	3	0	0	0
MO	36	0	10	31
NE	23	2	1	9
NC	86	60	58	57
OH	3	0	2	14
PA	0	0	3	3
SD	3	0	0	1
TX	67	62	64	71
WI	12	0	0	3
17 States	18	5	6	14

#### GRAIN SORGHUM HEADED

	Current	Last Wk	1993	Avg.
AR	42	20	8	19
CO	0	0	0	0
IL	5	2	1	6
KS	5	2	0	1
LA	65	42	38	47
MS	60	56	19	34
MO	0	0	0	0
NE	0	0	0	0
NM	0	0	0	0
OK	3	1	5	4
SD	1	0	0	0
TX	67	64	59	58
12 States	26	23	20	21

### Crop Progress for the Week Ending July 10, 1994

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

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

(Continued to p. 19)

## 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 0.80 to 5.15 in. north; 0.27 to 9.12 in. central; 3.41 to 14.55 in. south. Temperatures 5° below normal to 1° above normal statewide. Lows 65 to 70° north; 64 to 70° central; 63 to 71° south. Highs 84 to 92° north; 88 to 95° central, south.

Days suitable for fieldwork 3.4. Soil moisture 31% adequate, 69% surplus. Corn silked 82%, 73% 1993, 82% avg.; dented 27%, 21% 1993, 31% avg.; mature 3%, 1% 1993, 5% avg.; 16% fair, 64% good, 20% excellent. Sorghum planted 93%, 84% 1993, 93% avg.; 18% fair, 73% good, 9% excellent. Peanuts pegged 36%, 42% 1993, 61% avg.; 78% fair, 22% good. Wheat harvested 87%, 92% 1993, 92% avg. Pasture feed 17% fair, 56% good, 27% excellent. Livestock 8% fair, 81% good, 11% excellent. Seasonal activities: Planting sorghum, soybeans, vegetables, controlling weeds, insects.

**ALASKA:** Week began with cloudy skies, some light to moderate precipitation for most farming areas of the State excluding Fairbanks. Week-end temperatures in the 70's were recorded throughout the railbelt.

Days suitable for making hay 4. First crop hay harvest was 40% complete, comparable to last years progress. Crop growth was 10% slow, 50% moderate, 40% rapid. Barley 90% headed, equal to 1993 development. Oats 35% headed, 95% 1993. Barley 15% poor, 40% fair, 40% good, 5% excellent. Commercial potato 5% below average, 90% average, 5% above average. Topsoil 30% short, 70% adequate. Subsoil moisture supplies were 20% short, 80% adequate.

**ARIZONA:** Temperatures return to near normal; 2° below to 3° above. Extremes 37°; 104° higher elevations; 60°; 117° deserts. A trace of precipitation reported at Payson station.

Farmers continue monitoring irrigation patterns, cotton condition good; squaring 100%, 97% 1993, 98% avg.; setting bolls 71%, 70% 1993, 75% avg. Weed, insect, disease infestations reported moderate. Small grains harvested 99%, 99% 1993, 99% avg. Condition remains good. Alfalfa condition good to excellent. Harvest continues active. Weed infestations, insect, disease infestations light. Citrus harvest nearing end; grapefruit, valencia oranges available western, central areas. Grape harvest winding down central, western vineyards. Vegetables harvested from central areas included cabbage, carrots, green onions, potatoes. Cantaloupe, honeydew, watermelons available both areas. Tomatoes available eastern areas.

**ARKANSAS:** Temperatures near normal with scattered showers, thunderstorms, heaviest in west central, east central areas. Extreme 57°; 98°. Precipitation none to 3.89 in.

Days suitable for fieldwork 6. Soil moisture 45% short, 48% adequate, 7% surplus. Crop development ahead of schedule. Some hail damage reported on soybeans, sorghum. Sheath blight and blast reported in several rice fields. Peaches, blueberries, tomatoes, watermelons mostly good. Peach, blueberry, tomato harvests continued. Hay harvest continuing. Alfalfa 9% poor, 63% fair, 28% good. Other hay 68% fair, 32% good. Pasture 4% very poor, 1% poor, 45% fair, 47% good, 3% excellent. Livestock good. Producers in northwest feeding hay due to dry pastures.

**CALIFORNIA:** Temperatures within a few degrees of normal last week. No precipitation. Drying north winds north during the first half of the week with lighter winds otherwise.

Field activities good progress, open weather prevailed. Wheat, barley grain harvest rapidly neared completion; straw baling, discing, preparation second crop seedings followed. Rice grew well, few weed treatments ongoing. Cotton growth excellent, progress slightly behind normal. Fields irrigated, thinned, weeded, cultivated, sprayed lygus, mites, whitefly. Planting grain corn, silage corn winding down. Emerged fields received herbicide, insecticide applications. Safflower full bloom most areas. Garbanzo bean harvest underway. Over-wintered sugarbeets harvested some areas. Alfalfa, barley, sudangrass cut, baled. Freestone peaches, plums, nectarines, table grapes, citrus harvested. Cling peach harvest began; Sutter County. Apricot dry yards busy; Hollister area. Almond hull split began; early varieties. Almonds irrigated; treated for mites, Navel Orange Worms. Coachella grapefruit harvest completed. Citrus groves treated; various pests. Harvest broccoli, cauliflower light along central coast. Celery harvest continued central coast areas. Harvest carrots Kern county continued. Cucumbers harvested Fresno County. Garlic harvested coastal areas. Lettuce with heat damage shredded San Benito County. Fall lettuce fields irrigated, bedded San Joaquin Valley. Melon harvest San Joaquin valley slower pace. Dry onions harvested central coast area, Riverside County. Pepper harvest continued central valley. Winter potatoes planted Riverside County. Sweet corn harvest picking up speed central valley.

Fresh market, processing tomato harvests gained momentum San Joaquin, Sacramento Valleys. Vineseed fields planted desert, central valleys. Other crops being harvested: Eggplant, radishes, summer squash, peas, green beans, tomatillos, oriental vegetables. Pasture, rangeland conditions dry. Fire hazard all elevations. Feed supply on higher elevations fair to good. Foothill range conditions poor for cattle grazing. Ranchers continuing supplemental feeding programs lower ranges. Livestock movement light to moderate. Sheep grazing harvested tomato fields. Cattle, sheep in good condition.

**COLORADO:** High pressure produced several days of hot, dry weather. However, cold fronts moved across the State on the 4th, again on the 7th bringing a few light showers, significantly cooler air to the east. Rainfall light statewide. There were record, near record low temperatures in the east, high valleys in the south on the 8th.

Days suitable for fieldwork 6.5. Soil moisture 41% very short, 38% short, 21% adequate. Dry conditions continue to stress crops. Alfalfa first cutting 98% complete, 94% 1993, 87% avg.; second cutting 57% complete, 22% 1993, 16% avg. Spring barley 99% headed, 91% 1993, 88% avg.; 43% turning color, 34% 1993, 40% avg. Spring barley 8% harvested, 0% 1993, 4% avg.; 8% very poor, 4% poor, 13% fair, 63% good, 12% excellent. Dry beans 100% emerged, 98% 1993, 97% avg.; 2% very poor, 2% poor, 12% fair, 70% good, 14% excellent. Oats 90% headed, 87% 1993, 83% avg.; 81% turning color, 51% 1993, 40% avg.; 42% harvested, 0% 1993, 1% avg.; 16% poor, 31% fair, 48% good, 5% excellent. Dry onion 2% poor, 20% fair, 63% good, 15% excellent. Sugarbeets 1% very poor, 2% poor, 37% fair, 53% good, 7% excellent. Spring wheat 82% headed, 68% 1993, 77% avg.; 18% turning color, 10% 1993, 16% avg. Spring wheat 3% very poor, 3% poor, 20% fair, 52% good, 22% excellent. Sorghum 97% emerged, 97% 1993, 92% avg. Summer potatoes 4% poor, 26% fair, 56% good, 14% excellent. Fall potatoes 20% fair, 60% good, 20% excellent. Winter wheat harvest on eastern plains nearing completion, well ahead of normal. Livestock fair to good. Pasture, range feed poor to fair, except the northeast, east-central plains where condition remains very poor.

**FLORIDA:** Temperatures 1 to 3° below normal northwest, within 2° normal elsewhere. Major flooding across Panhandle due to Tropical Storm Alberto. Additional rains of 5.00 to over 10.00 in. reported across Panhandle first of week. Remainder of State routine summer weather, scattered showers, thunderstorms daily. Rain totals outside Panhandle, 0.50 to 2.50 in. Highs; low, mid 90s. Lows; upper 60s to mid 70s.

Soil moisture mostly surplus Panhandle, many areas flooded. Soil moisture adequate to surplus north Peninsula. Central, southern Peninsula adequate moisture with scattered areas short. Soybean planting complete. Rain delaying tobacco harvest, causing drying problems. Start corn harvest delayed by rain. Weed control, cotton, peanuts virtually impossible Panhandle. Sugarcane making good progress. Hay delayed by wet conditions. Rain varying quantities all areas. Citrus trees showing abundant new foliage with ideal growth conditions. Very good new crop fruit growth, very little droppage or splitting statewide at this time. Valencia harvest almost over. Grapefruit harvest down to the last few thousand boxes. Caretakers cutting cover crops, spraying, fertilizing, pushing dead trees. Commercial harvest virtually complete. North, tomato crop harvest about over. Growers preparing fields for fall crop, weather permitting. Sweet corn, watermelon, pepper supplies declining. Pasture feed 15% fair, 45% good, 40% excellent. Cattle herds good to excellent condition.

**GEORGIA:** Temperatures 1 to 5° below normal most areas except extreme north, southeast, 1 to 2° above normal. Warmest highs in mid 80s mountains, mostly upper 80s to low 90s elsewhere, except isolated mid 90s southeast. Coolest lows mostly upper 60s to low 70s, except mid 60s mountains, normally cooler spots center, south. Rained 3 to 7 days during week. Rain less than 1.00 in. spots in south, extreme north, 1.50 in. to locally over 15.00 in. elsewhere. Greatest rain was 22.14 in. at Americus.

Days suitable for fieldwork 1.7. Soil moisture 22% adequate, 78% surplus. Corn 89% dough, 62% 1993, 77% avg.; 52% dent, 31% 1993, 47% avg.; 6% mature, 3% 1993, 8% avg.; condition down. Cotton development ahead of normal, condition down, weed problems increasing. Sorghum 1% poor, 14% fair, 80% good, 5% excellent; 97% planted, 95% 1993, 97% avg.; planting slows, little change in condition. Peanuts 4% poor, 14% fair, 67% good, 15% excellent; 99% blooming, 93% 1993, 93% avg.; 82% pegging, 67% 1993, 69% avg.; water damage, development ahead of normal. Wet fields delaying spray schedules. Soybeans 98% planting, 99% 1993, 97% avg.; 5% setting pods, 0% 1993, 2% avg.; weed problems. Tobacco 25% fair, 73% good, 2% excellent; 25% harvested, 11% 1993, 26% avg.; rains slow harvest. Watermelons 19% poor, 23%

fair, 58% good; 75% harvested, 64% 1993, 68% avg.; big drop in condition, harvest slowed many areas and stopped some. Other vegetables 4% very poor, 9% poor, 33% fair, 54% good; flooding, excess rain causing problems. Apples 12% very poor, 13% fair, 64% good, 11% excellent. Peaches 4% very poor, 11% poor, 45% fair, 40% good; 84% harvested, 73% 1993, 79% avg.; harvest slowed, moving peaches to market several days delay. Hay, pastures fair to mostly good. Hay harvest stalled most areas. Cattle, hogs good. Activities: Assessing flood damage, emergency care of livestock, poultry, moving farm machinery, grain, supplies, personal belongings to higher ground, helping neighbors.

**HAWAII:** Mostly sunny during week with some evening, early morning showers windward side of all islands. High pressure system north of the islands produced trade winds 10 to 25 mph. Remnants of Carlotta produced humid conditions over the weekend. Temperatures high 60s to high 80s. Rainfall none to 2.60 in.

Weather mostly favorable 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 0 to 6° below normal. Precipitation none to 0.53 in. north, none to 0.12 in. southwest, none to 0.08 in. central, none to 0.39 in. east. Windy weather interrupted by light rains during the middle of the week.

Days suitable for fieldwork 7. Soil moisture 12% very short, 34% short, 54% adequate. Range, pasture 78%. Potato progress: not yet 12" high 11%, 12" high 39%, closing middles 49%, turning 1%. Potato 1% poor, 13% fair, 74% good, 12% excellent. Barley headed 83%, 43% 1993, 68% avg.; 4% poor, 21% fair, 63% good, 12% excellent. Alfalfa hay harvested (1st cutting) 95%, 89% 1993, 91% avg.; (2nd cutting) 14%, 4% 1993, 9% avg. Cherries harvested 98%, 53% 1993, 76% avg. Irrigation water supplies 11% very poor, 21% poor, 26% fair, 39% good, 3% excellent. Activities: Irrigating, cutting alfalfa, preparing for grain harvest.

**ILLINOIS:** Hot, humid air smothered State much of the week until a cold front ushered in cooler, more pleasant weather for the weekend. Week 0 to 3° warmer than normal. Highs were mostly in the middle 80s to around 90°. Lows in 60s. Rainfall was quite variable. Rainfall under one-half inch to over 1 inch with isolated heavier amounts.

Days suitable for fieldwork 5.0. Soil moisture 22% short, 77% adequate, 1% surplus. Corn average height 64 in., 41 in. 1993, 53 in. avg. Average most advanced height 79 in., 62 in. 1993, 72 in. avg. Soybeans setting pods: 5%, less than 1% 1993, 9% avg. Wheat ripe 99%, 95% 1993, 97% avg. Oats filled 99%, 70% 1993, 90% avg.; turning yellow 91%, 32% 1993, 63% avg.; ripe 47%, 11% 1993, 30% avg.; harvested 9%, less than 1% 1993, 15% avg.; 6% excellent, 74% good, 17% fair, 3% poor. Alfalfa hay second cutting 64%, 38% 1993, 53% avg.; 12% excellent, 72% good, 14% fair, 2% poor. Pasture feed 89% of normal. Soil moisture continues short in central, east portion of State with continued crop stress in these areas. Crop conditions improved across much of State with last weeks rainfall. Post application of herbicides, cultivation of soybeans to control weeds was common. Wheat harvest in full swing across the State with planting of double crop soybeans winding up primarily in the south. Farm activities included crop scouting, insecticide application, cutting, baling hay, straw, mowing weeds.

**INDIANA:** Hot humid air covered State much of the week, until cooler temperatures, more pleasant weather came during the weekend. Severe thunderstorms over mainly central, northern areas 5th, 6th brought damaging winds, flooding rains, hail. Isolated areas had as much as 5.00 to 8.00 in. of rain these 2 days. Scattered thunderstorms continued 7th, 8th. High temperatures averaged mostly in the middle to upper 80s, which was mostly 0 to 4° above normal. Lows 60s across the State. Highest readings were in the upper 90s in the far south. Rainfall around 0.50 to several in. Heaviest rainfall was generally across central, northeast areas.

Days suitable for fieldwork 4. Some hail, ponding of water was reported in the north, central areas. Winter wheat harvest continued as farmers made good progress in the south. Japanese beetles were reported throughout the state. Cultivating, spraying, planting double crop soybeans, baling hay, straw were major activities. Pastures improved. Pastures feed 85% of normal, 79% last week. Topsoil 17% short, 57% adequate, 26% surplus. Subsoil 20% short, 64% adequate, 16% surplus. Winter wheat 98% ripe, 88% 1993, 82% avg. Corn 61 in. high, 46 in. 1993, 50 in. avg. Soybeans 17 in. high, 13 in. 1993, 14 in. avg. Oats harvested 16%, 16% avg. Alfalfa 2nd cutting 61%, 37% avg.

**IOWA:** Temperatures 1° above normal east, 2° below normal west. Extremes 50°; 94°. Rainfall 0.01 in. central to as much as 4.35 in. southeast; State average 0.85 in. (normal 0.97 in.).

Days suitable for fieldwork 3.6. Topsoil 5% short, 72% adequate, 23% surplus. Subsoil 81% adequate, 19% surplus. Corn tasseled 25%, 0% 1993, 11% avg. Soybeans setting pods 9% 1994, 0% 1993, 1% avg. Oats turning color 94%, 15% 1993, 64% avg. Oats harvested for grain 6% 1994, 0% 1993, 9% avg. Alfalfa hay 2nd crop harvested 34%, 5% 1993, 21% avg. Clover hay 1st crop harvested 93%, 55% 1993, 84% avg. Winter wheat harvested 32%, 0% 1993, 34% avg. Winter wheat 16% fair, 76% good, 8% excellent. Pasture 2% poor, 14% fair, 72% good, 12% excellent. Oats 2% poor, 23% fair, 64% good, 11% excellent. Hay 5% poor, 19% fair, 67% good, 9% excellent. There were reports of potato leaf hoppers causing economic losses in alfalfa. Heat, humidity are causing some stress on livestock.

**KANSAS:** Temperatures normal across the State except the north central district where they were 3° below normal. Precipitation mostly moderate in all districts. Rainfall 0.77 in. southwest to 2.87 in. northwest.

Days suitable for fieldwork 4.5. Surface soil moisture 33% short to very short, 61% adequate and 6 percent surplus. Subsurface moisture 38% short to very short, 58% adequate and 4 percent surplus. Condition of fall crops is mostly good to excellent. Approximately 70% of corn, sorghum and soybeans are rated in good to excellent condition. Corn silking in all districts, entering the dough stage in southern, eastern districts. Corn in dough stage 3%, 0% 1993, 5% avg. Spider mites, European corn borers reported in the western districts. Sorghum is beginning to head in the southeastern quadrant of the State. Light to moderate infestations of chinch bugs are reported in the central, eastern districts. Soybeans are blooming in all districts, have begun to pod in all districts except the northwest, west central. Soybeans podding 2%, 0% 1993, 3% avg. Alfalfa 2nd cutting 95%, 50% 1993, 70% avg. Alfalfa 3rd cutting 10%, 1% 1993, 5% avg. Pastures feed good condition in all districts except the southern districts where they are fair.

**KENTUCKY:** Warm, slightly dry weather. Maximum temperature 1 to 4° above normal, minimum 3 to 8° above normal. Precipitation deficits up to 1.00 in. were recorded over much of State, although surpluses of up to 1.50 in. were observed west.

Days suitable fieldwork 5.5. Soil moisture 30% very short, 43% short, 24% adequate, 3% surplus. Corn fair to mostly good. Tobacco 3% poor, 36% fair, 60% good, 1% excellent. Rain needed for late set plants. Soybean fair to mostly good. Wheat harvest 97% complete; good yields reported. Pasture condition fair to good. Recent rainfall has helped crops, some areas are still short. Insect, disease problems are minimal.

**LOUISIANA:** Temperatures 0.4° below to 1.9° above normal. Extremes 67°; 97°. Rainfall 0.05 in. northwest to 2.89 in. southeast.

Days suitable for fieldwork 5.5. Soil moisture supplies: 2% very short, 33% short, 51% adequate, 14% surplus. Corn 8% fair, 70% good, 22% excellent; 100% silked, 95% 1993, 98% avg.; 90% dough stage, 67% 1993, 75% avg.; 20% mature, 4% 1993, 11% avg. Quickly moved toward maturity, expectation for an excellent crop were high. Cotton: most fields were laid-by, irrigation was active where needed. Hay 96% first cutting, 94% 1993, 85% avg.; 5% second cutting, 5% 1993, 1% avg. Harvest active. Peaches 74% harvested, 65% 1993, 63% avg. Rice 1% ripe, 0% 1993, 0% avg; 0% harvested, 0% 1993, 0% avg. Blast, sheath blight became more of a problem, treatments for these increased. Sorghum 1% turning color, 3% 1993, 3% avg. Soybeans 99% planted, 96% 1993, 95% avg.; 97% emerged, 92% 1993, 90% avg.; 7% setting pods, 6% 1993, 2% avg. Planting neared completion. Cultivation for weed control was active. Sweet potatoes 95% planted, 83% 1993, 90% avg.; 0% harvested, 0% 1993, 0% avg. Planting was coming to a close. Sugarcane 21% fair, 79% good. Wheat 100% harvested, 98% 1993, 99% avg. Livestock 10% poor, 54% fair, 34% good, 2% excellent. Worming, vaccination were active. Pasture 1% poor, 3% fair, 88% good, 8% excellent. Vegetables 26% fair, 70% good, 4% excellent.

**MARYLAND & DELAWARE:** **MARYLAND:** Precipitation 0.73 in., normal 0.89 in. Temperature 80.6°, normal 74.8°. Extremes 52°; 99°.

Days suitable for fieldwork 6.2. Topsoil 28% very short, 50% short, 22% adequate. Subsoil 17% very short, 55% short, 28% adequate. Pasture feed poor to fair. Small grain mostly fair to good. Winter wheat 77% harvested, 79% 1993, 72% avg. Barley 96% harvested, 99% 1993, 93% avg. Oats 63% turned, 59% 1993, 61% avg. Corn fair; 8% silking, 13% 1993, 16% avg. Soybeans fair; 85% planted, 88% 1993, 86% avg. Sorghum fair; beginning to head. Tobacco fair to mostly good; 1% bloomed, 3% 1993, 5% avg. Sweet corn 19% harvested, 4% 1993, 10% avg. Tomato, potato, cucumber, melon, snap bean harvests underway. Other hay 42% second cutting, 36% 1993, 22% avg. Alfalfa hay 78% second cut harvested, 71% 1993, 61% avg. Apples fair to mostly good, peaches poor, 8% harvested.

**DELAWARE:** Precipitation 0.10 in., normal 0.90 in. Temperature 80.2°, normal 75.4°. Extremes 66°; 96°.

Days suitable for fieldwork 6.4. Topsoil 27% very short, 37% short, 27% adequate, 9% surplus. Subsoil 67% short, 33% adequate. Pasture feed good. Small grain fair to good. Wheat 66% harvested, 88% 1993, 85% avg.

Barley 99% harvested, 100% 1993, 98% avg. Corn mostly fair; 13% silked, 26% 1993, 23% avg. Soybeans 91% planted, 85% 1993, 90% avg. Sweet corn 13% harvested. Vegetable, melon harvest beginning. Other hay 25% second cut, 57% 1993, 33% avg. Alfalfa hay 58% second cut, 89% 1993, 69% avg. Apples good; peaches fair to mostly good, 9% picked.

**MICHIGAN:** Extremes 45°; 93°. Precipitation 0.38 to 5.95 in. across the State.

Days suitable for fieldwork 3.5. Soil moisture 10% short, 35% adequate, 55% surplus. Dry beans 95% emerged, 95% 1993, 95% avg.; 15% very poor, 20% poor, 20% fair, 35% good, 10% excellent. Oats 80% headed, 60% 1993, 80% avg.; 10% turning, 5% 1993, 20% avg.; 5% very poor, 5% poor, 30% fair, 50% good, 10% excellent. Wheat 80% turning, 65% 1993, 80% avg.; 10% ripe, 5% 1993, 20% avg. Hay 90% first cutting, 85% 1993, 90% avg.; 15% second cutting, 15% 1993, 15% avg.; 5% very poor, 10% poor, 30% fair, 40% good, 15% excellent. Pasture feed 85% of normal. Major activities included mowing orchards, limited chemical, fertilizer applications.

**MINNESOTA:** Temperatures 2 to 3° below normal for the State. Extremes 39°; 92°. Precipitation 0.50 to 0.80 in. below normal for the State. Greatest weekly total was 1.99 in.

Days suitable for fieldwork 2.0. Topsoil 1% very short, 10% short, 64% adequate, 25% surplus. Corn 86% cultivated once, 32% 1993, 75% avg., 45 in. average unextended height, 14 in. 1993, 28 in. avg.; soybeans 70% cultivated once, 13% 1993, 60% avg.; 14 in. average unextended height, 7 in. 1993, 9 in. avg.; 16% blooming, 0% 1993, 4% avg.; spring wheat 96% heading, 60% 1993, 72% avg.; oats 98% heading, 58% 1993, 81% avg.; barley 95% heading 67% 1993, 73% avg.; corn 2% poor, 9% fair, 65% good, 24% excellent. Spring wheat 6% poor, 23% fair, 68% good, 3% excellent. Barley 6% poor, 25% fair, 64% good, 5% excellent. Oats 5% very poor, 24% fair, 68% good, 3% excellent. Soybeans 1% very poor, 4% poor, 19% fair, 63% good, 13% excellent. Sugarbeets 5% very poor, 29% fair, 62% good, 4% excellent. Dry beans 8% very poor, 4% poor, 28% fair, 56% good, 4% excellent.

**MISSISSIPPI:** Temperatures 1.0° above normal. Extremes 64°; 97°. Soil temperature 87°. Rainfall 1.15 in., 0.09 in. above normal. The coastal district accumulated the greatest amount of rainfall with over 2.00 in. Greatest one day precipitation occurred in the upper delta in Tunica.

Days suitable for fieldwork 3.8. Soil moisture 13% short, 52% adequate, 35% surplus. Corn 97% silked, 61% 1993, 77% avg.; 60% dough, 22% 1993, 38% avg.; 17% Dent, 3% 1993, 15% avg.; 6% fair, 61% good, 33% excellent. Cotton 97% squaring, 83% 1993, 87% avg.; 50% setting bolls, 21% 1993, 30% avg.; 1% poor, 17% fair, 72% good, 10% excellent. Rice 10% heading, 8% 1993, 12% avg.; 18% fair, 71% good, 11% excellent. Sorghum 60% heading, 19% 1993, 34% avg.; 2% poor, 36% fair, 53% good, 9% excellent. Soybeans 98% emerged, 83% 1993, 83% avg.; 31% blooming, 5% 1993, 11% avg.; 5% poor, 22% fair, 62% good, 11% excellent. Wheat 99% harvested, 90% 1993, 95% avg.; 6% poor, 22% fair, 40% good, 32% excellent. Hay 58% harvested, 67% 1993, 54% avg. Peaches 75% harvested, 56% 1993, 69% avg. Pecans 15% poor, 55% fair, 15% good, 15% excellent. Sweet potatoes 30% fair, 70% good. Livestock 11% fair, 70% good, 19% excellent. Pasture 88% of normal. Activities: Weed, insect control, hay harvest, lay-by of cotton.

**MISSOURI:** Temperatures 1° below normal west central to 4° above in the southwest, east central. Rainfall 0.75 in., 0.32 in. northwest to 1.21 in., central.

Days suitable for fieldwork 5.6. Topsoil moisture 48% short, 50% adequate, 2% surplus. Corn tasseling 54%, 18% 1993, 47% avg. Corn silking 83%, southeast. Wheat harvest complete in southern third of State. Oat harvest 53%, 14% 1993, 37% avg. Alfalfa hay second cutting 75%, 30% 1993, 54% avg. Other hay cut 86%, 67% 1993, 78% avg. Pastures 5% very poor, 17% poor, 48% fair, 29% good, 1% excellent.

**MONTANA:** Near to slightly above normal temperatures, good precipitation over most of State.

Days suitable for fieldwork 5.3. Topsoil 26% short, 69% adequate, 5% surplus. Subsoil 38% short, 60% adequate, 2% surplus. Winter wheat 48% turning color, 8% 1993, 26% avg.; 1% ripe, 0% 1993, 0% avg. Spring wheat 4% turning color, 0% 1993, 3% avg. Barley 7% turning color, 0% 1993, 4% avg.; 11% poor, 26% fair, 41% good, 22% excellent. Oats 7% turning color, 0% 1993, 3% avg.; 4% poor, 26% fair, 51% good, 19% excellent. Sugarbeet 1% poor, 5% fair, 71% good, 23% excellent. First cutting alfalfa 85%, 35% 1993, 51% avg. Other hay harvest 67%, 23% 1993, 35% avg. Pasture, range feed 93% of normal.

**NEBRASKA:** Temperatures 2 to 4° below normal. Precipitation occurred mostly at midweek, ranging in amount from 0.75 to as high as 3.30 in.

Days suitable for fieldwork 2.4. Topsoil 15% short, 53% adequate, 32% surplus. Subsoil 16% short, 76% adequate, 8% surplus. Winter wheat 7% poor, 66% fair, 26% good, 1% excellent; 72% harvested, 3% 1993, 38% avg. Corn 1% poor, 14% fair, 63% good, 22% excellent; 23% silking, 1% 1993, 9% avg. Soybean 12% fair, 67% good, 21% excellent; 42% blooming, 4% 1993, 13% avg. Sorghum 16% fair, 59% good, 25% excellent. Dry bean 2% poor, 21% fair, 74% good, 3% excellent; 6% blooming, 3% 1993. Alfalfa 2% very poor, 8% poor, 25% fair, 59% good, 6% excellent; 52% second cutting harvested, 18% 1993, 32% avg. Pasture, range feed 88% of normal.

**NEVADA:** Clear, dry weather prevailed over State. No measurable precipitation reported anywhere in the State. A weak cold front moved through the State keeping temperatures close to normal. The high for the State was 116°, the low was 32°.

Grain harvest moving northwards. Second cutting of alfalfa commencing. Pasture, range feed conditions remain good in the northeast, deteriorating over the rest of the State.

**NEW ENGLAND:** Precipitation none to 2.80 in. regionwide. Temperatures 63 to 76° north; 63 to 80° south. Maximum temperatures 76 to 96° north; 80 to 97° south. Minimum temperatures 30 to 57° north; 48 to 70° south.

Maine potatoes 100% planted, 100% 1993, 100% avg.; 100% emerged; good to fair. Maine oats good. Field corn good. Shade tobacco good to excellent. Broadleaf tobacco harvest underway in Connecticut; 5% harvested; good to excellent. First crop hay 75% harvested, 95% 1993, 90% avg.; good. Second crop hay 15% harvested, 10% 1993, 10% avg.; good. Sweet corn harvest underway south; 5% harvested, good. Apples, pears average fruit set. Peaches light fruit set. Cranberries average fruit set. Major farm activities: Harvesting hay, strawberries, early season vegetables. Applying herbicides, fertilizers.

**NEW JERSEY:** Temperatures above normal. Extremes 56°; 99°. Rainfall 0.48 in. north, 0.07 in. central, 0.02 in. south. Heaviest 24 hour total 1.08 in. on 8th, 9th. Estimated soil moisture, in percent field capacity, averaged 75% north, 55% central, 56% south. Four inch soil temperatures 76° north, 77° central, 78° south.

Days suitable for fieldwork 6. Limited rainfall, above normal temperatures have forced farmers to return to irrigating crops. Short to adequate topsoil moisture supply. Limited areas of southern areas received violent thunderstorms, hail on 3rd damaging crops. Harvest of peaches reported statewide. Blueberry harvest is peaking. Lodi, Jersey Mac apples are starting to be harvested. Good supply of summer squash, cucumbers, green beans, cabbage (all types). Moderate supply of beets, turnips, green onions. Increasing supply of tomatoes, cantaloupes, eggplants. Escarole, endive, spinach are declining in supply. Harvesting of sweet corn has started in southern areas. Combining of wheat, barley occurring. Hay cutting, including alfalfa, timothy, reported statewide. Pasture, range feed conditions are below normal, (70%).

**NEW MEXICO:** Temperatures continued to average 2 to 4° above normal across much of central, southern areas while northern areas enjoyed near seasonal readings, relief from the heat. Precipitation remained scant, generally ineffective as high evaporation rates continued. A few southern locations had brief heavy showers yielding nearly one-half inch. Other light showers were recorded northeastern, north central areas.

Days suitable for fieldwork 6.8. Soil moisture 97% short, 3% adequate. Cropland conditions: Alfalfa 4% poor, 19% fair, 65% good, 19% excellent. Irrigated wheat 40% fair, 53% good, 7% excellent. Dryland wheat 17% very poor, 33% poor, 50% fair. Chile was reported at 20% fair, 73% good, 7% excellent. Corn 9% poor, 9% fair, 65% good, 17% excellent. Irrigated sorghum was reported as 8% poor, 38% fair, 46% good, 8% excellent. Dryland sorghum was 14% very poor, 57% poor, 29% fair. Cattle, sheep conditions varied across the State from very poor to excellent. Range feed reported another drop to 57% of normal.

**NEW YORK:** Temperatures above normal. Highest readings lower 80s in the Adirondacks to upper 90s in the mid-Hudson Valley to New York City. Extremes 44°; 99°. Precipitation above normal. Widespread thunderstorms. Some places had very little rain, others totaled 2.50 to 3.00 in., isolated spots reported 3.00 to 6.00 in.

Days suitable for fieldwork 5.8. Soil moisture adequate to surplus, except on Long Island where supplies were short. Pasture feed 99% of normal. Corn planting ended. Crop in good condition. Oats maturing rapidly. Long Island potato harvesting began. Upstate fields blooming. Hay in good condition. Alfalfa first cutting 94% finished, 96% 1993, 87% avg. Clo-tim 83% harvested, 85% 1993, 81% avg. Dry beans 95% planted. Wheat maturing Upstate, harvest started on Long Island. Sweet corn harvest underway. Fresh market cabbage harvest began. Transplanting of storage cabbage continued. Strawberry harvest near completion in southern areas. Orange County onions in good condition, growing well. Fruit developing well, excellent size. Grapes show rapid development, good fruit set. Tart cherry harvest nearing completion.

**NORTH CAROLINA:** Mean temperatures 74° at Asheville to 83° at New Bern. Rainfall 0.69 in. at New Bern to none at several locations.

Days suitable for fieldwork 5.8. Soil moisture 8% very short, 30% short, 52% adequate, 10% surplus. Crop conditions: Wheat 2% poor, 18% fair, 76% good, 4% excellent; pasture 1% very poor, 7% poor, 35% fair, 54% good, 3% excellent; field tobacco 1% poor, 15% fair, 77% good, 7% excellent; corn 1% very poor, 4% poor, 22% fair, 63% good, 10% excellent; cotton 4% poor, 23% fair, 67% good, 6% excellent; peanuts 3% poor, 23% fair, 74% good; soybeans 1% very poor, 1% poor, 20% fair, 75% good, 3% excellent; hay 1% very poor, 7% poor, 28% fair, 61% good, 3% excellent; irish potatoes 4% poor, 15% fair, 81% good; sweet potatoes 25% fair, 70% good, 5% excellent; apples 19% fair, 74% good, 7% excellent; peaches 16% fair, 82% good, 2% excellent; truck crops 14% fair, 78% good, 8% excellent; hay, roughage supplies 1% very short, 24% short, 71% adequate, 4% surplus; irish potatoes harvested 91%, 67% 1993, 69% avg.; peaches harvested 68%, 39% 1993, 53% avg.; cotton squared 71%, 60% 1993, 65% avg.; bloomed 34%, 20% 1993, 22% avg.; corn silked 86%, 58% 1993, 67% avg.; soft dough 46%, 24% 1993, 35% avg.; soybeans flowered 7%, 5% 1993, 8% avg.; first cutting of hay is 98% complete with the second cutting 45% complete. Activities included: Harvesting peaches, truck crops, topping tobacco, cultivating crops. Other activities included: Harvesting hay, small grain; tending livestock; equipment repair, general farm maintenance.

**NORTH DAKOTA:** Wet, cool week across State with heavy precipitation over east central, southeast region. Rainfall 0.16 in. northwest to 5.20 in. east central. Temperatures 4 to 5° below normal. Extremes 41° northwest, north central; 97° north central.

Days suitable for fieldwork 4.7. Topsoil 7% short, 78% adequate, 15% surplus. Subsoil 6% short, 80% adequate, 14% surplus. Small grain development continued ahead of last year but slightly behind average. Spring wheat 1% very poor, 5% poor, 18% fair, 61% good, 15% excellent; durum 2% poor, 15% fair, 64% good, 20% excellent; barley 1% very poor, 3% poor, 16% fair, 62% good, 18% excellent; oats 3% very poor, 5% poor, 20% fair, 62% good, 10% excellent. Spring wheat 27% milk to dough and beyond, 14% 1993, 35% avg. Durum 10% milk to dough and beyond, 5% 1993, 20% avg. Barley 32% milk to dough and beyond, 21% 1993, 45% avg. Oats 32% milk to dough and beyond, 17% 1993, 38% avg. Late season crops in blooming stage ahead of last year and average. Flaxseed 1% poor, 14% fair, 67% good, 18% excellent; corn 2% very poor, 2% poor, 14% fair, 66% good, 16% excellent; dry edible beans 1% poor, 16% fair, 63% good, 20% excellent; soybeans 3% poor, 19% fair, 69% good, 9% excellent; sunflower 1% poor, 14% fair, 68% good, 17% excellent; sugarbeets 1% poor, 10% fair, 73% good, 16% excellent; potatoes 5% fair, 79% good, 16% excellent. Average height of late season crops: flaxseed 12 in., corn 37 in., dry edible beans 12 in., soybeans 14 in., sunflower 24 in., sugarbeets 19 in., potatoes 21 in., all ahead of average. Flaxseed 22% blooming and beyond, 14% 1993, 27% avg., dry edible beans 22% blooming and beyond, 3% 1993, 16% avg., soybeans 21% blooming and beyond, 0% 1993, 17% avg., potatoes 71% blooming and beyond, 50% 1993, 50% avg. Post emerged herbicide application for broadleaf control 95% complete, wild oats 98%. Range, pasture conditions 88% of normal, hay 85% of normal. Alfalfa hay first cutting 80% complete, other hay 43%. Stockwater supplies 2% short, 88% adequate, 10% surplus.

**OHIO:** Widespread moderate rains were common through the majority of the State with isolated heavy amounts. Some locations missed out on precipitation with totals of less than 0.50 in. On average rainfall was least in northeastern east-central, southwestern areas where the less than 0.50 in. amounts were common. Rainfall was uneven in coverage with pockets noting well more than 1.00 in. Temperatures well above normal. Mean readings in the mid 70s to near 80° were some 4 to 7° above the norm. Highs ranged in the mid to upper 80s with mean lows from the mid to upper 60s. Such warmth kept degree day accumulations running at an accelerated pace with totals since April 1st approximately 200 growing degree days above normal.

Days suitable for fieldwork 4.9. Soil moisture 14% short, 76% adequate, 10% surplus. Winter wheat harvest underway at 46%. Corn has twelve to fourteen leaves on average. Recent rains sustained vegetative growth. Hay 9% poor, 41% fair, 45% good, 5% very good. Alfalfa hay cutting 74% complete. Other hay cutting 21% complete. Pasture feed 2% very poor, 12% poor, 39% fair, 43% good, 4% excellent.

**OKLAHOMA:** Temperatures 2° below normal Panhandle, southwest to normal northeast. Precipitation none Panhandle to 5.19 in. southeast. Days suitable for fieldwork 6.4. Topsoil 63% short, 37% adequate. Subsoil 43% short, 57% adequate. Oats 99% harvested, 60% 1993, 95% avg.; 75% plowed, 25% 1993, 65% avg. Barley 100% harvested, 60% 1993, 95% avg.; 68% plowed, 35% 1993, 60% avg. Corn 8% fair, 88% good, 4% excellent; 82% tasseling, 49% 1993, 49% avg.; 27% milk-to-

soft, 10% 1993, 13% avg. Soybeans 85% up-to-stand, 64% 1993, 73% avg.; 16% flowering, 6% 1993, 5% avg. Peanuts 24% fair, 76% good, 97% up-to-stand, 96% 1993, 86% avg.; 28% pegging, 16% 1993, 28% avg. Pasture feed 85% normal. Cattle prices steady to slightly above preceding week.

**OREGON:** Temperatures near normal statewide, maximum temperatures 90° statewide, minimum temperatures 20s to mid 30° eastern sections. Precipitation mostly dry statewide, exception northeastern corner 0.25 to 1.00 in.

Soil moisture 49% short, 51% adequate. Winter wheat 4% very poor, 7% poor, 25% fair, 48% good, 16% excellent; 2% harvested. Barley 2% harvested. Hay activities continued statewide. Small grain harvest underway, Columbia Basin. Sugarbeets doing well, 66% rows closed. Summer fallow operation continued, eastern sections. Grass seed harvest continued, Willamette Valley. Potato crop good eastern sections. Garlic drying central sections. Onion crop excellent, Malheur County. Willamette Valley early green bean harvest underway, summer squash harvest underway, sweet corn in various stages from tasselling to near harvest, strawberry harvest complete, raspberry harvest past peak, blueberry harvest continued, Marion blackberries, Loganberries harvest underway, hazelnuts, walnuts sizing. Willamette Valley, The Dalles district sweet cherry harvest continued. Hood River Valley apple crop excellent, pear crop good, thinning winding down upper valley. Cranberry development: Bloom complete Stevins varieties, bloom winding down McFarlin, Crowley varieties, producers irrigating, fertilizing; southern coast. Livestock good to excellent. Range, pasture feed 83% of normal. Grasshopper continued to damage southeastern rangelands.

**PENNSYLVANIA:** Hot, humid week across the Commonwealth. Temperature above normal 18th week in a row. Scattered showers, thunderstorms across the State. Temperature 83°, 14° above normal. Extremes 51°, 99°. Precipitation 0.89 in., 0.01 in. below normal.

Days suitable for fieldwork 5. Soil moisture 26% short, 57% adequate, 17% surplus. Corn 100% planted, 100% 1993, 100% avg.; 0% silk, 3% 1993, 3% avg.; height 39 in., 34 in. 1993, 30 in. avg.; 4% poor, 22% fair, 47% good, 27% excellent. Tobacco 100% transplanted, 100% 1993, 99% avg. Soybeans 98% planted, 100% 1993, 95% avg.; 3% poor, 28% fair, 53% good, 16% excellent. Barley 100% heading or headed, 100% 1993; 95% turning yellow, 88% 1993; 81% ripe, 72% 1993; 72% harvested, 56% 1993. Wheat 100% heading or headed, 100% 1993; 86% turning yellow, 85% 1993; 60% ripe, 46% 1993; 16% harvested, 14% 1993; 2% poor, 23% fair, 52% good, 23% excellent. Oats 35% turning yellow, 42% 1993; 5% ripe, 3% 1993; 3% poor, 30% fair, 42% good, 25% excellent. Alfalfa first cutting 95% complete, 97% 1993. Second cutting alfalfa 39% complete, 47% 1993. Quality of hay made 8% poor, 37% fair, 55% good. First cutting timothy clover 80% complete, 92% 1993. Feed from pastures poor to fair. Apple 18% below avg., 69% avg., 13% above avg. Activities: Making hay; harvesting small grains; spraying corn; spreading fertilizer; hauling manure; caring for livestock.

**PUERTO RICO:** Rainfall 1.18 in. was 0.02 in. below normal. Highest total rainfall 5.26 in. at Maricao, 3.98 in. at Mayaquez, 3.11 in. at Adjuntas Aes. Island temperatures 80 to 81° on the coasts, 75 to 76° interior with mean station temperature 82.9° Coamo to 69.8° Pico del Este. Extremes 59°, 95°.

**SOUTH CAROLINA:** Rainfall 1.00 in. Temperatures slightly below normal Upstate to 1° above normal Midlands.

Days suitable for fieldwork 5.3. Soil moisture 20% short, 77% adequate, 3% surplus. Tobacco fair to good; 87% topped, 79% 1993, 80% avg.; 12% harvested, 5% 1993, 13% avg. Barley fair to good; 95% harvested, 93% 1993, 90% avg. Corn fair to good; 98% silked, 90% 1993, 89% avg.; 81% doughing, 48% 1993, 54% avg.; 27% mature, 16% 1993, 19% avg. Cotton 43% fair, 57% good; 86% squaring, 77% 1993, 78% avg.; 32% setting bolls, 36% 1993, 27% avg. Soybeans 4% poor, 35% fair, 61% good; 98% planted, 94% 1993, 95% avg.; 9% blooming, 8% 1993, 6% avg. Cantaloupes fair to good; 61% harvested, 57% 1993, 62% avg. Watermelons fair; 64% harvested, 56% 1993, 61% avg. Cucumbers fair to good; 86% harvested, 75% 1993, 78% avg. Tomatoes fair to good; 95% harvested, 92% 1993, 86% avg. Rye fair to good; 100% harvested, 90% 1993, 92% avg. Peaches fair to good; 40% harvested, 34% 1993, 41% avg. Sorghum fair to good; 90% planted, 89% 1993, 80% avg. Fall hay fair to good; 12% harvested, 19% 1993, 14% avg. Pasture feed fair to good.

**SOUTH DAKOTA:** Temperatures 2 to 8° below normal. Extremes 30°, 100°. Rainfall received over all of State. Greatest amounts central, north 2 to 4 in. Heaviest 8.09 in. north central.

Days suitable for fieldwork 5.3. Topsoil moisture 2% very short, 16% short, 64% adequate, 18% surplus. Subsoil moisture 4% very short, 22% short, 57% adequate, 17% surplus. Winter wheat 52% ripe, 0% 1993, 38% avg. Winter rye 6% poor, 23% fair, 65% good, 6% excellent; 88% turning color, 50% 1993, 81% avg.; 25% ripe, 0% 1993, 28% avg. Spring wheat 42% turning color, 15% 1993, 38% avg. Barley 6% poor, 44% fair, 45%

good, 5% excellent; 46% turning color, 16% 1993, 48% avg. Oats 1% very poor, 5% poor, 35% fair, 54% good, 5% excellent; 54% turning color, 18% 1993, 50% avg.; 17% ripe, 4% 1993, 20% avg. Flax 25% poor, 29% fair, 21% good, 25% excellent; 45% blooming, 30% 1993, 33% avg. Sunflower 2% poor, 5% fair, 90% good, 3% excellent. Corn avg. height 45 in., 17 in. 1993, 32 in. avg.; 8% tasseling, 0% 1993, 5% avg. Alfalfa 19% 2nd cutting, 3% 1993, 10% avg. Other hay 49% harvested, 24% 1993, 40% avg. Livestock 1% poor, 1% fair, 82% good, 16% excellent. Feed supply 11% short, 82% adequate, 7% surplus. Pastures 89% of normal. Water supply 4% short, 80% adequate, 16% surplus. Producers beginning winter wheat harvest.

**TENNESSEE:** Temperatures above normal in west, normal in east, slightly below along Plateau. All stations, except Nashville, recorded rain on at least two days, nearly all sites were drier than normal.

Days suitable for fieldwork 5.2. Soil moisture 16% short, 82% adequate, 2% surplus. Corn 59% tasseling, 51% 1993, 53% avg.; 2% dough, 1% 1993, 7% avg.; 8% fair, 73% good, 19% excellent. Cotton 96% squaring, 95% 1993, 78% avg.; 11% setting bolls, 11% 1993, 10% avg.; 4% fair, 83% good, 13% excellent. Sorghum 7% headed, 7% 1993, 10% avg.; 8% fair, 77% good, 15% excellent. Soybeans 98% planted, 97% 1993, 95% avg.; 6% blooming, 6% 1993, 7% avg.; 17% fair, 72% good, 11% excellent. Tobacco 18% fair, 80% good, 2% excellent. Wheat 98% harvested, 98% 1993, 95% avg. Alfalfa 84% 2nd cut., 88% 1993, 79% avg.; 1% poor, 14% fair, 80% good, 5% excellent. Other hay, 1% poor, 24% fair, 72% good, 3% excellent. Pasture feed 1% poor, 16% fair, 79% good, 4% excellent. Cattle, 7% fair, 91% good, 2% excellent.

**TEXAS:** A stalled cold front acted as the focusing mechanism for heavy thunderstorms in north-central Texas. Rainfall 5.00 to 7.00 in. fell in eight counties on the 10th, 11th enough to initiate flash flooding in the Dallas-Fort Worth metroplex. Besides north central Texas, above normal rainfall was reported in High Plains, Low Rolling Plains, East Texas, southern Texas over past 7 days. Remaining divisions in the State reported departures of -0.05 to -0.30 in. Some of the larger individual station totals were 4.72 in. at Dallas Love Field, 3.40 in. at Matador, although a number of cooperative stations reported much larger amounts. Temperature was near to above normal last week, except for the Low Rolling Plains, which reported a departure of -3°. The remaining divisions reported departures of 0 to 4° above normal, with the highest departures in the Trans-Pecos, Edwards Plateau (+4° each). Mean soil temperature last week ranged from the lower 80s to lower 90s. The range of mean soil temperature 81° at Bushland to 97° at San Angelo. The highest daily soil maximum temperature was 108° at Pecos, while the lowest daily minimum temperature was 63° at Bushland.

**Crops:** Corn plants were wilting due to heat in the Plains. Mites, corn bores were also becoming a problem in some fields. In Blacklands, South Texas, producers began harvest in a few fields that matured early due to extreme hot temperatures. Corn 83% normal, 82% 1993; 52% dough, 47% 1993; 38% dented, 28% 1993; 12% mature, 6% 1993; 3% harvested, 0% 1993. Cotton blowing sand, high winds in the Plains continued to cause problems for young cotton plants. Irrigated fields continued to make good progress, but development in many dryland fields was slowed due to heat. Cultivation, along with herbicide, insecticide applications, continued. In South Texas, cotton made good progress, as producers made preparations for harvest. Cotton 77% normal, 80% 1993; 6% setting bolls, 2% 1993. Peanuts in Cross Timbers benefitted from scattered showers, continued to make good progress. In the Plains, some fields showed signs of insect damage, while others were stressed due to high winds, dry conditions. Irrigated stands continued to make good progress. Peanuts 81% normal, 86% 1993; 97% planted, 84% 1993. Rice a few early fields in South Central Texas were harvested. Elsewhere, rice made good progress. Rice 92% normal, 85% 1993. Sorghum planting was completed in the Plains, but growth was slowed in many fields due to lack of moisture. Sorghum harvest continued in Blacklands but was slowed due to lodging of many fields. Harvest continued in full swing across most of South Texas and was virtually complete in Rio Grande Valley. Sorghum 80% normal, 82% 1993; 54% turning color, 41% 1993; 38% mature, 20% 1993; 19% harvested, 4% 1993. Soybeans planting activities were completed. Soybeans continued to make good progress, showed signs of stress due to extreme hot temperatures. Producers were spraying to control stink bugs in Upper Coast. Soybeans 100% planted, 96% 1993. Small grains: Wheat harvest began to wind down in the Plains, with most producers plowing fields, making preparations for fall plantings. Wheat 96% harvested, 90% 1993. Oats 82% harvested, 74% 1993. Sunflowers 95% planted, 90% 1993.

**Commercial Vegetables:** Rio Grande Valley peppers made good progress, as irrigation activities increased. Producers continued to prepare fields for fall plantings. San Antonio-Winter Garden: preparations continued for fall cabbage planting. Watermelon, cantaloupe harvest remained active. Trans-Pecos: cantaloupe harvest was in full swing. East Texas: tomato, okra, sweet corn, watermelon, cantaloupe harvest remained active. Blueberry harvest also made good

progress. Producers began preparing land for fall vegetable plantings. High Plains: early onion harvest continued, and later planted fields continued to make good progress. Peach harvest activities of most of the early varieties was nearly completed. Late variety peaches in Edwards Plateau continued to size well, make good progress. Pecan crop in the Blacklands continued to develop and made good progress. Scouting activities began for second generation casebearer. Many trees across the state were dropping nuts due to extreme hot and dry conditions. Irrigation increased in areas where available.

**Range and Livestock:** Extreme hot temperatures, high winds, very little rain caused range, pasture conditions to decline. Hay cutting, baling continued, began to decrease. With increased supplemental feeding, livestock remained in fair to good condition.

**UTAH:** Temperature maximums 1° above normal; minimums were average. Precipitation light across most of the State. There were only traces of precipitation recorded for Western, Dixie, North Central divisions.

Days suitable for fieldwork 6.9. Soil moisture 99% short, 1% adequate. Irrigation water supply 7% very short, 60% short, 33% adequate. Stockwater supply 6% very short, 72% short, 22% adequate. Hay, roughage supplies 26% short, 71% adequate, 3% surplus. Spring wheat ripe 33%, 7% 1993, 15% avg. Barley ripe 30%, 9% 1993, 20% avg. Oats: jointed 93%; heading or better 70%, 67% 1993, 75% avg.; harvested hay/silage 47% completed, 16% 1993. Winter wheat: ripe 61%, 30% 1993, 36% avg.; harvested 7%. Corn height 33 in., 28 in. 1993, 31.9 in. avg. Alfalfa hay 2nd cutting 28% completed, 18% 1993, 24% avg. Other hay cutting 61% completed, 52% 1993, 51% avg. Sweet cherries 99% picked. Tart cherries 13% picked. Pasture, range feed conditions poor to fair. Major farm activities were irrigating, harvesting alfalfa, oats hay/silage, grass hay, barley, wheat, cherries, apricots. A few counties have reported that farmers have run out of irrigation water. All counties have reported very dry conditions.

**VIRGINIA:** Temperatures above normal. Extremes 56°; 99°. Rainfall varied, 0.02 to 2.09 in.

Days suitable for fieldwork 6.3. Topsoil 18% very short, 62% short, 20% adequate. Pasture feed 8% very poor, 31% poor, 53% fair, 8% good. Alfalfa hay 19% poor, 58% fair, 23% good. Other hay 4% very poor, 31% poor, 64% fair, 1% good. Apple 6% poor, 37% fair, 57% good. Flue tobacco 17% poor, 46% fair, 37% good. Burley tobacco 20% fair, 30% good, 50% excellent. Fire tobacco was 24% fair, 76% good. Sun tobacco 100% fair. Corn 7% very poor, 25% poor, 45% fair, 23% good. Soybeans 1% very poor, 13% poor, 56% fair, 24% good, 6% excellent. Peanuts 66% fair, 34% good. Cotton 40% fair, 60% good. Wheat 86% harvested, 90% 1993, 89% avg. Barley 99% harvested, 99% 1993, 98% avg. Potatoes 23% harvested, 25% 1993, 45% avg. Oats 78% harvested, 86% 1993, 82% avg. Tobacco topping, irrigating. Peanut growers were applying land plaster, spraying for leaf spot, rootworm. Irrigating, harvesting vegetables was active. Spraying fruit trees.

**WASHINGTON:** Temperatures 3° below normal to 2° above normal west; 5° below normal to 1° above normal east. Precipitation 0.02 to 0.39 in. west; none to 0.65 in. east.

Days suitable for fieldwork 6.7. Soil moisture 52% short, 48% adequate. Hay, other roughage supplies 7% short, 83% adequate, 10% surplus. Range, pasture feed 5% very poor, 41% poor, 31% fair, 21% good, 2% excellent. Winter wheat dryland 15% poor, 30% fair, 50% good, 5% excellent; irrigated 87% good, 13% excellent. Spring wheat dryland 2% very poor, 32% poor, 43% fair, 23% good; irrigated 2% fair, 85% good, 13% excellent. Barley dryland 5% very poor, 15% poor, 50% fair, 30% good; irrigated 1% fair, 99% good. Potatoes 2% fair, 98% good. Dry edible beans 100% good. Corn 1% fair, 99% good. Winter wheat 3% harvested, 0% 1993, 3% avg. Spring wheat 99% headed, 85% 1993, 97% avg.; 1% harvested, 0% 1993, 1% avg. Barley 99% headed, 86% 1993, 97% avg.; 2% harvested, 0% 1993, 3% avg. Potatoes 3% harvested, 0% 1993, 2% avg. Alfalfa, second cutting, 60% complete, 34% 1993, 43% avg. Potato harvest began. First cutting of alfalfa winding down. Cherry, apricot, peach harvests continued. Sweet corn, cucumbers, summer squash, leafy vegetables, zucchini harvests underway. Lower elevation ranges continue to dry out with the hot weather.

**WEST VIRGINIA:** Temperatures 77°. Extremes 58°; 104°. Precipitation 1.04 in.

Days suitable for fieldwork 4.7. Soil moisture 31% short, 69% adequate. Barley good; harvested 99%, 100% 1993, 74% avg. Wheat 3% fair, 97% good; ripe 93%, 93% 1993, 88% avg.; harvested 26%, 24% 1993, 33% avg. Hay 5% poor, 38% fair, 46% good, 11% excellent; first cutting 92%, 89% 1993, 79% avg.; second cutting 7%, 13% 1993, 15% avg. Apples 50% poor, 50% fair. Peaches 100% very poor. Corn 5% poor, 53% fair, 42% good; emerged 100%, 100% 1993, 100% avg. Oats 26% fair, 74% good; ripe 43%, 38% 1993. Tobacco 24% fair, 76% good; gardens 5% poor, 37% fair, 50% good; emerged 97%, 100% 1993, 94% avg. Soybeans 50% fair, 50% good; planted 100%, 95 1993; 99% emerged, 90% 1993. Pasture feed 12% poor, 55% fair, 33% good; 82% of normal. Cattle 5%

poor, 15% fair, 80% good. Sheep 44% fair, 56% good. Farm activities: Cutting hay, harvesting barley, gardening, planting.

**WISCONSIN:** Temperature 70°. Equal to normal. Extremes 38°; 97°. Precipitation 1.50 to 3.40 in.

Days suitable for fieldwork 2.8. Soil moisture 5% short, 74% adequate, 21% surplus. Pasture feed 80%, 90% 1993, 75% avg. General condition of crops: 4% fair, 81% good, 15% excellent. Average height of corn 55 in., 18 in. 1993, 35 in. avg. Corn silking 12%, 0% 1993, 3% avg. Corn 3% fair, 38% good, 59% excellent. Oats 1% very poor, 2% poor, 23% fair, 68% good, 6% excellent; 92%, 49% 1993, 78% avg. Soybean 7% fair, 67% good, 26% excellent. First cutting hay harvested 94%, 71% 1993, 87% avg. With "this past week of rain, hot weather it's been stand back, watch the growth in all crops," stated a Taylor county reporter. Corn grew 14 inches in only one week's time and tassels are starting to appear. Soybeans are beginning to set flowers. First cutting hay is nearly complete, second crop is underway. Rain, humidity have hindered harvest. Winter wheat is nearing harvest with some reports of lodging due to winds, heavy rains. Potato crop is in bloom, there is talk about digging within the next ten days. Late snap bean planting was halted due to excess rain. Fruit trees are showing signs of winter damage.

**WYOMING:** Temperatures slightly below normal across the State. Sheridan was the warm spot averaging 3° above normal, Diversion Dam, Jackson averaged 4° below normal. Precipitation was below normal for the Southern half of the State while the Northern half was above normal. Alva, Colony received the largest amounts of precipitation at 2.08 in., 2.15 in., respectively.

Days suitable for fieldwork 5.8. Topsoil moisture 81% short, 19% adequate. Winter wheat 82% mature, 1% 1993, 8% avg.; 12% harvested, 0% 1993, 1% avg. Spring wheat 64% turning color, 7% 1993, 17% avg.; 4% mature, 0% 1993, 2% avg. Oats 22% turning color, 5% 1993, 7% avg.; 6% mature, 0% 1993, 1% avg. Barley 40% turning color, 16% 1993, 23% avg.; 2% mature, 3% 1993, 3% avg. Average corn height 45 in., 21 in. 1993. Corn 8% tasseled, 0% 1993, 3% avg. Dry beans 38% bloomed, 1% 1993, 10% avg. Winter wheat 3% poor, 96% fair, 1% good. Barley 4% poor, 16% fair, 80% good. Oat 19% poor, 33% fair, 48% good. Spring wheat 18% poor, 59% fair, 23% good. Sugarbeet 1% fair, 76% good, 23% excellent. Corn 2% poor, 2% fair, 96% good. Dry bean 13% fair, 87% good. Alfalfa 89% first cutting, 60% 1993, 70% avg.; 4% second cutting, 0% 1993, 0% avg. Other hay 46% acreage harvested, 27% 1993, 29% avg. Irrigation water supplies 49% short, 51% adequate. Stockwater supplies 50% short, 50% adequate.

(Continued from p. 13)

**SPRING WHEAT HEADED**

ID	Current	Last Wk	1993	Avg.
AR	87	73	41	69
MN	99	96	84	91
MT	79	40	24	49
ND	69	47	61	78
SD	100	99	86	97
5 States	79	61	61	78

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

**COTTON SQUARING**

	Current	Last Wk	1993	Avg.
AL	81	70	75	87
AZ	100	99	97	98
AR	99	96	88	90
CA	85	60	85	88
GA	96	88	92	88
LA	98	91	87	85
MS	97	95	83	87
MO	97	93	91	85
NM	74	54	43	66
NC	71	55	60	65
OK	57	42	56	34
SC	86	76	77	78
TN	96	89	95	78
TX	69	57	69	54
14 States	82	71	78	71

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

**SOYBEANS BLOOMING**

	Current	Last Wk	1993	Avg.
AL	12	10	13	13
AR	17	5	15	11
GA	27	16	14	15
IL	38	14	13	33
IN	33	9	16	23
IA	55	22	6	19
KS	30	10	5	15
KY	11	4	8	10
LA	21	9	19	15
MI	15	2	15	15
MN	50	16	0	16
MS	31	28	5	11
MO	24	9	5	16
NE	42	11	4	13
NC	7	4	5	8
OH	34	12	28	29
SC	9	5	8	6
SD	33	20	3	17
TN	6	2	6	7
19 States	35	13	10	19

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

**WINTER WHEAT HARVESTED**

	Current	Last Wk	1993	Avg.
AR	95	92	97	98
CA	90	75	80	85
CO	94	70	27	36
GA	100	99	100	99
ID	1	0	0	0
IL	85	54	62	79
IN	48	19	43	54
KS	100	100	60	85
MI	0	0	0	10
MO	89	64	34	75
MT	0	0	0	0
NE	72	43	3	38
NC	96	89	97	93
OH	46	1	16	31
OK	100	99	89	95
OR	2	0	1	3
SD	7	0	0	9
TX	96	90	90	92
WA	3	0	0	3
19 States	74	65	49	62

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

**COTTON SETTING BOLLS**

	Current	Last Wk	1993	Avg.
AL	19	9	20	23
AZ	71	55	70	75
AR	38	10	14	18
CA	15	5	15	15
GA	39	22	32	33
LA	75	38	44	39
MS	50	34	21	30
MO	17	7	4	8
NM	53	26	32	38
NC	34	10	20	22
OK	0	0	3	4
SC	32	17	36	27
TN	11	7	11	10
TX	26	19	19	16
14 States	32	19	21	21

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

**RICE HEADED**

	Current	Last Wk	1993	Avg.
AR	8	5	0	0
CA	0	0	0	0
LA	42	39	36	42
MS	10	7	8	12
TX	50	36	11	40
5 States	18	14	9	13

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

# International Weather and Crop Summary

## HIGHLIGHTS

July 3 - 9, 1994

**FSU-WESTERN:** Rain is needed in Ukraine and North Caucasus in Russia for summer crop development.

**FSU-NEW LANDS:** Growing conditions improved for spring grains over Kazakhstan and Western Siberia.

**EUROPE:** Generally favorable harvest weather prevailed in the south and west.

**CANADA:** Cooler, drier weather dominated the Prairies, slowing crop growth and exacerbating dryness in the southwest.

**AUSTRALIA:** Drought delayed eastern wheat planting past the optimum date.

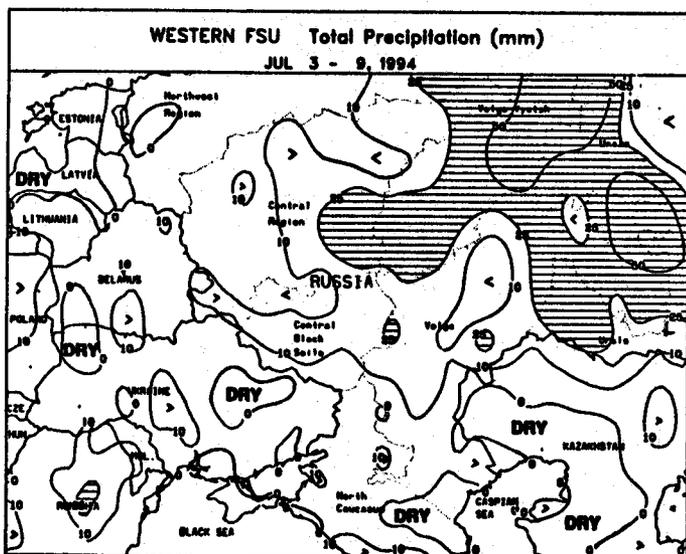
**SOUTH ASIA:** Monsoon showers, while causing some flooding, benefited most major grain, oilseed, and cotton areas.

**SOUTHEAST ASIA:** Widespread rain, although less than in recent weeks, covered most primary rice areas of Indochina.

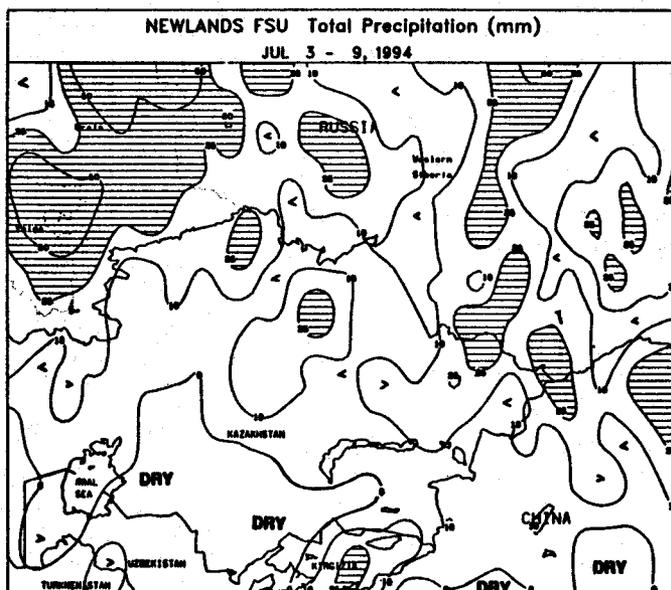
**EASTERN ASIA:** Rain continued to benefit summer crops across the North China Plain and Manchuria.

**SOUTH AMERICA:** Scattered frost occurred across Brazil's main coffee areas, likely causing some additional damage.

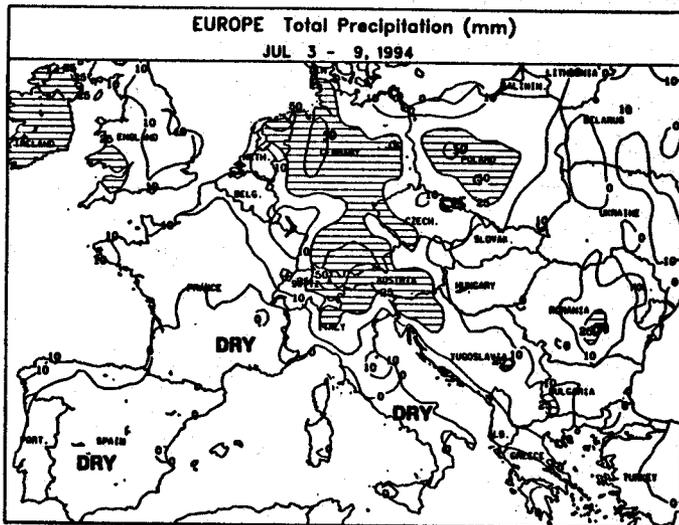
**MEXICO:** Beneficial rain fell across the western corn belt, while slightly cooler weather prevailed across the north.



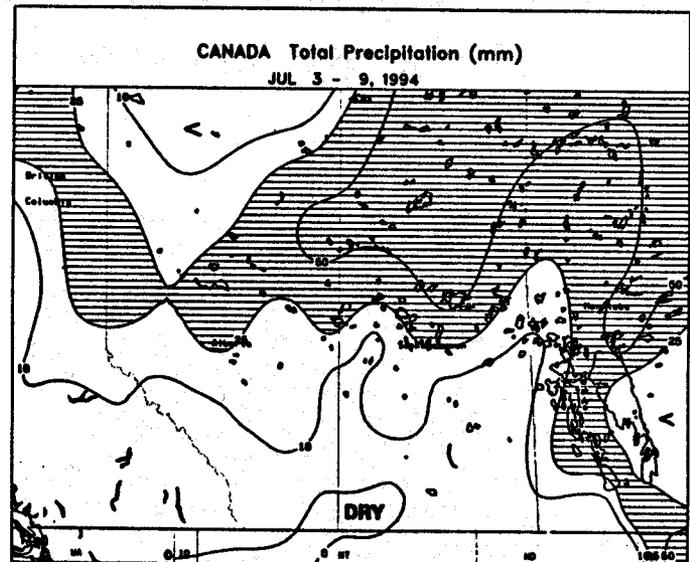
**FSU-WESTERN:** In Russia, widespread light to moderate rain (10-30 mm, with local amounts in excess of 40 mm) continued over the eastern portion of the Central Region, middle and Volga Valley, parts of the Central Black Soils Region, and Volga Vyatsk. The moisture benefited winter grains in the filling stage and spring grains entering reproduction. However, more northeastern areas are becoming too wet and drier weather is needed. Elsewhere, little, if any, rain fell over the Baltic States, Belarus, Ukraine, and North Caucasus in Russia. While this past week's dry weather over Ukraine and North Caucasus was beneficial for maturing winter grains, the dryness has persisted for 3 consecutive weeks, limiting moisture for filling spring grains, and corn and sunflowers approaching reproduction. Weekly average temperatures were 2-4 degrees Celsius (C) below normal over Russia and eastern Ukraine, slowing crop development.



**FSU-NEW LANDS:** Scattered showers and seasonable temperatures prevailed over Kazakhstan and adjacent areas of Western Siberia in Russia, improving growing conditions for spring grains in or nearing reproduction. Precipitation amounts varied around 10 mm in Kazakhstan and 10-25 mm in Western Siberia. Subsoil moisture in these areas remained unfavorably low, and timely follow-up rains are needed in upcoming weeks to prevent significant declines in crop yield potential. Elsewhere, wet weather (25-50 mm, with local amounts in excess of 50 mm) over Urals and eastern Volga Valley in Russia continued to provide abundant moisture for spring grains nearing the heading stage. However, continued unseasonably cool weather (weekly average temperatures 1-4 degrees C below normal) slowed crop development. In cotton areas of Central Asia, seasonably hot, dry weather covered irrigated cotton. The cotton crop usually begins flowering in July.



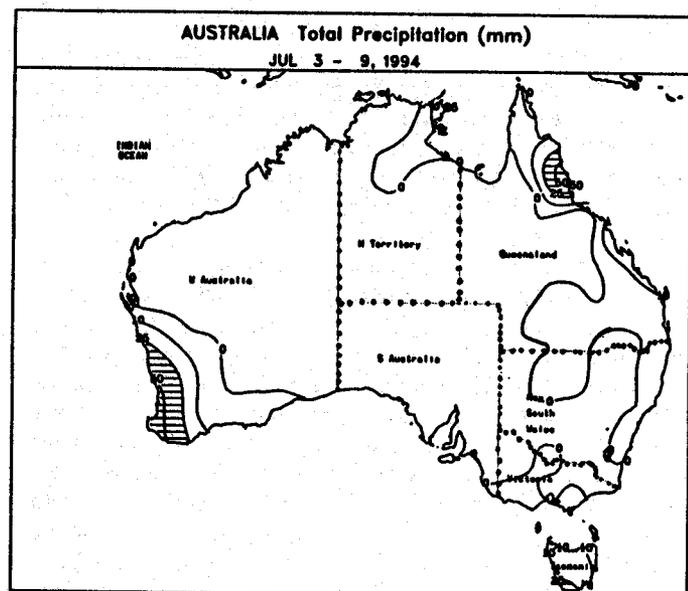
**EUROPE:** Generally dry weather in France, Spain, and most of Italy favored winter grain harvesting. Showers were also light in east-central Europe, including the Slovak Republic, Hungary, and western Romania, where corn is in the reproductive phase. Mostly light showers helped immature crops in England, but soil moisture is diminishing in northern France. Substantial rain (25-50 mm) benefited immature winter crops and summer crop development in Germany, southern Poland, and western portions of the Czech Republic. Mostly dry weather prevailed over Scandinavia. Weekly temperatures averaged slightly above normal across Europe.

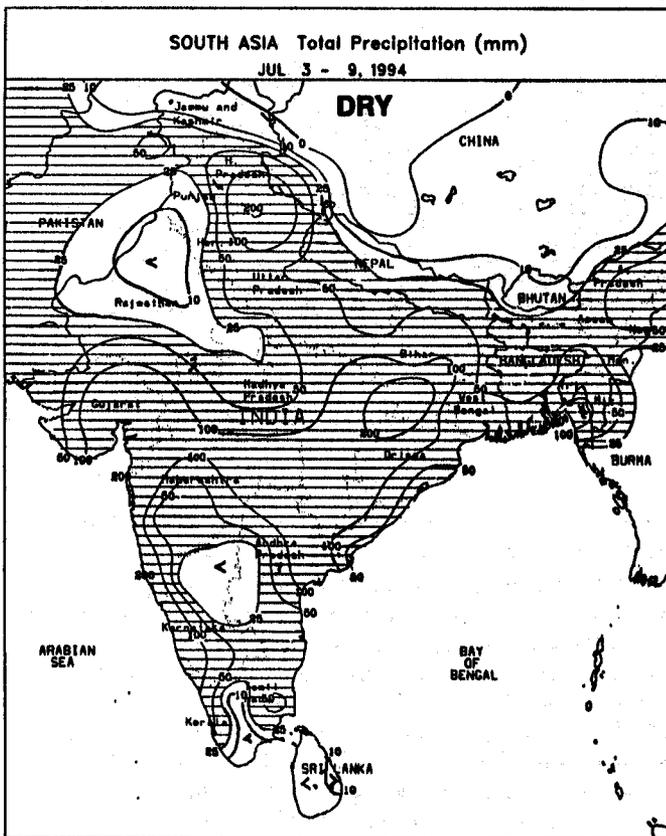


**CANADA:** Cool weather, accompanied by mostly light rain, dominated the Prairies. Temperatures 1-3 degrees C below normal slowed grain and oilseed growth, reducing crop moisture demands. However, no rain fell over a large area of the southwest, where moisture is limited for crops in or nearing reproduction. Elsewhere, rainfall exceeded 25 mm only in northern Alberta (including the Peace River Valley) and Manitoba's Lake Regions (32-69 mm). In the east, warm weather (1-3 degrees C above normal), accompanied by scattered showers (5-35 mm), benefited corn, soybeans, and winter wheat in Ontario and Quebec.

**Correction:** Last week's text was inadvertently truncated, and should have concluded with the following sentences: "Crops were entering reproduction throughout the Prairies, necessitating rain soon in the driest areas. In Ontario and Quebec, moderate to heavy rain (15-95 mm) covered the major crop areas, further improving moisture reserves for corn, soybeans, and winter wheat."

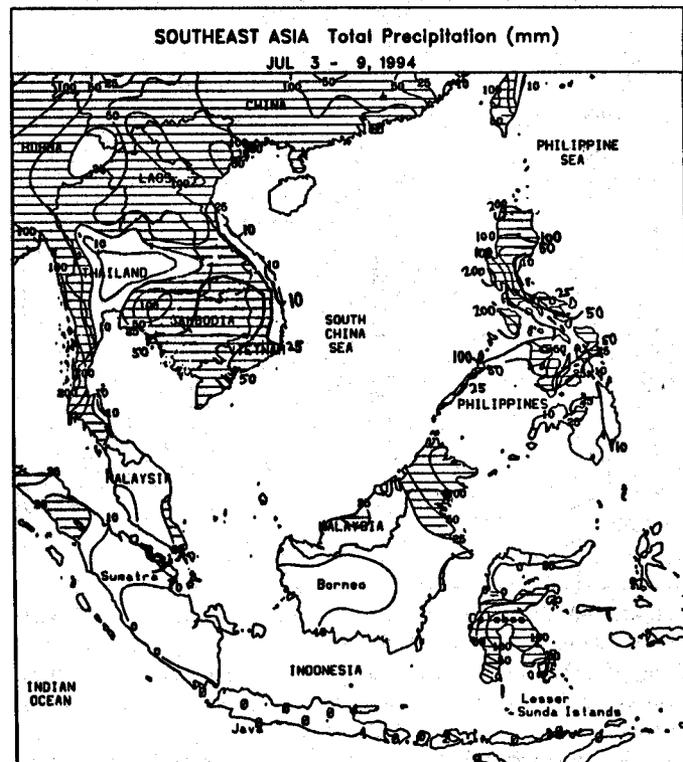
**AUSTRALIA:** The drought continued across Queensland and northern New South Wales, delaying wheat planting past the optimum dates. Mid-July is usually the latest that wheat can be planted, thus some acreage will probably not be planted. The lack of rainfall caused poor establishment of the eastern wheat already planted. Little or no rain fell across the remaining eastern and southern wheat areas. Western Australia received light to moderate rain (10-40 mm), keeping soils moist for vegetative wheat. Temperatures averaged 2-4 degrees C above normal across most wheat areas. Rainfall has been near normal for the last 6 weeks across most of New Zealand, favoring pastures.



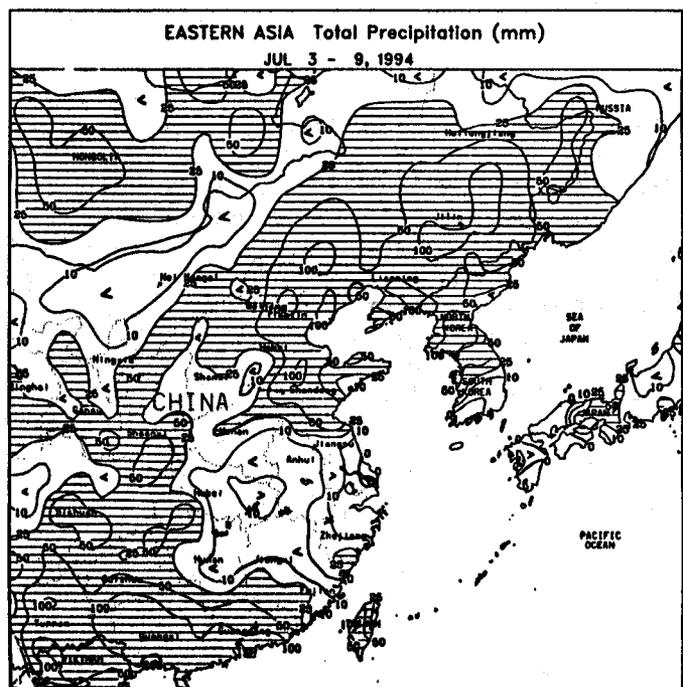


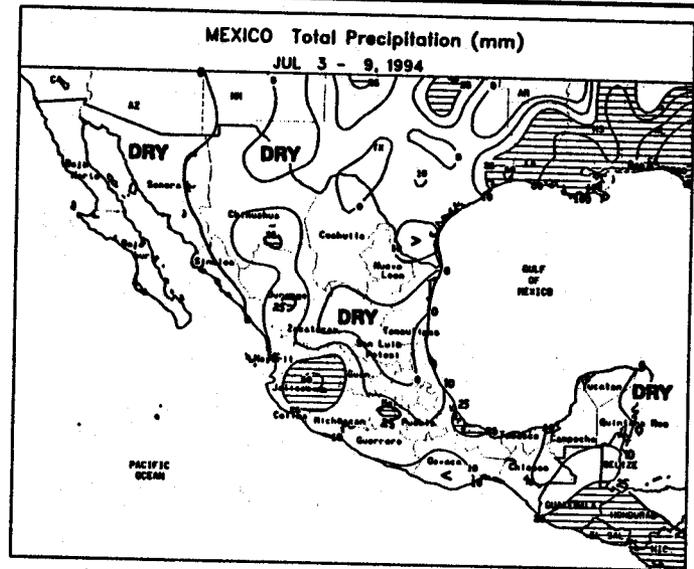
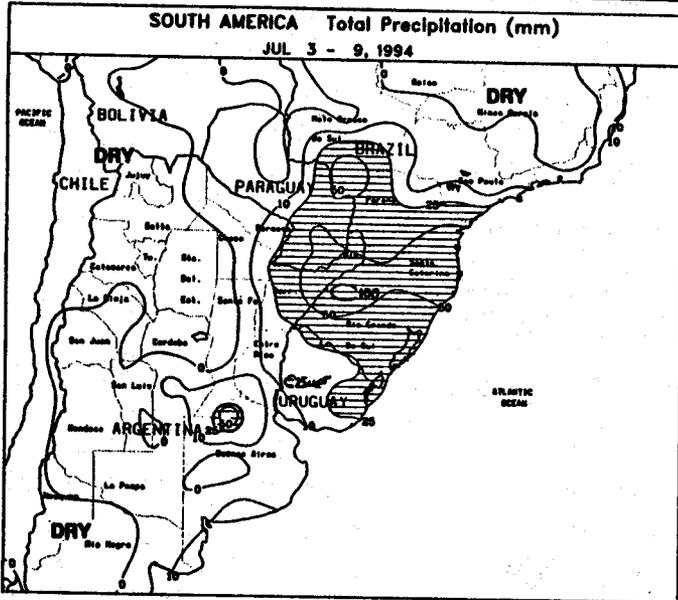
**SOUTH ASIA:** Moderate to heavy showers (50-100 mm or more) continued over primary grain, oilseed, and cotton areas of eastern, central, and northern India. The rains increased moisture available to establishing crops but caused some flooding, especially in eastern rainfed rice areas (Bihar and Orissa) where inundating rains (150-350 mm) were concentrated. Light to moderate showers (10-45 mm) returned to India's southern interior. In Pakistan, showers were scattered throughout central and northern crop areas. The monsoon usually reaches Pakistan by mid-July.

**EASTERN ASIA:** Moderate to heavy showers (25-110 mm, with isolated showers greater than 150 mm) fell across Manchuria and most of the North China Plain, benefiting corn, cotton, soybeans, and sugar beets. Increased rain the last several weeks has greatly improved crop establishment for summer crops across the region. However, portions of Anhui and Hubei are becoming somewhat dry. Moderate showers (20-70 mm) aided summer crops in Sichuan. A weak tropical depression produced widespread heavy rain (75-150 mm, with isolated amounts greater than 200 mm) across most of Guangxi and western Guangdong, exacerbating flooding in those areas. Southeast China received beneficial light to moderate rain (5-25 mm), helping flooding to subside. Typhoon Tim hit Taiwan and southeast China on July 10. More details will be included in next week's summary. Temperatures averaged 3-6 degrees C above normal across east-central China, with maximum temperatures ranging from 35 to 40 degrees C. The remainder of China reported near-normal temperatures. Heavy showers (50-150 mm) fell across northern South Korea and southern North Korea. Southern Japan received little or no rain, while central and northern Japan received 10-60 mm of beneficial rain. Temperatures averaged 3-5 degrees C above normal across South Korea and southern and central Japan.



**SOUTHEAST ASIA:** Rainfall tapered off across Indochina, although moderate to heavy showers (25-50 mm or more) continued over major rice areas in northern and northeastern Thailand and the Mekong Delta. Mostly dry, warm weather covered central Thailand's corn and sugarcane areas. Local heavy showers (50-100 mm or more) dotted the Thai peninsula, but unseasonably light rain (less than 25 mm) covered Malaysia's oil palm and rice areas. Dry weather persisted over Java. In the Philippines, two tropical systems (Typhoon Tim and Tropical Storm Vanessa) brought heavy rain (100-200 mm or more) and localized flooding to rice and corn areas of northern Luzon. Scattered showers elsewhere benefited rice, corn, and sugarcane.

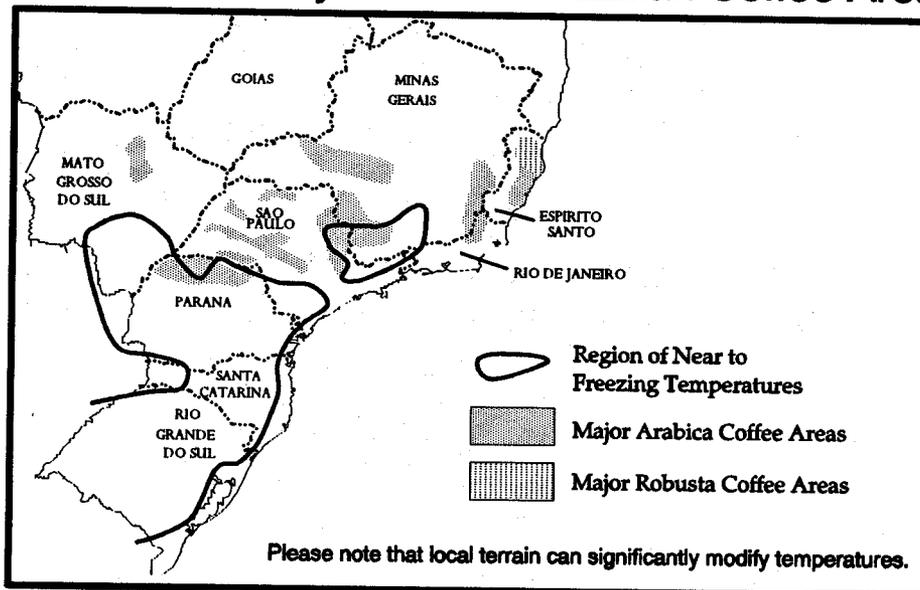




**SOUTH AMERICA:** Scattered light frost occurred across the coffee areas of Parana, Sao Paulo, and Minas Gerais on the morning of July 10, likely causing some additional damage. This recent frost occurred in basically the same areas as the June 26-28 frost. Moderate to heavy showers (20-100 mm) fell across Rio Grande do Sul and southern Parana, keeping vegetative wheat well watered. In Argentina, scattered showers (3-17 mm, with an isolated amount greater than 50 mm) fell across Buenos Aires and southern Santa Fe, favoring vegetative wheat. However, minimum temperatures ranged from -2 to -7 degrees C across the wheat belt, burning back wheat and slowing early growth. Temperatures averaged 2-4 degrees C below normal across Argentina and southern Brazil.

**MEXICO:** Beneficial showers (10-60 mm) fell across the western corn belt, aiding germinating to vegetative summer crops. Lighter showers (7-25 mm) prevailed across the central and eastern corn belt, where rainfall has been near normal. Cooler weather prevailed across the north (maximum temperatures ranged from 37 to 42 degrees C) as the western Sierra Madre received 10-30 mm of rain. Temperatures averaged 1-3 degrees C above normal across the country.

### Region of Frost on July 9 & 10 in Brazilian Coffee Areas



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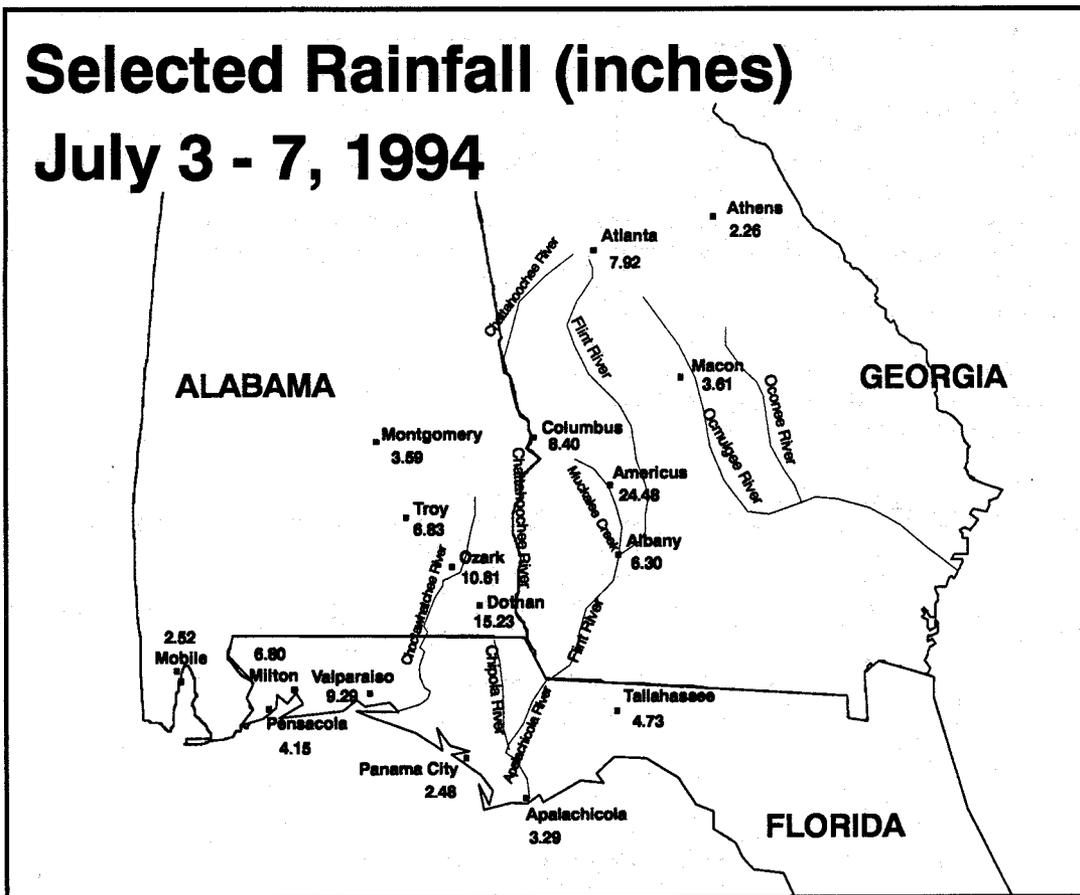
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# Selected Rainfall (inches)

## July 3 - 7, 1994



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