

# WEEKLY WEATHER AND CROP BULLETIN

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

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

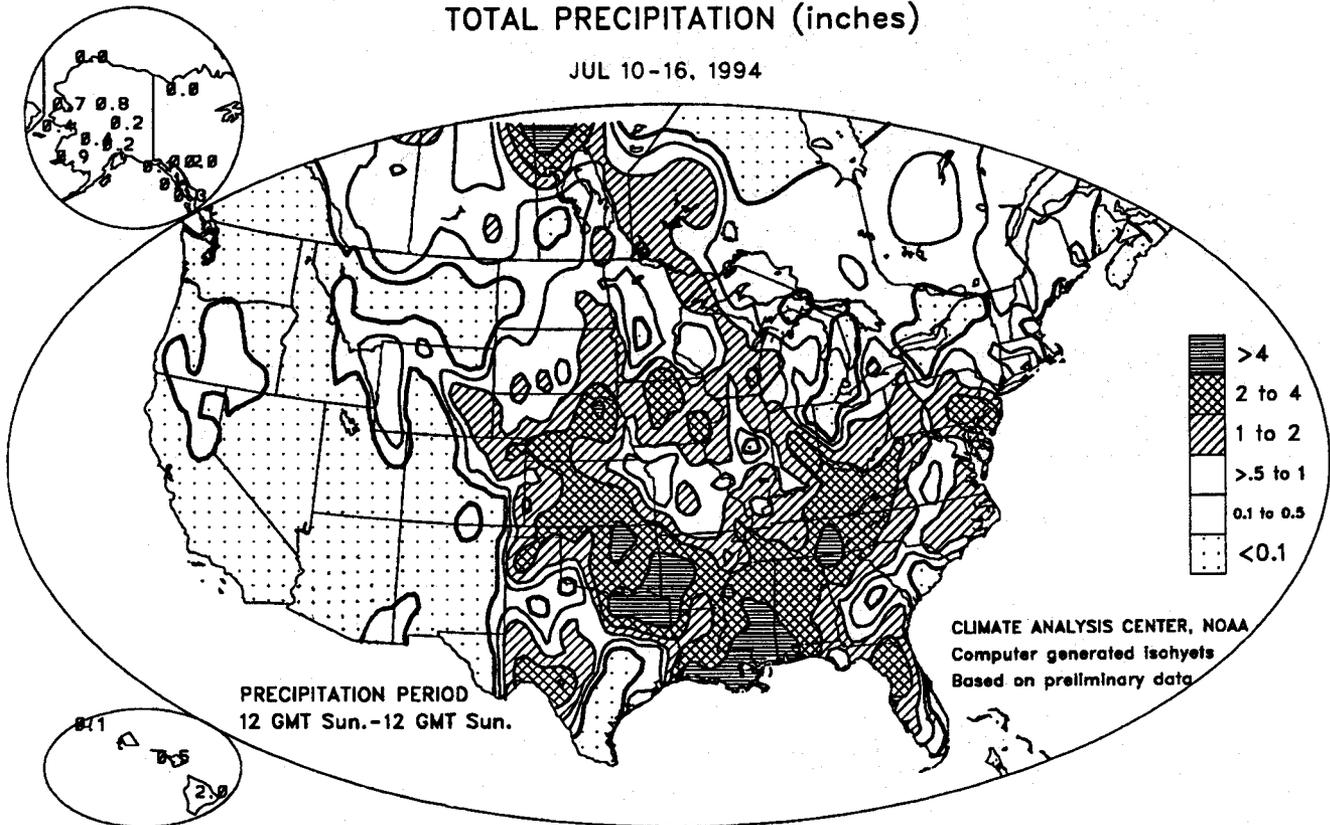
Volume 81, No. 29

Washington, D.C.

July 19, 1994

## TOTAL PRECIPITATION (inches)

JUL 10-16, 1994



## HIGHLIGHTS

July 10 - 16, 1994

Several disturbances rippled along an east-west frontal boundary draped from the central Plains to the east coast. South of the front, heavy to excessive rainfall plagued areas from eastern Oklahoma to the Mississippi Delta. Farther north, conditions remained generally favorable for Corn Belt crops, with high temperatures in the 80's and midweek rainshowers. Early in the week, cool, dry weather covered the Nation's northeastern quadrant, heat fleetingly appeared in the High Plains, and humid, showery conditions hindered clean-up efforts in areas flooded by tropical storm Alberto's remnants. On Monday, Mansfield, OH set a daily record low with 49°F, and Casper, WY (101°F) came within 3°F of an all-time record high. Also on Monday, Dothan, AL endured more than 1 inch of rain, and continued to receive showers until Thursday. In Atlanta, GA, near the headwaters of the

(Continued to p. 8)

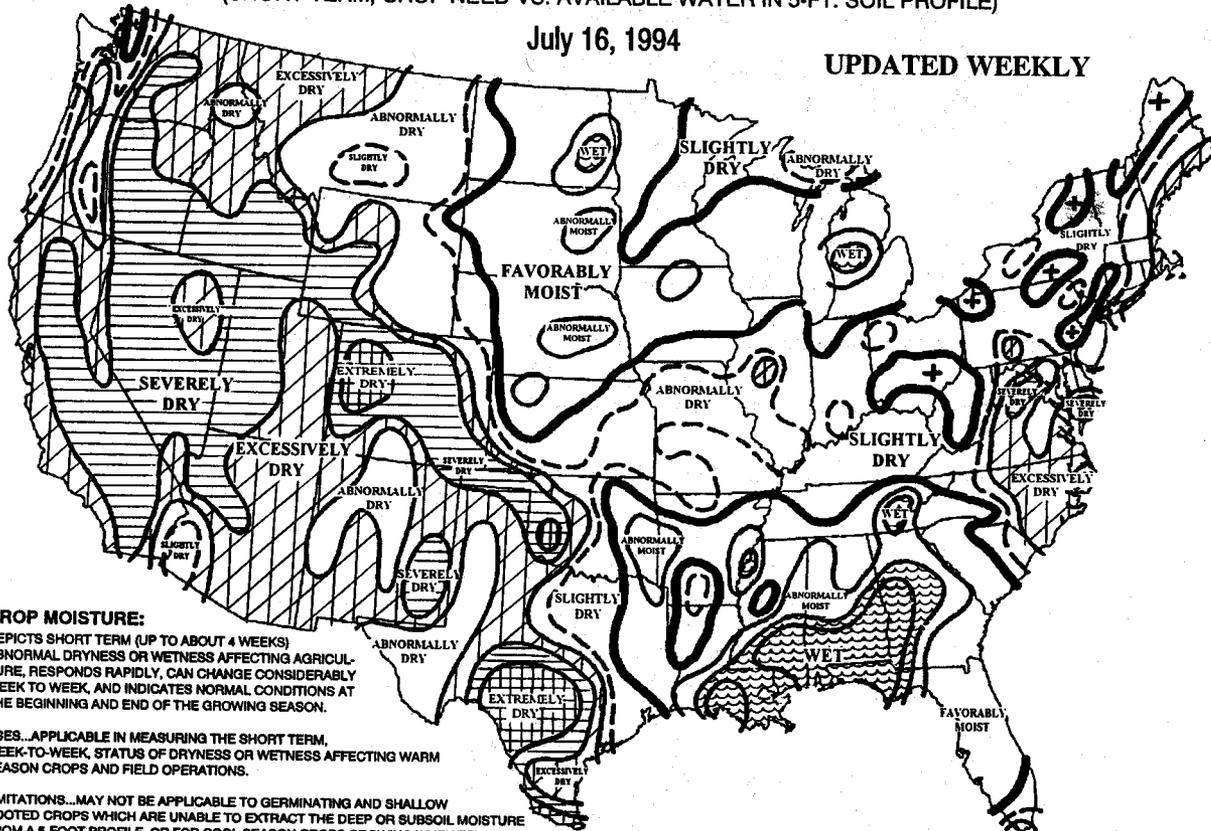
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**CROP MOISTURE**  
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)

July 16, 1994

UPDATED WEEKLY



**CROP MOISTURE:**

DEPICTS SHORT TERM (UP TO ABOUT 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK, AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND END OF THE GROWING SEASON.

USES...APPLICABLE IN MEASURING THE SHORT TERM, WEEK-TO-WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS.

LIMITATIONS...MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A 5-FOOT PROFILE, OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 55°F. IT IS NOT GENERALLY INDICATIVE OF THE LONG TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX.

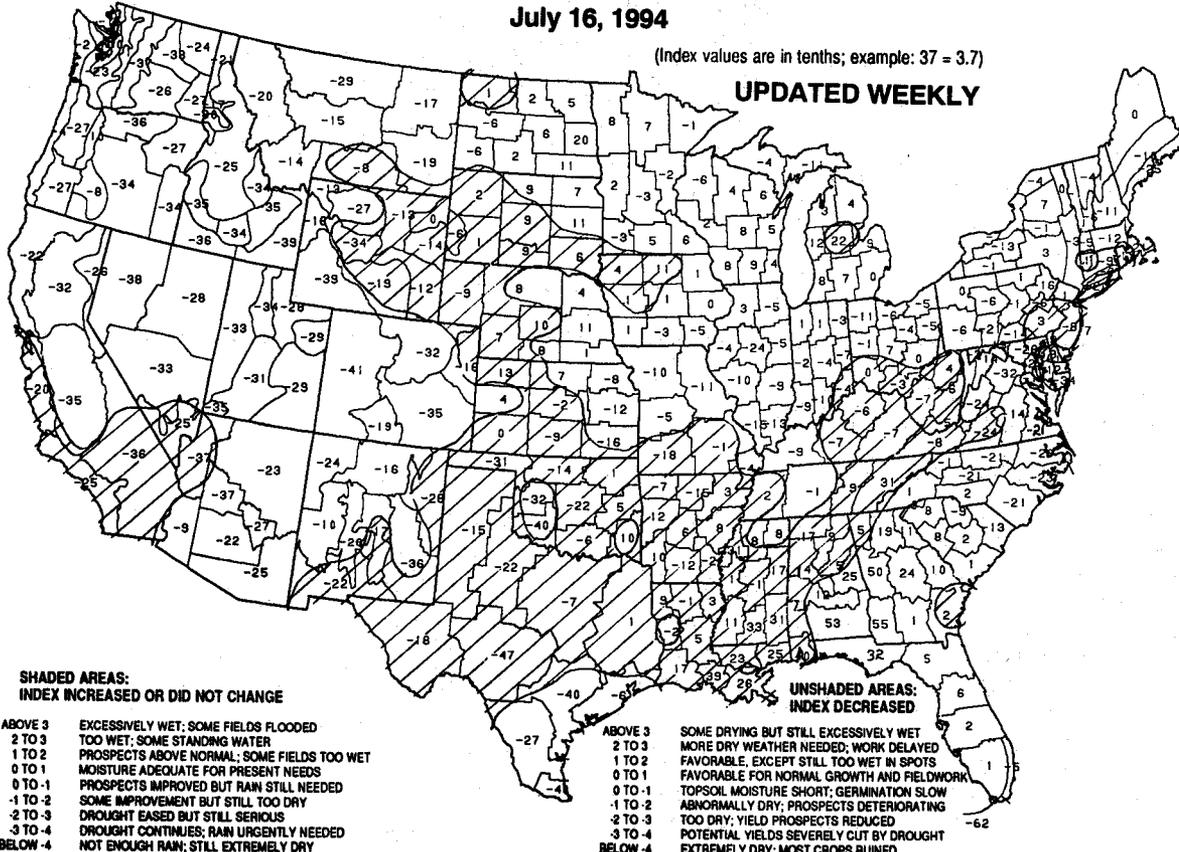
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

**CROP MOISTURE INDEX**  
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)

July 16, 1994

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

UPDATED WEEKLY



**SHADED AREAS:**

INDEX INCREASED OR DID NOT CHANGE

- ABOVE 3 EXCESSIVELY WET; SOME FIELDS FLOODED
- 2 TO 3 TOO WET; SOME STANDING WATER
- 1 TO 2 PROSPECTS ABOVE NORMAL; SOME FIELDS TOO WET
- 0 TO 1 MOISTURE ADEQUATE FOR PRESENT NEEDS
- 0 TO -1 PROSPECTS IMPROVED BUT RAIN STILL NEEDED
- 1 TO -2 SOME IMPROVEMENT BUT STILL TOO DRY
- 2 TO -3 DROUGHT EASED BUT STILL SERIOUS
- 3 TO -4 DROUGHT CONTINUES; RAIN URGENTLY NEEDED
- BELOW -4 NOT ENOUGH RAIN; STILL EXTREMELY DRY

**UNSHADED AREAS:**

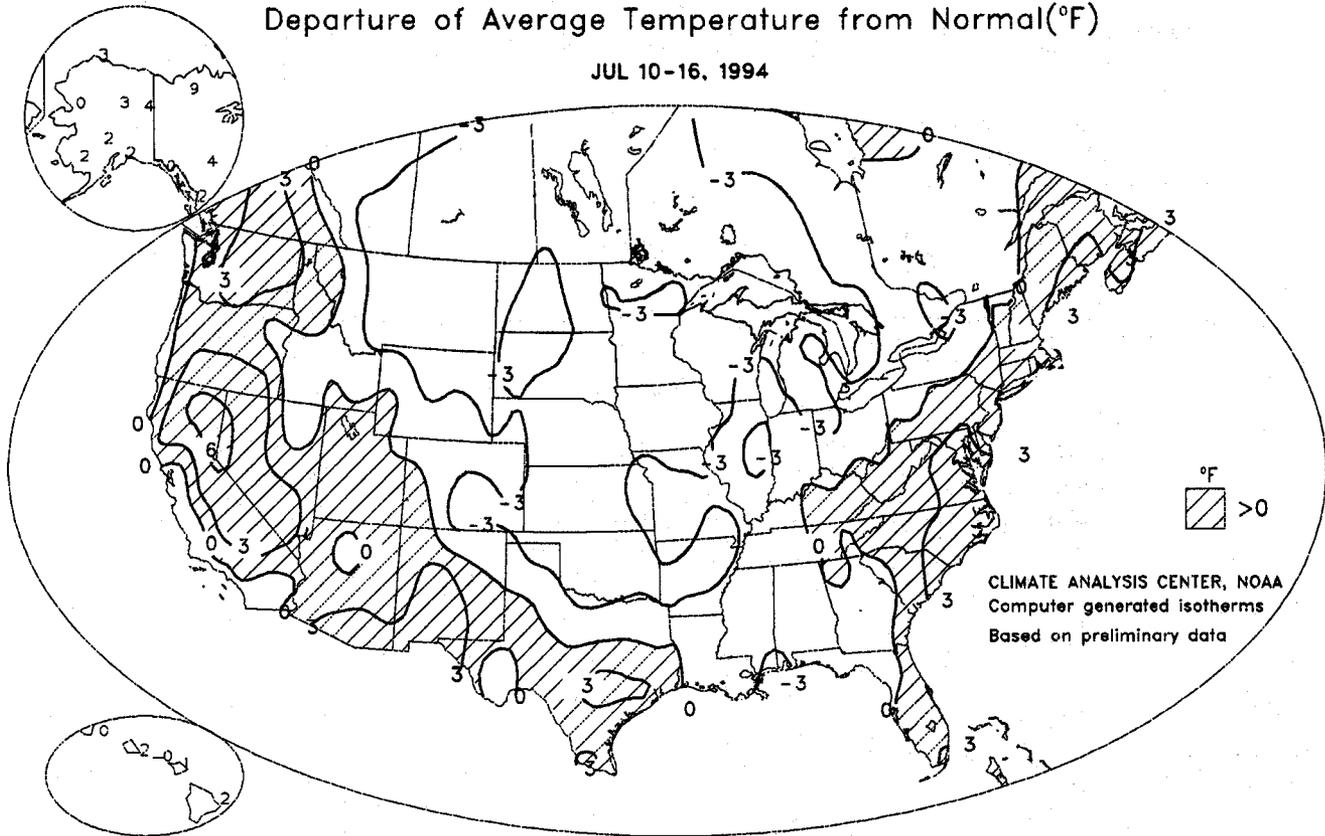
INDEX DECREASED

- ABOVE 3 SOME DRYING BUT STILL EXCESSIVELY WET
- 2 TO 3 MORE DRY WEATHER NEEDED; WORK DELAYED
- 1 TO 2 FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
- 0 TO 1 FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
- 0 TO -1 TOPSOIL MOISTURE SHORT; GERMINATION SLOW
- 1 TO -2 ABNORMALLY DRY; PROSPECTS DETEIORATING
- 2 TO -3 TOO DRY; YIELD PROSPECTS REDUCED
- 3 TO -4 POTENTIAL YIELDS SEVERELY CUT BY DROUGHT
- BELOW -4 EXTREMELY DRY; MOST CROPS RUINED

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

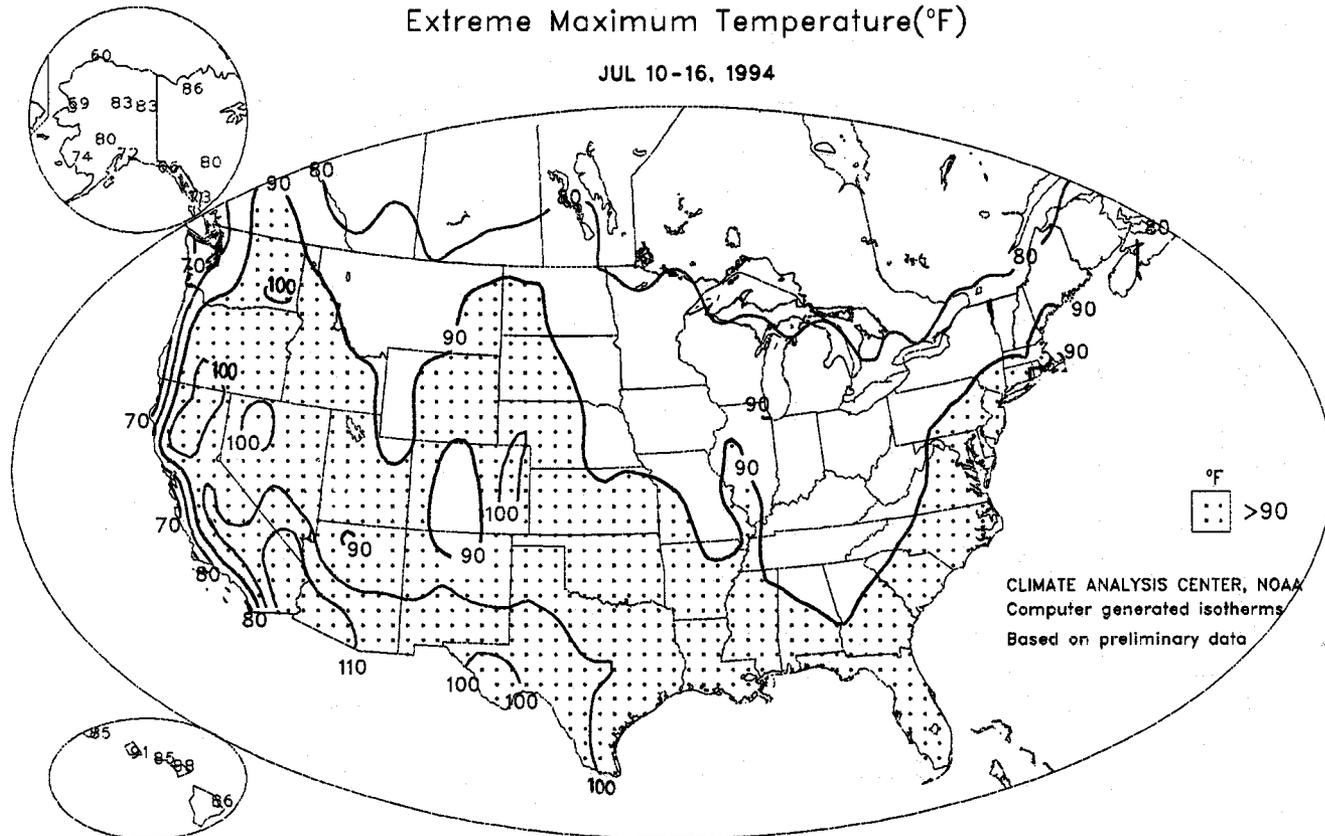
### Departure of Average Temperature from Normal(°F)

JUL 10-16, 1994



### Extreme Maximum Temperature(°F)

JUL 10-16, 1994



# National Weather Data for Selected Cities

## Weather Data for the Week Ending July 16, 1994

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS							
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE		
AL BIRMINGHAM	86	70	89	68	78	-2	3.9	2.7	1.8	9.7	151	34.9	108	94	63	0	0	0	7	2		
MOBILE	86	71	92	70	79	-4	4.6	3.1	1.7	12.5	149	34.8	99	98	59	1	1	0	4	1		
MONTGOMERY	89	71	92	69	80	0	1.3	0	0.5	12.2	153	33.0	101	94	59	0	0	5	5	4		
AK ANCHORAGE	69	53	72	49	61	2	2	2	0.4	1.6	80	4.9	87	75	51	0	0	0	0	0		
BARROW	50	34	60	31	42	3	2	2	0.2	0.3	39	0.8	58	95	70	0	1	0	0	0		
FAIRBANKS	81	53	87	48	67	4	2	2	1.1	2.7	117	3.9	87	89	38	0	0	3	0	0		
JUNEAU	69	51	76	48	60	4	4	4	0.9	2.3	44	22.2	97	85	53	0	0	0	0	0		
KODIAK	53	50	54	49	51	-3	4.9	4.1	1.2	8.7	130	51.2	152	99	96	0	0	7	4	4		
NOME	59	41	75	30	50	-2	0.4	-1.1	0.4	0.9	43	3.7	69	90	62	0	1	2	0	0		
AZ PHOENIX	108	81	109	78	95	1	0	-2	0	0	0	2.5	82	28	14	7	0	0	0	0		
PRESCOTT	95	62	97	58	79	5	0	-7	0	0	29	4.0	49	33	8	7	0	0	0	0		
TUCSON	108	78	110	75	93	6	0	-5	0	0	20	3.0	74	40	10	7	0	0	0	0		
YUMA	110	82	113	78	96	3	0	-1	0	0	0	0.7	64	36	13	7	0	0	0	0		
AR FORT SMITH	88	71	92	69	79	-2	3.2	2.5	1.4	10.9	220	33.0	146	94	59	2	0	4	3	3		
LITTLE ROCK	85	71	91	69	78	-3	3.7	2.9	2.1	10.2	171	34.7	128	93	64	1	0	4	4	2		
CA BAKERSFIELD	105	70	106	68	88	4	0	0	0	0	0	4.2	110	39	12	7	0	0	0	0		
BUREKA	60	51	62	50	56	-1	0	0	0	0	125	19.4	92	92	71	0	0	0	0	0		
FRESNO	103	68	104	67	86	4	0	0	0	0	0	6.3	91	62	14	7	0	0	0	0		
LOS ANGELES	73	62	76	61	68	-1	0	0	0	0	0	6.2	81	89	61	0	0	0	0	0		
REDDING	107	69	109	66	88	6	0	0	0	0	5	15.0	79	58	15	7	0	0	0	0		
SACRAMENTO	95	56	99	54	75	0	0	0	0	0	0	6.7	63	94	33	7	0	0	0	0		
SAN DIEGO	74	64	76	63	69	-1	0	0	0	0.1	78	8.2	132	86	58	0	0	0	0	0		
SAN FRANCISCO	69	52	73	51	61	-2	0	0	0	0	25	10.7	87	92	60	0	0	0	0	0		
CO DENVER	86	58	98	54	72	-2	2	2	2	1.3	45	6.6	72	90	32	2	0	2	0	0		
GRAND JUNCTION	98	66	100	61	82	2	2	2	2	0	4	3.1	59	74	10	7	0	0	0	0		
PUEBLO	92	53	98	50	72	-5	2	-5	2	2.6	116	8.6	149	84	22	6	0	1	0	0		
CT BRIDGEPORT	85	68	94	64	77	3	0.3	-5	2	2.1	39	22.4	97	77	50	2	0	2	0	0		
HARTFORD	85	63	94	56	74	0	0.4	-4	3	4.7	88	26.3	111	85	47	1	0	2	0	0		
DC WASHINGTON	91	74	94	69	82	2	0.2	-6	2	2.9	55	23.0	114	88	46	6	0	2	0	0		
FL PANAMA CITY	86	73	88	72	80	-1	0	-2.1	0	10.7	94	24.8	71	98	65	0	0	1	0	0		
DAYTONA BEACH	90	71	92	70	81	0	2	-1.0	2	10.1	114	29.9	129	99	57	6	0	1	0	0		
JACKSONVILLE	94	73	95	70	83	2	1.2	-1	0	17.4	205	31.7	126	96	52	7	0	2	1	0		
KEY WEST	89	81	89	80	85	1	0	-8	0	0.6	9	11.1	63	77	63	0	0	0	0	0		
MIAMI	91	79	92	76	85	2	0	-1.2	0	5.9	47	23.9	86	80	54	7	0	3	0	0		
ORLANDO	93	73	94	72	83	1	1.4	-2	0	17.8	160	32.5	130	91	52	7	0	3	2	0		
TALLAHASSEE	93	69	95	68	81	0	0.3	-1.7	3	14.1	123	44.8	123	93	49	7	0	3	0	0		
TAMPA	92	73	93	71	82	0	1.2	-3	6	10.1	116	18.4	87	93	58	6	0	5	2	0		
WEST PALM BEACH	89	78	90	75	84	1	0	-1.4	0	11.6	103	35.5	122	85	57	2	0	0	0	0		
GA ATLANTA	87	72	90	70	80	1	4.3	3.1	1.6	15.8	257	36.3	121	96	60	1	0	7	5	0		
AUGUSTA	91	70	93	68	80	0	0	-9	0	6.5	104	23.2	88	97	58	6	0	1	0	0		
MACON	89	71	91	70	80	-1	0.4	-6	4	19.5	338	37.8	140	97	60	1	0	2	0	0		
SAVANNAH	93	74	95	71	83	2	1.4	0	8	10.7	122	28.2	106	93	49	7	0	2	2	1		
HI HILO	84	71	86	69	78	2	2.1	-1	1.8	17.9	164	86.2	123	91	70	0	0	2	1	0		
HONOLULU	90	76	91	74	83	3	0	-1	0	0.3	33	11.5	100	76	49	5	0	1	0	0		
KAHULUI	87	73	88	69	80	1	0.5	-4	5	1.4	318	9.0	70	80	57	0	0	1	1	0		
LIHUE	85	75	85	73	80	1	0	-4	1	2.1	75	19.1	84	83	65	0	0	2	0	0		
ID BOISE	93	53	95	46	73	-1	0	-1	0	0.3	33	5.0	70	70	15	7	0	0	0	0		
LEWISTON	93	61	98	56	77	3	0	-2	0	1.3	77	5.9	80	44	13	6	0	0	0	0		
POCAHELLO	89	48	92	45	69	-2	0	-1	0	0.3	18	4.3	60	84	13	3	0	0	0	0		
IL CHICAGO	82	62	91	54	72	-1	0	-7	1	6.7	119	15.1	83	88	55	1	0	2	0	0		
MOLINE	84	63	90	55	73	-2	2.6	1.4	2.1	9.7	143	18.3	88	93	57	1	0	2	1	0		
PEORIA	86	63	92	57	75	-1	0	-1.0	0	2.3	37	11.2	57	89	48	1	0	1	0	0		
QUINCY	83	64	87	59	73	-3	0	-9	2	3.0	48	12.4	60	85	50	0	0	1	0	0		
ROCKFORD	80	60	88	56	70	-3	1.0	0	0	7.7	116	17.0	90	99	63	0	0	2	1	0		
SPRINGFIELD	86	63	90	58	75	-2	0	-6	2	7.0	134	22.6	118	91	50	1	0	1	0	0		
IN EVANSVILLE	87	69	90	63	78	-1	0	-9	1	5.4	89	19.5	74	88	52	1	0	2	0	0		
FORT WAYNE	82	60	87	53	71	-3	0	-7	0	5.8	109	18.4	97	95	55	0	0	1	0	0		
INDIANAPOLIS	83	64	88	59	74	-2	0	-8	2	7.8	134	20.4	93	91	50	0	0	1	0	0		
SOUTH BEND	81	62	87	55	71	-2	0	-3	6	8.1	132	16.5	81	93	55	0	0	2	1	0		
IA DES MOINES	83	62	89	57	73	-2	1.1	-2	0	8.0	120	15.6	84	92	56	0	0	2	1	0		
SIOUX CITY	80	62	86	59	71	-5	1.3	-6	7	7.5	138	12.6	86	94	61	0	0	4	1	0		
WATERLOO	80	60	88	53	70	-3	1.5	-4	1.2	9.4	133	16.4	88	95	62	0	0	3	1	0		
KS CONCORDIA	85	64	89	61	75	-5	0	-6	2	7.0	109	11.2	68	92	50	0	0	2	8	0		
DODGE CITY	91	63	94	59	77	-3	2.0	1.3	1.0	5.4	112	9.0	72	93	37	5	0	3	2	0		
GOODLAND	89	67	95	53	73	-3	0	-1	4	3.7	77	8.6	75	91	37	3	0	3	0	0		
TOPEKA	89	66	91	64	77	-1	0	-4	2	4.2	56	11.0	56	92	45	4	0	3	0	0		
WICHITA	88	67	91	64	78	-3	1.1	-3	7	5.9	78	10.9	56	89	46	3	0	2	1	0		
KY BOWLING GREEN	84	69	87	63	77	-1	1.6	-5	1.1	8.0	120	35.7	123	98	67	0	0	4	1	0		
LEXINGTON	84	67	89	60	76	0	0	-6	3	4.9	79	30.7	123	97	60	0	0	4	0	0		
LOUISVILLE	86	69	90	63	77	0	1	-9	1	3.4	59	21.8	86	94	55	1	0	1	0	0		
LA BATON ROUGE	86	72	91	70	79	-3	4.6	3.1	1.7	11.4	145	39.3	118	100	73	1	0	7	4	4		
LAKE CHARLES	89	75	92	73	82	0	4.2	3.0	1.4	10.0	131	23.2	83	99	72	5	0	6	4	4		
NEW ORLEANS	89	73	94	71	81	-1	3.2	1.8	1.2	15.0	167	30.1	88	96	62	2	0	4	3	2		
SHEREVEPORT	91	72	94	69	82	0	6.2	5.4	3.5	9.1	145	30.9	109	98	59	5	0	5	2	0		

Based on 1961-90 normals.

Weather Data for the Week Ending July 16, 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	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																						.01 INCH OR MORE	.50 INCH OR MORE		
ME CARIBOU	79	57	81	50	68	2	.2	.7	.2	7.1	146	22.6	132	81	40	0	0	2	0	0	0	0	0		
ME PORTLAND	83	59	91	54	71	2	.2	.2	.2	1.7	33	22.9	98	87	38	1	1	1	1	1	1	1	1	1	
MD BALTIMORE	90	70	94	64	80	3	.5	.5	.5	3.8	69	26.7	122	87	50	3	0	0	1	0	0	0	0	0	
MA BOSTON	92	69	96	61	80	4	.1	.1	.1	1.2	21	23.3	98	96	44	6	0	1	0	0	0	0	0	0	
MA CHATHAM	85	65	95	61	75	1	.6	.6	.6	1.5	34	24.8	111	82	45	4	0	2	1	0	0	0	0	0	
MI ALPENA	77	63	84	51	70	3	.7	.7	.7	2.5	143	15.0	103	92	52	0	0	3	0	0	0	0	0	0	
MI DETROIT	75	53	84	46	64	0	.6	.6	.6	4.7	89	16.4	96	86	55	1	0	1	0	0	0	0	0	0	
MI FLINT	82	62	91	56	72	2	.7	.7	.7	8.2	177	18.3	122	92	57	0	0	1	0	0	0	0	0	0	
MI GRAND RAPIDS	79	57	86	51	68	3	.7	.7	.7	13.1	244	24.9	140	91	61	0	0	0	0	0	0	0	0	0	
MI HOUGHTON LAKE	79	59	83	52	69	3	.3	.3	.3	5.2	119	14.2	103	98	53	0	0	4	0	0	0	0	0	0	
MI LANSING	79	57	85	49	68	3	.6	.6	.6	8.3	176	17.9	116	98	57	0	0	2	0	0	0	0	0	0	
MI MARQUETTE	72	48	78	44	60	5	.2	.2	.2	3.5	71	12.6	72	88	57	0	0	2	0	0	0	0	0	0	
MI MUSKOGON	77	58	82	50	67	3	.2	.2	.2	7.1	211	17.9	115	90	59	0	0	0	0	0	0	0	0	0	
MI SAULT ST. MARIE	72	47	77	44	60	4	.4	.4	.4	4.1	91	14.1	88	95	51	0	0	1	0	0	0	0	0	0	
MN ALEXANDRIA	78	60	83	58	69	3	.1	.1	.1	3.0	51	9.0	65	93	50	0	0	3	0	0	0	0	0	0	
MN DULUTH	75	54	85	49	64	2	.5	.5	.5	5.6	99	15.2	102	88	44	0	0	3	0	0	0	0	0	0	
MN INT'L FALLS	73	53	81	48	63	4	.7	.7	.7	7.4	126	11.9	95	94	57	0	0	3	0	0	0	0	0	0	
MN MINNEAPOLIS	78	59	83	56	69	5	.8	.8	.8	6.5	110	14.8	95	91	53	0	0	3	0	0	0	0	0	0	
MN ROCHESTER	75	57	84	51	66	5	.7	.7	.7	4.4	75	14.8	97	95	66	0	0	2	0	0	0	0	0	0	
MS GREENWOOD	89	72	92	71	80	1	2.8	1.8	1.0	8.0	121	27.4	85	97	69	2	0	5	5	2	2	2	2	2	
MS JACKSON	87	71	89	69	79	2	2.7	1.8	1.2	10.3	196	36.9	114	97	71	0	0	7	3	3	3	3	3	3	
MS MERIDIAN	89	71	92	69	80	1	4.5	3.3	1.5	13.9	221	44.2	132	95	61	2	0	7	7	3	3	3	3	3	
MO CAPE GIRARDEAU	87	69	92	61	78	2	.5	.5	.5	4.0	76	22.7	87	95	53	2	0	2	0	0	0	0	0	0	
MO COLUMBIA	86	64	89	59	75	2	.4	.5	.3	4.1	70	22.5	108	96	53	0	0	2	0	0	0	0	0	0	
MO KANSAS CITY	88	67	90	63	77	1	.3	.8	.3	4.8	68	15.5	78	88	48	4	0	2	0	0	0	0	0	0	
MO SAINT LOUIS	88	71	92	66	80	0	.3	.9	.3	3.1	53	20.0	96	81	46	2	0	2	0	0	0	0	0	0	
MO SPRINGFIELD	88	67	91	63	78	0	.3	.4	.3	4.2	63	25.5	111	89	45	3	0	2	0	0	0	0	0	0	
MT BILLINGS	81	56	86	52	68	4	1	1	1	3.9	154	8.7	91	78	31	0	0	2	0	0	0	0	0	0	
MT GLASGOW	83	53	91	48	68	3	.3	.4	.3	2.7	88	6.5	99	89	27	1	0	0	0	0	0	0	0	0	
MT GREAT FALLS	81	47	86	42	64	4	.4	.4	.4	2.2	71	7.1	74	94	27	0	0	1	0	0	0	0	0	0	
MT HAVRE	83	50	88	47	67	3	.2	.1	1	3.8	153	4.8	71	92	25	0	0	2	0	0	0	0	0	0	
MT HELENA	83	48	87	45	66	3	.1	.1	1	1.4	57	5.0	72	92	25	0	0	1	0	0	0	0	0	0	
MT KALISPELL	82	49	86	38	66	2	.3	.3	.3	2.2	77	7.1	75	90	25	0	0	0	0	0	0	0	0	0	
MT MILES CITY	86	56	95	51	71	4	.4	.4	.4	1.3	34	5.3	60	77	25	3	0	0	0	0	0	0	0	0	
MT MISSOULA	87	48	89	46	67	1	.6	.4	.6	2.3	101	8.4	104	92	21	0	0	1	0	0	0	0	0	0	
NE GRAND ISLAND	82	61	88	58	72	5	2.2	1.5	.9	8.8	161	14.5	98	92	57	0	0	5	2	1	1	1	1	1	
NE LINCOLN	84	64	88	58	74	5	1.9	1.2	1.6	7.9	141	12.3	79	93	53	0	0	3	1	1	1	1	1	1	
NE NORFOLK	83	62	88	59	72	3	3.8	3.0	2.6	13.8	220	18.6	121	92	54	0	0	5	1	1	1	1	1	1	
NE NORTH PLATTE	83	59	95	54	71	3	2.4	1.7	1.5	8.6	169	12.1	97	95	49	1	0	5	2	2	2	2	2	2	
NE OMAHA	84	64	88	57	74	3	.3	.5	.3	12.3	215	17.7	107	92	56	0	0	1	0	0	0	0	0	0	
NE SCOTTSBLUFF	84	57	95	53	70	4	1.0	.5	.7	4.9	129	10.1	99	90	38	1	0	3	1	1	1	1	1	1	
NE VALENTINE	85	58	99	53	71	4	.5	.2	.5	5.6	108	9.6	73	85	36	1	0	3	0	0	0	0	0	0	
NV ELY	91	48	92	44	69	2	.0	.2	.0	.0	0	5.4	95	92	11	7	0	0	0	0	0	0	0	0	
NV LAS VEGAS	109	80	111	77	94	3	.0	.1	.0	.0	0	.7	31	26	9	7	0	0	0	0	0	0	0	0	
NV RENO	96	60	97	57	78	6	.0	.1	.0	.0	0	3.1	69	90	16	7	0	0	0	0	0	0	0	0	
NV WINNEMUCCA	97	59	102	53	78	6	.0	.1	.0	.0	0	4.4	90	76	8	7	0	0	0	0	0	0	0	0	
NH CONCORD	83	57	89	50	70	1	1	.6	.1	3.5	72	19.5	105	85	45	0	0	1	0	0	0	0	0	0	
NH ATLANTIC CITY	88	65	92	55	77	2	1.3	.4	1.3	2.8	63	25.3	117	92	51	2	0	1	1	1	1	1	1	1	
NM ALBUQUERQUE	98	69	100	62	84	5	.3	.3	.3	.3	23	3.1	85	44	11	7	0	0	0	0	0	0	0	0	
NM CLOVIS	92	63	96	61	78	1	.3	.3	.3	1.8	42	6.3	75	83	26	6	0	1	0	0	0	0	0	0	
NM ROSWELL	96	67	101	64	82	1	.0	.4	.0	.1	5	5.0	99	65	22	7	0	0	0	0	0	0	0	0	
NY ALBANY	82	62	88	52	72	0	.8	.1	.8	5.6	105	21.6	112	90	52	0	0	2	1	1	1	1	1	1	
NY BINGHAMTON	78	59	84	53	69	0	.3	.5	.3	8.2	150	24.1	124	89	59	0	0	2	0	0	0	0	0	0	
NY BUFFALO	79	61	85	55	70	-1	.7	.6	.7	5.2	101	19.7	105	90	57	0	0	1	0	0	0	0	0	0	
NY NEW YORK	87	70	98	67	79	2	.5	.5	.4	4.1	73	24.8	109	76	45	2	0	2	0	0	0	0	0	0	
NY ROCHESTER	81	60	86	55	71	0	.7	.6	.7	2.5	57	15.2	94	87	54	0	0	0	0	0	0	0	0	0	
NY SYRACUSE	79	60	85	55	70	-1	.6	.3	.4	4.7	81	23.5	119	94	61	0	0	3	0	0	0	0	0	0	
NC ASHEVILLE	81	66	85	65	74	0	1.9	.9	1.1	8.2	114	31.3	104	99	65	0	0	6	1	1	1	1	1	1	
NC CHARLOTTE	89	72	92	71	81	1	.5	.4	.4	5.9	110	20.8	87	93	58	2	0	4	0	0	0	0	0	0	
NC GREENSBORO	87	70	91	68	78	2	.4	.6	.2	4.5	73	18.8	81	95	60	1	0	5	0	0	0	0	0	0	
NC HATTERAS	89	75	91	72	82	4	.8	.3	.7	3.4	52	26.8	97	94	70	2	0	3	1	1	1	1	1	1	
NC NEW BERN	95	73	97	70	84	5	.3	1.3	1.1	2.2	24	19.2	66	96	46	7	0	3	0	0	0	0	0	0	
NC RALEIGH	90	72	94	70	81	3	.5	.4	.5	3.2	57	19.4	83	94	63	5	0	1	1	1	1	1	1	1	
NC WILMINGTON	94	75	95	71	84	5	1.2	.3	.8	4.5	54	26.5	92	96	50	7	0	2	1	1	1	1	1	1	
ND BISMARCK	83	55	88	48	69	-2	.3	.2	.1	5.0	128	8.3	88	93	49	0	0	3	0	0	0	0	0	0	
ND FARGO	78	59	83	57	68	-3	1.1	.5	.6	7.8	184	13.5	126	96	55	0	0	3	1	1	1	1	1	1	
ND GRAND FORKS	77	57	82	52	67	-2	.1	.6	.0	9.9	231	14.0	143	94	53	0	0	2	0	0	0	0	0	0	
ND WILLISTON	82	54	94	46	68	-3	.7	.5	.7	4.2	123	10.4	125												

Weather Data for the Week Ending July 16, 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	90 AND ABOVE		32 AND BELOW	
																	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
TOLEDO	81	60	87	52	70	-.2	.5	.7	.5	4.3	79	17.1	98	90	58	0	0	0	0	
YOUNGSTOWN	79	59	85	50	69	-.1	.1	.9	.1	3.9	63	19.8	99	91	60	0	0	1	1	
OK OKLAHOMA CITY	91	66	96	64	78	-.4	1.4	.8	.7	2.1	36	14.1	74	96	50	5	0	3	1	
TULSA	88	68	91	65	78	-.5	5.3	4.6	3.3	8.2	133	23.8	106	96	57	2	0	4	2	
OR ASTORIA	65	54	66	50	59	0	.5	.2	.5	3.0	98	34.6	98	92	74	0	0	1	2	
BURNS	89	48	94	44	68	2	.0	.1	.0	.5	47	2.9	54	42	11	2	0	0	0	
MEDFORD	97	53	103	51	75	2	.0	-.1	.0	.1	17	4.9	52	89	16	2	0	0	0	
PENDLETON	92	60	98	55	76	3	.0	-.1	.0	1.3	141	8.0	119	67	14	6	0	0	0	
PORTLAND	85	56	89	53	70	2	.0	-.1	.0	1.7	93	14.5	76	84	29	0	0	0	0	
SALEM	87	47	93	42	67	1	.0	-.1	.0	1.2	69	16.0	78	87	27	2	0	0	0	
PA ALLENTOWN	87	65	93	59	76	2	.9	.0	.9	6.9	118	27.1	118	90	46	1	0	2	1	
ERIE	77	63	85	60	70	-.1	.3	-.5	.2	6.4	108	20.2	101	89	58	0	0	0	0	
HARRISBURG	89	72	90	71	80	4	1.0	.2	.9	4.3	71	25.1	112	93	46	1	0	2	1	
PHILADELPHIA	91	72	98	66	82	7	2.9	1.8	2.9	5.2	79	25.8	104	85	47	5	0	1	1	
PITTSBURGH	83	62	89	52	72	0	.4	-.5	.4	4.2	75	21.6	104	85	50	0	0	1	1	
SCRANTON	84	61	91	55	72	1	.1	-.8	.1	3.7	62	19.6	101	94	47	1	0	1	1	
RI PROVIDENCE	83	64	94	61	74	1	.7	.0	.7	3.6	72	23.5	96	85	49	1	0	0	1	
SC CHARLESTON	93	75	94	73	84	2	.5	-.5	.5	13.7	138	29.5	107	92	53	7	0	0	0	
COLUMBIA	93	72	94	70	82	2	.3	-.9	.3	11.9	158	26.9	97	90	49	7	0	0	0	
FLORENCE	93	74	96	72	84	3	.5	-.8	.3	5.4	75	20.6	85	94	48	7	0	0	0	
GREENVILLE	86	70	90	69	78	0	1.2	.1	.3	12.7	176	29.0	98	96	63	1	0	0	0	
SD ABERDEEN	83	58	86	56	70	-.2	1.2	.4	.9	5.7	113	10.0	83	97	46	0	0	0	1	
HURON	81	58	83	56	70	-.5	.6	-.1	.5	7.4	153	13.7	109	94	51	0	0	0	0	
RAPID CITY	84	57	97	53	71	-.1	.3	-.2	.2	1.3	31	5.5	51	81	31	1	0	0	0	
SIoux FALLS	82	60	88	58	72	-.4	.7	.1	.5	7.5	155	13.9	105	93	52	0	0	0	0	
TN CHATTANOOGA	84	70	87	69	77	-.2	7.2	6.1	3.6	16.2	268	50.0	164	98	68	0	0	6	4	
KNOXVILLE	83	70	86	69	76	0	2.3	1.2	1.1	9.1	141	47.8	173	98	72	0	0	3	1	
MEMPHIS	88	74	91	72	81	-.2	1.3	-.4	.7	7.5	135	31.2	106	92	61	2	0	6	1	
NASHVILLE	85	72	88	70	79	0	.5	-.9	.5	8.1	144	35.7	132	88	61	0	0	1	0	
TX ABILENE	94	71	99	68	82	-.2	.2	-.3	.1	1.5	15	15.0	121	91	41	6	0	2	0	
AMARILLO	90	62	95	59	76	-.3	1.2	.6	.6	2.8	54	7.6	72	91	35	4	0	3	0	
AUSTIN	99	76	100	72	87	3	.0	-.5	.0	1.0	20	11.6	65	92	35	7	0	0	2	
BEAUMONT	91	76	93	74	84	1	2.9	1.6	2.7	14.0	167	40.3	139	98	65	6	0	2	1	
BROWNSVILLE	95	78	96	75	86	2	.0	-.4	.0	3.3	89	9.6	84	89	53	7	0	0	0	
CORPUS CHRISTI	93	77	94	74	85	1	.1	-.5	.1	3.7	80	15.4	108	95	55	7	0	1	0	
DEL RIO	96	75	103	69	86	2	2.9	2.5	1.2	2.9	77	12.5	96	84	44	5	0	3	3	
EL PASO	103	74	107	70	89	6	.5	-.4	.5	-.7	49	2.8	92	45	15	7	0	0	0	
FORT WORTH	92	73	96	70	83	0	1.7	1.2	1.5	5.9	131	20.4	98	95	62	4	0	4	1	
GALVESTON	90	82	92	76	86	3	.6	-.3	.3	4.9	75	14.1	69	85	71	6	0	3	1	
HOUSTON	96	77	98	73	87	4	.6	-.5	.6	4.7	54	19.1	68	96	53	7	0	1	1	
LUBBOCK	94	67	100	63	81	1	.5	-.5	.5	1.9	47	9.7	105	92	32	6	0	0	0	
MIDLAND	96	67	102	62	82	0	1.3	1.0	.7	2.7	122	5.1	76	90	27	6	0	0	0	
SAN ANGELO	96	71	103	68	84	1	.2	.0	.2	1.2	42	7.6	73	94	33	7	0	1	0	
SAN ANTONIO	99	77	100	75	88	3	.5	-.3	.5	2.2	43	18.6	111	86	35	7	0	0	0	
VICTORIA	95	76	97	73	86	3	.5	-.3	.5	2.2	43	18.6	111	86	35	7	0	0	0	
WACO	97	76	99	73	86	3	.5	-.3	.5	2.2	43	18.6	111	86	35	7	0	0	0	
WICHITA FALLS	92	69	96	68	80	0	1.2	-.2	.1	2.2	50	18.6	102	87	39	7	0	2	0	
UT CEDAR CITY	94	58	95	55	76	2	.0	-.4	.5	.1	2	6.3	35	92	26	6	0	0	0	
SALT LAKE CITY	96	65	101	60	81	3	.5	-.2	.5	.1	11	4.0	69	26	9	7	0	0	0	
VT BURLINGTON	81	61	88	55	71	0	.2	-.6	.2	6.2	116	20.5	121	88	48	0	0	1	0	
VA NORFOLK	92	76	98	74	84	6	1.7	-.4	.6	6.7	105	28.8	119	87	51	5	0	3	1	
RICHMOND	91	72	94	68	81	3	1.7	-.6	.6	3.7	60	24.3	106	89	23	5	0	4	2	
ROANOKE	88	69	92	63	79	3	.1	-.7	.1	3.4	66	26.2	122	88	49	2	0	3	0	
WA QUILLAYUTE	64	50	69	45	57	-.3	.1	-.5	.1	5.7	127	54.9	98	98	72	0	0	4	0	
SEATTLE-TACOMA	80	55	85	53	67	2	.0	-.2	.0	1.5	79	15.4	82	90	36	0	0	0	0	
SPOKANE	89	56	93	52	72	4	.5	-.2	.5	.9	54	6.2	67	82	16	1	0	0	0	
YALM	93	56	97	47	75	5	.0	.0	.0	.6	102	4.2	100	78	19	7	0	0	0	
WV BECKLEY	79	62	83	56	71	1	4.3	3.2	2.9	8.4	133	32.8	143	94	61	0	0	4	2	
CHARLESTON	84	67	89	60	75	0	.5	-.6	.3	7.2	118	34.7	151	97	62	0	0	4	0	
HUNTINGTON	86	66	90	60	76	2	1.7	.6	1.1	3.8	63	29.1	124	93	54	1	0	3	1	
PARKERSBURG	83	63	87	56	73	-.1	1.1	-.1	1.0	7.1	117	31.7	136	100	58	0	0	2	1	
WI GREEN BAY	76	56	84	51	66	-.4	.2	-.5	.2	6.5	130	17.8	123	90	58	0	0	1	0	
LACROSSE	76	59	88	54	68	-.6	-.5	-.5	-.5	-.5	-.5	-.5	95	58	0	0	0	0	0	
MADISON	80	59	86	51	69	-.3	.6	-.3	.6	9.0	155	17.5	106	87	56	0	0	4	1	
MILWAUKEE	79	63	90	57	71	0	1.0	-.3	1.0	5.2	104	15.1	89	86	58	1	0	2	1	
WASBAD	75	55	82	49	65	-.5	.5	-.4	.4	4.9	82	12.0	75	91	51	0	0	3	0	
WY CASPER	85	53	101	49	69	-.1	1.3	1.0	.6	2.8	127	5.7	71	90	28	1	0	5	1	
CHEYENNE	79	53	93	49	66	-.2	1.6	1.1	.5	3.1	97	8.7	100	90	36	1	0	5	2	
LANDER	86	54	94	47	70	-.1	.5	-.2	.5	.4	20	4.8	56	59	18	3	0	0	0	
SHERIDAN	81	53	89	45	67	-.3	.1	-.1	.1	3.1	110	9.2	99	83	32	0	0	1	0	

Based on 1961-90 normals.

## CUMULATIVE GROWING DEGREE DAYS (CORN\*) March 1 - July 16, 1994

STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL
AL ANNISTON	2631	+ 183	RUSSELL	2178	+ 298	YOUNGSTOWN	1434	+ 132
BIRMINGHAM	2633	+ 144	SALINA	2212	+ 250	ZANESVILLE	1639	+ 77
MOBILE	3017	+ 60	TOPEKA/BILLARD	2128	+ 193	OK ALTUS	2651	+ 76
MONTGOMERY	2914	+ 305	WICHITA	2270	+ 150	GAGE	2360	+ 193
MUSCLE SHOALS	2539	+ 181	MOBILE	1957	+ 86	HOBART	2519	+ 142
OSARK	2900	+ 127	BOWLING GREEN	2170	+ 94	MCALISTER	2606	+ 146
TUSCALOOSA	2745	+ 135	PAIDUCAH	2280	+ 109	PONCA CITY	2534	+ 286
AZ DOUGLAS	2601	+ 273	LA LAFAYETTE	3141	+ 135	TULSA	2506	+ 114
FLAGSTAFF	...	...	LAKE CHARLES	3200	+ 193	OR BAKER	1255	+ 219
PHOENIX	3388	+ 408	MONROE	3001	+ 258	BOONE	1326	+ 215
TUCSON	3071	+ 343	NEW ORLEANS	3150	+ 135	NORTH BEND	821	+ 166
YUMA	3630	+ 496	SHERVEPORT	2900	+ 166	PENDLETON	1530	+ 188
PRINSCOTT	1938	+ 362	ME AUGUSTA	1098	+ 90	RENO	1211	+ 146
AR EL DORADO	2746	+ 151	CARIBOU	899	+ 128	PORTLAND	1439	+ 317
FAYETTEVILLE	2295	+ 207	HOOLOON	937	+ 76	SALM	1417	+ 323
FORT SMITH	2680	+ 272	PORTLAND	1101	+ 173	SEKTON SUMMIT	751	+ 23
JONESBORO	2504	+ 98	MD BALISBURY	2066	+ 287	PA ALLENTOWN	1768	+ 285
LITTLE ROCK	2669	+ 191	MA WORCESTER	1234	+ 120	PHILADELPHIA	2073	+ 480
TEXARKANA	2800	+ 119	MI GRAND RAPIDS	1413	...	WILLIAMSPORT	1661	+ 236
CA BAKERSFIELD	2554	+ 113	JACKSON	1449	+ 101	SC BRADFORD	3039	+ 292
BLAKE CANYON	1015	+ 131	LANSING	1390	+ 11	CHARLESTON	2952	+ 294
DAWGETT	2938	+ 317	MUSKOGON	1209	+ 47	COLUMBIA	2833	+ 267
KORUKA	794	+ 325	PELLSTON	1059	+ 122	FLORENCE	2805	+ 252
FAIRFIELD	2006	+ 236	SAULT STE. MARIE	803	+ 54	SUMTER/SHAW AFB	2716	+ 129
PRENO	2480	+ 324	TRAVERSE CITY	1219	+ 143	SD ABERDEEN	1563	+ 348
MARYSVILLE	2327	+ 241	MN DULUTH	943	+ 151	HURON	1527	+ 161
MT SEASTA	1293	+ 200	INT'L FALLS	1046	+ 120	PIERRE	1671	+ 300
PASO ROBLES	2031	+ 254	MINNEAPOLIS	1486	...	RAPID CITY	1576	+ 324
RED BLUFF	2254	+ 118	ROCHESTER	1370	...	SIOUX FALLS	1680	+ 271
RIVERSIDE	2129	+ 54	ALBANY	1300	+ 171	WATERLOO	1336	+ 151
SANTA ANA	2399	+ 443	MS BILOXI	3168	+ 154	BRISTOL	2043	+ 149
SAN DIEGO	1918	+ 106	COLUMBUS	2913	+ 394	CHATTANOOGA	2435	+ 202
SACRAMENTO	2074	+ 180	JACKSON	2777	+ 159	CROSSVILLE	2044	+ 347
THERMAL	3097	+ 26	MERIDIAN	2932	+ 286	MEMPHIS	2789	+ 279
CO ALAMOSA	1193	+ 87	GREENWOOD	2873	+ 230	NASHVILLE	2360	+ 112
DENVER	1843	+ 412	NO COLUMBIA	2001	+ 165	TX ABILENE	2809	+ 97
EAGLE	1272	+ 115	JOPLIN	2312	+ 169	AMARILLO	2206	+ 141
GRAND JUNCTION	2085	+ 290	SPRINGFIELD	2216	+ 226	AUSTIN	3192	+ 180
LA JUNTA	2080	+ 208	VICHY	2085	+ 128	BROWNSVILLE	3641	+ 89
DE DOVER	1865	+ 11	HELENA	1259	+ 294	COLLEGE STATION	3139	+ 180
WILMINGTON	1951	+ 282	KALISPELL	1024	+ 50	DALHART	2158	+ 217
FL DAYTONA BEACH	3284	+ 197	MILLS CITY	1552	+ 266	DEL RIO	3381	+ 294
FORT MYERS	3705	+ 304	NE GRAND ISLAND	1880	+ 251	DALLAS/FT WORTH	2938	+ 187
GAINESVILLE	3100	+ 23	NORFOLK	1881	+ 321	GALVESTON	3453	+ 299
JACKSONVILLE	3103	+ 136	NORTH PLATTE	1788	+ 307	HOUSTON/INTCNL	3283	+ 320
FORT LAUDERDALE	4039	+ 497	VALENTINE	1683	+ 178	KINGSVILLE/NAS	3532	+ 120
MIAAMI	3984	+ 317	SCOTTSBLUFF	1742	+ 324	LAREDO	3669	+ 171
MILTON	3033	+ 172	SIDNEY	1678	+ 394	LUBBOCK	2587	+ 242
PENSACOLA	3110	+ 119	NV ELKO	1360	+ 190	MCALLAN	3759	+ 292
ST PETERSBURG	3606	+ 125	ELY	1351	+ 266	MIDLAND	2770	+ 85
TALLAHASSEE	3056	+ 161	LAS VEGAS	3168	+ 520	PALACIOS	3323	+ 120
TAMPA	3555	+ 260	RENO	1726	+ 354	SAN ANTONIO	3307	+ 207
VERO BEACH	3540	+ 271	WINNEVOCCA	1640	+ 300	VICTORIA	3316	+ 201
GA W. PALM BEACH	3763	+ 246	NE CONCORD	1348	+ 171	WACO	2974	+ 60
ATHENS	2593	+ 226	NJ NEWARK	2033	+ 406	WICHITA FALLS	2650	+ 47
AUGUSTA	2718	+ 180	NM ALBUQUERQUE	2331	+ 411	WINK	2931	+ 220
BRUNSWICK	3111	+ 213	CARLSBAD	2900	+ 323	UT CEDAR CITY	1757	+ 337
COLUMBUS/METRO	2868	+ 203	CLOVIS	2282	+ 235	VT BARRER-MONTPELLIER	1118	+ 158
MACON	2816	+ 132	GALLUP	1640	+ 152	BURLINGTON	1310	+ 197
SAVANNAH	3067	+ 290	TRUTH OR CONSEQ.	2527	+ 271	VA CHARLOTTESVILLE	2175	+ 221
ID BOISE	1651	+ 299	ALBANY	1421	+ 133	HAMPTON/LANGLEY	2306	+ 274
BURLEY	1586	+ 410	ALMIRA	1376	+ 142	LYNCHBURG	2040	+ 157
IDAHO FALLS	1370	+ 329	GLEN FALLS	1322	+ 161	NORFOLK	2477	+ 414
POCATELLO	1446	+ 326	POUGHKEEPSIE	1550	+ 185	RICHMOND	2303	+ 244
IL BELLVILLE	2088	+ 110	ROCHESTER	1327	+ 79	WA BELLINGHAM	953	+ 205
CHICAGO/MIDWAY	1637	+ 109	SYRACUSE	1322	+ 87	HOOULAM	794	+ 131
DECATUR	1776	- 58	UTICA	1256	+ 118	SEATTLE-TACOMA	1149	+ 265
PEORIA	1840	+ 215	NC WATERLOO	1170	+ 41	SPOKANE	1219	+ 198
ROCKFORD	1642	+ 219	ASHEVILLE	1966	+ 152	TACOMA	...	...
SPRINGFIELD	1917	+ 121	FAYETTEVILLE	2609	+ 266	WALLA WALLA	1801	+ 396
QUINCY	1808	+ 56	GREENSBORO	2239	+ 149	WENATCHEE	1674	+ 198
IN INDIANAPOLIS	1825	+ 109	HICKORY	2266	+ 189	YAKIMA	1584	+ 212
SOUTH BEND	1605	+ 172	RALEIGH	2398	+ 223	WV HUNTINGTON	2011	+ 241
TERRE HAUTE	1884	+ 131	WILMINGTON	2689	+ 248	MARTINSBURG	1849	+ 161
IA DES MOINES	1789	+ 88	NEW BERN	2572	+ 184	MORGANTOWN	1753	+ 101
MASON CITY	1546	+ 105	ND BISMARCK	1335	+ 197	EAU CLAIRE	1421	+ 186
OTTUMWA	1816	+ 150	DICKINSON	1175	+ 131	GREEN BAY	1347	+ 226
SIOUX CITY	1806	...	JAMESTOWN	1274	+ 162	LACROSSE	1556	+ 171
WATERLOO	1686	...	MINOT	1179	+ 145	MADISON	1555	+ 204
KS CHANUTE	2182	+ 122	GRAND FORKS	1259	+ 177	WATSAU	1310	+ 193
DODGE CITY	2130	+ 197	OH AKRON-CANTON	1467	+ 67	CASPER	1590	+ 479
GARDEN CITY	2112	+ 203	COLUMBUS	1751	+ 145	LANDER	1505	+ 424
GOODLAND	1837	+ 268	DAYTON	1741	+ 83	SHERIDAN	1404	+ 328
MEDICINE LODGE	2396	+ 212	FINDLAY	1522	+ 55	WORLD	1681	+ 434

Based on 1951-80 normals.

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

## National Agricultural Summary

July 11 - 17, 1994

**HIGHLIGHTS:** Continued rain early in the week gave way to hot weather in the Deep South, where rivers crested and began to recede. The excessive rains have increased disease problems and delayed harvest activity in the Southeast. Favorable temperatures and rain in the Corn Belt spurred corn and soybean development but many States still continue to report short soil moisture supplies. Producers in Illinois sprayed for corn rootworm beetles and spider mites. Severe storms with golf ball sized hail were reported in eastern Colorado, causing some crop damage. Winter wheat harvest was slowed by scattered rain storms in the central Great Plains. Hot, dry weather continued over most of the Southwest and the Pacific Coastal region, increasing producers' concern for dryland crops. Dry conditions in Oregon resulted in some cuts in water allotments, while in Utah the Bureau of Land Management (BLM) issued a drought warning letter to selected cattle grazers. The planting of double-crop of soybeans is nearing completion as the winter wheat harvest ends.

**SMALL GRAINS:** Winter wheat harvested was 79 percent (%) complete, up 5 percentage points from last week and 9 points ahead of the 5-year average. Scattered rains in parts of the Great Plains caused the winter wheat harvest to stall slightly and brought the harvest progress closer to the average. The wheat harvested in Indiana and Ohio advanced 40 and 42 points, respectively, to 88 percent complete. The wheat harvest in Ohio was 37 points ahead of the average.

**Spring wheat** was 91% headed, up 12 points from last week and tied with the average. The condition for spring wheat was mostly good, virtually unchanged from last week's condition.

**FIELD CROPS:** Corn condition was mostly good, up slightly from last week. Corn silking for the 17 major States was 46%, up 28 points from last week and 17 points ahead of the average. Despite a 21 point increase from last week, Ohio was behind the average for corn silking by 4 points. Illinois, Iowa, and Nebraska were up over 40 points from the previous week for corn silking. Favorable weather and scattered, rains in the Corn Belt improved the corn condition and spurred the crops development. The average corn height ranged from 47 inches for North Dakota to 68 inches for Indiana. Farmers continued spraying for corn borers in the middle Mississippi Valley.

(Continued from front cover)

**Ocmulgee and Flint Rivers,** rain fell on each day through week's end, totaling 4.29 inches. Saturday marked a record-tying 14th consecutive day with measurable rain (totaling 13.13 inches) in Atlanta, previously set in July 1916. Downstream, the Flint River crested on July 11 in Albany, GA, 22.3 feet above flood stage (4.5 feet above the record set in January 1925), and on July 14 in Bainbridge, GA, more than 12 feet above flood stage (but below the 1925 record crest).

Farther north and west, almost daily thunderstorms pushed weekly rainfall above 5 inches in locations such as Chattanooga, TN (7.24 inches), Shreveport, LA (6.22 inches), and Tulsa, OK (5.30 inches). Scattered heavy rain in west Texas hit Del Rio on consecutive days (1.39 inches on Thursday and 1.26 inches on Friday). Prior to the rain, Del Rio tied a daily record high (103°F on Monday). Philadelphia, PA also witnessed a daily record high

**Cotton** squaring for the 14 major producing States was 89% complete, up 7 points from last week and 8 points ahead of the average. Cotton setting bolls was 47% for the major producing States, up 15 points from last week and 10 points ahead of the average. Tennessee cotton squaring and setting bolls were up 10 points from both last week and the average. Missouri and Arkansas were up 37 and 39 points, respectively, from last week for setting bolls. Both Georgia and Tennessee were up 27 points from last week for setting bolls. Alabama reported surplus soil moisture from the excessive rains and was behind the average for cotton setting bolls. In the Texas plains some dry-land cotton fields continued to show signs of heat stress, while boll weevil pressure was reported to increase in some fields. Some cotton farmers in Arizona reported irrigation water shortages.

**Sorghum** condition was good to fair, up slightly from last week and the previous year. Sorghum headed was 33% for the week, 7 points ahead of last week and 6 points ahead of the average. Sorghum headed was up 19 points in Arkansas from the previous week, and 29 points ahead of the average. Some fields in the Texas Plains showed signs of heat stress, while the harvest was in full swing in South Texas.

**Rice** condition was mostly good, down slightly from last week but up from last year. Rice headed was 26%, up 8 points from last week and 5 points ahead of the average. Louisiana reported rice headed at 53%, 1 point behind the average, while Arkansas and Texas were 10 points ahead of the average. Sheath blight and blast were reported in some Arkansas rice fields. Rice harvest in South-central Texas and the Upper Coast continued in early planted fields with yields slightly lower the expected.

**Soybean** condition was mostly good, up slightly from last week, and above last year. Soybean blooming was 55% complete, 20 points over last week and 19 points ahead of the average. The average height of soybeans ranged from 18 inches in North Dakota to 20 inches in Indiana. Planting of double-crop soybeans was nearing completion, while many early planted fields have bloomed and have begun to set pods. Soybeans blooming in Indiana and Iowa increased 25 points from last week, while Kansas and Missouri were up 20 points. Arkansas reported flood damage to soybean fields in Crawford County.

(98°F on July 13) followed by torrential rainfall (2.89 inches on July 14). In the Corn Belt, widespread midweek showers left only spotty areas with serious topsoil moisture shortages. Weekly totals were less than one-tenth of an inch in Fort Wayne, IN and Peoria, IL. Dry conditions prevailed in the West, with a northward surge of heat. Highs reached 109°F in Redding, CA on July 13 and 14. On Saturday, highs topped 100°F in locations such as Winnemucca, NV, Medford, OR, and Richland, WA.

**CORRECTION:** On last week's back cover, the 4-day rainfall for Macon, GA was printed as 3.61 inches, but should have been listed as 13.61 inches. Macon was also left off a list of flooded cities in the National Highlights section (page 1). The Ocmulgee River, which bisects Macon, crested at 17.3 feet above flood stage on July 7 (5.5 feet above the previous flood of record in March 1990), swamping a water treatment plant that serves about 150,000 customers.

### Crop Condition

for the Week Ending July 17, 1994

#### SORGHUM

State	VP	P	F	G	EX
AR	0	0	14	69	17
CO	0	1	44	46	9
IL	0	0	7	83	10
KS	0	1	27	67	5
LA	0	1	37	62	0
MS	0	0	10	80	10
MO	0	2	42	55	1
NE	0	0	10	74	16
NM	0	47	39	14	0
OK	0	5	50	45	0
SD	8	0	6	77	9
TX	1	3	36	50	10
12 State	1	2	28	60	9
Prev Week	1	2	27	63	7
Prev Year	1	6	33	50	10

#### CORN

State	VP	P	F	G	EX
CO	0	2	20	54	24
GA	0	0	4	77	19
IL	0	0	13	58	29
IN	0	2	21	67	10
IA	0	0	2	41	57
KS	0	1	36	58	5
KY	0	1	13	77	9
MI	1	4	25	50	20
MN	0	1	8	61	30
MO	0	6	30	56	8
NE	0	1	15	62	22
NC	1	3	23	64	9
OH	1	6	27	51	15
PA	0	4	21	50	25
SD	2	2	7	56	33
TX	0	1	24	62	13
WI	0	0	0	49	51
17 State	0	1	13	57	29
Prev Week	0	1	14	57	28
Prev Year	4	12	35	41	8

#### COTTON

State	VP	P	F	G	EX
AL	0	5	24	63	8
AZ	0	0	5	75	20
AR	0	0	11	77	12
CA	0	0	0	85	15
GA	0	0	28	65	7
LA	0	0	11	77	12
MS	0	0	10	70	20
MO	0	0	33	67	0
NM	0	0	25	67	8
NC	0	2	29	67	2
OK	0	0	14	86	0
SC	0	0	19	81	0
TN	0	0	13	80	7
TX	0	2	44	43	11
14 State	0	1	26	62	11
Prev Week	0	4	22	63	11
Prev Year	0	4	39	53	4

#### RICE

State	VP	P	F	G	EX
AR	0	0	5	88	7
CA	0	0	5	90	5
LA	0	0	61	39	0
MS	0	0	2	83	15
TX	0	0	0	75	25
5 State	0	0	16	76	8
Prev Week	0	0	15	77	8
Prev Year	0	0	36	64	0

#### SOYBEANS

State	VP	P	F	G	EX
AL	0	4	10	78	8
AR	0	0	26	74	0
GA	0	0	13	79	8
IL	0	0	14	71	15
IN	0	2	27	67	4
IA	0	0	4	52	44
KS	0	0	30	68	2
KY	0	1	19	72	8
LA	0	12	32	56	0
MI	5	10	30	45	10
MN	0	4	14	63	19
MS	0	0	10	70	20
MO	0	2	38	58	2
NE	0	0	9	64	27
NC	0	3	30	63	4
OH	1	7	30	48	14
SC	0	0	31	69	0
SD	0	0	6	63	31
TN	0	0	17	75	8
19 State	0	2	19	63	16
Prev Week	0	2	19	66	13
Prev Year	3	13	42	38	4

#### SPRING WHEAT

State	VP	P	F	G	EX
ID	1	7	20	60	12
MN	0	6	33	58	3
MT	3	11	23	39	24
ND	1	5	20	60	14
SD	2	0	45	50	3
5 State	1	5	26	56	12
Prev Week	1	5	25	56	13
Prev Year	0	2	15	64	19

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

### Crop Progress

for the Week Ending July 17, 1994

#### RICE HEADED

	Current	Last Wk	1993	Avg.
AR	15	8	2	5
CA	0	0	0	0
LA	53	42	49	54
MS	18	10	14	22
TX	67	50	30	57
5 States	26	18	15	21

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

#### CORN SILKING

	Current	Last Wk	1993	Avg.
CO	18	4	4	4
GA	98	98	98	98
IL	69	23	21	50
IN	40	15	20	33
IA	52	10	1	16
KS	70	45	45	50
KY	67	41	56	54
MI	10	2	5	10
MN	8	3	0	3
MO	55	36	20	48
NE	66	23	9	27
NC	92	86	80	81
OH	24	3	16	28
PA	10	0	6	8
SD	20	3	0	8
TX	75	67	71	78
WI	12	*6	0	10
17 States	46	18	15	29

(\* Revised)  
These 17 States produced 91% of the 1993 corn crop.

#### GRAIN SORGHUM HEADED

	Current	Last Wk	1993	Avg.
AR	61	42	17	32
CO	1	0	1	2
IL	12	5	2	12
KS	10	5	1	4
LA	77	65	50	61
MS	63	60	42	52
MO	22	0	11	19
NE	9	0	0	3
NM	2	0	1	3
OK	18	3	13	13
SD	2	1	0	2
TX	72	67	64	65
12 States	33	26	24	27

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

(Continued to the back cover)

## 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 0.70 to 3.96 in. north; 0.10 to 3.25 in. central; 0.47 to 4.54 in. south. Temperatures 4° below normal to 1° above normal statewide. Lows 64 to 70° north; 65 to 70° central; 64 to 71° south. Highs 85 to 89° north; 86 to 92° central; 91 to 95° south.

Days suitable for fieldwork 2.4. Soil moisture 9% adequate, 91% surplus. Corn silked 90%, 83% 1993, 89% avg.; dented 35%, 30% 1993, 45% avg.; mature 7%, 7% 1993, 17% avg.; 4% poor, 11% fair, 63% good, 22% excellent. Sorghum planted 93%, 89% 1993, 96% avg.; 13% poor, 24% fair, 50% good, 13% excellent. Peanuts pegged 42%, 58% 1993, 78% avg.; 28% poor, 42% fair, 30% good. Wheat harvested 89%, 94% 1993, 94% avg. Pasture feed 15% fair, 54% good, 31% excellent. Livestock 13% fair, 72% good, 15% excellent. Activities: Planting sorghum, vegetables, harvesting vegetables, controlling weeds, insects.

**ALASKA:** Partly sunny skies, seasonal temperatures dominated the weather picture. Nearly all areas have had below normal rainfall totals since the beginning of May.

Days suitable for making hay 5. First crop hay harvest was 60% complete, compared to 75% last year. Crop growth was 30% slow, 50% moderate, 20% rapid. Barley was 10% in dough, compared to 90% in 1993. Oats were 5% in dough, compared to 60% in the previous year. Condition of barley 10% poor, 45% fair, 40% good, 5% excellent. Commercial potato 30% fair, 70% good. Potato height 11 in., 1 in. less than last year. Topsoil moisture supplies were 60% short, 40% adequate. Subsoil moisture supplies were 45% short, 55% adequate.

**ARIZONA:** Temperatures remain near normal; 2° below to 6° above. Extremes 41°; 105° higher elevations; 60°; 115° deserts. Precipitation trace Tucson, 0.41 in. Douglas, 0.01 in. Safford Ag Center.

Cotton farmers continue watching irrigation, some areas reporting shortages. Cotton mostly good; squaring 100%, 99% 1993, 99% avg.; setting bolls 84%, 85% 1993, 87% avg. Weed, insect, disease infestations reported moderate. Small grains harvested 100%, 100% 1993, 100% avg. Alfalfa good to excellent. Harvest continues active. Weed infestations, insect, disease infestations light. Citrus, grape harvest nearing end; grapefruit, valencia oranges, grapes available western, central areas. Vegetables harvested from central areas included carrots, green onions, potatoes. Cantaloupe, honeydew, watermelons available central, western areas. Tomatoes available eastern areas.

**ARKANSAS:** Temperatures slightly below normal with showers, thunderstorms, heaviest in southwest. Extremes 55°; 97°. Precipitation 0.22 to 6.63 in.

Days suitable for fieldwork 5. Soil moisture 18% short, 47% adequate, 35% surplus. Crop development ahead of schedule. Crawford County reported flood damage to soybeans. Sheath blight, blast reported in several rice fields. Peaches, blueberries, tomatoes, watermelons mostly good with harvest ongoing. Hay harvest continuing. Alfalfa 8% poor, 50% fair, 42% good. Other hay 4% poor, 56% fair, 37% good, 3% excellent. Pasture 4% very poor, 10% poor, 40% fair, 41% good, 5% excellent. Livestock good condition. Producers in north-central areas feeding hay due to dry pastures.

**CALIFORNIA:** Temperatures a few degrees below normal near coast; a few degrees above normal stations protected from cooler marine air. Low clouds, fog persisted right on coast.

Hot, dry weather permitted good progress field activities, aided development most crops. Small grain harvest virtually complete, except higher elevation fields. Second crop seedlings corn, dry beans rapidly winding down. Rice good growth; some growers sprayed weeds. Cotton blooming, setting bolls most areas; progress near normal. Fields irrigated, thinned, treated weeds, lygus, mites, pink bollworm, whitefly. Silage corn greenchopped southern counties. Corn, dry beans sprayed mites. Few early fields safflower harvested. Over-wintered sugarbeets harvested; new crop fields fertilized, treated aphids. Alfalfa, bermuda grass, sudan grass cut, baled. Some alfalfa sprayed worms, weevils. Table grape, Freestone, Cling peach, plum, nectarine, Valencia orange harvests continued. Gala apple harvest began Fresno County. Thompson Seedless grape harvest began Kern County. Coachella Valley table grape harvest completed. Spraying to control various pests; almonds, apples, pears, walnuts. Riverside County avocado harvest nearly complete. Star Ruby grapefruit shipments steady. South coast lemons packed; good prices. Beans growing good Sutter County. Light broccoli harvested central coast. Celery harvest continued central coast. Carrots harvested Kern County. Cucumbers harvested Fresno County. Harvest garlic coastal areas continued. Lettuce fields along central coast disced under because poor prices. Some lettuce shredded salad mix San Benito County. Fall lettuce fields irrigated, bedded Fresno County.

Melon harvest San Joaquin Valley continued, nearly completed Blythe. Dry onions harvested San Joaquin Valley. Pepper harvest continued central valley. Fall potatoes Tulalake-Butte Valley growing well. Winter potatoes planted in San Jacinto District. Sweet corn harvest full swing Fresno, Tulare counties. Fresh market, processing tomato harvests gained momentum San Joaquin, Sacramento valleys. Vine seed fields looking good Sutter County. Other crops being harvested: eggplant, radishes, summer squash, peas, tomatillos, various oriental vegetables. Hot temperatures limited pasture growth. Pasture, rangeland conditions dry. Irrigated pastures good shape. Water supplies adequate, showing effects of drought conditions. Most cattle moved to upper summer ranges. Supplemental feeding necessary, cattle remaining on lower ranges, poor nutritional value of grasses. Condition upper elevation pastures declined, prompted light supplemental feeding. Sheep grazing harvested tomato fields. Cattle, sheep in good condition.

**COLORADO:** Much of the eastern half of the State received needed rainfall. Severe weather accompanied the rainfall with numerous reports of golf ball hail or larger. West remained quite hot, dry throughout the week. Temperatures were slightly below normal for the week.

Days suitable for fieldwork 6.1. Soil moisture 23% very short, 41% short, 35% adequate, 1% surplus. Dry conditions continue; hail with high winds spotty across eastern plains, minor crop damage. Alfalfa first cutting complete; second cutting 60% complete, 24% 1993, 20% avg. Spring barley 45% turning color, 46% 1993, 51% avg. Spring barley 13% harvested, 1% 1993, 10% avg.; 9% very poor, 12% poor, 18% fair, 48% good, 13% excellent. Dry beans 24% flowered, 7% 1993, 7% avg.; 1% poor, 19% fair, 61% good, 19% excellent. Oats 92% headed, 91% 1993, 87% avg.; 83% turning color, 57% 1993, 52% avg. Oats harvested 45%, 3% 1993, 13% avg.; 16% poor, 35% fair, 41% good, 8% excellent. Dry onion 1% poor, 18% fair, 54% good, 27% excellent. Sugarbeets 3% poor, 15% fair, 53% good, 29% excellent. Spring wheat 92% headed, 78% 1993, 83% avg.; 21% turning color, 20% 1993, 24% avg. Spring wheat 7% poor, 24% fair, 54% good, 15% excellent. Summer potatoes 1% poor, 20% fair, 47% good, 32% excellent. Fall potatoes 4% poor, 18% fair, 60% good, 18% excellent. Winter wheat harvest virtually complete except on west slope. Livestock fair to good. Pasture, range feed condition poor to fair, except northeast, east-central plains where condition remains very poor.

**FLORIDA:** Temperatures within 2° of normal. Highs; low to mid 90s. Lows; upper 60s to upper 70s. Rain on 1 to 5 days. Rain totals from 1.00 to over 3.00 in. Panhandle, west central Peninsula, less than 0.10 to locally over 1.50 in. elsewhere.

Soil moisture mostly surplus Panhandle, fields waterlogged, many areas flooded. Soil moisture adequate to surplus north Peninsula. Central, southern Peninsula adequate moisture with scattered areas short. Tobacco harvest active. Corn harvest starting. Weed control, cotton, peanuts, soybeans virtually impossible Panhandle. Sugarcane good progress. Hay delayed by wet conditions. Some hay lost in Panhandle. Frequent rain most areas, citrus belt. Limited irrigation some areas. Very good fruit growth due to recent rains. Valencia harvest virtually over. Grapefruit completed all areas. Caretakers cutting cover crops, hedging, topping, spraying, fertilizing. Field preparation, laying plastic for fall crop planting active north, central. Some northern county fields waterlogged. Commercial vegetable harvest virtually complete. Limited volume of summer crops for local markets. Pasture feed 10% poor, 5% fair, 50% good, 35% excellent. Cattle herds good to excellent.

**GEORGIA:** Wet weather early in week; fewer showers, hotter temperatures by late week, weekend. Rivers across southern areas crested late week, receded over weekend. Rainfall 1.00 to 2.00 in. extreme north, northwestern areas. Rain totals elsewhere mostly 0.50 in. or less, locally more than 1.00 in., isolated heavier storms. Temperatures within 1 or 2° of normal. Hottest temperatures mid 80s northeast mountains to mid to upper 90s southeast. Coolest temperatures mid 60s northeast mountains to near 70° elsewhere.

Days suitable for fieldwork 2.6. Soil moisture 2% short, 32% adequate, 66% surplus. Corn 94% dough, 83% 1993, 89% avg.; 71% dent, 52% 1993, 63% avg.; 22% mature, 12% 1993, 17% avg. Sorghum 88% fair, 78% good, 4% excellent; 97% planted, 98% 1993, 98% avg. Peanuts 22% fair, 76% good, 2% excellent; 99% blooming, 98% 1993, 99% avg.; 91% pegging, 88% 1993, 85% avg.; excessive rains increasing diseases, interrupting spray schedules. Soybeans 99% planted, 100% 1993, 99% avg.; 9% setting pods, 4% 1993, 5% avg.; Weed problems. Tobacco 5% poor, 34% fair, 58% good, 3% excellent; 36% harvested, 21% 1993, 36% avg.; rains slowing harvest. Watermelons 9% very poor, 6% poor, 34% fair, 49% good, 2% excellent; 86% harvested, 73% 1993, 79% avg. Other vegetables 1% very poor, 20% poor, 36% fair, 42% good, 1% excellent.

Apples 10% fair, 81% good, 9% excellent; 2% harvested, 0% 1993, 3% avg. Peaches 4% very poor, 25% poor, 18% fair, 53% good; 90% harvested, 82% 1993, 84% avg. Pecans 34% fair, 66% good. Hay 6% poor, 22% fair, 64% good, 8% excellent; quality declining due to frequent rains keeping farmers out of fields. Pasture feed 6% fair, 75% good, 19% excellent. Cattle 4% fair, 88% good, 8% excellent. Hogs 5% fair, 88% good, 7% excellent.

**HAWAII:** Mostly sunny. Showers during first half of week, mostly windward sectors during evenings, early mornings. Rainfall scattered, heavier during the latter half of week. Winds 10 to 25 mph. Remnants of tropical depression Daniel produced humid conditions over the weekend. Temperatures high 60s to low 90s. Rainfall none to 6.40 in. Weather somewhat 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 3° below to 2° above normal. Precipitation none to 0.02 in. north, none southwest, none central, none east.

Days suitable for fieldwork 7. Soil moisture 17% very short, 38% short, 45% adequate. Potato progress: not yet 12" high 6%, 12" high 29%, closing middles 63%, turning 2%; 2% poor, 11% fair, 71% good, 16% excellent. Barley headed 96%, 62% 1993, 81% avg. Barley 1% very poor, 3% poor, 16% fair, 64% good, 16% excellent. Alfalfa hay harvested (1st cutting) 98%, 95% 1993, 97% avg.; (2nd cutting) 22%, 14% 1993, 18% avg. Mint acreage harvested 10%, 8% 1993, 13% avg. Peaches harvested 13%, 7% 1993, 6% avg. Irrigation water supplies 11% very poor, 21% poor, 26% fair, 39% good, 3% excellent. Activities: Irrigating, cutting alfalfa, preparing for grain harvest.

**ILLINOIS:** A frontal boundary held near the State, brought scattered showers, subdued temperatures. Temperatures were near normal east with readings some 2 to 3° sub-normal west. Highs were mostly in the low to mid 80s. Lows were in the 60s. Rainfall for the week was quite variable. Rainfall 1.00 to less than one-tenth inch with best coverage, amounts over the northern third of the State.

Days suitable for fieldwork 6.0. Soil moisture 36% short, 64% adequate. Corn dough 4%, less than 1% 1993, 9% avg. Soybeans setting pods 11%, less than 3% 1993, 17% avg. Oats turning yellow 97%, 55% 1993, 82% avg.; ripe 82%, 17% 1993, 53% avg.; harvested 30%, 2% 1993, 27% avg.; 10% excellent, 70% good, 17% fair, 3% poor. Alfalfa hay second cutting 80%, 51% 1993, 65% avg.; third cutting 7%, 3% 1993, 5% avg.; 13% excellent, 73% good, 12% fair, 2% poor. Pasture feed 88% of normal. Soil moisture continues short in central, east portion of State with continued crop stress in these areas. Crop conditions improved across the north with scattered rains most of week. Other areas received minimal rain, crop stress increased. Aerial spraying for corn rootworm beetles, spider mites began in the central, east as these pests intensified. Wheat harvest is nearly complete with planting of double crop soybeans, baling of straw winding up primarily in the south. Farm activities included crop scouting and insecticide application, cutting hay, mowing weeds.

**INDIANA:** Drier than normal weather occurred across much of State. Severe thunderstorms occurred in the north. High temperatures from the low 80s to the upper 80s, which was mostly 1 to 4° below normal. Lows averaged in the low to mid 60s to around 70° south. This was normal to 5° above normal. Highest readings were in the mid 80s to around 90°. Rainfall around 0.15 to 0.80 in., which is below normal by around 0.20 to 0.90 in. across the State. A few isolated areas received 1.00 to 3.00 in.

Days suitable for fieldwork 5. Japanese beetles, spider mites are being reported in some fields. Winter wheat harvest continued as farmers dodged the rains. Second cutting of hay, straw baling were major activities this week. Cultivating soybeans, spraying weeds, planting double crop soybeans, harvesting mint were other activities. Pasture feed 82% of normal, 85% last week. Topsoil 22% short, 65% adequate, 13% surplus. Subsoil moisture 23% short, 70% adequate, 7% surplus. Winter wheat 100% ripe, 100% 1993, 95% avg. Corn 68 in. high, 59 in. 1993, 59 in. avg. Soybeans 20 in. high, 19 in. 1993, 17 in. avg. Oats harvested 36%, 32% 1993, 34% avg. Alfalfa 2nd cutting 66%, 49% 1993, 54% avg.

**IOWA:** Temperatures 1° below normal southeast to 4° below normal northwest. Extremes 51°, 92°. Highly variable rain totals from as low as 0.01 in. south central up to 5.05 in. north central; State average 1.09 in. (normal 0.94 in.).

Days suitable for fieldwork 4.3. Topsoil 8% short, 70% adequate, 22% surplus. Subsoil 2% short, 83% adequate, 15% surplus. Corn tasseled 78%, 7% 1993, 34% avg. Soybeans setting pods 25% 1994, 0% 1993, 8% avg. Oats turning color 100%, 45% 1993, 85% avg. Oats harvested for grain 30% 1994, 0% 1993, 23% avg. Alfalfa hay 2nd crop harvested 56%, 8% 1993, 39% avg. Clover hay 2nd crop harvested 16%, 0% 1993, 17% avg. Winter wheat harvested for grain 66%, 5% 1993, 54% avg.

Pasture 18% fair, 67% good, 15% excellent. Oats 1% poor, 22% fair, 68% good, 9% excellent. Hay 2% poor, 26% fair, 64% good, 8% excellent. Livestock doing well. Current crop is comparable to the crop condition in 1972 at this time; 1972 had the best weekly condition during the period 1968-1994. However, other years had comparable condition at this time of year, did not do so well as the year progressed.

**KANSAS:** Temperatures below normal across the State. By district temperatures 1 to 4° below normal. Precipitation received in all districts. Rainfall 0.13 in. northeast to 1.55 in. northwest.

Days suitable for fieldwork 5.5. Surface soil moisture 42% short to very short, 53% adequate, 5% surplus. Subsurface moisture 36% short to very short, 62% adequate, 2% surplus. Fall crops are making good progress toward maturity. Corn, sorghum, soybeans all ahead of average maturity. Approximately two-thirds of corn, sorghum, soybeans are rated in good to excellent condition. Corn silking in all districts, is in dough in all districts except the northwestern district. Corn in dough stage for the State is 10%, 3% 1993, 10% avg. Spider mites, corn borers reported in the western, southern districts. All districts except the west central, northwestern districts have headed sorghum. Chinch bugs are reported in many areas of the State. Some moderate infestations are reported mostly in the central district. Soybeans are blooming in all districts, have begun to pod in all districts except the northwest, west central. Soybeans podding 5%, 2% 1993, 5% avg. Alfalfa 2nd cutting virtually complete; 3rd cutting 20%, 2% 1993, 10% avg. Pastures are in good condition in all districts except the southern districts, northeastern district where they are fair.

**KENTUCKY:** Hot, humid conditions. Afternoon highs a bit cooler than previous week, highs mainly upper 80s. Temperatures mid to upper 70s, 1 to 2° above normal. A stationary front lingered, bringing precipitation 0.10 to over 3.00 in. Heaviest rainfall eastern third.

Days suitable for fieldwork 4.1. Soil moisture 11% very short, 38% short, 47% adequate, 4% surplus. Corn developing rapidly, about 17% in milk stage. Corn condition highly variable, mostly good. Early soybeans setting pods. Most intended double crop beans were planted, generally off to satisfactory start. Tobacco condition 2% poor, 38% fair, 57% good, 3% excellent. Burley 22% blooming or beyond, 1993 18%, 25% avg. Numerous insects in tobacco, hornworm infestations heavy. Pasture, hay crops fair, short some areas. Ponds low certain areas, some water hauling to livestock.

**LOUISIANA:** Temperatures 1.3 to 2.3° below normal. Extremes 65°, 95°. Rainfall 0.94 in. west central to 4.87 in. northwest, south central.

Days suitable for fieldwork 3.1. Soil moisture supplies 2% short, 35% adequate, 63% surplus. Corn 15% fair, 71% good, 14% excellent; 93% dough stage, 82% 1993, 85% avg.; 34% mature, 6% 1993, 24% avg.; 1% harvested, 0% 1993, 0% avg. Isolated cases of blight were reported in some fields because of wet weather. Cotton insecticide usage increased. Hay 96% first cutting, 96% 1993, 88% avg.; 11% second cutting, 5% 1993, 4% avg. Delayed because of rain. Peaches 87% harvested, 68% 1993, 71% avg. Rice 4% ripe, 3% 1993, 7% avg.; 1% harvested, 0% 1993, 2% avg. Harvest began in the southern parishes. Sorghum 9% turning color, 4% 1993, 10% avg.; 0% ripe, 0% 1993, 1% avg. Soybeans 99% planted, 98% 1993, 97% avg.; 99% emerged, 95% 1993, 94% avg.; 10% setting pods, 9% 1993, 8% avg. Rain has kept the last few acres from being planted. Sweet potatoes 97% planted, 87% 1993, 93% avg.; 0% harvested, 0% 1993, 0% avg. Virtually complete. Sugarcane 23% fair, 77% good. Livestock 14% poor, 48% fair, 36% good, 2% excellent. Pasture 1% poor, 7% fair, 84% good, 8% excellent. Vegetables 29% fair, 61% good, 10% 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 6.0. Topsoil 8% very short, 35% short, 57% adequate. Subsoil 13% very short, 55% short, 32% adequate. Pasture feed poor to fair. Small grain fair to good. Winter wheat 94% harvested, 97% 1993, 88% avg. Barley 99% harvested, 99% 1993, 97% avg. Rye 86% harvested, 90% 1993, 84% avg. Oats 75% turned, 71% 1993, 74% avg. Corn fair; 34% silking, 38% 1993, 35% avg. Soybeans fair; 96% planted, 96% 1993, 94% avg. Sorghum fair; beginning to head. Tobacco fair to mostly good; 4% bloomed, 9% 1993, 13% avg. Sweet corn 33% harvested, 17% 1993, 20% avg. Tomato 13% harvested, 13% 1993, 15% avg. Potato 41% harvested, 11% 1993, 17% avg. Cucumber 42% harvested, 42% 1993, 48% avg. Melon, lima beans harvests underway. Snap beans 42% harvested, 38% 1993, 49% avg. Other hay 59% second cutting, 56% 1993, 36% avg. Alfalfa hay 92% second cut harvested, 88% 1993, 76% avg. Apples fair to mostly good, peaches poor, 17% harvested, 8% 1993, 13% avg.

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

Days suitable for fieldwork 6.5. Topsoil 9% very short, 46% short, 45% adequate. Subsoil 10% short, 40% short, 50% adequate. Pasture feed fair. Small grain fair to good. Wheat 90% harvested, 98% 1993, 96% avg. Barley 100% harvested, 100% 1993, 100% avg. Corn mostly fair; 35% silked, 57% 1993, 52% avg. Soybeans 95% planted, 94% 1993, 95% avg.

Sweet corn 23% harvested, 22% 1993, 21% avg. Snap beans 52% harvested, 43% 1993, 46 avg. Green peas are virtually complete. Watermelons, Lima beans, tomatoes are beginning to harvest. Other hay 36% second cut, 65% 1993, 50% avg. Alfalfa hay 68% second cut, 94% 1993, 83% avg. Apples good; peaches fair to mostly good, 17% harvested, 15% 1993, 22% avg.

**MICHIGAN:** Extremes 43°; 91°. Precipitation none to 2.05 in.

Days suitable for fieldwork 4.5. Soil moisture 10% short, 45% adequate, 45% surplus. Dry beans 5% blooming, 7% 1993, 10% avg.; 15% very poor, 25% poor, 30% fair, 25% good, 5% excellent. Oats 90% headed, 80% 1993, 90% avg.; 25% turning, 20% 1993, 40% avg.; 1% very poor, 9% poor, 30% fair, 45% good, 15% excellent. Wheat 90% turning, 90% 1993, 95% avg.; 50% ripe, 30% 1993, 50% avg.; 30% harvested, 5% 1993, 20% avg.; 3% very poor, 7% poor, 30% fair, 50% good, 10% excellent. Hay 95% first cutting, 95% 1993, 95% avg.; 25% second cutting, 25% 1993, 25% avg.; 3% very poor, 7% poor, 25% fair, 45% good, 20% excellent. Pasture feed 90% of normal. Major activities included: Mowing orchards, harvesting wheat, cultivating, spraying field crops.

**MISSISSIPPI:** Temperatures 2.4° below normal. Extremes 64°; 93°. Soil temperature 82°. Rainfall 3.05 in., 1.95 in. above normal. Entire State experienced heavy rainfall averaging 6.1 days of rain. Southeast district accumulated the greatest with over 5.00 in.

Days suitable for fieldwork 0.9. Soil moisture 14% adequate, 86% surplus. Corn 99% silked, 79% 1993, 87% avg.; 65% dough, 38% 1993, 53% avg.; 25% dent, 10% 1993, 26% avg.; 70% good, 30% excellent. Cotton 100% squaring, 92% 1993, 92% avg.; 60% setting bolls, 34% 1993, 50% avg.; 10% fair, 70% good, 20% excellent. Rice 18% heading, 14% 1993, 22% avg.; 2% fair, 83% good, 15% excellent. Sorghum 63% heading, 42% 1993, 52% avg.; 15% turning color, 5% 1993, 10% avg.; 10% fair, 80% good, 10% excellent. Soybeans 100% emerged, 92% 1993, 87% avg.; 35% blooming, 15% 1993, 20% avg.; 10% podding, 1% 1993, 5% avg.; 10% fair, 70% good, 20% excellent. Wheat 100% harvested, 97% 1993, 99% avg. Hay 73% harvested, 69% 1993, 57% avg. Peaches 88% harvested, 69% 1993, 78% avg. Sweetpotatoes 99% planted, 99% 1993, 97% avg. Watermelons 50% harvested, 28% 1993, 39% avg.; 10% poor, 60% fair, 30% good. Livestock 83% good, 17% excellent. Pasture 92% of normal. Activities: Insect control in cotton, harvesting hay, waiting for fields to dry.

**MISSOURI:** Temperatures about 4° below normal in the northeast to normal readings in the north central, east central. Rainfall 0.82 in., 0.46 in. northwest to 1.60 in. southwest.

Days suitable for fieldwork 5.7. Topsoil moisture 51% short, 46% adequate, 3% surplus. Subsoil moisture 29% short, 70% adequate, 1% surplus. Corn silking most advanced in southeast, 90%. Wheat harvest virtually complete. Oat harvest 77%, 21% 1993, 59% avg. Alfalfa hay second cutting 89%, 39% 1993, 67% avg. Other hay cut 90%, 71% 1993, 82% avg. Pastures 3% very poor, 28% poor, 45% fair, 20% good, 4% excellent.

**MONTANA:** Temperatures and precipitation were below normal.

Days suitable for fieldwork 6.7. Topsoil moisture 51% short, 48% adequate, 1% surplus. Subsoil moisture 44% short, 54% adequate, 2% surplus. Winter wheat 81% turning color, 29% 1993, 48% avg.; 2% ripe, 0% 1993, 2% avg. Spring wheat 8% turning color, 1% 1993, 7% avg. Barley 29% turning color, 2% 1993, 11% avg.; 3% very poor, 10% poor, 30% fair, 40% good, 17% excellent. Oats 10% turning color, 1% 1993, 8% avg.; 5% poor, 23% fair, 48% good, 24% excellent. Sugarbeets 1% very poor, 1% poor, 8% fair, 65% good, 25% excellent. First cutting alfalfa 92%, 43% 1993, 71% avg. Other hay harvest 80%, 25% 1993, 54% avg. Pasture, range feed 89% of normal.

**NEBRASKA:** Temperatures 3 to 6° below normal. Rain occurred throughout week varying from 0.30 in. east central to 2.70 in. southwest.

Days suitable for fieldwork 3.8. Topsoil moisture 12% short, 72% adequate, 16% surplus. Subsoil moisture 15% short, 81% adequate, 4% surplus. Winter wheat 91% harvested, 13% 1993, 57% avg. Corn 1% poor, 15% fair, 62% good, 22% excellent; 66% silked, 9% 1993, 27% avg.; 5% dough, 0% 1993, 1% avg. Soybean 9% fair, 64% good, 27% excellent; 76% blooming, 12% 1993, 29% avg.; 9% setting pods, 1% 1993, 2% avg. Sorghum 10% fair, 74% good, 16% excellent; 9% headed, 0% 1993, 3% avg. Dry beans 5% poor, 34% fair, 57% good, 4% excellent; 32% blooming, 9% 1993; 13% setting pods. Pasture, range feed 90% of normal.

**NEVADA:** Mostly clear, dry weather persisted over State. Widely scattered thundershowers over the northern mountains occurred toward end of week. Only Stateline at the eastern border reported any measurable precipitation. Several brush fires were ignited by dry lightning, with a few remaining uncontrolled. Temperatures 2 to 4° above normal. Extremes for State 30°, 115°.

Second cutting of alfalfa continued. Small grain harvest advancing northward. Pasture, range conditions continue to decline as drought intensifies.

**NEW ENGLAND:** Precipitation 0.07 to 0.76 in. regionwide. One isolated area in Connecticut 5.91 in. Temperatures 65 to 73° north; 65 to 74° south. Maximum temperatures 81 to 93° north; 85 to 95° south. Minimum temperatures 43 to 57° north; 45 to 64° south.

Maine potatoes condition good. Maine oats condition good. Field corn condition good. Tobacco condition good. Shade tobacco <5% harvested. First crop hay 85% harvested, 95% 1993, 90% avg.; good. Second crop hay 20% harvested, 10% 1993, 15% avg.; good to fair. Sweet corn harvest 5% harvested, good. Apples, pears average fruit set. Peaches light fruit set. Cranberries average fruit set. Major farm activities: Harvesting hay, vegetables. Cultivating crops. Applying herbicides, fertilizers.

**NEW JERSEY:** Temperatures above normal. Extremes 52°; 98°. Rainfall 0.26 in. north, 0.86 in. central, 1.79 in. south. Heaviest 24 hour total 2.01 in. on 17th, 18th. Estimated soil moisture, in percent field capacity, averaged 63% north, 57% central, 51% south. Four inch soil temperatures averaged 74° north, 76° central, 78° south.

Days suitable for fieldwork 6. Southern areas received much needed rainfall. However, hot, dry weather continued for most of central, northern areas. Farmers continue to irrigate crops. Short to adequate topsoil moisture supply reported statewide. Violent thunderstorms damaged peaches in limited areas of south. Harvest of Lodi, Jersey mac apples is increasing. Blueberry harvest is active, 80% harvested in south. Good supply of summer squash, cucumbers, green beans, cabbage (all types). Moderate, increasing supply of tomatoes, eggplants, peppers, watermelons, cantaloupes. Light volume of beets, herbs, leeks, green onions, parsley, turnips. Fall vegetables are being planted, including spinach, snap beans, cabbage, lettuce. Harvesting of sweet corn is increasing. Combining of wheat, barley reported. First hay cutting continues with second cutting occurring in limited areas. Pasture, range feed conditions remain below normal 70%.

**NEW MEXICO:** Great heat wave diminished substantially around the beginning of the week, temperatures still averaged 2° above normal for the State. Extremes 41° at Gallup on the 16th; 105° at Carlsbad on the 12th. Summer thunderstorm season has been very slow to get started this year, did make a weak appearance. Greatest totals were 1.34 in. at Des Moines, 0.77 in. at Ruidoso. Days suitable for fieldwork 6.7. Soil moisture 87% short, and 13% adequate. Cropland conditions: Alfalfa 4% poor, 14% fair, 71% good, 11% excellent. Irrigated wheat 17% fair, 66% good, 17% excellent. Dryland wheat 20% very poor, 80% fair. Chile was reported at 25% fair, 75% good. Corn 5% poor, 25% fair, 60% good, 10% excellent. Irrigated sorghum was reported as 7% poor, 36% fair, 57% good. Dryland sorghum was 60% poor, 40% fair. Cattle, sheep conditions varied across the State poor to excellent condition. Range feed reported another drop to 54% of normal.

**NEW YORK:** Continued warm, humid. Highest lower 80s in the Adirondacks to upper 90s in the mid-Hudson Valley to New York City. Extremes 51°; 98°. Precipitation below normal most areas. Light rainfalls reported. Rainfall none to 0.77 in.

Days suitable for fieldwork 5.6. Soil moisture mostly adequate, except on Long Island where supplies were very short. Pasture feed 93% of normal. Oats harvested where matured. Long Island potato harvesting continued. Upstate crop progressing well. Hay in good condition. Alfalfa first cutting 97% finished, 99% 1993, 94% avg. Clo-tim 91% harvested, 93% 1993, 87% avg. Dry bean planting nearing completion. Wheat good. Sweet corn harvest in full swing. Fresh market cabbage harvest continued. Lettuce seeding ended. Cabbage planting neared completion. Orange County onions grew well with only minor insect, disease problems. Overall good apple crop expected for State. Recent warm weather has pushed crop to normal stage of development. Tart cherry harvest began late week. Sweet cherry harvest winding down.

**NORTH CAROLINA:** Mean temperatures near normal to 5° above normal. Largest positive departures were in the coastal plain. Rainfall 0.02 in. at Whiteville to 3.61 in. at Tompkinsville.

Days suitable for fieldwork 5.5. Soil moisture 12% very short, 36% short, 43% adequate, 9% surplus. Crop conditions: Pasture 1% very poor, 15% poor, 35% fair, 45% good, 4% excellent; tobacco 1% poor, 15% fair, 73% good, 11% excellent; corn 1% very poor, 3% poor, 23% fair, 64% good, 9% excellent; cotton 2% poor, 29% fair, 67% good, 2% excellent; peanuts 41% fair and 59% good; soybeans 3% poor, 30% fair, 63% good, 4% excellent; hay 1% very poor, 8% poor, 42% fair, 46% good, 3% excellent; irish potatoes 5% poor, 25% fair, 70% good; sweet potatoes 37% fair, 58% good, 5% excellent; apples 22% fair, 67% good, 11% excellent; peaches 4% poor, 13% fair, 75% good, 8% excellent; truck crops 2% poor, 34% fair, 60% good, 4% excellent; hay, roughage supplies 1% very short, 30% short, 65% adequate, 4% surplus; peaches harvested 72%, 46% 1993, 61% avg.; flue-cured tobacco 8%, 6% 1993, 10% avg.; cotton squared

78%, 72% 1993, 83% avg.; cotton bloomed 46%, 41% 1993, 42% avg.; corn silked 92%, 80% 1993, 81% avg. corn soft dough 55%, 39% 1993, 49% avg.; soybeans flowered 18%, 8% 1993, 14% avg.; second cutting of hay is 51% complete with the third cutting 25% complete. Activities included: Topping tobacco; harvesting flue-tobacco, peaches, truck crops and applying pesticides. Other activities included: harvesting hay, small grain; cultivating crops; tending livestock; equipment repair.

**NORTH DAKOTA:** Cool week with several days of precipitation. Rainfall 0.26 in. southwest to 1.13 in. central. Temperatures 3 to 4° below normal. Extremes 39° west central; 96° west central.

Days suitable for fieldwork 5.2. Topsoil 1% very short, 10% short, 77% adequate, 12% surplus. Subsoil 9% short, 77% adequate, 14% surplus. Small grain development continued ahead of last year but behind average. Spring wheat 1% very poor, 5% poor, 20% fair, 60% good, 14% excellent; durum 2% poor, 17% fair, 60% good, 21% excellent; barley 1% very poor, 3% poor, 16% fair, 65% good, 15% excellent; oats 2% very poor, 5% poor, 19% fair, 62% good, 12% excellent. Spring wheat 8% turning to ripe and beyond, 1% 1993, 15% avg. Durum 2% turning to ripe and beyond, 0% 1993, 7% avg. Barley 18% turning to ripe and beyond, 2% 1993, 27% avg. Oats 9% turning to ripe and beyond, 2% 1993, 20% avg. Late season crops continued into blooming stage and average heights were ahead of last year and average. Flaxseed 1% poor, 12% fair, 70% good, 17% excellent; corn 1% very poor, 2% poor, 11% fair, 70% good, 16% excellent; dry edible beans 1% very poor, 3% poor, 19% fair, 64% good, 13% excellent; soybeans 5% poor, 17% fair, 69% good, 9% excellent; sunflower 1% poor, 9% fair, 73% good, 17% excellent; sugarbeets 3% poor, 6% fair, 69% good, 22% excellent; potatoes 5% poor, 17% fair, 76% good, 2% excellent. Average height of late season crops: Flaxseed 14 in., corn 47 in., dry edible beans 15 in., soybeans 18 in., sunflower 35 in., potatoes 24 in. Flaxseed 44% blooming and beyond, 28% 1993, 48% avg., dry edible beans 10% podding and beyond, 1% 1993, avg. NA, soybeans 15% podding and beyond, 0% 1993, 10% avg., sunflower 4% blooming and beyond, 0% 1993, 2% avg., potatoes 77% blooming and beyond, 70% 1993, 74% avg. 53% rows filled, 29% 1993, avg. NA. Range, pasture feed 90% of normal, hay 85% of normal. Alfalfa hay first cutting 91% complete, other hay 56%. Stockwater supplies 5% short, 84% adequate, 11% surplus.

**OHIO:** Summertime weather prevailed. Dry weather much of the time allowed for outdoor activities. Showers, thunderstorms came mainly 13th, 14th with locally heavy rain from some storms. Temperatures averaged close to normal, deviating only 1 or 2° to either side. Highs were in the low to mid 80s with average lows 60 to the mid 60s. Extreme highs in the upper 80s and lower 90s to low temperatures in the 50s to around 50°. Rainfall was quite variable. Rainfall 0.10 in. or less to a couple of inches. Heaviest rainfall was generally in the south; many areas had at least 1.00 in. Rainfall was generally been below normal over the past 2 weeks, but near to above normal over the past 4 weeks.

Days suitable for fieldwork 5.4. Soil moisture 13% short, 83% adequate, 4% surplus. Winter wheat harvest wrapping up at 88%. Corn has fourteen to sixteen leaves on average. Corn is tasseling, beginning to silk. Hay 5% poor, 34% fair, 53% good, 8% very good. Alfalfa hay cutting 68% complete. Other hay cutting 39% complete. Pasture 1% very poor, 7% poor, 34% fair, 51% good, 7% excellent.

**OKLAHOMA:** Temperatures 3° below normal southeast to 1° below normal Panhandle. Precipitation 0.20 in. southwest to 3.40 in. northeast. Days suitable for fieldwork 5.5. Topsoil moisture 50% short, 41% adequate, 9% surplus. Subsoil moisture 37% short, 63% adequate. Corn 3% poor, 12% fair, 81% good, 4% excellent; 98% tasseling, 73% 1993, 66% avg.; 36% milk-to-soft, 15% 1993, 20% avg.; 1% mature, 1% 1993, 1% avg. Soybeans 28% flowering, 9% 1993, 11% avg.; 4% setting pods, none 1993, 2% avg. Peanuts 26% fair, 74% good, 48% pegging, 44% 1993, 41% avg.; 10% setting pods, 24% 1993, 6% avg. Pasture 85% normal. Cattle prices steady to \$2 per cwt. above preceding week.

**OREGON:** Temperatures coast, western interior locations near normal, northeastern mountains up to 6° below normal, eastern locations up to 9° above normal. Dry statewide.

Soil moisture 49% short, 51% adequate. Winter wheat 9% harvested. Barley 15% harvested. Hay activities continued statewide. Eastern water allotments were being cut, extremely dry conditions. Grass seed harvest full swing, Willamette Valley. Potato crop good eastern sections. Onion crop excellent, two weeks ahead of normal; Malheur County. Willamette Valley: early onion, green bean broccoli, peas, summer squash, garlic harvest underway, strawberry harvest complete except a few everbearing fields, raspberry harvest past peak, blueberry harvest full swing, Marion blackberries harvest at peak, hazelnuts, walnuts look good. Willamette Valley, The Dalles district sweet cherry harvest complete. Hood River Valley apple, pear crop growing well, irrigation important due to hot temperatures. Willamette Valley, southwestern peach harvest underway. Cranberry development: sizing

continued, slowed by foggy windy conditions; southern coast. Livestock good to excellent. Range, pasture feed 81% of normal. Grasshopper outbreaks under control on rangelands. Stockwater very short on eastern rangelands. Southwestern areas hauling stockwater to livestock on rangeland. 19,000 acres of rangeland burned by wild fires north central areas.

**PENNSYLVANIA:** Above normal temperatures, below normal precipitation. Some locations received 3.00 in. of rainfall in one day. Temperature 77°, 8° above normal. Extremes 42°; 98°. Precipitation 0.65 in., 0.23 in. below normal.

Days suitable for fieldwork 5. Soil moisture 35% short, 58% adequate, 7% surplus. Corn 10% silk, 6% 1993, 8% avg.; height 49 in., 44 in. 1993, 39 in. avg.; 4% poor, 21% fair, 50% good, 25% excellent. Soybeans 100% planted, 100% 1993, 98% avg.; 1% very poor, 4% poor, 23% fair, 55% good, 17% excellent. Barley 98% turning yellow, 95% 1993; 92% ripe, 84% 1993; 79% harvested, 68% 1993. Wheat 96% turning yellow, 96% 1993; 82% ripe, 80% 1993; 53% harvested, 52% 1993. Oats 63% turning yellow, 65% 1993; 19% ripe, 18% 1993; 3% harvested, 4% 1993; 9% poor, 26% fair, 46% good, 19% excellent. Alfalfa first cutting 98% complete, 99% 1993. Second cutting alfalfa 56% complete, 54% 1993. Quality of hay made 10% poor, 28% fair, 62% good. First cutting timothy clover 90% complete, 95% 1993. Feed from pastures poor to fair. Apples 12% below avg., 87% avg., 1% above avg. Activities: Making hay; harvesting small grains; spraying corn; spreading fertilizer; repairing equipment; fixing fences; hauling manure; caring for livestock.

**PUERTO RICO:** Island average rainfall of 0.05 in. was 1.15 in. below normal. Highest totals were 0.70 in. at Canovanas and 0.54 in. at Pico del Este. Highest 24-hour total was 0.29 in. at Canovanas. Mean temperature at WSFO San Juan was 83.4°, 1.0° above normal. Elsewhere, temperatures averaged 81 to 84° on the coasts and 76 to 77° in the interior. Extremes: 55°, 96°.

**SOUTH CAROLINA:** Rainfall 0.50 in. Temperatures 1° above normal upstate to 4° above normal coast.

Days suitable for fieldwork 5.8. Soil moisture 53% short, 47% adequate. Tobacco fair to good; 95% topped, 84% 1993, 88% avg.; 31% harvested, 9% 1993, 19% avg. Corn fair to good; 85% doughing, 67% 1993, 70% avg.; 36% mature, 24% 1993, 21% avg.; 2% harvested, 4% 1993, 0% avg. Cotton 19% fair, 81% good; 90% squaring, 86% 1993, 87% avg.; 47% setting bolls, 61% 1993, 45% avg. Soybeans 31% fair, 69% good; 17% blooming, 17% 1993, 13% avg.; 4% setting pods, 1% 1993, 2% avg. Cantaloupes fair; 69% harvested, 66% 1993, 70% avg. Watermelons fair to good; 73% harvested, 66% 1993, 72% avg. Cucumbers fair to good; 88% harvested, 79% 1993, 81% avg. Peaches fair to good; 60% harvested, 46% 1993, 52% avg. Sorghum fair to good; 92% planted, 91% 1993, 88% avg.; 1% harvested, 0% 1993, 0% avg. Snap Beans fair to good; 65% harvested, 69% 1993, NA avg. Fall hay fair to good; 15% harvested, 24% 1993, 20% avg. Pasture feed fair to good.

**SOUTH DAKOTA:** Temperatures 1 to 7° below normal. Extremes 35°; 100°. Rainfall received over all of State. Greatest amounts 1.50 in. south central, south east. Heaviest 4.08 in. south east.

Days suitable for fieldwork 4.9. Topsoil 2% very short, 21% short, 54% adequate, 23% surplus. Subsoil 7% very short, 23% short, 52% adequate, 18% surplus. Winter wheat 4% very poor, 20% poor, 38% fair, 31% good, 7% excellent; 90% ripe, 17% 1993, 62% avg. Winter rye 2% very poor, 7% poor, 13% fair, 76% good, 2% excellent; 63% ripe, 10% 1993, 55% avg. Spring wheat 58% turning color, 28% 1993, 60% avg. Barley 5% very poor, 3% poor, 36% fair, 53% good, 3% excellent; 74% turning color, 34% 1993, 71% avg.; 20% ripe, 1% 1993, 33% avg. Oats 2% very poor, 2% poor, 45% fair, 46% good, 5% excellent; 64% turning color, 34% 1993, 71% avg.; 43% ripe, 24% 1993, 45% avg. Flax 19% poor, 37% fair, 44% good; 52% blooming, 42% 1993, 51% avg. Sunflower 9% very poor, 8% fair, 71% good, 12% excellent. Corn 36% tasseling, 0% 1993, 16% avg. Alfalfa 35% 2nd cutting, 6% 1993, 20% avg. Other hay 53% harvested, 30% 1993, 48% avg. Livestock 2% fair, 78% good, 20% excellent. Feed supply 6% short, 86% adequate, 8% surplus. Pastures 89% of normal. Water supply 1% short, 80% adequate, 19% surplus.

**TENNESSEE:** Scattered showers, clouds. Above normal precipitation, normal temperatures to about 4° below normal. Extremes 67°; 91°.

Days suitable for fieldwork 2.7. Soil moisture 8% short, 60% adequate, 32% surplus. Corn 75% tasseling, 77% 1993, 73% avg.; 15% dough, 12% 1993, 16% avg.; 9% fair, 65% good, 26% excellent. Cotton 99% squaring, 98% 1993, 89% avg.; 38% setting bolls, 37% 1993, 28% avg.; 13% fair, 80% good, 7% excellent. Sorghum 15% headed, 23% 1993, 24% avg.; 10% fair, 80% good, 10% excellent. Soybeans 14% blooming, 13% 1993, 14% avg.; 17% fair, 75% good, 8% excellent. Tobacco 9% topped, 8% 1993, 11% avg.; 17% fair, 83% good. Alfalfa 93% 2nd cut., 94% 1993, 89% avg.; 10% fair, 83% good, 7% excellent. Other hay, 1% poor, 23% fair, 74% good, 2% excellent. Pastures, 3% poor, 17% fair, 72% good, 8% excellent. Cattle, 9% fair, 87% good, 4% excellent.

**TEXAS:** Nearly stationary front, a series of upper air disturbances resulted in showery weather over roughly the northern half of the state. Some heavy rains, flooding occurred in north central, northeast counties. Beaumont area received some good moisture, rain was scarce over south Texas, also in the Trans-Pecos due to upper level high pressure. Precipitation totals were generally near to above normal in the north, below normal in the south. No rain was reported in the Coastal Bend, Lower Valley, rainfall totals were about 2.50 in. above normal in northern East Texas. Temperatures ran near to above normal in drier areas but were suppressed by clouds, rain in most of the north.

**Crops:** Corn in the Plains made good progress, showed signs of improvement following last weeks rains. Irrigation continued in full swing. Harvest continued in South Texas. Corn 85% normal, 85% 1993; 57% doughing, 52% 1993; 49% dented, 37% 1993; 17% mature, 16% 1993; 4% harvested, 5% 1993. Cotton in the Plains, dryland fields received minimal benefit from scattered showers, continued to show signs of heat stress. Irrigated fields continued to make good progress as irrigation activities remained steady. Boll weevil pressure increased in some fields. Harvest began in the Valley. Cotton 78% normal, 77% 1993; 7% open bolls, 3% 1993. Peanuts planting was completed. Peanuts in general made good progress in the Cross Timbers, however, some dryland fields showed signs of heat stress. Producers were spraying for leaf spot in some areas. Peanuts 83% normal, 80% 1993; 100% planted, 91% 1993. Rice harvest continued in early planted fields in South Central Texas, Upper Coast. Early yields were slightly lower than expected. Peanuts 95% normal, 80% 1993; 3% harvested, 0% 1993. Sorghum in the Plains, most sorghum fields made good progress, however some continued to show signs of stress from recent hot temperatures. Harvest continued in full swing across South Texas. Lodging problems continued to hinder harvesting operations in some Blackland fields. Sorghum 78% normal, 79% 1993; 58% turning color, 48% 1993; 41% mature, 29% 1993; 27% harvested, 12% 1993. Soybeans along the Upper Coast, several fields were dropping leaves, harvest preparations have begun. Fields in the Blacklands continued to make good progress. Small grains wheat harvest was virtually completed. Producers remained active plowing fields and making preparations for fall plantings. Oats 89% harvested, 79% 1993. Sunflowers 100% planted, 95% 1993.

**Commercial Vegetables:** Rio Grande Valley citrus made good progress. Irrigation remained steady in order to maintain fruit sizing. Some scale, Texas citrus mite, rust mite problems were reported. Peppers continued to make good progress, producers continued preparations for fall plantings. San Antonio-Winter Garden: watermelon and cantaloupe harvest continued. Trans-Pecos: cantaloupe harvest was active. East Texas: harvest of tomatoes, okra, sweet corn, peas, watermelon, cantaloupe continued. Blueberry harvest began winding down. High Plains potato, carrot harvest began. Onion harvest continued. Pumpkins made good progress. Peach harvest of early variety peaches continued in North Texas. In South Texas, late variety peaches continued to make good progress. Some problems occurred with stink bug infestation in late varieties. Pecans in the Blacklands, pecans continued to make good progress. Second generation casebearer spraying was active. Elsewhere, the crop continued to size well and make good progress, however, some trees continued to drop nuts.

**Range and Livestock:** Pasture conditions improved in areas where scattered showers fell. However, additional showers are needed for conditions to continue improving. Hay harvest continued in South Texas. Livestock remained in fair to good condition as supplemental feeding increased.

**UTAH:** Temperature maxima 4° above normal; minima average. A trace of precipitation was reported in Salt Lake City, Duchesne, Vernal.

Days suitable for fieldwork 6.9. Soil moisture 100% short. Irrigation water supply 26% very short, 60% short, 14% adequate. Stockwater supply 9% very short, 72% short, 19% adequate. Hay, roughage supplies 33% short, 67% adequate. Spring wheat ripe 54%, 25% 1993, 30% avg.; harvested 10%. Barley ripe 52%, 25% 1993, 35% avg.; harvested 15%, 3% 1993. Oats heading or better 90%, 74% 1993; harvested hay/silage 71% completed, 43% 1993. Winter wheat ripe 95%, 55% 1993, 59% avg.; harvested 24%, 15% avg. Corn height 45 in., 37 in. 1993, 41.8 in. avg.; tasseling 10%, 5% 1993. Alfalfa hay 2nd cutting 46% completed, 34% 1993, 40% avg. Other hay cutting 64% completed, 58% 1993, 58% avg. Tart cherries 50% picked. Pasture, range feed poor to fair. Major activities were irrigating, harvesting alfalfa, oats hay/silage, grass hay, barley, wheat, tart cherries, apricots. One county reported that BLM has issued a drought warning letter, has targeted at least 3 allotments for removal of cattle within the next 2 weeks due to dry conditions.

**VIRGINIA:** Temperatures above normal. Extremes 52°; 99°. Rainfall near to below normal with scattered thunderstorms.

Days suitable for fieldwork 6.1. Topsoil moisture 18% very short, 63% short, 19% adequate. Pasture feed 17% very poor, 33% poor, 35% fair, 15% good. Alfalfa hay 1% very poor, 21% poor, 62% fair, 16% good. Other hay 17% very poor, 38% poor, 37% fair, 8% good. Apple 17% poor, 43% fair, 40% good. Flue tobacco 13% poor, 14% fair, 73% good.

Burley tobacco 40% fair, 60% good. Fire tobacco was 85% fair, 15% good. Sun tobacco 25% poor, 50% fair, 25% good. Corn 13% very poor, 28% poor, 45% fair, 14% good. Corn was 42% silked, 42% 1993, 48% avg. Corn in dough stage 10%, 11% 1993, 18% avg. Soybeans were 7% very poor, 24% poor, 59% fair, 10% good. Soybean planting was 99% complete, 99% 1993, 98% avg. Peanuts 40% poor, 40% fair, 20% good. Cotton was 23% poor, 50% fair, 27% good. Wheat 97% harvested, 96% 1993, 96% avg. Barley 100% harvested, 100% 1993, 100% avg. Oats 94% harvested, 95% 1993, 91% avg. Potatoes 48% harvested, 35% 1993 50% avg. Tobacco topping, irrigating. Peanut growers spraying for leaf spot, root-worms. Irrigating, harvesting vegetables was active. Spraying fruit trees.

**WASHINGTON:** Temperatures 2° below normal to 3° above normal west; 1° below normal to 7° above normal east. Precipitation none west; none to 0.48 in. east. Weather predominantly hot and dry; no precipitation except for 0.01 in. Sunnyside, 0.48 in. Goldendale.

Days suitable for fieldwork 7.0. Soil moisture 57% short, 42% adequate, 1% surplus. Hay, other roughage supplies 1% very short, 5% short, 92% adequate, 2% surplus. Range, pasture 6% very poor, 39% poor, 37% fair, 18% good. Winter wheat dryland 19% poor, 38% fair, 39% good, 4% excellent; irrigated 91% good, 9% excellent. Spring wheat dryland 43% poor, 41% fair, 16% good; irrigated 3% fair, 88% good, 9% excellent. Barley dryland 30% poor, 45% fair, 25% good; irrigated 10% fair, 90% good. Potatoes 2% fair, 98% good. Dry edible beans 100% good. Corn 3% fair, 95% good, 2% excellent. Winter wheat 6% harvested, 5% 1993, 7% avg. Spring wheat 100% headed, 99% 1993, 100% avg.; 2% harvested, 0% 1993, 2% avg. Barley 100% headed, 99% 1993, 100% avg.; 5% harvested, 3% 1993, 6% avg. Potatoes 4% harvested, 0% 1993, 3% avg. Dry peas 12% harvested, 6% 1993, 12% avg. Alfalfa, second cutting, 65% complete, 43% 1993, 54% avg. Weather favorable to hay growers. Grain harvest gearing up in early districts; preliminary yields reported below "average". Dry pea, lentil harvests underway. Apricots, nectarines, and peaches being picked south-central areas. Raspberry and blueberry harvests continued. Pastures continued to dry out with the hot, dry weather.

**WEST VIRGINIA:** Temperature 73°. Extremes 52°; 93°. Rainfall 1.38 in.

Days suitable for fieldwork 4.6. Soil moisture 33% short, 67% adequate. Barley good; harvested 100%, 100% 1993, 93% avg. Wheat good; ripe 99%, 100% 1993, 97% avg.; harvested 68%, 35% 1993, 50% avg. Hay 47% fair, 53% good; first cutting 95%, 93% 1993, 87% avg.; second cutting 15%, 25% 1993, 21% avg. Apples 50% poor, 50% fair. Peaches 100% very poor. Corn 11% poor, 34% fair, 55% good; silked 8%, 9% 1993. Oats 28% fair, 72% good; ripe 78%, 46% 1993. Tobacco 28% fair, 72% good. Gardens 30% fair, 70% good. Soybeans 55% fair, 45% good; emerged 100%, 98% 1993; blooming 34%. Pastures 9% poor, 51% fair, 40% good; 80% of normal. Cattle 17% fair, 83% good. Sheep 59% fair, 41% good. Activities: cutting hay, harvesting barley, wheat, gardening.

**WISCONSIN:** Temperature 67°, 3° below normal. Extremes 41°; 94°. Precipitation 0.20 to 1.60 in.

Days suitable for fieldwork 4.2. Soil moisture 3% short, 75% adequate, 22% surplus. Pasture feed 83%, 93% 1993, 75% avg. General condition of crops: 5% fair, 76% good, 19% excellent. Height of corn 66 in., 28 in. 1993, 46 in. avg.; silked 12%, 0% 1993, 10% avg.; 49% good, 51% excellent. Oats 1% very poor, 3% poor, 35% fair, 54% good, 7% excellent; headed 95%, 74% 1993, 94% avg. Soybean 5% fair, 61% good, 34% excellent. First cutting hay harvested 95%, 80% 1993, 96% avg. Second cutting hay harvested 26%, 6% 1993, 23% avg. Winter wheat harvested 7%, 1% 1993, 10% avg. The recent rainfalls were ideal for crop growth but are making it difficult for harvest. Corn height increased almost a foot to 66 in., crop looks excellent. Cloudy, wet weather has made it difficult to harvest second cutting hay. Rain is also causing some weed problems in oats fields. Weeds are forcing many farmers to chop the oats for silage. Early winter wheat reports indicate a good harvest; there are some areas with reports of lodging. Soybeans are looking very good, blossoms are beginning to appear. Sweet corn looks excellent, harvest has begun. Early potato, cucumber harvest has started. Wet weather is damaging some newly planted snap beans. Cranberry crop prospects look good at this time.

**WYOMING:** Week was slightly cooler, wetter. Temperatures 2° above normal (Moran) to 5° below normal (Powell). Rainfall was above normal except the extreme west. Wettest spots were across the southeast. Cheyenne received the largest amount of precipitation at 1.15 in.

Days suitable for fieldwork 6.0. Topsoil 70% short, 30% adequate. Subsoil moisture 86% short, 14% adequate. Winter wheat 89% mature, 20% 1993, 34% avg.; 39% harvested, 0% 1993, 5% avg. Spring wheat 4% mature, 2% 1993, 8% avg. Oats 13% mature, 2% 1993, 5% avg.; 4% harvested, 0% 1993, 0% avg. Barley 17% mature, 4% 1993, 13% avg.; 1% harvested, 0% 1993, 1% avg. Corn 42% tasseled, 2% 1993, 10% avg. Dry beans 69% bloomed, 17% 1993, 26% avg. Alfalfa 96% first cutting, 74% 1993, 82% avg.; 10% second cutting, 0% 1993, 1% avg. Other hay 55% acreage harvested, 43% 1993, 42% avg. Irrigation water supplies 58% short, 42% adequate. Hail damage during the past 2 weeks 46% none, 24% light, 22% moderate, 8% severe. Range, pasture feed was still poor to fair.

# International Weather and Crop Summary

## HIGHLIGHTS

July 10 - 16, 1994

**FSU-WESTERN:** Dry weather over most areas favored early winter grain harvesting but stressed summer crops entering reproduction.

**FSU-NEW LANDS:** Widespread light to moderate rain improved growing conditions for spring grains advancing through reproduction.

**EUROPE:** Dry, warm weather across western and northern Europe favored winter crop harvesting but reduced moisture for reproductive summer crops.

**SOUTH ASIA:** Heavy showers continued across central India, favoring grain, oilseed and cotton crops.

**SOUTHEAST ASIA:** Several tropical cyclones affected the Philippines, producing heavy rains and localized flooding.

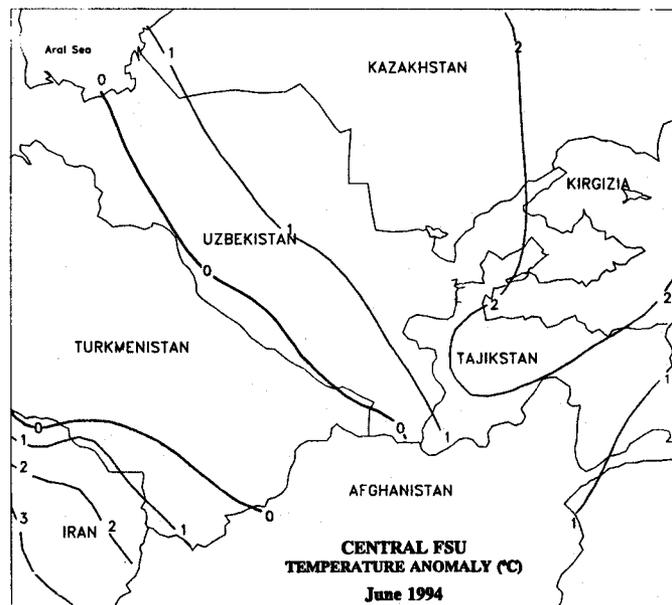
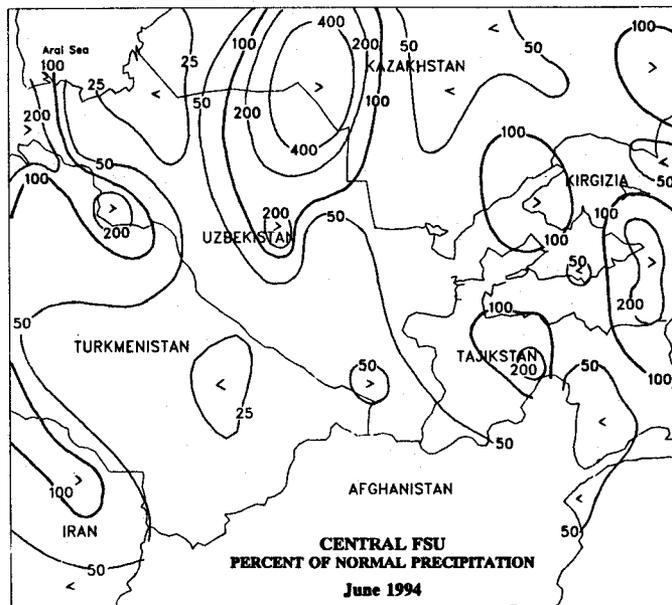
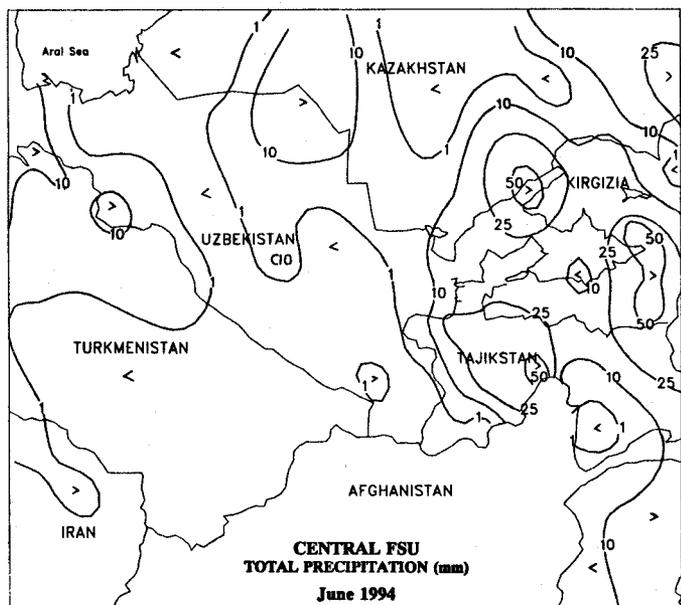
**CANADA:** Rain benefited grains and oilseeds across the Prairies, especially in the southwest which was tending dry.

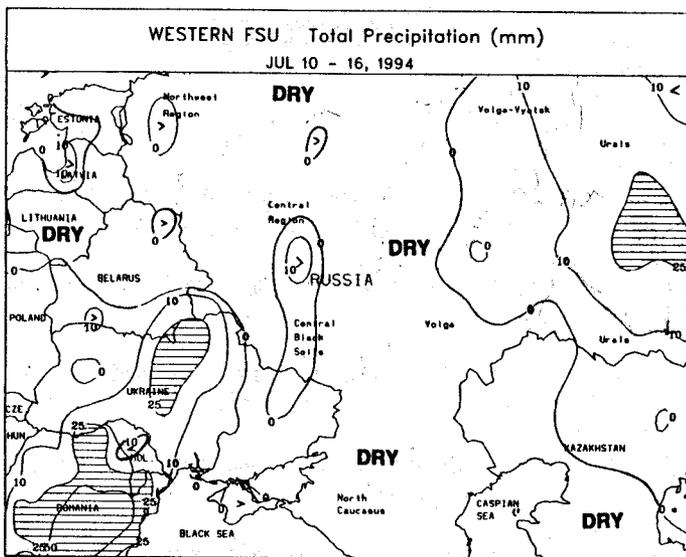
**EASTERN ASIA:** Widespread showers covered most crop areas across China.

**AUSTRALIA:** Rain brought some relief to portions of the eastern wheat areas, but additional rain is still needed.

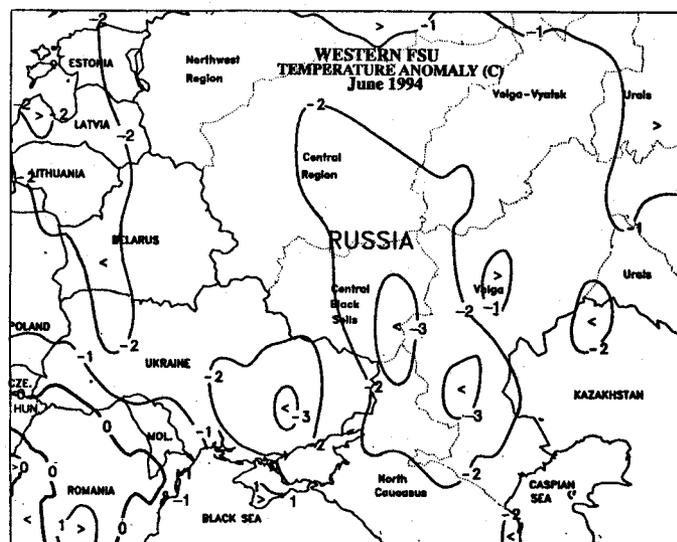
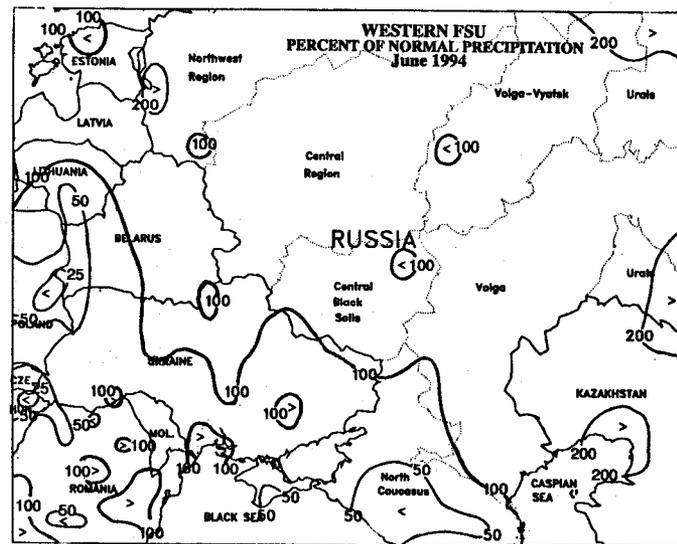
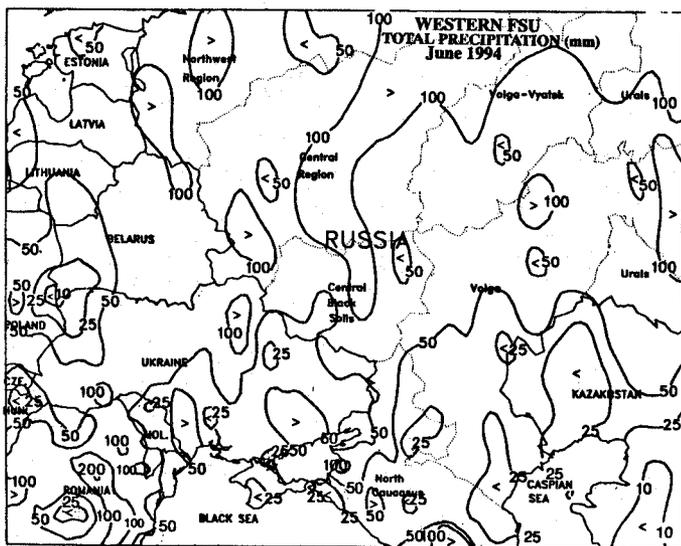
**SOUTH AMERICA:** Temperatures moderated across the region after an early week cold snap.

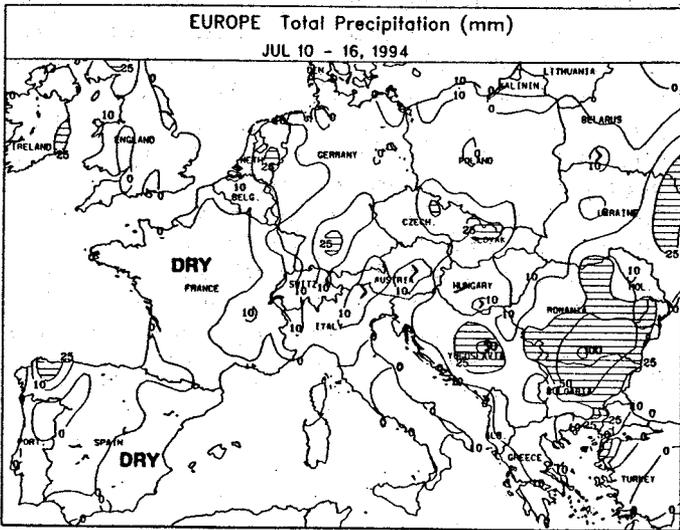
**MEXICO:** After a brief respite, seasonal showers resumed across the main corn belt.



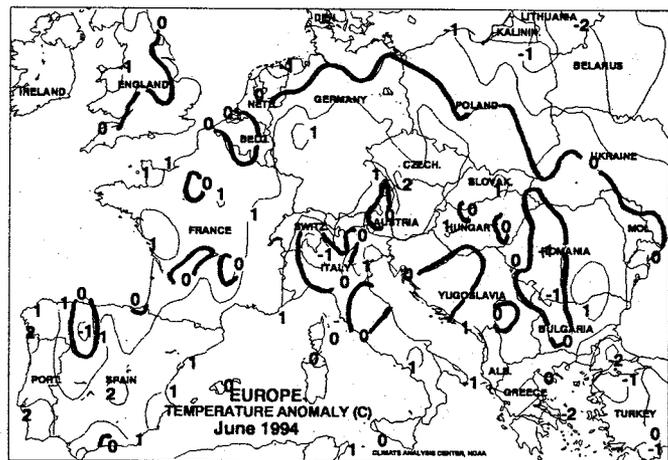
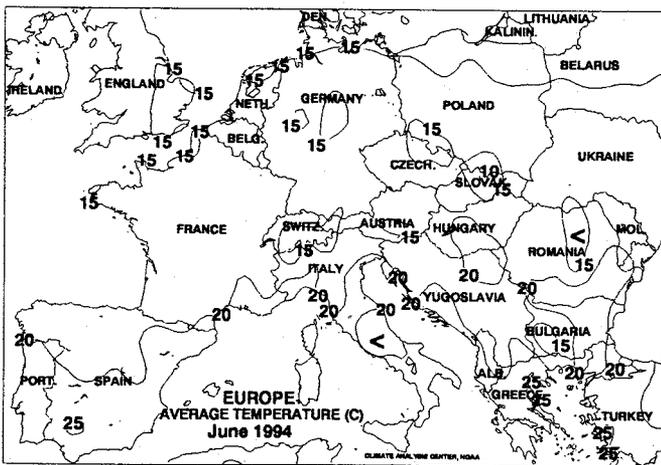
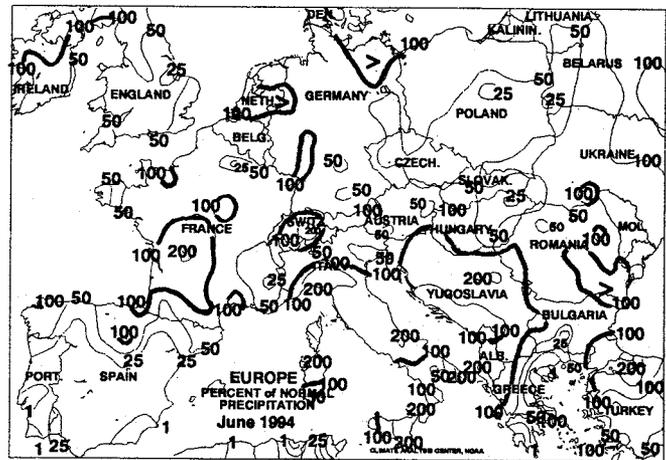
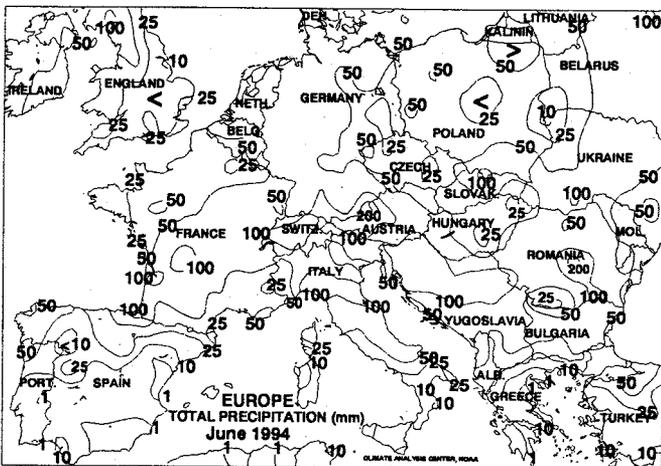


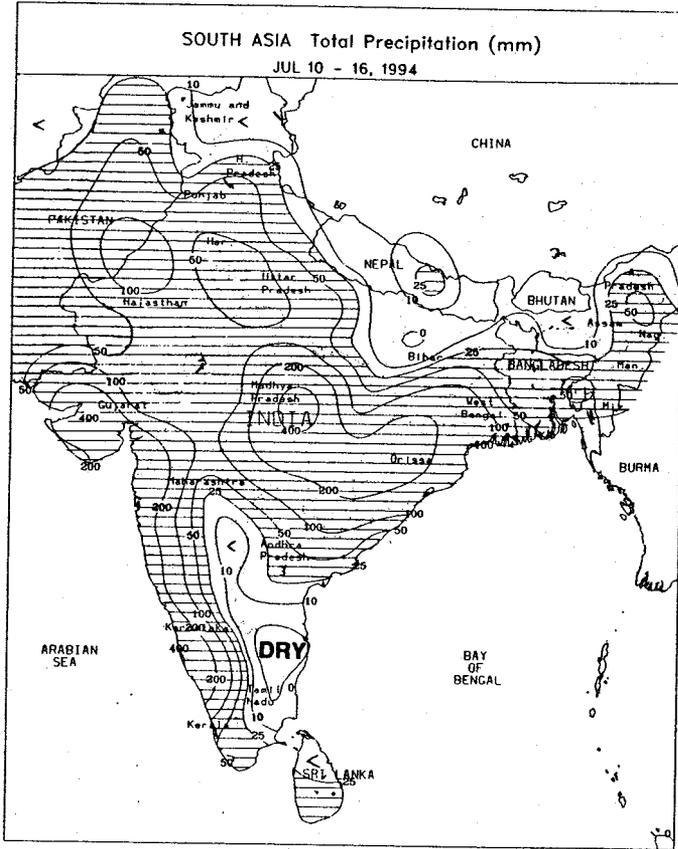
**FSU-WESTERN:** In Russia, dry weather covered most crop areas. The dry weather over the eastern portion of Central Region, middle and upper Volga Valley, eastern Black Soils Region, and Volga Vyatsk was beneficial, following several weeks of wetness. Although this past week's dryness over North Caucasus and lower Volga Valley favored winter grain maturation and early harvesting, it has persisted for 4 weeks, increasing stress on corn and sunflowers entering reproduction. Further west, hot, dry weather intensified over Baltic States and Belarus, where weekly average temperatures ranged from 4 to 6 degrees Celsius (C) above-normal. In Ukraine, beneficial rain (10-25 mm, with local amounts in excess of 30 mm) fell in a narrow band that stretched northward from Moldova, through central Ukraine, improving moisture for summer crops. However, crop areas in western and eastern Ukraine remained dry, a pattern that has persisted for the last 4 weeks. In June, above-normal precipitation and cool weather over northern Russia (Central Region, Volga Vyatsk, Central Black Soils Region, Volga Vyatsk, and Volga Valley), the Baltic States, and most of Belarus favored crop development. Further south, below-normal precipitation over North Caucasus in Russia as well as western and southern Ukraine limited moisture for winter wheat in the filling stage and corn in the vegetative stage.



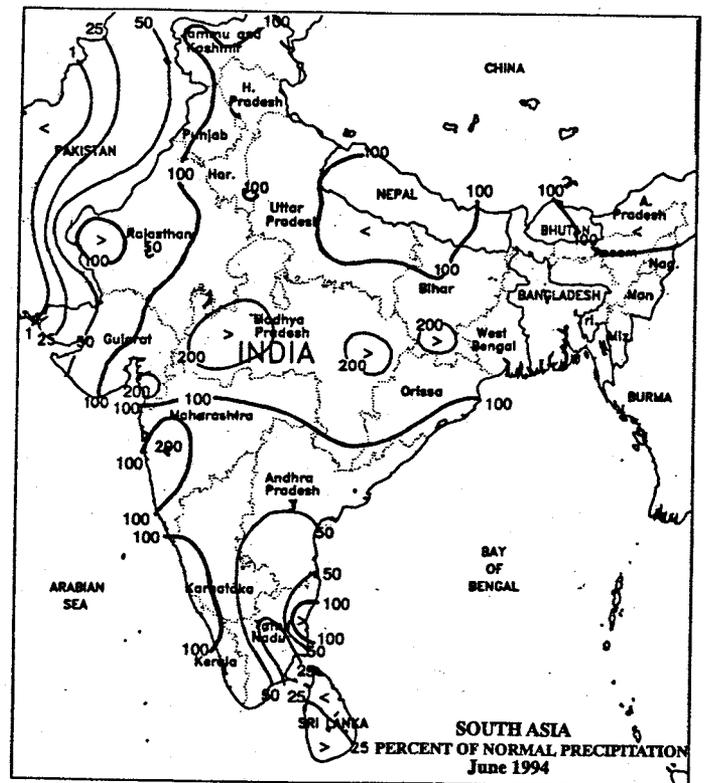
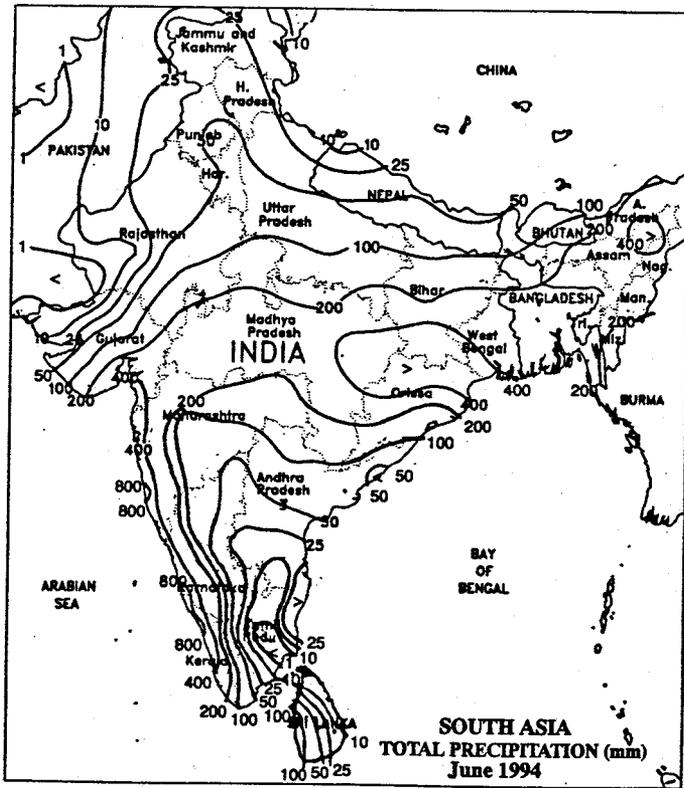


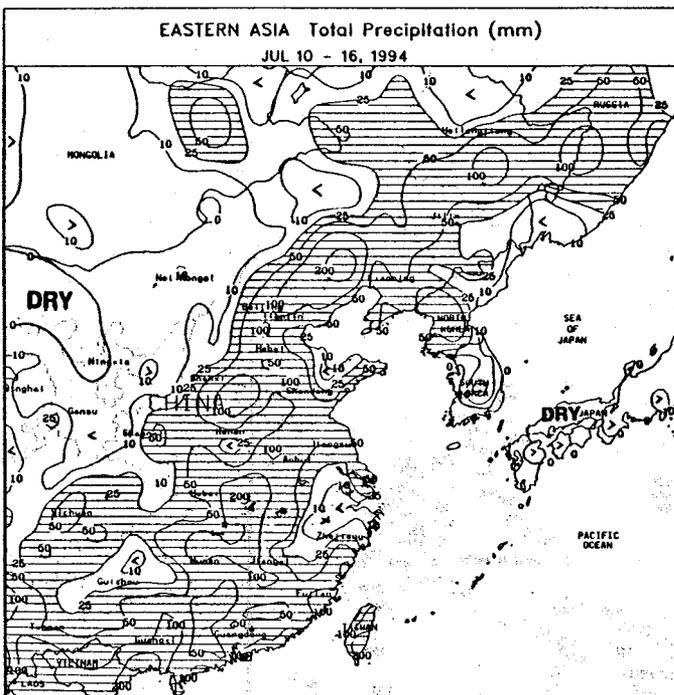
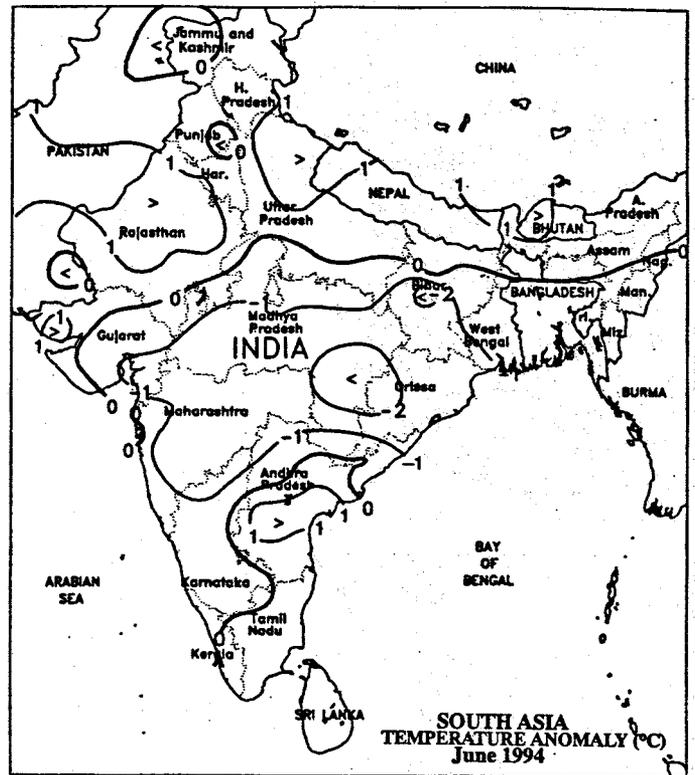
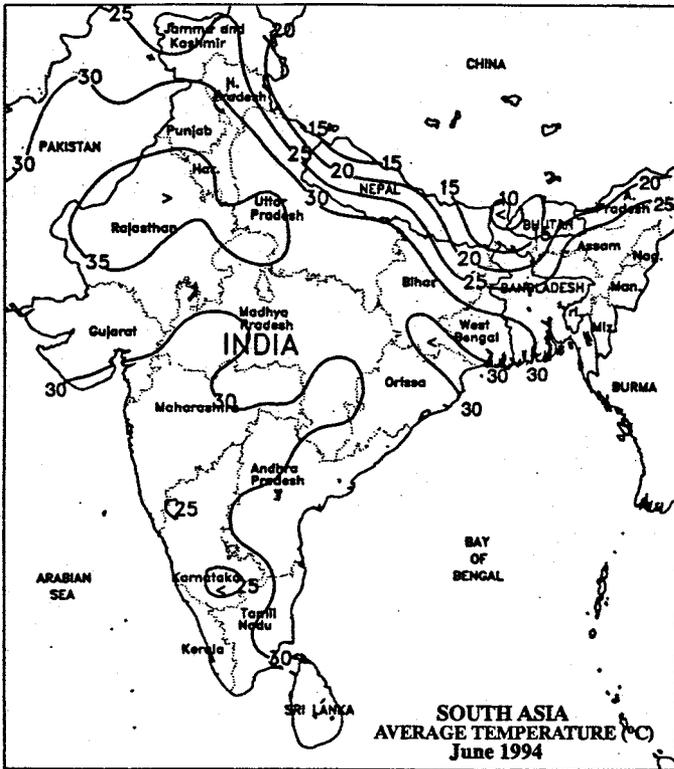
**EUROPE:** Mostly dry and unseasonably warm weather prevailed over western and northern Europe, while beneficial rain fell in the Balkans. The dryness across most of Europe helped ripen winter crops and promoted barley and wheat harvesting. However, weekly temperatures averaging 3-5 degrees C above normal decreased soil moisture supplies for corn and other summer crops advancing into reproduction. The drying trend has been most pronounced over England, northern France, the Czech Republic and eastern Hungary. In contrast, beneficial rain (10-50 mm) fell over the Balkans, maintaining adequate moisture for crop development. Mostly dry weather also prevailed over Scandinavia. June rainfall was below normal from England to Poland, and above normal from southwestern France across Italy to the former Yugoslavia.



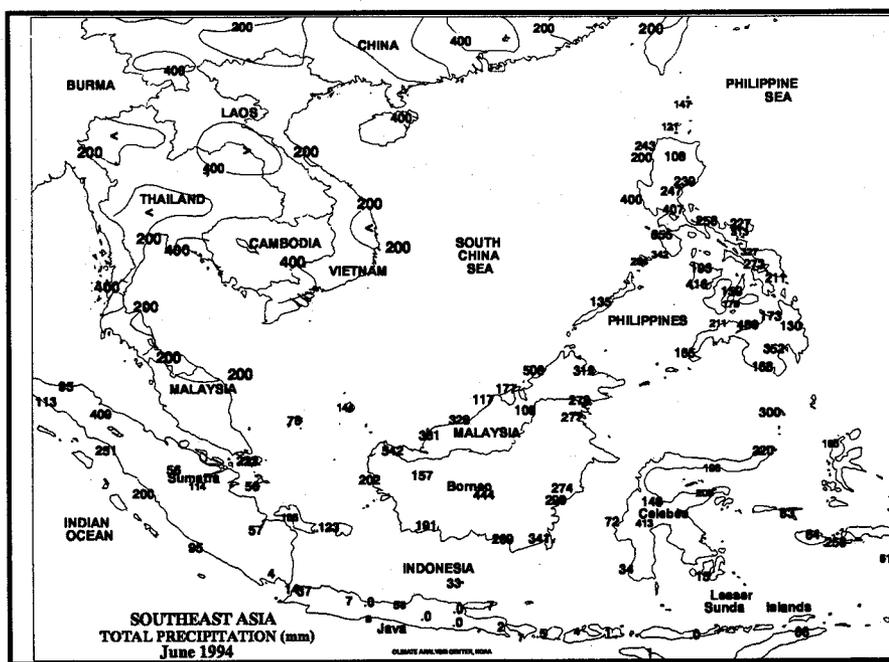
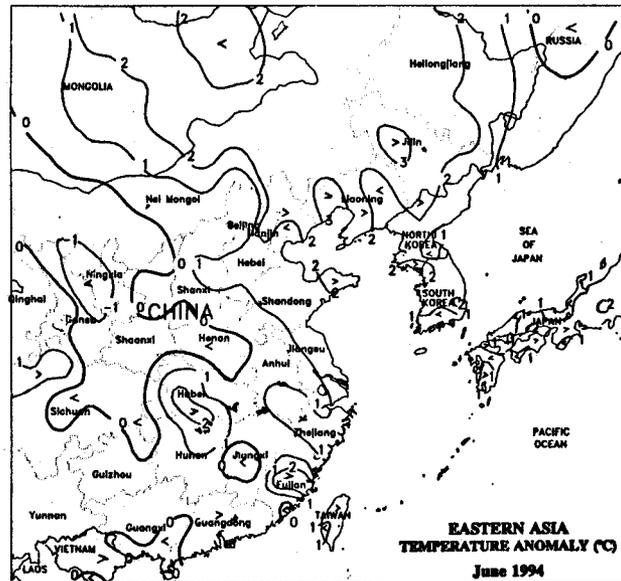
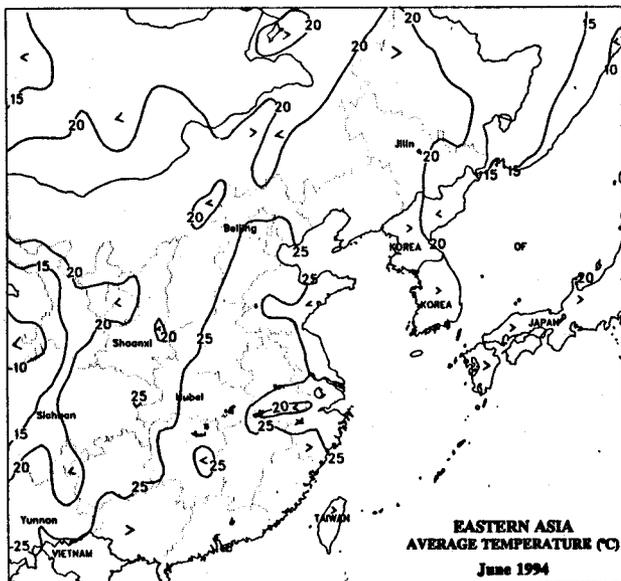
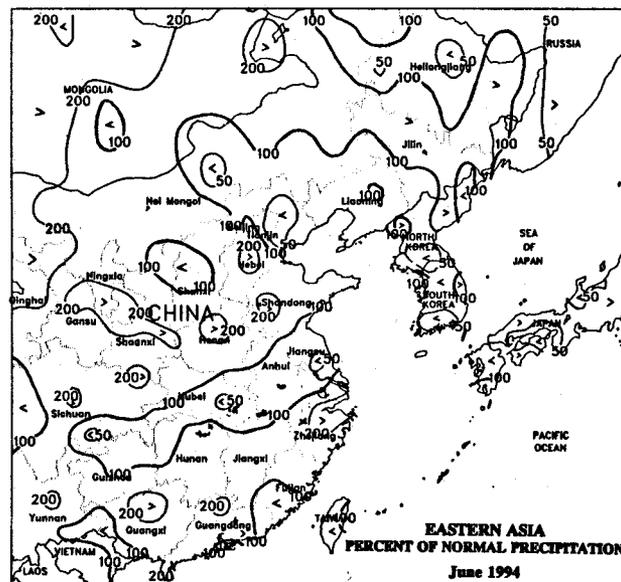
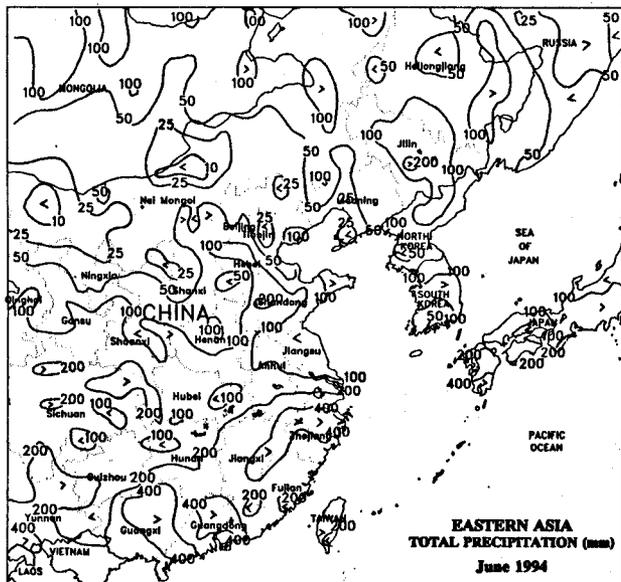


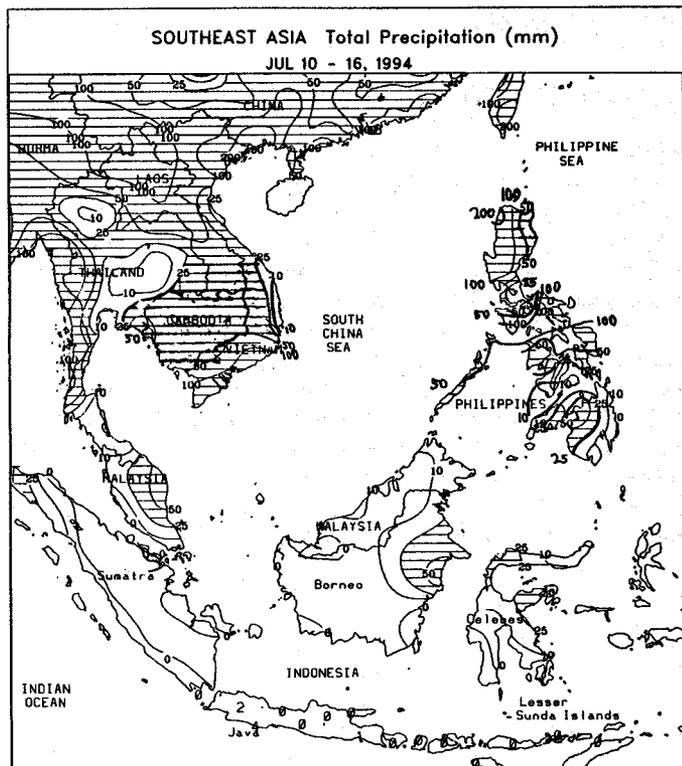
**SOUTH ASIA:** Moderate to heavy showers (25-100 mm) continued across most crop areas of eastern, central, and northern India. Torrential showers (200-500 mm) fell across portions of the western groundnut areas (Gujarat) and east-central rice areas (Madhya Pradesh and Orissa), producing flooding. India's southern interior received only light showers (less than 10 mm). Moderate showers (20-60 mm) were reported across northern and eastern Pakistan. In June, the monsoon advanced northward, bringing near-to above-normal rainfall to most major crop areas. As a result, grain, oilseed, and cotton planting made good early progress, although excessive rain (400 mm or more for the month) likely caused some delays in eastern rice areas. Temperatures averaged 1-2 degrees C below normal over much of central India but, in the north, temperatures were somewhat warmer than normal due to the hot spell that persisted until the monsoon arrived.



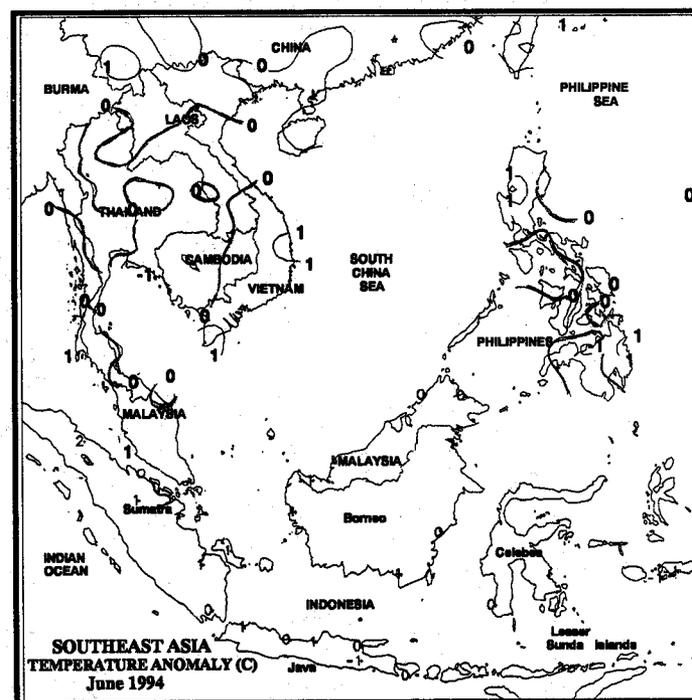
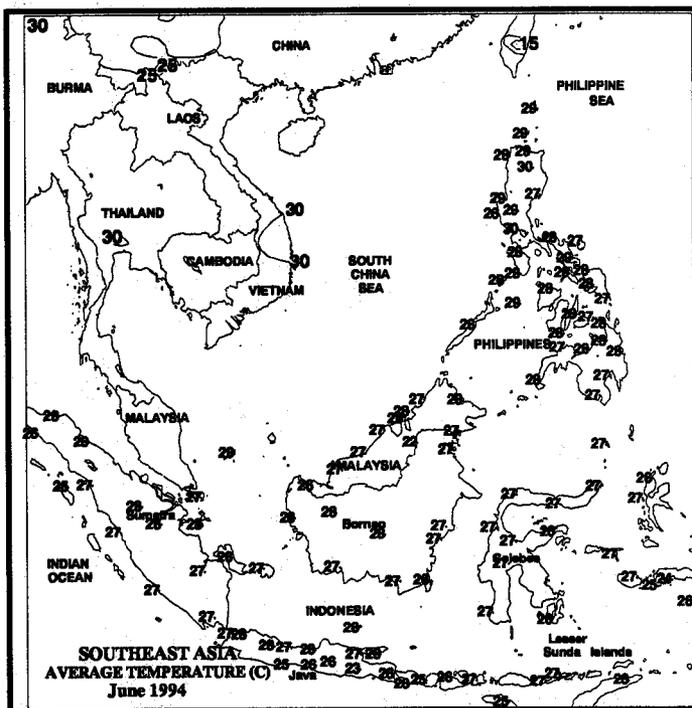
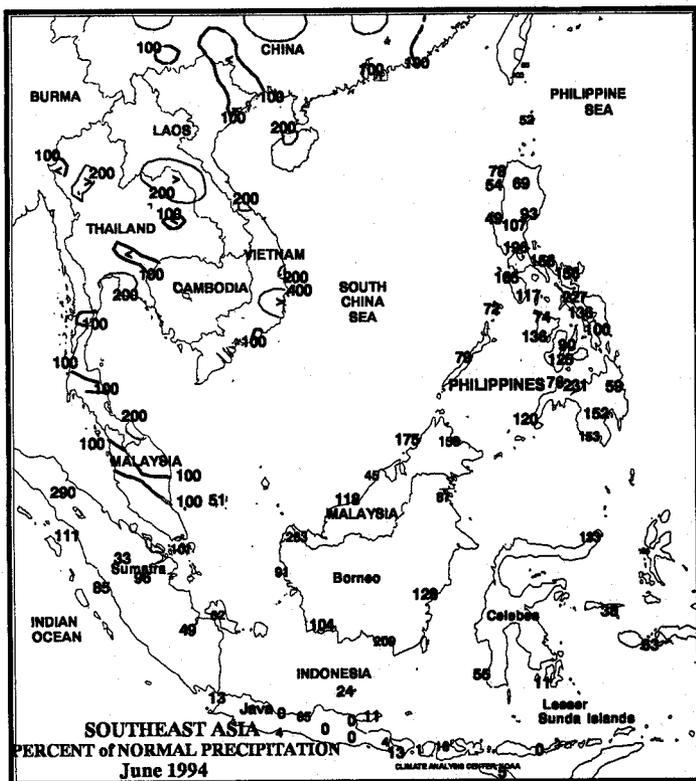


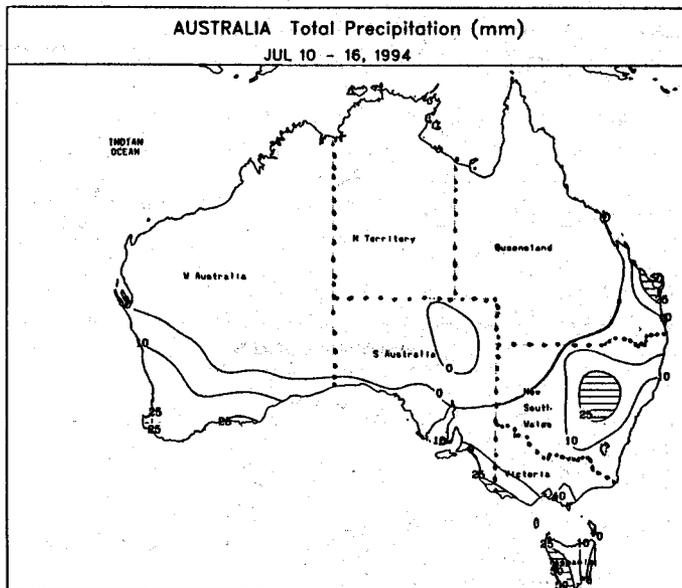
**EASTERN ASIA:** Tropical cyclone Tim hit Taiwan on July 10th with sustained winds of 100-125 knots (115-140 mph) and produced heavy rain (100-250 mm), causing flooding and some crop damage. The storm moved into southeast China (Fujian) on July 11th, with sustained winds of 70-80 knots (80-90 mph). The remnants of Tim brought widespread heavy rain (30-125 mm, with isolated amounts greater than 200 mm) to most of southeast China (Fujian, Jiangxi, Hunan, and Guangdong). The rain caused additional flooding in these provinces which had experienced previous flooding. Flooding may have caused some damage to rice paddies and delayed early double-crop rice harvesting. Residual moisture from the storm then was swept up into a weak trough which produced widespread moderate-to-heavy rain (25-100 mm) from the North China Plain into Manchuria. Heavier rain (125-200 mm) fell in Hebei and near Beijing, causing local flooding. The rain benefited vegetative to reproductive summer crops and increased reservoir levels, which were below normal, especially in portions of the North China Plain. Temperatures averaged 1-3 degrees C above normal across the lower Yangtze Valley and near normal elsewhere. South Korea and most of Japan received scattered light-to-moderate rain (5-30 mm) with temperatures averaging 3-6 degrees C above normal. Only the northern Japanese island of Hokkaido received widespread rains (10-45 mm). During June, near to above normal rains fell across southern China and the North China Plain. Excessive rains caused flooding along several major rivers in southern China. Portions of central China and Manchuria (Hubei, Anhui and Jiangsu) reported near to below normal June rainfall. South Korea and most of Japan reported below normal June rainfall (45-80 percent of normal) as temperatures averaged 1-2 degrees C above normal.



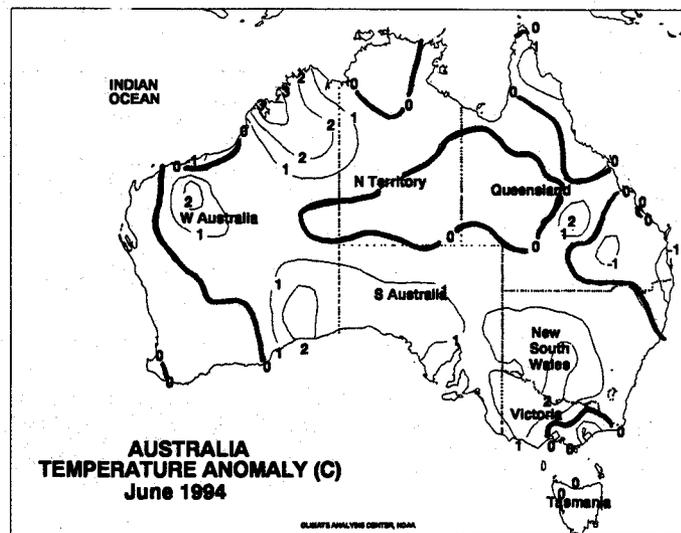
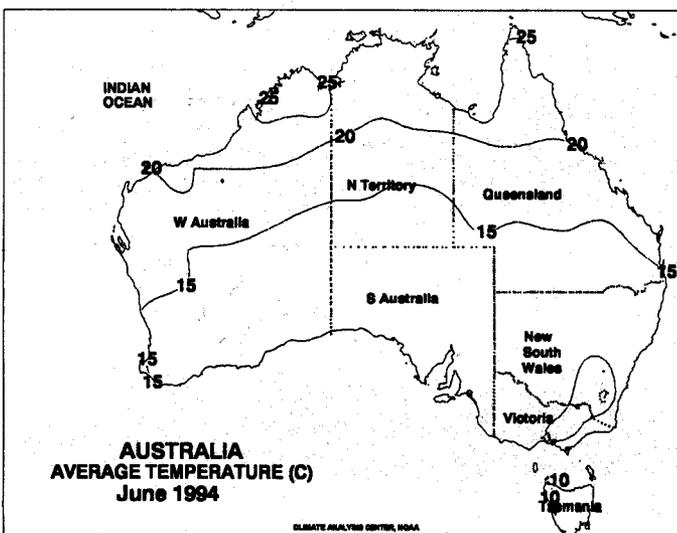
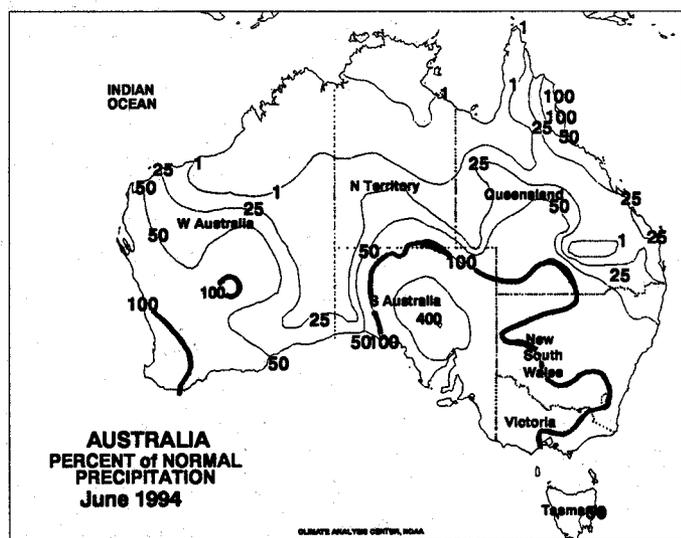
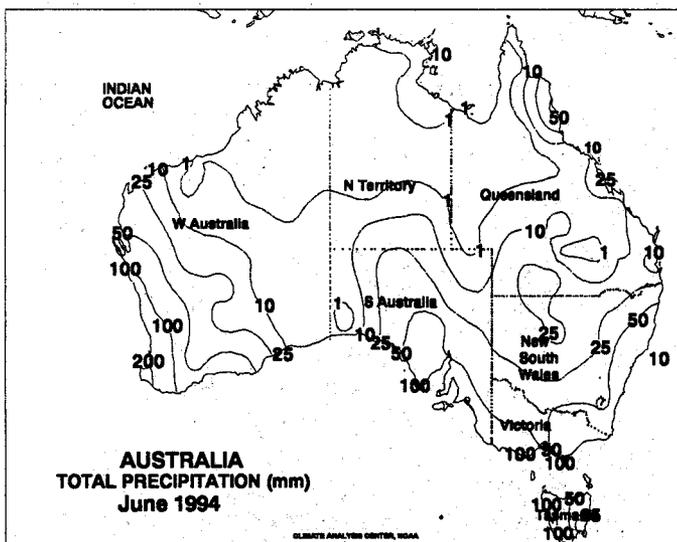


**SOUTHEAST ASIA:** Heavy rain (100-200 mm) from tropical cyclones Tim and Vanessa continued early in the week over western Luzon, producing some local flooding in rice and corn areas. Later in the week, a tropical depression brushed the eastern side of the Philippines, producing heavy rains across the central islands. Scattered showers (20-80 mm) fell across northern Thailand with lesser amounts (5-30 mm) reported across central and eastern crop areas. Heavy rains (70-170 mm) produced some flooding across southern Vietnam. Mostly dry weather continued to prevail across Java. In June, frequent, locally heavy showers resulted in abundant rainfall throughout Indochina's main rice areas. Periodic drying, however, occurred over central Thailand's rainfed rice and corn areas. Some flooding was likely along sections of the Mekong River. In the Philippines, rainfall was near to above normal over most rice, corn, and sugarcane areas. In Java, unusually dry weather taxed moisture reserves for rice and corn in secondary cropping areas.



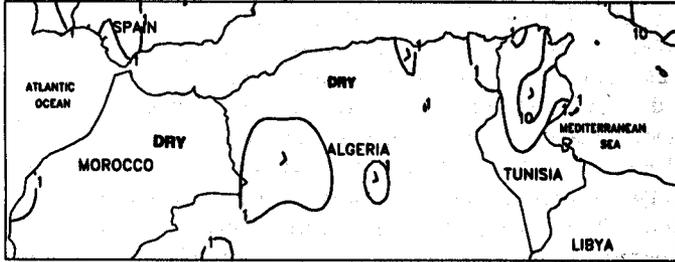


**AUSTRALIA:** Persistent dry weather continued across Queensland. However, light rain (5-13 mm, with an isolated amount of 47 mm) fell across New South Wales, increasing topsoil moisture for late wheat planting and benefiting germinating wheat. South Australia and Victoria received scattered light rains (3-15 mm) while light to moderate rain (10-25 mm) kept topsoils moist across the wheat areas of Western Australia. Weekly temperatures averaged near normal in the west and 1-2 degrees C above normal across the east and south. During June, near to above normal rainfall increased topsoil moisture for wheat planting across South Australia, Victoria, and southern New South Wales. These areas had received below normal rainfall from March to May. Also, the rangelands of southwestern Queensland and western New South Wales reported near normal-June rains, favoring pasture growth. However, further east, the wheat areas received only 10-60 percent of normal June rainfall. Near normal June rainfall aided western winter grains.



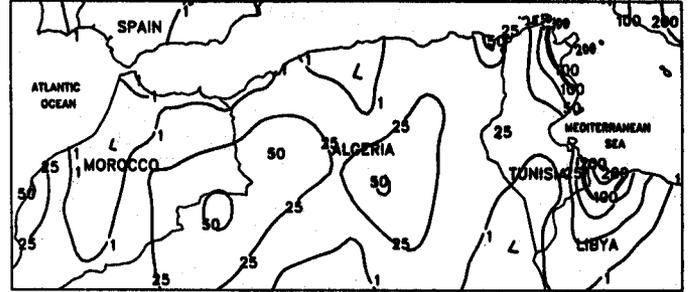
**NORTHWEST AFRICA  
TOTAL PRECIPITATION (mm)**

June 1994



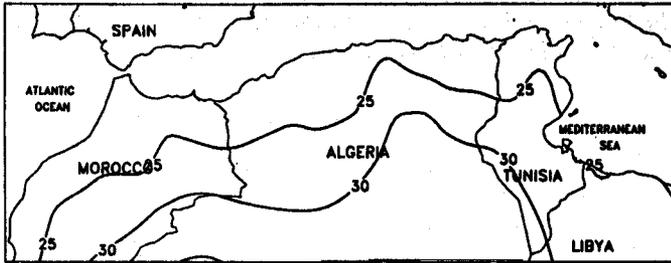
**NORTHWEST AFRICA  
PERCENT OF NORMAL PRECIPITATION**

June 1994



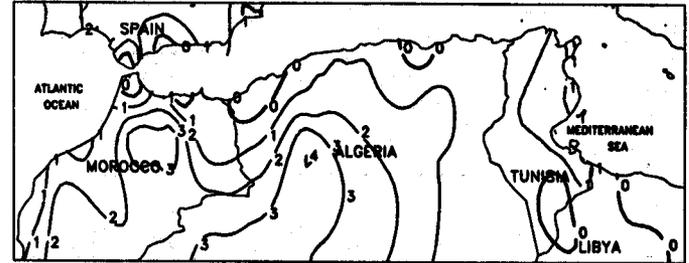
**NORTHWEST AFRICA  
AVERAGE TEMPERATURE (°C)**

June 1994



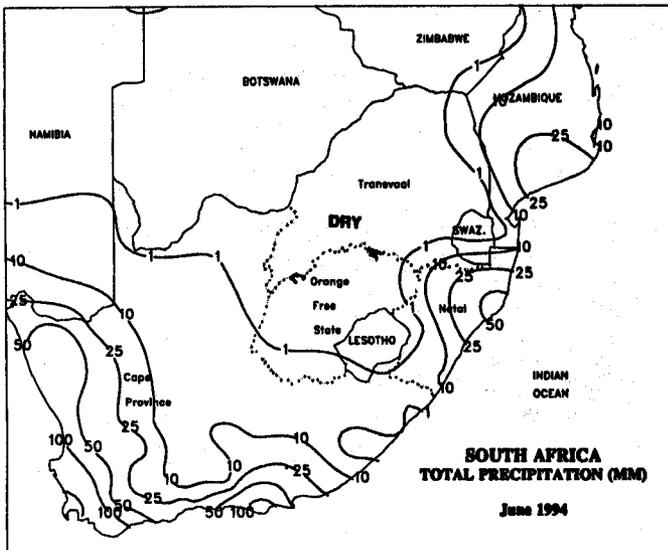
**NORTHWEST AFRICA  
TEMPERATURE ANOMALY (°C)**

June 1994



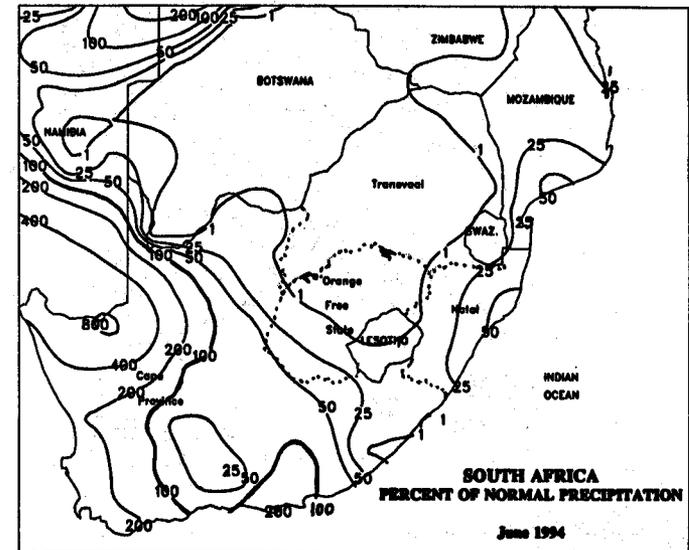
**SOUTH AFRICA  
TOTAL PRECIPITATION (MM)**

June 1994

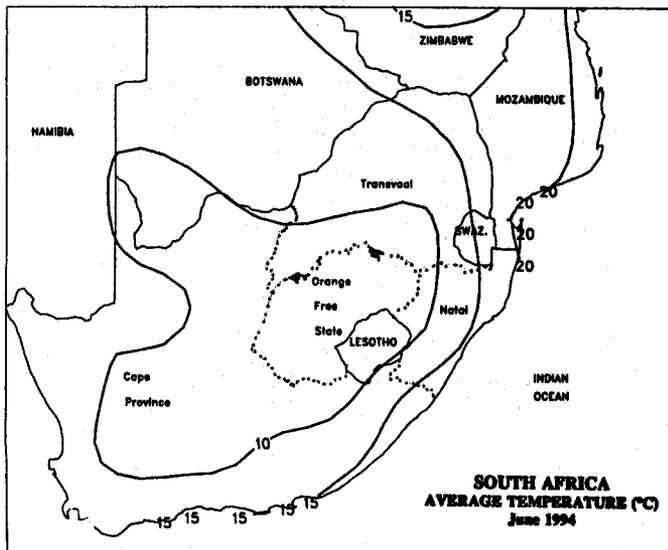


**SOUTH AFRICA  
PERCENT OF NORMAL PRECIPITATION**

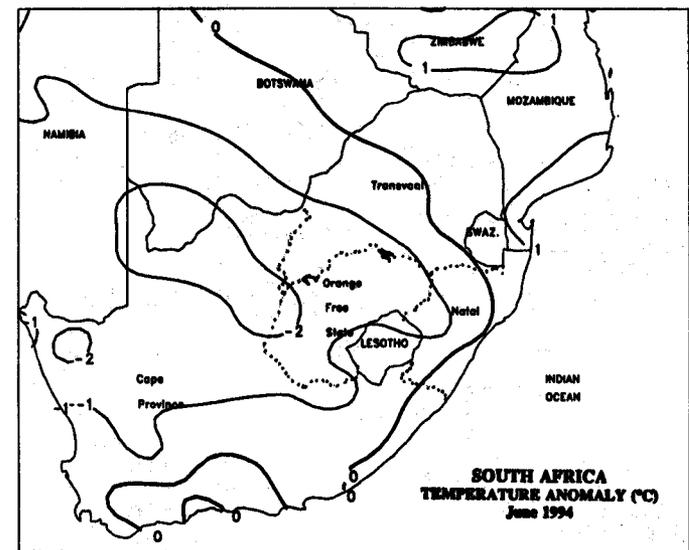
June 1994

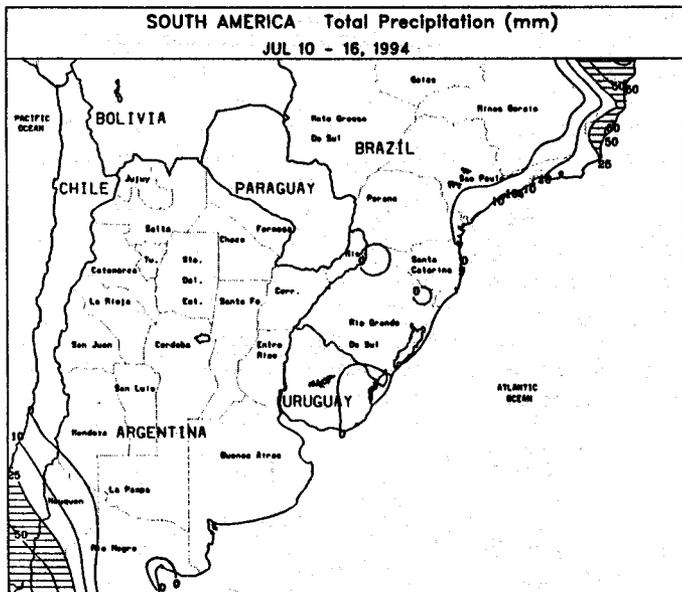


**SOUTH AFRICA  
AVERAGE TEMPERATURE (°C)  
June 1994**

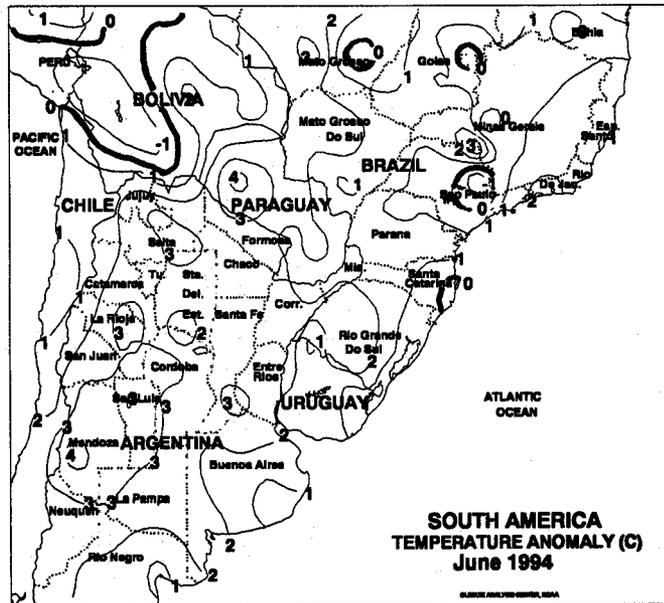
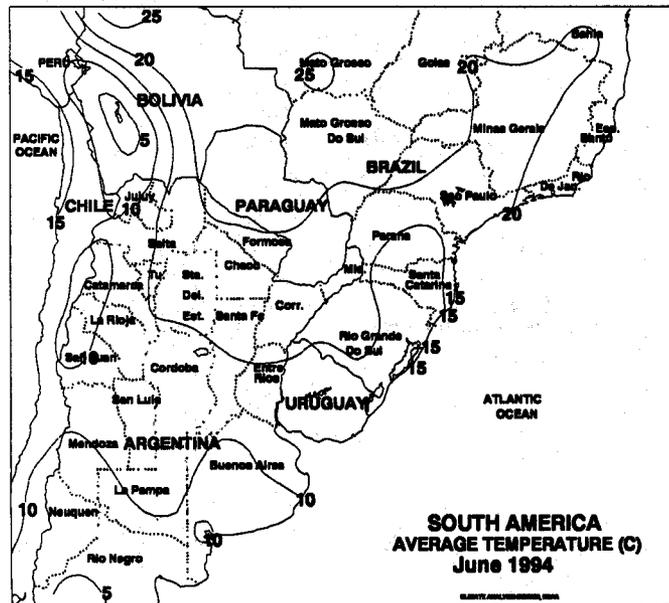
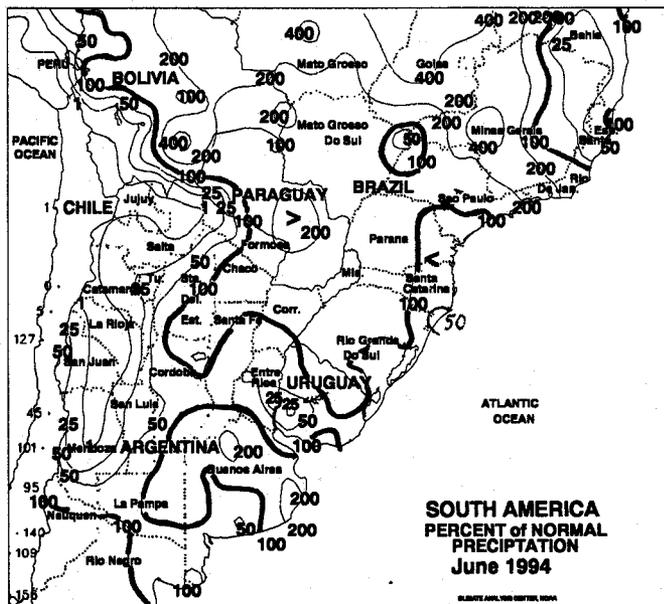
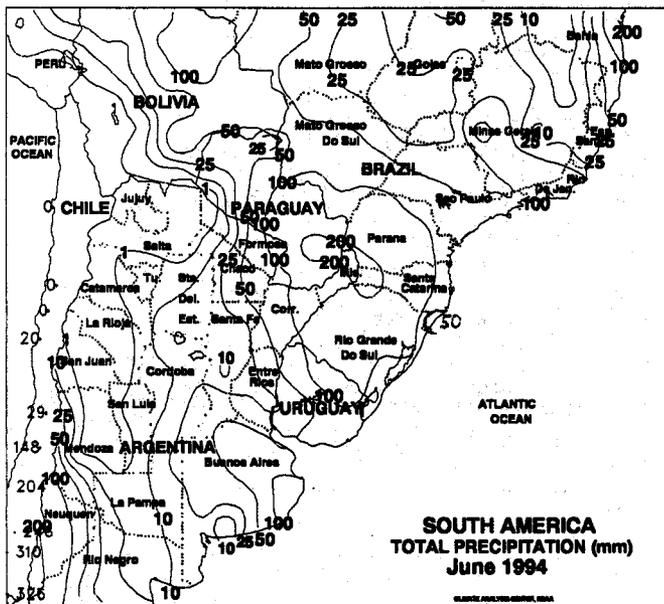


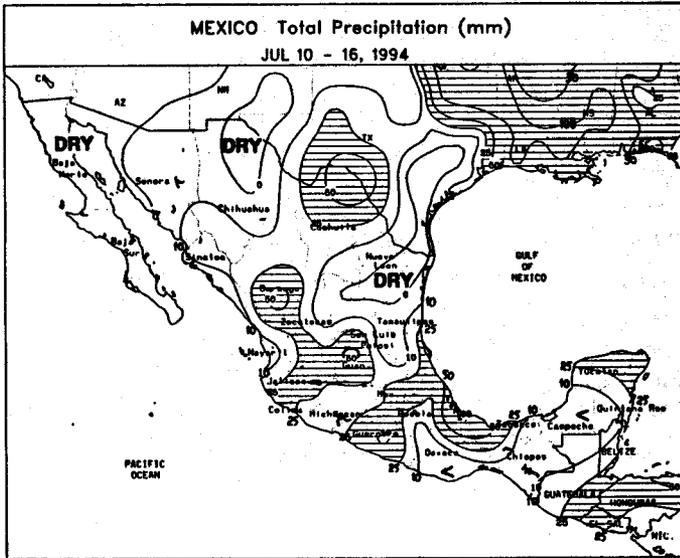
**SOUTH AFRICA  
TEMPERATURE ANOMALY (°C)  
June 1994**



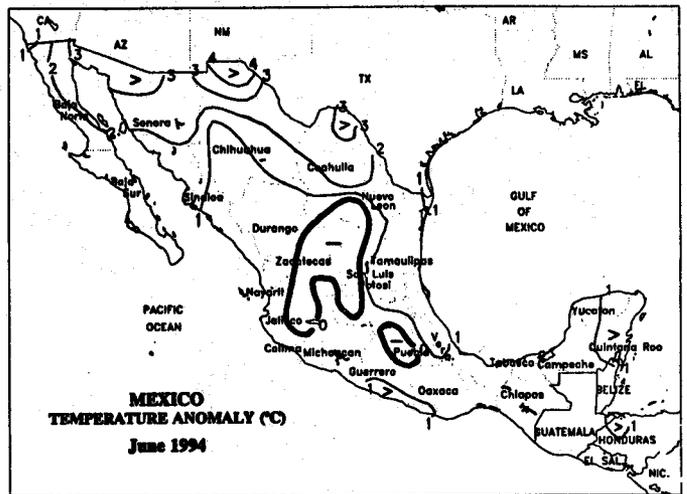
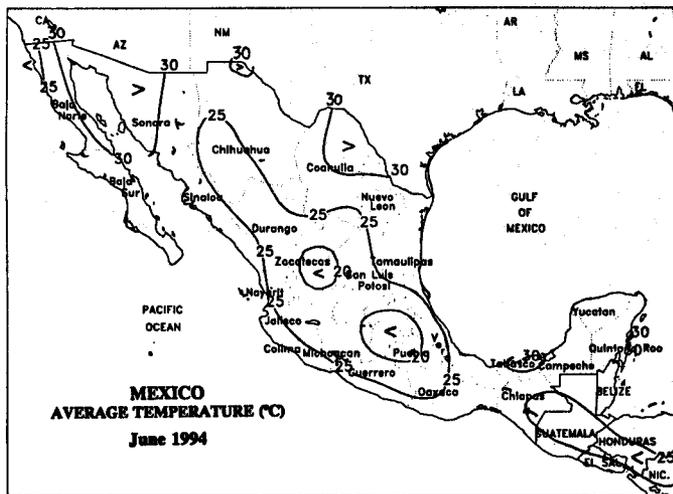
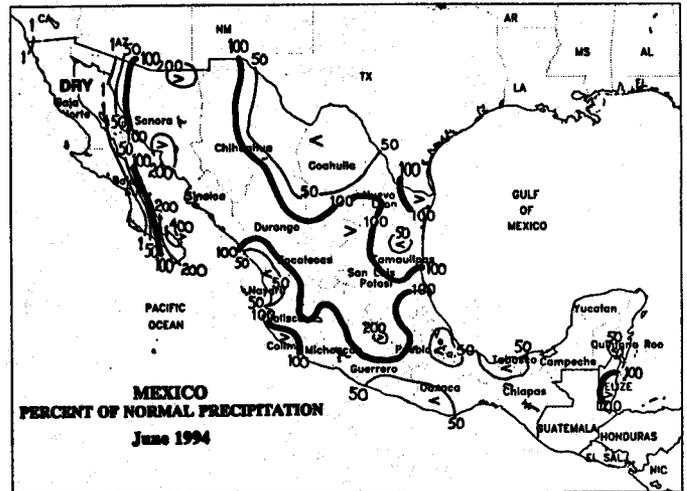
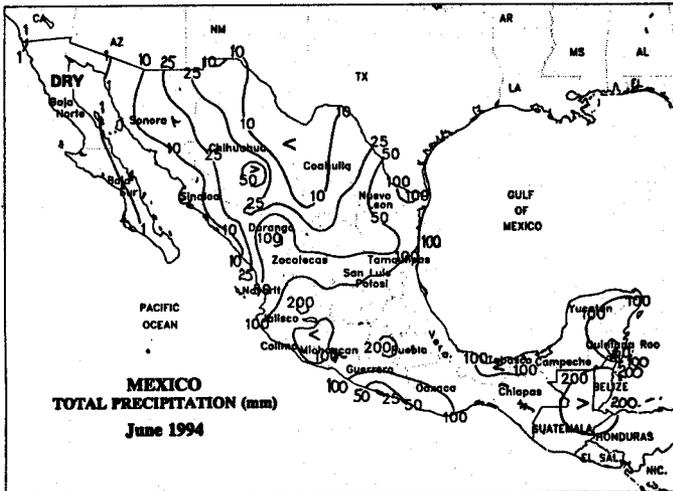


**SOUTH AMERICA:** Temperatures moderated across Argentina and southern Brazil after an early-week cold snap. Temperatures averaged 1-3 degrees C above normal across Argentina, while the cold air was slow to leave southern Brazil with temperatures averaging 1-3 degrees C below normal. The region was dry, favoring late summer crop harvesting in Argentina. During June, rainfall averaged near to above normal across central Argentina, except for a small area in southern Buenos Aires province which averaged below normal. Across most of southern Brazil, June rainfall averaged near to above normal. June monthly temperatures averaged 1-3 degrees C above normal in Argentina and extreme southern Brazil. However, portions of south-central Brazil (Sao Paulo and western Minas Gerais) reported June temperatures about 1 degree C below normal, partly due to a late month cold snap, producing frost across portions of the coffee areas.

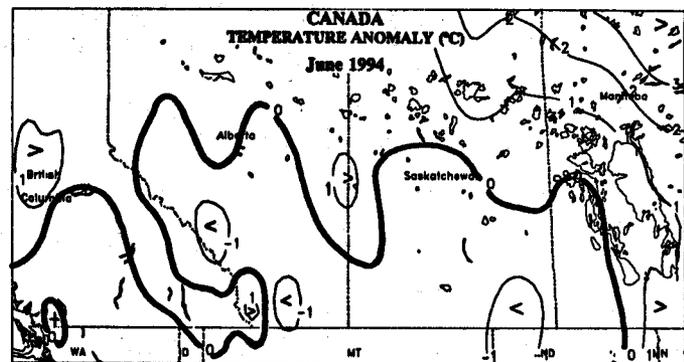
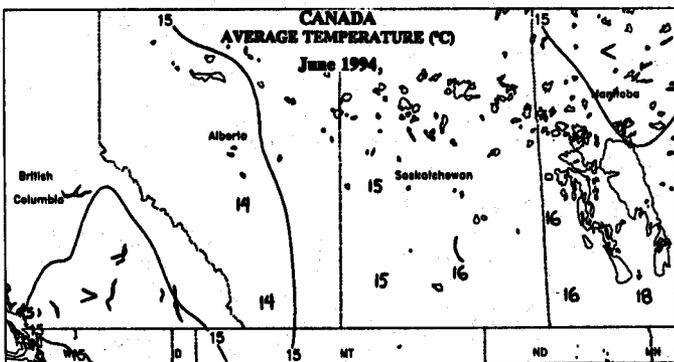
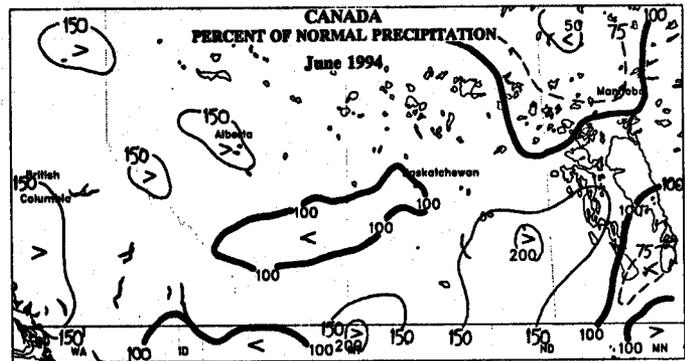
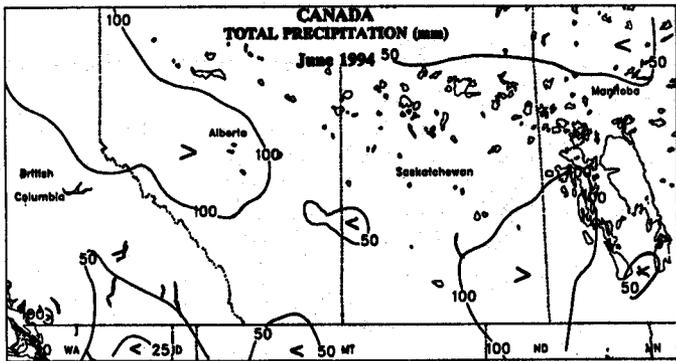
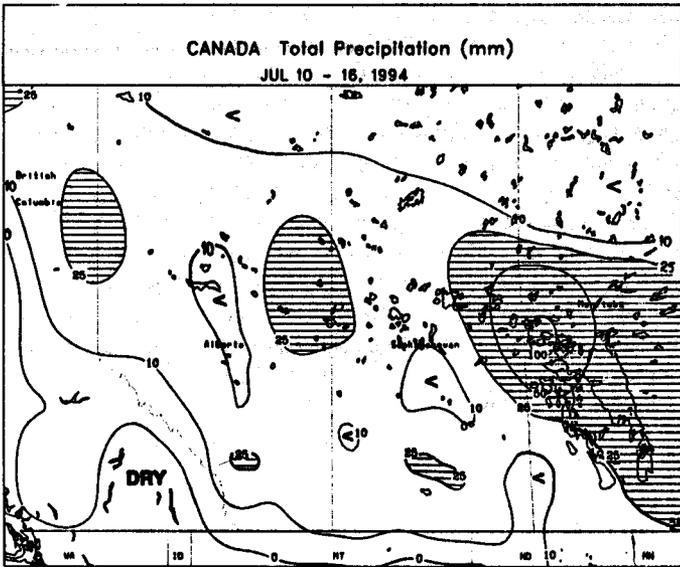


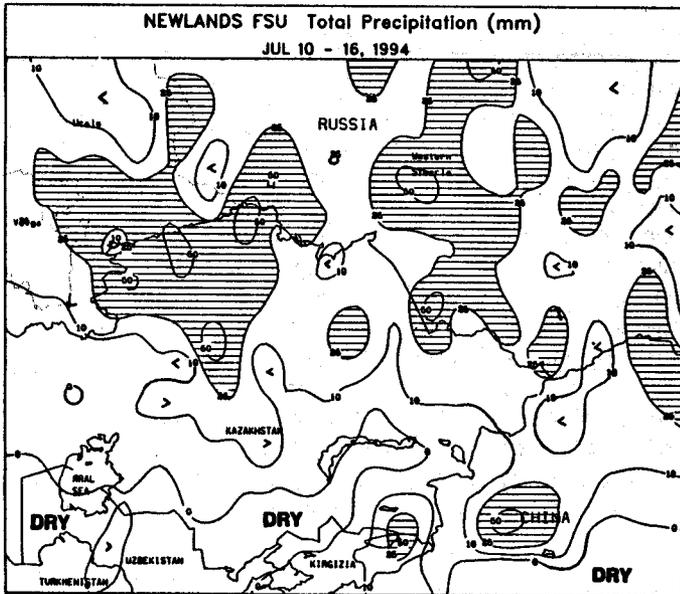


**MEXICO:** After a brief respite, widespread seasonal showers (15-50 mm) covered most of the Southern Plateau corn belt, favoring corn and sorghum. Showers (10-40 mm, with isolated amounts greater than 50 mm) were common across western Sierra Madre in Durango, southern Chihuahua and Sonora, increasing reservoirs which are low. Moderate showers (13-34 mm) benefited sugarcane, coffee and citrus along the east-central coast (Veracruz). Temperatures averaged 1-2 degrees C above normal across the main corn belt. During June, rainfall averaged near to above normal across the Southern Plateau corn belt, the western Sierra Madre and extreme northeastern crop areas (near Matamoros). Below normal June rains prevailed across the Yucatan Peninsula, southern and north-central Mexico. Temperatures averaged 2-4 degrees C above normal across the north and near normal elsewhere.

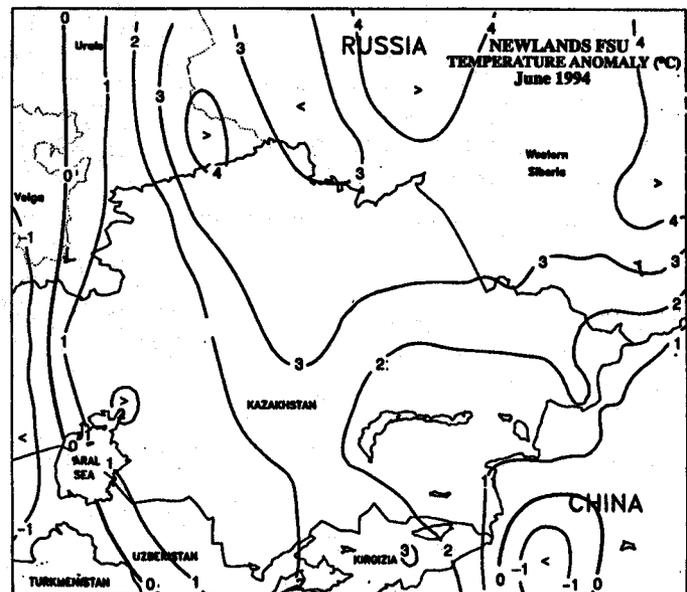
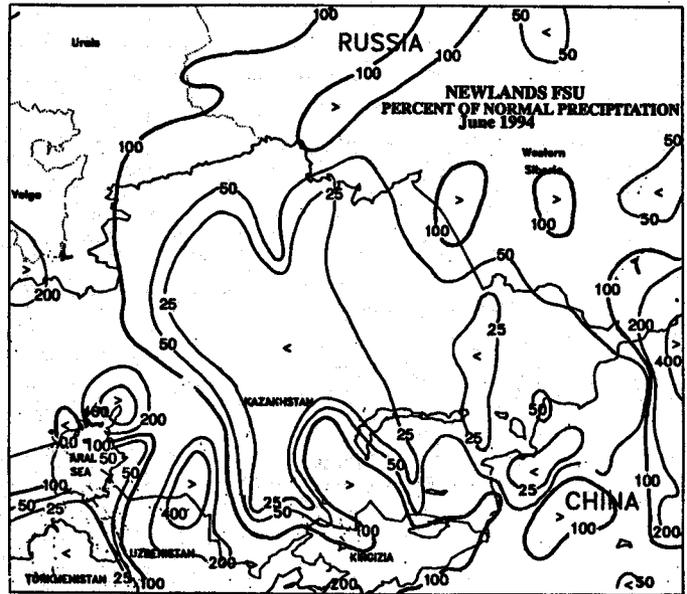
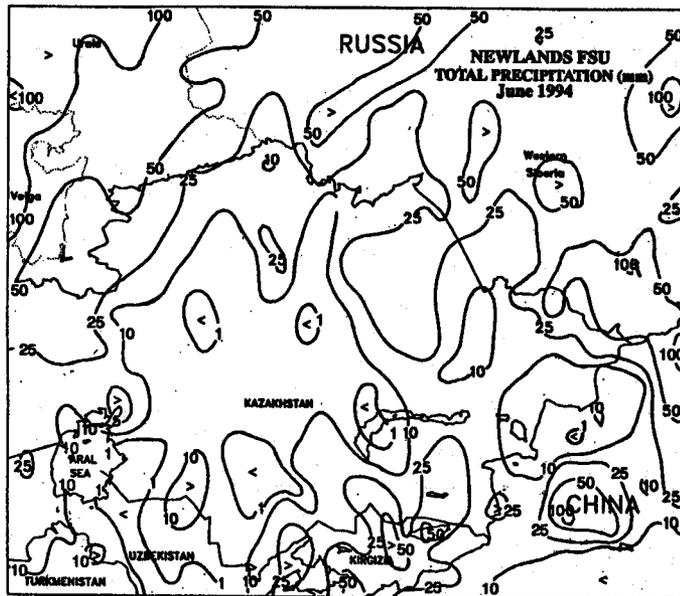


**CANADA:** Widespread light to moderate rain (10-25 mm, with local amounts in excess of 25 mm) covered crop areas in Alberta, Saskatchewan, and Manitoba, providing favorable moisture for spring grains and oilseeds in the reproductive-filling stages of development. Weekly average temperatures ranged from 2 to 3 degrees C below normal, slowing crop development. During June, showery weather resulted in near- to above-normal rainfall over most of the eastern Prairies, as well as Alberta's Peace River Valley, benefiting vegetative to reproductive grains and oilseeds. However, rainfall was below normal over an area of southern Manitoba centered over the Red River Valley. Further west, a drying trend developed mid-month over the southwest although totals for the month at many locations were near normal. Temperatures averaged near normal for the month across the Prairies, but warm weather had developed by month's end over the southwest. In Ontario, mid-month showers broke a drying trend that had reduced moisture for winter wheat, corn and soybean development.





**FSU-NEW LANDS:** Widespread light to moderate rain (10-25 mm, with local amounts in excess of 30 mm) fell over Kazakhstan and Russia, improving growing conditions for spring grains advancing through reproduction. In addition, most areas experienced seasonable temperatures, favoring crop development. In June, dry weather continued through most of the month over Kazakhstan and parts of Western Siberia in Russia. The dryness along with periodic heat hampered spring grains. Further west, weather conditions favored crops in Urals. On June 29-30, scattered showers in central Kazakhstan brought some relief to spring grains approaching reproduction. However, crop areas in eastern Kazakhstan and parts of Western Siberia remained unfavorably dry.



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

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

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(Continued from p. 9)

**SPRING WHEAT HEADED**

ID	Current	Last Wk	1993	Avg.
AR	96	87	59	82
MN	99	99	97	98
MT	90	79	57	75
ND	87	69	80	92
SD	100	100	94	99
5 States	91	79	80	91

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

**COTTON SQUARING**

AL	Current	Last Wk	1993	Avg.
AL	83	81	81	91
AZ	100	100	99	99
AR	100	99	95	98
CA	95	85	90	94
GA	96	96	95	96
LA	100	98	94	93
MS	100	97	92	92
MO	100	97	97	93
NM	79	74	78	81
NC	78	71	72	83
OK	75	57	85	52
SC	90	86	86	87
TN	99	96	98	89
TX	81	69	77	66
14 States	89	82	85	81

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

**SOYBEANS BLOOMING**

AL	Current	Last Wk	1993	Avg.
AL	29	12	24	22
AR	27	17	23	16
GA	31	27	23	25
IL	57	38	31	53
IN	58	33	40	46
IA	80	55	15	43
KS	50	30	15	25
KY	40	11	26	26
LA	36	21	33	28
MI	25	15	25	20
MN	71	50	8	34
MS	35	31	15	20
MO	44	24	13	29
NE	76	42	12	29
NC	18	7	8	14
OH	60	34	47	45
SC	17	9	17	13
SD	54	33	7	28
TN	14	6	13	14
19 States	55	35	22	36

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

**WINTER WHEAT HARVESTED**

AR	Current	Last Wk	1993	Avg.
AR	96	95	99	99
CA	95	90	90	92
CO	98	94	43	60
GA	100	100	100	100
ID	4	1	1	2
IL	96	85	79	89
IN	88	48	73	76
KS	100	100	70	90
MI	30	0	5	20
MO	98	89	52	82
MT	0	0	0	0
NE	91	72	13	57
NC	100	96	100	100
OH	88	46	46	51
OK	100	100	95	99
OR	9	2	3	9
SD	32	7	0	26
TX	99	96	95	97
WA	6	3	5	7
19 States	79	74	57	70

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

**COTTON SETTING BOLLS**

AL	Current	Last Wk	1993	Avg.
AL	42	19	38	43
AZ	84	71	85	87
AR	77	38	38	43
CA	35	15	25	40
GA	66	39	55	52
LA	81	75	72	63
MS	60	50	34	50
MO	54	17	24	31
NM	45	*40	54	56
NC	46	34	41	42
OK	20	0	17	10
SC	47	32	61	45
TN	38	11	37	28
TX	35	26	34	24
14 States	47	32	39	37

(\* Revised)  
 These 14 States produced 99% of the 1993 cotton crop.

**SPRING WHEAT HARVESTED**

ID	Current	Last Wk	1993	Avg.
ID	0	N/A	0	0
MN	0	N/A	0	0
MT	0	N/A	0	0
ND	0	N/A	0	0
SD	2	N/A	0	5
5 States	0	N/A	0	1

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

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