

# WEEKLY WEATHER AND CROP BULLETIN

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

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

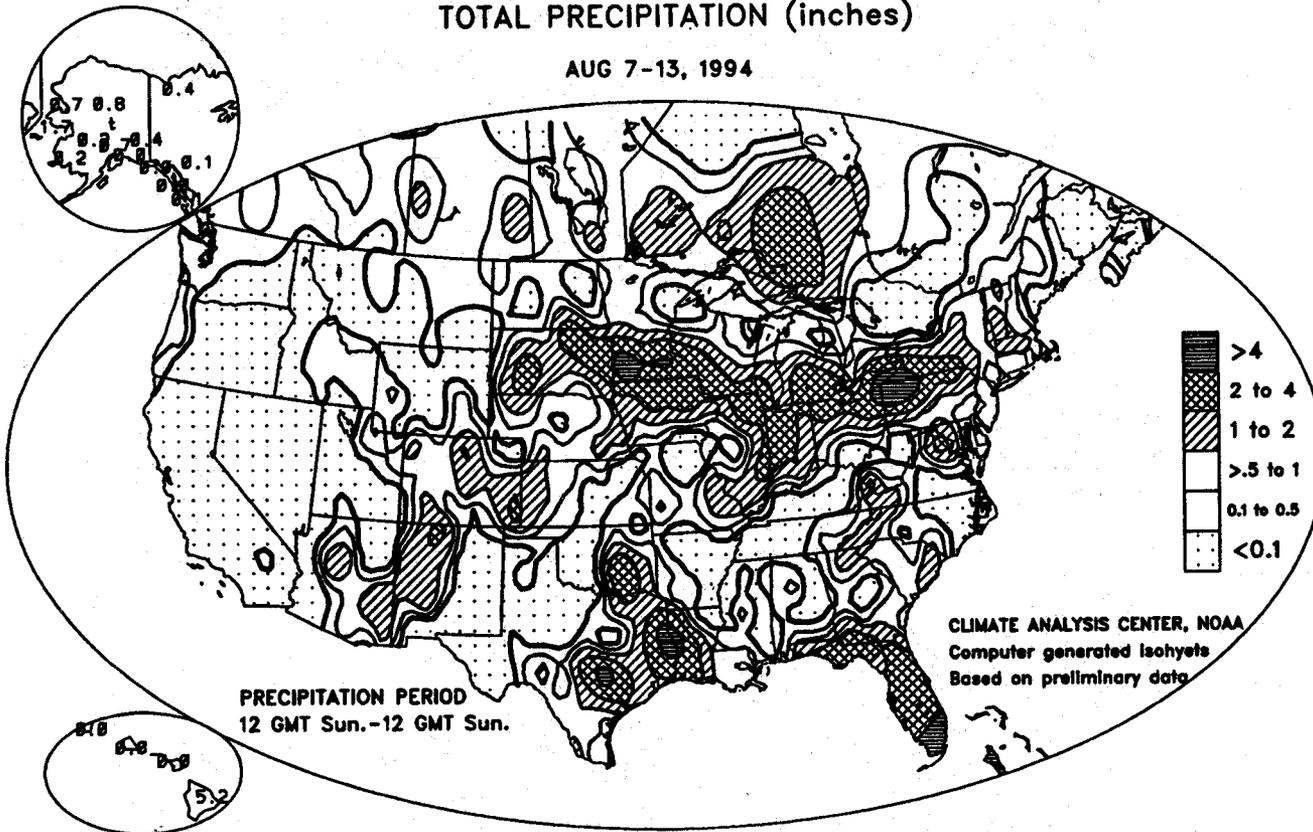
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August 16, 1994

## TOTAL PRECIPITATION (inches)

AUG 7-13, 1994



## HIGHLIGHTS

August 7 - 13, 1994

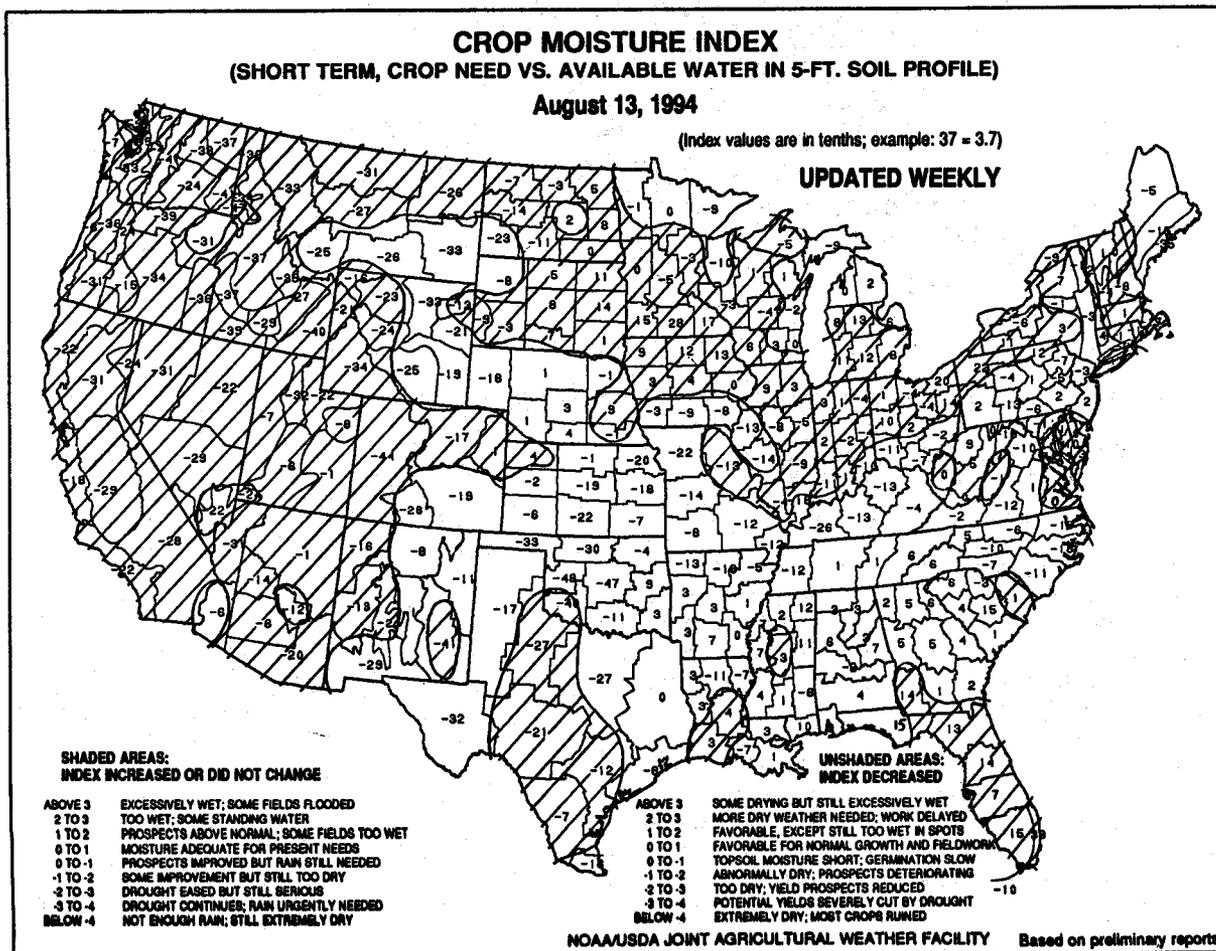
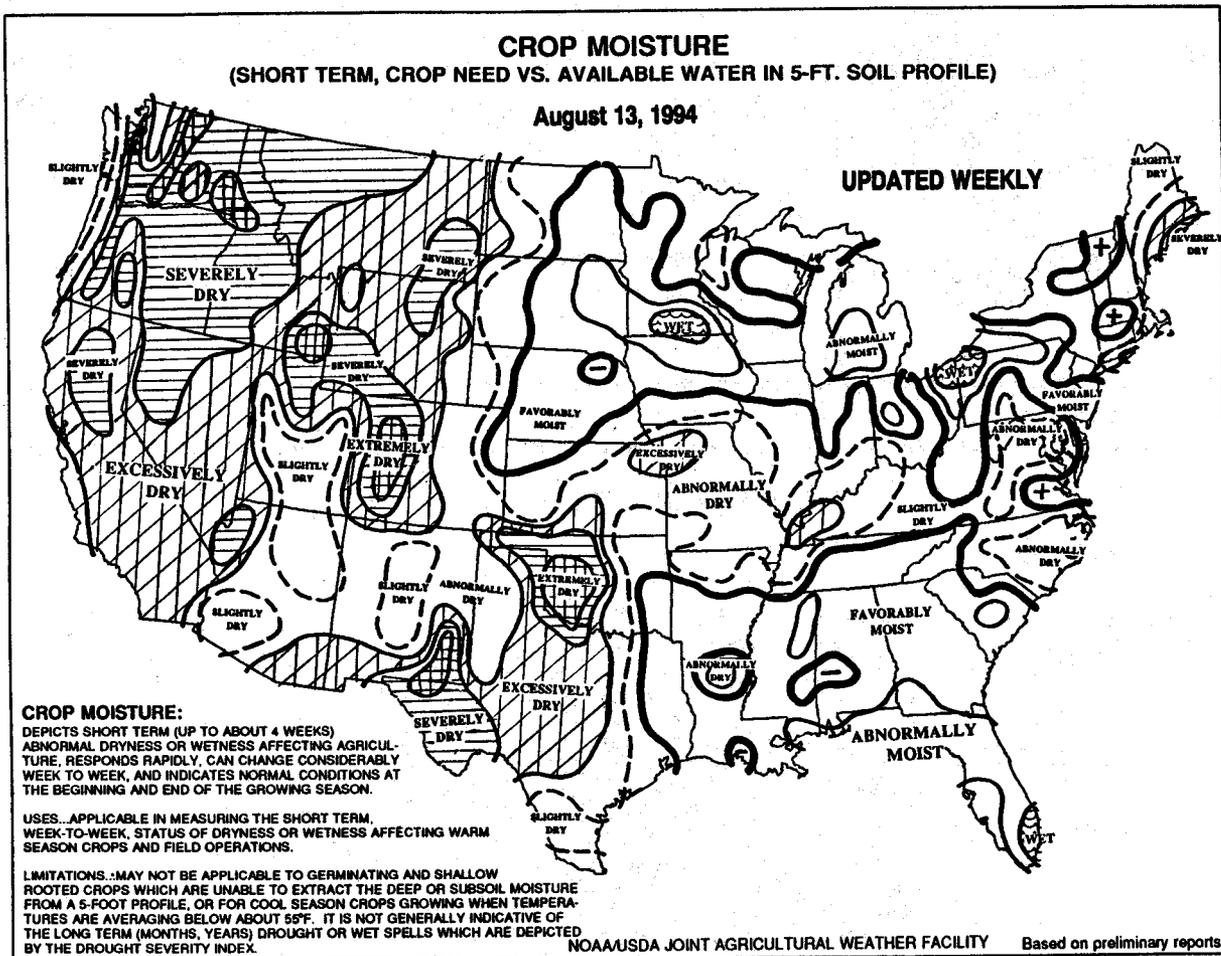
A quasi-stationary front focused rainfall in a narrow band from South Dakota to Pennsylvania until a late-week Canadian surge cleared and cooled the Corn Belt. Farther south, heavy rain drenched Florida, but favorably drier weather covered the remainder of the Southeast. Severe heat continued in the West, with significant monsoonal thunderstorm activity confined to parts of the Four Corners States.

Early in the week, cool air continued to settle across the North-Central and Northeastern States, breaking more than two dozen daily record lows. Readings included 46°F in Albany, NY on Sunday and 38°F in Bismarck, ND on Monday. Meanwhile, a dozen daily record highs were set in the West. On Sunday, Albuquerque, NM and Salt Lake City, UT hit 100°F.

(Continued to p. 12)

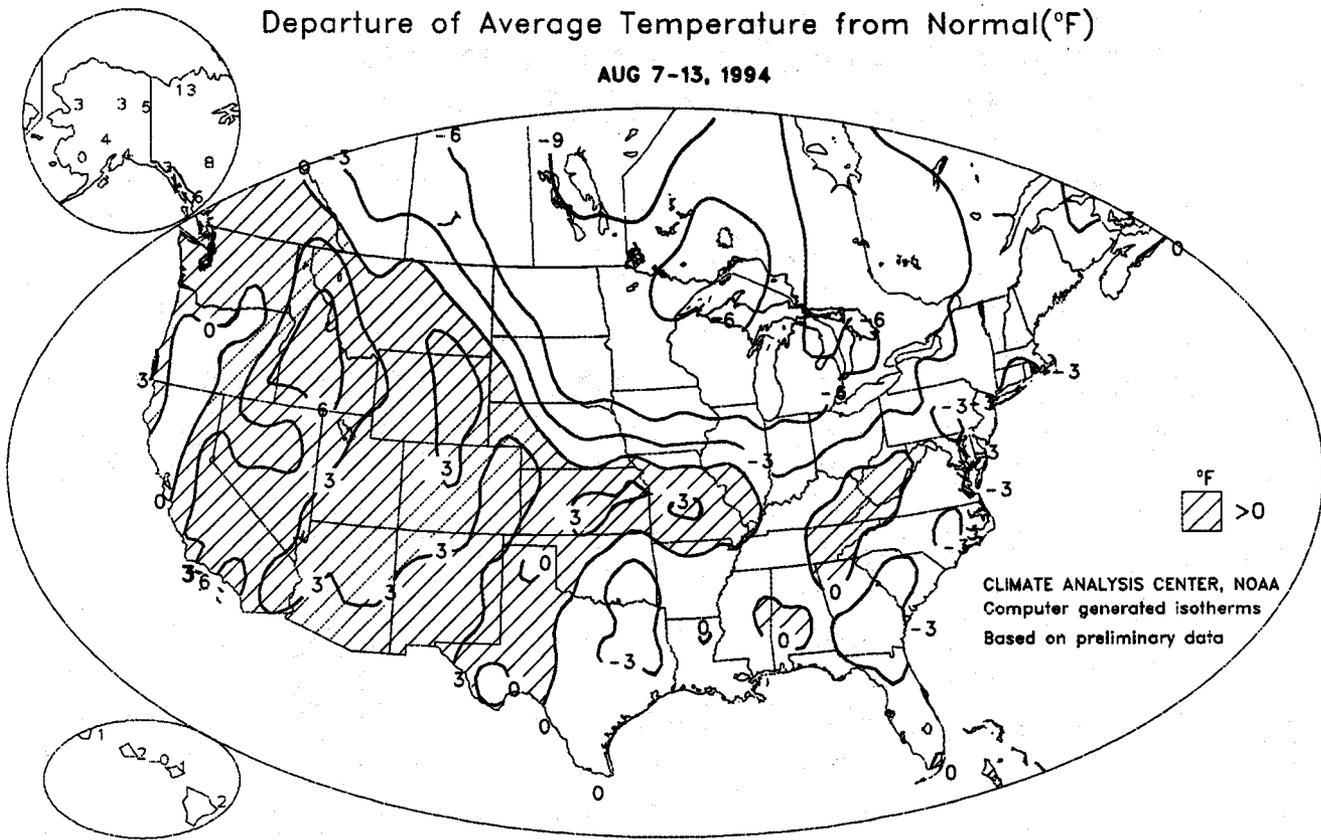
## Contents

	Page
Highlights & Total Precipitation Map .....	1
Crop Moisture Maps .....	2
Temperature Departure & Extreme Maximum Temperature Maps .....	3
Growing Degree Day Table .....	4
National Weather Data for Selected Cities .....	5
July Weather in Historical Perspective .....	8
U.S. Crop Production Highlights .....	9
National Agricultural Summary .....	10
Crop Progress and Condition Tables .....	11
State Summaries of Weather and Agriculture .....	13
International Weather and Crop Summary & July Temperature/Precipitation Maps .....	19
Subscription and Mailing Permit Information .....	32



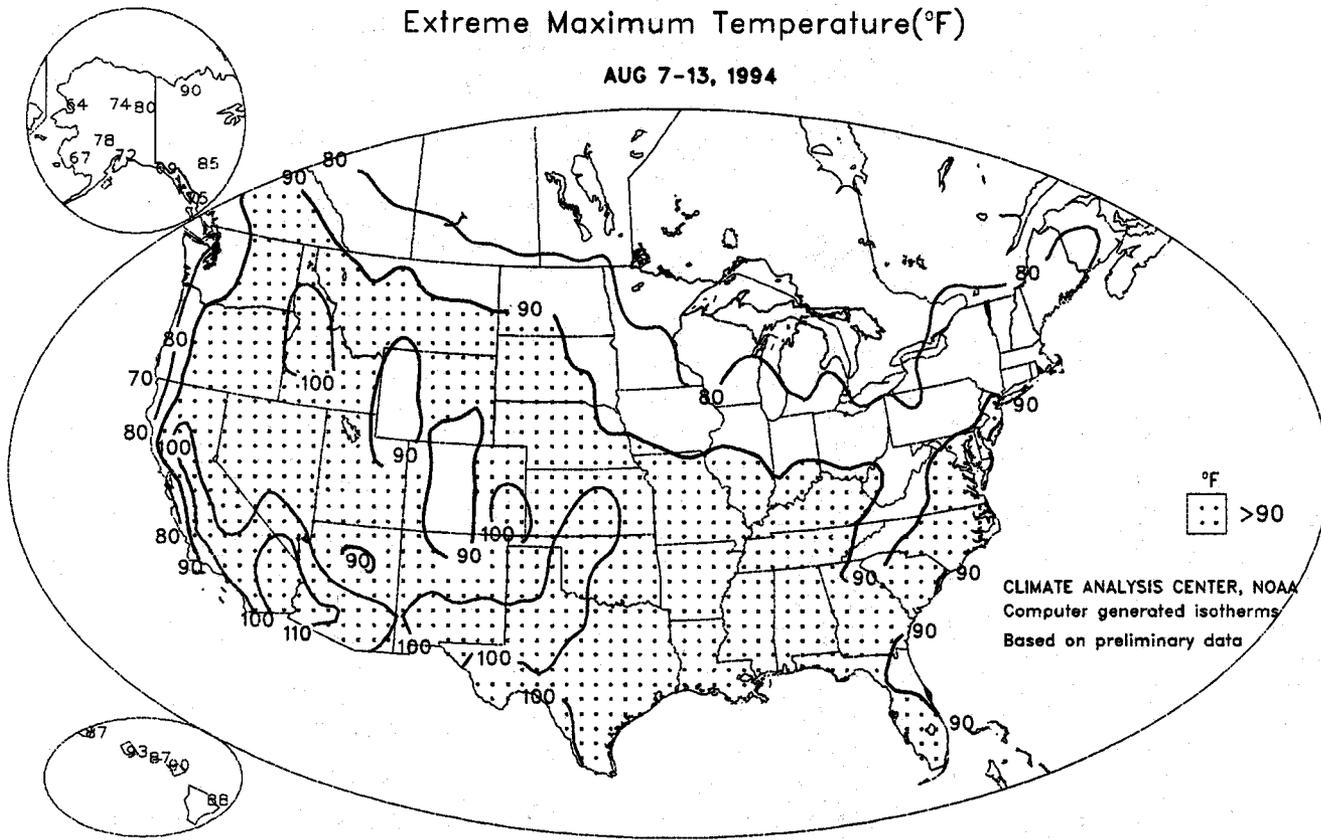
### Departure of Average Temperature from Normal(°F)

AUG 7-13, 1994



### Extreme Maximum Temperature(°F)

AUG 7-13, 1994



## CUMULATIVE GROWING DEGREE DAYS (CORN\*) March 1 - August 13, 1994

STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL
AL ANNISTON	3399	+ 196	AR AUGUSTA	1705	+ 160	GA AUSTIN	4030	+ 179
BIRMINGHAM	3389	+ 125	EL DORADO	3515	+ 136	BIRMINGHAM	2244	+ 73
MOBILE	3810	+ 34	FAYETTEVILLE	2976	+ 174	ALBUQUERQUE	3071	+ 527
MONTGOMERY	3709	+ 338	FORT SMITH	3450	+ 262	CHADAR CITY	2426	+ 398
MUSCLE SHOALS	3284	+ 164	JOHNSBORO	3242	+ 57	BARRE-MONTPELIER	1654	+ 233
OXFORD	3678	+ 137	LITTLE ROCK	3433	+ 192	BURLINGTON	1917	+ 271
TUSCALOOSA	3489	+ 103	TEXARKANA	3581	+ 90	CHARLOTTEVILLE	2883	+ 225
FLAGSTAFF	---	---	BAKERSFIELD	3335	+ 98	HAMPTON/LANGLEY	3079	+ 275
DOUGLAS	3336	+ 308	BLUE CANYON	1627	+ 189	LYNCHBURG	2724	+ 158
PHOENIX	4360	+ 466	DAGGERT	3809	+ 351	BORFOLK	3277	+ 458
TUCSON	3954	+ 406	BUREKA	1064	+ 429	RICHMOND	3061	+ 275
YUMA	4621	+ 549	FAIRFIELD	2561	+ 232	BELLINGHAM	1410	+ 295
PRESCOTT	2640	+ 475	FRESNO	3221	+ 360	BOQUIAM	1134	+ 173
EL DORADO	3515	+ 136	MARYSVILLE	3002	+ 259	SEATTLE-TACOMA	1698	+ 378
FAYETTEVILLE	2976	+ 174	MT SHASTA	1833	+ 233	SPOKANE	1853	+ 262
FORT SMITH	3450	+ 262	PASO ROBLES	2579	+ 246	TACOMA	---	---
JOHNSBORO	3242	+ 57	RED BLUFF	2947	+ 78	WALLA WALLA	2544	+ 489
LITTLE ROCK	3433	+ 192	RIVERSIDE	2839	+ 106	WENATCHEE	2383	+ 278
TEXARKANA	3581	+ 90	SANTA ANA	3088	+ 497	YAKIMA	2188	+ 278
BAKERSFIELD	3335	+ 98	SAN DIEGO	2526	+ 90	BOWLINGTON	2686	+ 272
BLUE CANYON	1627	+ 189	SACRAMENTO	2677	+ 175	MARTINSBURG	2518	+ 166
DAGGERT	3809	+ 351	THERMAL	3958	- 6	ROGANTOWN	2388	+ 110
BUREKA	1064	+ 429	ALAMOGA	1648	+ 100	SAV CLARE	1930	+ 148
FAIRFIELD	2561	+ 232	DENVER	2490	+ 464	GREEN BAY	1839	+ 190
FRESNO	3221	+ 360	EAGLE	1795	+ 159	LACROSSE	2088	+ 99
MARYSVILLE	3002	+ 259	GRAND JUNCTION	2836	+ 344	MADISON	2062	+ 125
MT SHASTA	1833	+ 233	LA JUNTA	2769	+ 229	WAUSAU	1773	+ 132
PASO ROBLES	2579	+ 246	DOVER	2577	+ 8	CASPER	2202	+ 539
RED BLUFF	2947	+ 78	WILMINGTON	2696	+ 327	LANDER	2122	+ 488
RIVERSIDE	2839	+ 106	DAYTONA BEACH	4094	+ 195	SHERIDAN	2005	+ 399
SANTA ANA	3088	+ 497	FORT MYERS	4549	+ 308	WORLDAM	2321	+ 530
SAN DIEGO	2526	+ 90	GAINESVILLE	3884	+ 12			
SACRAMENTO	2677	+ 175	JACKSONVILLE	3931	+ 151			
THERMAL	3958	- 6	FORT LAUDERDALE	4943	+ 561			
ALAMOGA	1648	+ 100	MIAMI	4858	+ 323			
DENVER	2490	+ 464	MILTON	3839	+ 196			
EAGLE	1795	+ 159	VENUSCOLA	3923	+ 92			
GRAND JUNCTION	2836	+ 344	ST PETERSBURG	4458	+ 113			
LA JUNTA	2769	+ 229	TALLAHASSEE	3838	+ 141			
DOVER	2577	+ 8	TAMPA	4395	+ 261			
WILMINGTON	2696	+ 327	VERO BEACH	4361	+ 278			
DAYTONA BEACH	4094	+ 195	W. PALM BEACH	4610	+ 262			
FORT MYERS	4549	+ 308	ATLANTA	3348	+ 228			
GAINESVILLE	3884	+ 12	ADONIA	3485	+ 169			
JACKSONVILLE	3931	+ 151	BUDSWICK	3942	+ 207			
FORT LAUDERDALE	4943	+ 561	COLUMBUS/METRO	3666	+ 212			
MIAMI	4858	+ 323	MASON	3593	+ 126			
MILTON	3839	+ 196	SAVANNAH	3896	+ 314			
VENUSCOLA	3923	+ 92	BOISE	2383	+ 408			
ST PETERSBURG	4458	+ 113	BURLEY	2244	+ 524			
TALLAHASSEE	3838	+ 141	IDARO FALLS	1937	+ 384			
TAMPA	4395	+ 261	POCATELLO	2028	+ 354			
VERO BEACH	4361	+ 278	SKELLEVILLE	2788	+ 106			
W. PALM BEACH	4610	+ 262	CHICAGO/MIDWAY	2218	+ 29			
ATLANTA	3348	+ 228	DECATUR	2416	- 98			
ADONIA	3485	+ 169	PEORIA	2458	+ 182			
BUDSWICK	3942	+ 207	ROCKFORD	2178	+ 141			
COLUMBUS/METRO	3666	+ 212	SPRINGFIELD	2579	+ 105			
MASON	3593	+ 126	QUINCY	2447	+ 15			
SAVANNAH	3896	+ 314	INDIANAPOLIS	2466	+ 88			
BOISE	2383	+ 408	SOUTH BEND	2158	+ 128			
BURLEY	2244	+ 524	VERNE HAUTE	2491	+ 74			
IDARO FALLS	1937	+ 384	DES MOINES	2392	+ 35			
POCATELLO	2028	+ 354	MASON CITY	2034	- 14			
SKELLEVILLE	2788	+ 106	OTTUMWA	2436	+ 93			
CHICAGO/MIDWAY	2218	+ 29	STOCK CITY	2370	---			
DECATUR	2416	- 98	WATERLOO	2207	---			
PEORIA	2458	+ 182	CHAMOTE	2897	+ 93			
ROCKFORD	2178	+ 141	DODGE CITY	2828	+ 174			
SPRINGFIELD	2579	+ 105	GARDEN CITY	2799	+ 181			
QUINCY	2447	+ 15	GOODLAND	2464	+ 265			
INDIANAPOLIS	2466	+ 88	MEDICINE LODGE	3152	+ 229			
SOUTH BEND	2158	+ 128						
VERNE HAUTE	2491	+ 74						
DES MOINES	2392	+ 35						
MASON CITY	2034	- 14						
OTTUMWA	2436	+ 93						
STOCK CITY	2370	---						
WATERLOO	2207	---						
CHAMOTE	2897	+ 93						
DODGE CITY	2828	+ 174						
GARDEN CITY	2799	+ 181						
GOODLAND	2464	+ 265						
MEDICINE LODGE	3152	+ 229						
			ARKANSAS	2893	+ 290	MISSOURI	2893	+ 290
			BALTIMORE	2936	+ 229	NEBRASKA	2834	+ 176
			TOPEKA/BILLARD	2834	+ 176	KANSAS	3009	+ 145
			WICHITA	3009	+ 145	MINNESOTA	2628	+ 65
			LEXINGTON	2628	+ 65	MISSOURI	2869	+ 70
			BOWLING GREEN	2869	+ 70	INDIANA	2991	+ 86
			PADUCAH	2991	+ 86	OHIO	3953	+ 133
			LAFAYETTE	3953	+ 133	ILLINOIS	4036	+ 192
			LAKE CHARLES	4036	+ 192	MISSOURI	3808	+ 265
			MONROE	3808	+ 265	LOUISIANA	3950	+ 111
			NEW ORLEANS	3950	+ 111	MISSOURI	3705	+ 204
			SHERBOURNE	3705	+ 204	MISSOURI	1705	+ 160
			AUGUSTA	1705	+ 160	MISSOURI	1401	+ 204
			CARIBOU	1401	+ 204	MISSOURI	1470	+ 195
			HOULTON	1470	+ 195	MISSOURI	1695	+ 263
			PORTLAND	1695	+ 263	MISSOURI	2809	+ 320
			SALISBURY	2809	+ 320	MISSOURI	1841	+ 180
			WALTON	1841	+ 180	MISSOURI	1931	---
			GRAND RAPIDS	1931	---	MISSOURI	1962	+ 29
			JACKSON	1962	+ 29	MISSOURI	1889	- 66
			LANCASTER	1889	- 66	MISSOURI	1696	- 22
			MUSKOGEE	1696	- 22	MISSOURI	1488	+ 99
			PRESIDENT	1488	+ 99	MISSOURI	1169	+ 18
			SAULT STE. MARIE	1169	+ 18	MISSOURI	1695	+ 101
			TRAVLER CITY	1695	+ 101	MISSOURI	1364	+ 141
			DULUTH	1364	+ 141	MISSOURI	1469	+ 106
			INT'L FALLS	1469	+ 106	MISSOURI	2004	---
			MINNEAPOLIS	2004	---	MISSOURI	1814	---
			ROCHESTER	1814	---	MISSOURI	1789	+ 107
			ALEXANDRIA	1789	+ 107	MISSOURI	3998	+ 144
			BILOXI	3998	+ 144	MISSOURI	3711	+ 430
			COLUMBUS	3711	+ 430	MISSOURI	3540	+ 157
			JACKSON	3540	+ 157	MISSOURI	3720	+ 294
			MERIDIAN	3720	+ 294	MISSOURI	3646	+ 204
			GREENWOOD	3646	+ 204	MISSOURI	2658	+ 129
			COLUMBIA	2658	+ 129	MISSOURI	3034	+ 133
			JOPLIN	3034	+ 133	MISSOURI	2914	+ 212
			SPRINGFIELD	2914	+ 212	MISSOURI	2780	+ 103
			VICHY	2780	+ 103	MISSOURI	1840	+ 374
			HELENA	1840	+ 374	MISSOURI	1577	+ 116
			KALISPELL	1577	+ 116	MISSOURI	2217	+ 310
			MILES CITY	2217	+ 310	MISSOURI	2479	+ 181
			GRAND ISLAND	2479	+ 181	MISSOURI	2477	+ 266
			MORFOLK	2477	+ 266	MISSOURI	2382	+ 288
			NORTH PLATTE	2382	+ 288	MISSOURI	2242	+ 102
			VALENTINE	2242	+ 102	MISSOURI	2359	+ 343
			SCOTTSDALE	2359	+ 343	MISSOURI	2272	+ 423
			SIDNEY	2272	+ 423	MISSOURI	1898	+ 195
			ELMO	1898	+ 195	MISSOURI	1886	+ 300
			KELSO	1886	+ 300	MISSOURI	4114	+ 594
			ELY	4114	+ 594	MISSOURI	2364	+ 481
			LAS VEGAS	2364	+ 481	MISSOURI	2241	+ 360
			RENO	2241	+ 360	MISSOURI	1957	+ 247
			WINNEMUCCA	1957	+ 247	MISSOURI	2819	+ 477
			CONCORD	2819	+ 477	MISSOURI	3071	+ 527
			HEBARK	3071	+ 527	MISSOURI	3683	+ 348
			ALBUQUERQUE	3683	+ 348	MISSOURI	2994	+ 286
			CARLEBAD	2994	+ 286	MISSOURI	2218	+ 180
			CLOVIS	2218	+ 180	MISSOURI	3286	+ 322
			GALLUP	3286	+ 322	MISSOURI	2038	+ 174
			TROTT OR CONSEQ.	2038	+ 174	MISSOURI	1939	+ 165
			ALBANY	1939	+ 165	MISSOURI	1898	+ 199
			ELMIRA	1898	+ 199	MISSOURI	2227	+ 257
			GLENS FALLS	2227	+ 257	MISSOURI	1936	+ 110
			POCONO/SPRING	1936	+ 110	MISSOURI	1912	+ 104
			ROCHESTER	1912	+ 104	MISSOURI	1834	+ 149
			SYRACUSE	1834	+ 149	MISSOURI	1719	+ 25
			UTICA	1719	+ 25	MISSOURI	2589	+ 163
			WATERLOO	2589	+ 163	MISSOURI	3393	+ 394
			ASHVEVILLE	3393	+ 394	MISSOURI	2953	+ 139
			FAYETTEVILLE	2953	+ 139	MISSOURI	2982	+ 194
			GREENSBORO	2982	+ 194	MISSOURI	3146	+ 238
			HICKORY	3146	+ 238	MISSOURI	3900	+ 355
			WALTON	3900	+ 355	MISSOURI	3373	+ 208
			WILMINGTON	3373	+ 208	MISSOURI	1839	+ 159
			NEW BERN	1839	+ 159	MISSOURI		

# National Weather Data for Selected Cities

Weather Data for the Week Ending August 13, 1994

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS										
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE JUN 1	PCT. NORMAL SINCE JUN 1	TOTAL, IN., SINCE JAN 1		PCT. NORMAL SINCE JAN 1	AVERAGE	MAXIMUM	MINIMUM	80 AND ABOVE		32 AND BELOW		.01 INCH OR MORE		.50 INCH OR MORE
													90 AND ABOVE					32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE				
AL BIRMINGHAM	89	69	92	67	79	-1	.8	-.1	.7	14.5	137	39.6	109	93	51	4	0	0	0	0	0	0	1	0
AL MOBILE	90	70	92	68	80	-.2	.4	-1.6	.4	16.8	113	39.1	94	95	48	5	0	0	0	0	0	0	0	0
AL MONTGOMERY	91	70	93	68	81	0	.4	-1.0	.4	17.5	140	38.4	103	92	46	5	0	0	0	0	0	0	0	0
AK ANCHORAGE	69	55	72	50	62	5	.3	-.2	.2	2.3	59	5.6	74	90	65	0	0	0	0	0	0	0	0	0
AK BARROW	62	45	68	37	54	15	.4	-.2	.3	1.3	80	1.9	79	96	64	0	0	0	0	0	0	0	0	0
AK FAIRBANKS	75	54	83	46	65	6	.4	-.5	.4	3.6	86	4.8	75	88	54	0	0	0	0	0	0	0	0	0
AK JUNEAU	74	54	78	51	64	8	.0	-1.1	.0	3.8	41	23.8	88	86	56	0	0	0	0	0	0	0	0	0
AK KODIAK	69	54	75	51	62	6	.2	-.9	.2	11.3	109	53.8	144	90	51	0	0	0	0	0	0	0	0	0
AK NOME	54	50	58	47	52	1	1.7	1.1	.6	4.4	101	7.2	94	94	74	0	0	0	0	0	0	0	0	0
AS FRESNO	105	84	112	80	95	2	.4	-.2	.4	.2	18	2.8	70	49	20	7	7	0	0	0	0	0	0	0
AS FRESNO	89	63	93	61	76	5	1.4	-.6	1.3	3.8	72	7.2	63	86	31	5	0	0	0	0	0	0	0	0
AS TUCSON	105	78	109	75	91	6	.4	-.5	.4	.7	19	3.4	54	55	19	7	7	0	0	0	0	0	0	0
AS YUMA	107	87	113	84	97	3	.4	-.2	.4	.4	0	.7	45	41	19	7	7	0	0	0	0	0	0	0
AR FORT SMITH	90	69	93	66	79	-.2	.5	-.2	.5	14.7	193	36.8	145	96	52	5	5	0	0	0	0	0	0	0
AR LITTLE ROCK	89	72	92	69	81	-1	.4	-.4	.4	13.4	157	37.9	128	86	45	5	0	0	0	0	0	0	0	0
CA BAKERSFIELD	100	70	106	68	85	2	.4	-.0	.4	.4	7	4.2	109	47	18	7	0	0	0	0	0	0	0	0
CA KUREHA	68	55	69	53	61	3	.4	-.1	.4	.8	99	19.5	92	94	70	0	0	0	0	0	0	0	0	0
CA FRESNO	102	68	106	67	85	4	.0	-.0	.0	.0	0	6.3	91	57	17	7	7	0	0	0	0	0	0	0
CA LOS ANGELES	84	68	95	66	76	6	.0	-.0	.0	.0	0	6.2	80	88	42	2	2	0	0	0	0	0	0	0
CA REDDING	99	59	102	53	79	-1	.0	-.1	.0	.0	3	15.0	78	57	11	7	7	0	0	0	0	0	0	0
CA SACRAMENTO	95	58	100	55	77	1	.0	-.0	.0	.0	0	6.7	63	83	18	7	7	0	0	0	0	0	0	0
CA SAN DIEGO	83	70	93	65	77	4	.4	-.0	.4	.1	64	8.2	131	87	49	1	0	0	0	0	0	0	0	0
CA SAN FRANCISCO	74	55	83	54	65	1	.4	-.0	.4	.4	25	10.7	87	91	53	0	0	0	0	0	0	0	0	0
CA DENVER	92	63	98	58	77	4	.4	-.0	.4	1.9	43	7.3	67	80	32	6	6	0	0	0	0	0	0	0
CA GRAND JUNCTION	93	66	101	58	79	1	.2	-.0	.2	.2	12	3.3	55	71	25	6	6	0	0	0	0	0	0	0
CA FURBLO	95	61	99	55	78	3	.5	-.0	.3	4.6	109	10.7	137	87	26	7	7	0	0	0	0	0	0	0
CT BRIDGEPORT	79	63	86	56	71	-3	.1	-.6	.0	4.1	48	24.4	93	80	52	0	0	0	0	0	0	0	0	0
CT HARTFORD	81	58	88	49	70	-3	.5	-.4	.4	10.2	121	31.7	119	90	47	0	0	0	0	0	0	0	0	0
DC WASHINGTON	85	67	92	58	76	-3	1.3	-.4	1.3	7.1	80	27.2	114	88	49	1	1	0	0	0	0	0	0	0
FL MIAMI CITY	87	72	90	70	79	-1	2.9	1.0	1.9	16.9	87	31.0	72	96	61	1	0	0	0	0	0	0	0	0
FL DAYTONA BEACH	85	72	88	70	79	-2	3.2	1.8	2.1	17.9	129	37.8	133	100	71	0	0	0	0	0	0	0	0	0
FL JACKSONVILLE	88	72	89	70	80	-1	1.2	-.0	.9	24.6	183	38.9	129	97	63	0	0	0	0	0	0	0	0	0
FL KEY WEST	89	77	92	74	83	-1	3.9	2.8	2.3	7.3	69	17.8	83	85	65	3	3	0	0	0	0	0	0	0
FL MIAMI	88	76	93	72	82	-1	9.8	8.1	6.6	21.0	117	39.0	116	88	66	2	2	0	0	0	0	0	0	0
FL ORLANDO	88	73	91	70	80	-2	1.9	-.3	.7	25.7	147	40.4	129	98	58	2	2	0	0	0	0	0	0	0
FL TALLAHASSEE	89	69	91	64	79	-2	2.9	1.1	1.8	20.6	108	51.2	116	96	50	2	2	0	0	0	0	0	0	0
FL TAMPA	90	73	92	72	82	-1	1.2	-.5	.7	18.8	123	27.1	98	98	60	4	4	0	0	0	0	0	0	0
FL WEST PALM BEACH	88	74	91	72	81	-1	2.7	1.3	1.1	18.6	111	42.5	123	92	62	2	2	0	0	0	0	0	0	0
GA ATLANTA	89	71	92	68	80	1	.8	-.1	.6	21.8	213	42.3	124	89	49	3	3	0	0	0	0	0	0	0
GA AUGUSTA	89	65	92	60	77	-3	.4	-1.1	.4	10.2	99	26.9	88	97	50	5	5	0	0	0	0	0	0	0
GA MACON	88	67	91	64	77	-4	.0	-.9	.0	24.2	254	42.4	138	97	50	1	0	0	0	0	0	0	0	0
GA SAVANNAH	88	71	92	67	80	-2	.6	-1.1	.4	15.5	102	33.0	100	96	53	4	4	0	0	0	0	0	0	0
HI HILO	85	71	88	69	78	2	5.2	3.0	4.2	32.3	162	100.6	127	95	75	0	0	0	0	0	0	0	0	0
HI HONOLULU	91	77	93	74	84	3	.0	-.1	.0	.7	50	11.8	99	72	50	7	7	0	0	0	0	0	0	0
HI KAHULUI	88	73	90	69	80	1	.4	-.1	.4	1.4	163	9.0	68	76	58	1	0	0	0	0	0	0	0	0
IA LINCOLN	86	77	87	80	81	2	.0	-.4	.0	3.0	65	20.0	81	81	65	0	0	0	0	0	0	0	0	0
ID BOISE	94	64	101	53	80	6	.4	-.1	.4	.3	26	5.0	67	54	16	7	7	0	0	0	0	0	0	0
ID LEWISTON	94	62	103	57	78	3	.4	-.2	.0	1.6	73	6.2	79	42	17	5	5	0	0	0	0	0	0	0
ID POCATELLO	93	57	98	49	75	5	.4	-.1	.4	.7	39	4.8	62	93	16	6	6	0	0	0	0	0	0	0
IL CHICAGO	74	59	87	50	67	-4	2.1	1.1	1.1	10.8	118	19.2	89	93	62	0	0	0	0	0	0	0	0	0
IL MOLINE	79	61	88	52	70	-4	.2	-.8	.1	11.6	105	20.2	81	94	62	0	0	0	0	0	0	0	0	0
IL PEORIA	81	63	89	55	72	-2	.2	-.5	.1	4.6	48	13.5	59	90	66	0	0	0	0	0	0	0	0	0
IL QUINCY	85	64	94	57	75	0	.4	-.8	.4	3.0	30	12.3	51	83	54	1	0	0	0	0	0	0	0	0
IL ROCKFORD	74	58	85	52	66	-6	3.3	2.4	1.9	12.3	119	21.6	95	98	69	0	0	0	0	0	0	0	0	0
IL SPRINGFIELD	86	65	93	56	75	1	.2	-.6	.2	8.6	103	24.2	109	88	52	3	0	0	0	0	0	0	0	0
IN EVANSVILLE	90	66	94	57	78	0	.2	-.6	.2	8.5	66	20.6	69	90	53	3	0	0	0	0	0	0	0	0
IN FORT WAYNE	77	58	86	50	68	-5	.4	-.4	.4	8.0	94	20.5	93	95	67	0	0	0	0	0	0	0	0	0
IN INDIANAPOLIS	82	61	90	53	72	-2	.7	-.2	.6	9.3	86	21.9	85	88	52	1	0	0	0	0	0	0	0	0
IN SOUTH BEND	71	58	85	51	66	-6	1.6	-.8	1.2	12.5	132	20.9	88	93	69	0	0	0	0	0	0	0	0	0
IA DES MOINES	79	61	87	58	70	-3	.6	-.2	.4	10.6	105	18.2	83	94	62	0	0	0	0	0	0	0	0	0
IA SIOUX CITY	78	60	88	57	69	-5	1.1	-.5	.6	10.5	128	15.5	89	96	65	0	0	0	0	0	0	0	0	0
IA WATERLOO	76	56	83	50	66	-6	3.0	2.2	1.7	14.6	133	21.6	64	90	47	3	0	0	0	0	0	0	0	0
KS CONCORDIA	89	69	98	65	79	0	.4	-.8	.4	8.4	87	12.6	69	80	28	7	7	0	0	0	0	0	0	0
KS DODGE CITY	97	66	100	63	81	2	.4	-.6	.4	6.9	91	10.6	69	88	37	5	0	0	0	0	0	0	0	0
KS GOODLAND	92	64	98	56	78	4	1.3	-.6	.6	6.2	90	11.1	82	90	41	5	0	0	0	0	0	0	0	0
KS TOPEKA	92	70	97	67	81	4	.0	-.9	.0	6.6	62	13.3	59	90	41	5	0	0	0	0	0	0	0	0
KS WICHITA	95	70	101	66	82	3	.0	-.8	.0	8.9	84	13.9</												

Weather Data for the Week Ending August 13, 1994

STATES AND STATIONS	TEMPERATURE °F							PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS					
	AVERAGE	MAXIMUM	MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
ME CARIBOU	75	49	80	44	62	2	.0	.9	.0	10.9	125	26.4	126	84	44	0	0	0	0	0	0	
ME PORTLAND	77	53	80	48	68	2	.0	.9	.0	3.2	41	24.3	94	52	51	0	0	0	0	0	0	
ME BALTIMORE	85	64	93	54	74	2	.0	.9	.0	8.8	98	31.7	125	95	50	1	1	1	1	1	1	
ME SALISBURY	85	62	91	53	73	2	.0	.9	.0	5.1	49	27.2	96	96	51	2	2	2	2	2	2	
MA BOSTON	81	64	91	58	72	1	1.1	1.1	1.1	4.8	66	26.1	112	73	46	1	1	1	1	1	1	
MA CHEATHAM	74	60	80	37	67	1	1.1	1.1	1.1	3.7	48	29.5	110	92	64	0	0	0	0	0	0	
MI ALPHEA	73	49	80	42	60	1	2.9	2.9	2.9	11.5	155	20.0	115	96	62	0	0	0	0	0	0	
MI DETROIT	76	59	84	53	67	1	2.7	2.7	2.7	10.1	122	21.8	108	92	60	0	0	0	0	0	0	
MI FLINT	72	56	79	49	63	1	2.7	2.7	2.7	11.9	157	21.6	122	95	73	0	0	0	0	0	0	
MI GRAND RAPIDS	72	56	78	49	64	1	2.4	2.4	2.4	20.6	248	32.3	156	95	72	0	0	0	0	0	0	
MI HOOVERSON LAKE	72	51	78	45	62	1	2.2	2.2	2.2	9.3	133	18.3	112	95	63	0	0	0	0	0	0	
MI LANSING	72	47	77	39	64	1	2.3	2.3	2.3	12.5	170	22.1	123	97	67	0	0	0	0	0	0	
MI MARQUETTE	70	46	76	49	63	1	1.2	1.2	1.2	4.4	58	13.4	67	92	54	0	0	0	0	0	0	
MI MONTROSE	69	46	75	38	57	1	1.6	1.6	1.6	10.8	189	21.2	121	95	72	0	0	0	0	0	0	
MI SABLE ST. MARIE	69	46	75	38	57	1	1.6	1.6	1.6	7.9	108	17.9	95	92	54	0	0	0	0	0	0	
MI ALEXANDRIA	69	55	77	51	62	1	1.1	1.1	1.1	5.0	58	11.1	66	99	64	0	0	0	0	0	0	
MI DULUTH	68	52	75	48	60	1	1.1	1.1	1.1	8.0	88	17.6	96	99	64	0	0	0	0	0	0	
MI INY' L FALLS	71	48	78	39	59	1	1.3	1.3	1.3	10.0	113	14.5	94	94	56	0	0	0	0	0	0	
MI MIDLAND	71	56	83	52	64	1	1.3	1.3	1.3	8.5	93	16.8	90	93	64	0	0	0	0	0	0	
MI ROCKEFER	70	54	78	49	62	1	3.1	3.1	3.1	11.4	121	22.0	116	96	72	0	0	0	0	0	0	
MI GREENWOOD	94	69	97	62	82	0	0	0	0	12.2	125	31.6	90	95	47	7	7	7	7	7	7	
MI JACKSON	90	68	92	63	79	2	1.2	1.2	1.2	16.0	183	42.7	119	96	47	5	5	5	5	5	5	
MI MERIDIAN	93	70	95	67	81	0	0	0	0	16.9	162	47.3	126	93	43	7	7	7	7	7	7	
MI CAPE GIRARDEAU	90	68	93	60	79	1	1.1	1.1	1.1	8.7	103	27.4	94	95	50	4	4	4	4	4	4	
MI COLUMBIA	93	66	97	61	79	3	0	0	0	4.7	53	23.0	97	94	47	5	5	5	5	5	5	
MI KANSAS CITY	91	69	97	65	80	2	0	0	0	5.7	53	16.3	69	89	51	5	5	5	5	5	5	
MI SAINT LOUIS	92	68	97	64	80	1	0	0	0	5.6	63	22.5	94	88	51	5	5	5	5	5	5	
MI SPRINGFIELD	91	69	94	67	80	2	0	0	0	8.8	91	30.1	116	90	45	6	6	6	6	6	6	
MT BILLINGS	90	62	95	60	76	3	0	0	0	4.0	122	8.8	85	59	22	5	5	5	5	5	5	
MT GLASGOW	82	57	88	52	69	2	0	0	0	3.6	81	7.4	93	91	43	0	0	0	0	0	0	
MT GREAT FALLS	85	53	90	48	69	0	0	0	0	2.8	66	7.8	72	88	27	1	1	1	1	1	1	
MT HAVRE	87	56	93	51	71	1	0	0	0	4.5	122	5.4	69	81	32	3	3	3	3	3	3	
MT HELENA	90	53	94	50	72	3	0	0	0	1.8	52	5.4	68	82	29	5	5	5	5	5	5	
MT KALISPELL	89	52	93	39	70	6	0	0	0	2.3	57	7.1	67	82	23	3	3	3	3	3	3	
MT MILLS CITY	88	52	95	58	75	1	0	0	0	1.7	34	5.7	57	79	34	3	3	3	3	3	3	
MT MISSOULA	93	54	98	46	73	6	0	0	0	1.1	82	8.7	97	82	20	5	5	5	5	5	5	
MT GRAND ISLAND	84	64	95	61	74	2	0	0	0	9.6	121	15.3	88	96	60	1	1	1	1	1	1	
MT LINCOLN	83	65	91	62	74	2	0	0	0	10.2	120	14.6	79	96	66	1	1	1	1	1	1	
MT NORFOLK	80	61	86	59	71	3	0	0	0	17.1	194	21.8	122	94	64	0	0	0	0	0	0	
MT NORTH PLATTE	86	62	92	57	74	1	0	0	0	10.3	142	13.9	94	96	58	3	3	3	3	3	3	
MT OMAHA	84	64	92	62	74	2	0	0	0	14.4	165	19.4	102	93	65	1	1	1	1	1	1	
MT SCOTTSBLUFF	89	62	95	59	76	2	0	0	0	5.7	110	10.9	94	92	36	3	3	3	3	3	3	
MT VALENTINE	83	60	95	53	71	3	0	0	0	8.5	106	12.5	78	96	52	3	3	3	3	3	3	
NV ELI	86	54	94	46	70	3	0	0	0	1.9	19	5.8	90	87	27	1	1	1	1	1	1	
NV LAS VEGAS	104	83	111	81	94	4	0	0	0	1.1	19	.8	31	37	18	7	7	7	7	7	7	
NV RENO	92	57	96	53	75	3	0	0	0	1.1	11	3.2	67	79	17	6	6	6	6	6	6	
NV WINDHECCA	95	53	98	46	74	3	0	0	0	4	30	4.8	92	94	12	7	7	7	7	7	7	
NH CONCORD	81	51	86	43	66	3	0	0	0	6.8	87	22.8	105	97	42	0	0	0	0	0	0	
NH ATLANTIC CITY	80	57	89	50	69	4	1.2	1.2	1.2	7.0	84	29.4	116	95	51	0	0	0	0	0	0	
NM ALBUQUERQUE	96	68	100	65	82	5	0	0	0	1.0	37	3.8	75	56	19	7	7	7	7	7	7	
NM CLOVIS	93	64	98	62	79	3	0	0	0	3.9	57	8.4	77	73	26	7	7	7	7	7	7	
NM ROSWELL	98	69	105	65	83	4	0	0	0	2	3	5.1	72	63	20	7	7	7	7	7	7	
NY ALBANY	79	57	84	46	68	3	0	0	0	8.6	103	24.6	111	89	51	0	0	0	0	0	0	
NY BINGHAMTON	74	56	79	48	65	3	1.0	1.0	1.0	13.6	160	29.6	131	91	62	0	0	0	0	0	0	
NY BUFFALO	74	59	81	51	67	3	0	0	0	8.3	100	22.8	103	85	54	0	0	0	0	0	0	
NY NEW YORK	84	67	94	62	76	1	0	0	0	7.5	81	28.2	107	75	43	1	1	1	1	1	1	
NY ROCHESTER	78	58	85	50	68	1	0	0	0	5.0	70	17.6	93	89	55	0	0	0	0	0	0	
NY SYRACUSE	77	57	83	48	67	2	0	0	0	6.3	70	25.1	109	86	51	0	0	0	0	0	0	
NC ASHEVILLE	83	63	86	60	73	0	1.1	1.1	1.1	13.2	109	16.3	104	98	52	0	0	0	0	0	0	
NC CHARLOTTE	88	68	92	63	78	1	0	0	0	7.2	81	22.1	81	92	46	3	3	3	3	3	3	
NC GREENSBORO	86	64	90	57	75	2	0	0	0	10.1	101	24.5	90	96	50	1	1	1	1	1	1	
NC HATTERAS	86	72	91	68	79	0	2.0	2.0	2.0	8.9	77	32.4	99	85	54	2	2	2	2	2	2	
NC NEW BERN	87	66	92	62	77	2	0	0	0	5.2	34	22.2	62	96	50	4	4	4	4	4	4	
NC RALEIGH	87	64	92	57	76	2	0	0	0	7.9	83	24.0	89	91	38	4	4	4	4	4	4	
NC WILMINGTON	88	68	91	62	78	1	0	0	0	9.1	61	31.2	88	96	51	2	2	2	2	2	2	
ND BISMARCK	76	52	84	38	64	4	1.5	1.5	1.5	5.2	92	8.5	76	93	52	1	1	1	1	1	1	
ND FARGO	73	54	81	48	64	4	1.5	1.5	1.5	9.9	150	15.5	119	91	55	0	0	0	0	0	0	
ND GRAND FORKS	75	54	85	43	64	4	1.4	1.4	1.4	10.8	144	14.9	123	90	45	0	0	0	0	0	0	
ND WILLISTON	76	55	88	48	68	5	1.4	1.4	1.4	5.7	114	11.8	120	90	48	0	0	0	0	0	0	
OK AERON-CANTON	77	59	85	51	68	3	0	0	0	8.3	95	26.3	113	91	60	0	0	0	0	0	0	
OK CINCINNATI	83	61	89	53	72	2	0	0	0	10.9	114	26.6	98	93	54	0	0	0	0	0	0	
OK CLEVELAND	76	59	84	51	68	4	3.0	3.0	3.0	9.7	113	19.8	88	94	63	0	0	0	0	0	0	
OK COLUMBUS	82	60	89	51	71	0	0	0	0	8.6	95	21.3	89	93	57	0	0	0	0	0	0	
OK DAYTON	83	60	92	50	71	2	0	0	0	8.8	100	24.1	101	94	58	1	1	1	1	1	1	

Based on 1961-90 normals.

Weather Data for the Week Ending August 13, 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		
OH TOLEDO	75	56	82	47	65	-5	1.2	.5	.8	8.3	99	21.1	103	97	70	0	0	0	0	0	0
OH YOUNGSTOWN	76	56	84	45	66	-3	3.5	2.7	3.5	9.0	96	25.0	107	96	63	0	0	0	0	0	0
OK OKLAHOMA CITY	94	67	98	64	80	-3	0	0	0	2.9	37	14.9	70	92	34	0	0	0	0	0	0
OR TULSA	90	70	95	66	80	-3	0	0	0	14.7	170	30.3	122	90	42	0	0	0	0	0	0
OR ASTORIA	69	55	72	52	62	1	1.3	1.0	1.2	4.4	110	36.0	99	95	67	0	0	0	0	0	0
OR BURNS	90	44	94	40	67	1	0	0	0	0	33	2.9	50	50	48	0	0	0	0	0	0
OR MEDFORD	91	54	95	50	73	-1	0	0	0	0	33	5.1	53	94	24	0	0	0	0	0	0
OR PENDLETON	88	58	94	51	73	0	0	0	0	0	97	8.0	113	60	20	0	0	0	0	0	0
OR PORTLAND	82	58	91	57	70	1	1.1	1.1	1.1	1.8	73	14.6	74	85	32	0	0	0	0	0	0
OR SALEM	82	52	88	51	67	0	0	0	0	1.2	54	16.0	76	87	35	0	0	0	0	0	0
PA ALLENTOWN	81	59	88	51	70	-3	0	0	0	11.7	120	31.9	119	91	55	0	0	0	0	0	0
PA ELIZ	75	61	84	55	68	-3	3.6	2.7	3.5	11.7	128	25.5	109	89	61	0	0	0	0	0	0
PA HARRISBURG	80	63	88	52	72	-4	0	0	0	10.5	119	31.3	123	90	56	0	0	0	0	0	0
PA PHILADELPHIA	84	66	92	59	75	1	1.1	1.1	1.1	13.0	123	33.5	117	85	42	0	0	0	0	0	0
PA PITTSBURGH	80	61	85	51	71	-1	0	0	0	9.7	110	27.0	113	84	55	0	0	0	0	0	0
PA SCRANTON	78	58	83	48	68	-3	0	0	0	7.7	84	23.6	104	97	56	0	0	0	0	0	0
RI PROVIDENCE	79	59	86	52	69	-3	4	4	3	5.5	68	25.4	93	89	31	0	0	0	0	0	0
SC CHARLESTON	87	71	91	66	79	-2	2.1	2.1	2.0	22.0	134	37.8	111	91	49	0	0	0	0	0	0
SC COLUMBIA	88	65	93	59	77	-4	0	0	0	16.4	126	31.4	94	94	47	0	0	0	0	0	0
SC FLORENCE	89	67	92	63	78	-2	1.1	1.1	0.9	10.4	86	25.6	87	95	50	0	0	0	0	0	0
SC GREENVILLE	87	66	89	64	77	-1	1	1	1	17.8	160	34.0	102	95	50	0	0	0	0	0	0
SD ABERDEEN	71	54	83	47	63	-9	3.4	2.7	2.9	9.9	126	14.2	95	95	68	0	0	0	0	0	0
SD HURON	74	58	90	51	66	-7	1.1	1.1	0.9	9.2	133	15.5	106	96	68	0	0	0	0	0	0
SD RAPID CITY	86	61	93	56	73	1	1	1	1	1.5	26	5.7	46	83	40	0	0	0	0	0	0
SD SIOUX FALLS	75	59	89	53	67	-6	1.4	0.8	0.8	20.2	141	16.6	107	96	63	0	0	0	0	0	0
TN CHATTANOOGA	89	67	92	65	78	0	0	0	0	10.2	203	54.0	157	99	50	0	0	0	0	0	0
TN KNOXVILLE	88	67	91	65	78	1	2	2	2	13.6	135	52.3	167	99	50	0	0	0	0	0	0
TN MEMPHIS	93	72	95	64	82	0	0	0	0	9.9	112	33.7	103	82	40	0	0	0	0	0	0
TN NASHVILLE	90	67	92	61	79	0	0	0	0	14.1	156	41.7	137	91	45	0	0	0	0	0	0
TX ABILENE	94	72	98	69	83	-1	0	0	0	6	10	15.0	104	87	34	0	0	0	0	0	0
TX AMARILLO	91	63	94	61	77	-1	0	0	0	7.2	94	12.1	92	83	33	0	0	0	0	0	0
TX AUSTIN	94	73	99	71	84	-1	6.0	5.6	5.7	7.0	108	17.6	90	90	43	0	0	0	0	0	0
TX BEAUMONT	90	72	94	71	81	-2	0	0	0	15.3	117	41.6	123	100	56	0	0	0	0	0	0
TX BROWNSVILLE	91	75	93	73	83	-2	0	0	0	6.6	120	12.8	97	96	57	0	0	0	0	0	0
TX CORPUS CHRISTI	92	74	94	71	83	-1	0	0	0	4.2	61	15.9	96	94	49	0	0	0	0	0	0
TX DEL RIO	94	73	99	70	84	0	0	0	0	5.6	97	15.2	102	86	44	0	0	0	0	0	0
TX EL PASO	100	74	106	70	87	6	0	0	0	0	30	3.0	66	45	18	0	0	0	0	0	0
TX FORT WORTH	94	71	97	67	83	-1	0	0	0	6.4	103	21.0	93	92	44	0	0	0	0	0	0
TX GALVESTON	88	77	91	74	82	-2	0	0	0	6.4	64	15.6	65	89	64	0	0	0	0	0	0
TX HOUSTON	91	73	95	72	82	-1	0	0	0	8.1	67	22.6	72	98	55	0	0	0	0	0	0
TX LUBBOCK	95	69	100	64	82	3	0	0	0	2.6	42	10.4	91	87	31	0	0	0	0	0	0
TX MIDLAND	94	68	100	64	81	0	0	0	0	3.8	102	6.2	76	88	29	0	0	0	0	0	0
TX SAN ANGELO	95	71	101	65	83	1	0	0	0	1.4	34	7.7	67	86	33	0	0	0	0	0	0
TX SAN ANTONIO	95	74	99	70	84	-1	2.0	1.5	2.0	4.2	60	20.7	110	88	40	0	0	0	0	0	0
TX VICTORIA	92	73	93	71	82	-1	0	0	0	3.3	92	22.8	88	96	47	0	0	0	0	0	0
TX WACO	95	71	99	67	83	-3	0	0	0	2.5	43	18.9	96	89	39	0	0	0	0	0	0
TX WICHITA FALLS	98	69	100	66	83	-1	0	0	0	1.1	4	6.5	33	92	33	0	0	0	0	0	0
UT CEDAR CITY	89	62	97	55	76	2	0	0	0	4	26	4.4	63	71	24	0	0	0	0	0	0
UT SALT LAKE CITY	93	66	100	61	79	2	0	0	0	3	22	8.2	79	84	31	0	0	0	0	0	0
VT BURLINGTON	78	54	82	47	66	-3	0	0	0	10.5	118	24.8	121	89	48	0	0	0	0	0	0
VA NORFOLK	86	68	94	61	77	-1	0	0	0	18.2	166	40.4	140	88	45	0	0	0	0	0	0
VA RICHMOND	87	64	94	59	76	-2	0	0	0	9.7	91	30.3	110	89	30	0	0	0	0	0	0
VA ROANOKE	86	63	91	53	75	-1	0	0	0	1.1	9.7	32.5	129	92	40	0	0	0	0	0	0
WA QUILLAYUTE	71	52	75	50	61	2	0	0	0	2	6.0	55.2	95	95	60	0	0	0	0	0	0
WA SEATTLE-TACOMA	77	58	83	56	68	2	0	0	0	1.8	68	15.7	80	87	40	0	0	0	0	0	0
WA SPOKANE	88	54	98	52	71	2	0	0	0	1.0	42	6.2	63	83	18	0	0	0	0	0	0
WA YAKIMA	88	52	95	44	70	0	0	0	0	0	77	4.2	95	87	26	0	0	0	0	0	0
WV BECKLEY	81	60	84	56	71	1	0	0	0	13.3	133	37.7	141	87	44	0	0	0	0	0	0
WV CHARLESTON	88	63	94	54	75	0	0	0	0	1	9.6	37.0	136	95	47	0	0	0	0	0	0
WV HUNTINGTON	86	63	92	54	74	1	0	0	0	0	9.1	34.4	124	97	52	0	0	0	0	0	0
WV PARKERSBURG	83	62	88	54	72	-2	0	0	0	11.7	117	36.3	134	99	58	0	0	0	0	0	0
WI GREEN BAY	71	54	79	48	62	-6	0	0	0	2	10.2	129	21.5	124	93	62	0	0	0	0	0
WI LACROSSE	72	55	81	50	63	-9	0	0	0	0	0	0	0	94	63	0	0	0	0	0	0
WI MADISON	71	53	84	49	62	-8	1.8	1.0	1.5	12.9	139	21.4	107	94	67	0	0	0	0	0	0
WI MILWAUKEE	73	60	86	56	67	-4	1.7	0.9	0.8	8.9	109	18.9	93	90	68	0	0	0	0	0	0
WI WAUSAU	70	52	78	47	61	-7	0	0	0	2	6.9	72	34.1	71	91	58	0	0	0	0	0
WY CASPER	91	60	95	56	75	5	0	0	0	7	122	6.6	75	92	29	0	0	0	0	0	0
WY CHEYENNE	83	58	88	53	71	3	0	0	0	2	4.8	97	10.4	99	36	0	0	0	0	0	0
WY LARAMIE	88	58	93	53	73	3	0	0	0	0	31	5.2	57	69	19	0	0	0	0	0	0
WY SHERIDAN	89	62	93	56	75	5	0	0	0	1	99	9.5	96	74	31	0	0	0	0	0	0

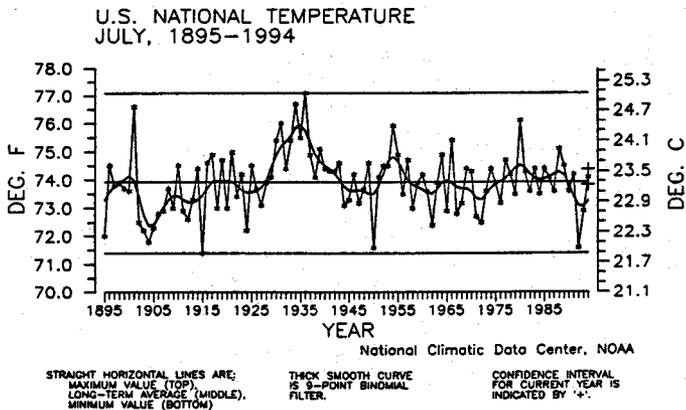
Based on 1961-90 normals.

# July Weather in Historical Perspective

The Nation's average temperature of 74.1°F was 0.2°F above normal, or the 50th warmest July during the 100-year period of record (fig. 1). Hot weather in the three westernmost regions and the Northeast was balanced by cool conditions in the central third of the country (table 1). Precipitation was also variable, ranging from heavy in the Southeast, partly due to the remnants of Tropical Storm Alberto, to the lightest on record in the Southwest. For the contiguous Nation as a whole, it was the fourth driest July on record (fig. 2).

Preliminary State rankings indicate that Georgia experienced its fourth wettest July since 1895 (fig. 3). In contrast, July-record dryness encompassed Utah, Colorado, and New Mexico. Due to worsening drought in the West, Northwest, and Southwest, the Nation's areal extent of severe to extreme drought expanded to 18.7 percent in July (fig. 4). In fact, the heat and dryness during the past 2 months in the three western regions are of unprecedented severity during the past century, as shown on the back cover (figs. 5 and 6).

**Figure 1**

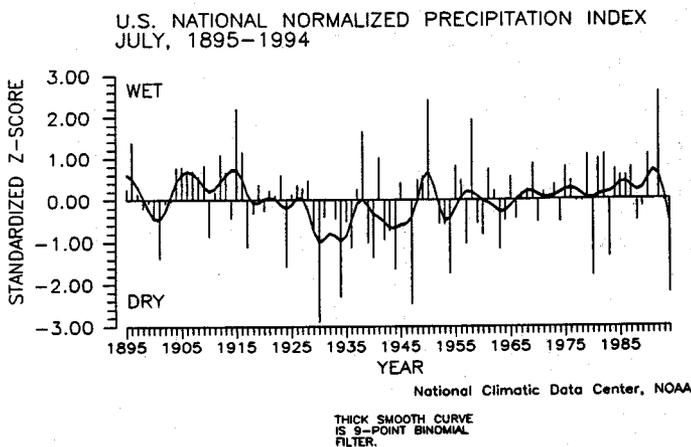


**Table 1**

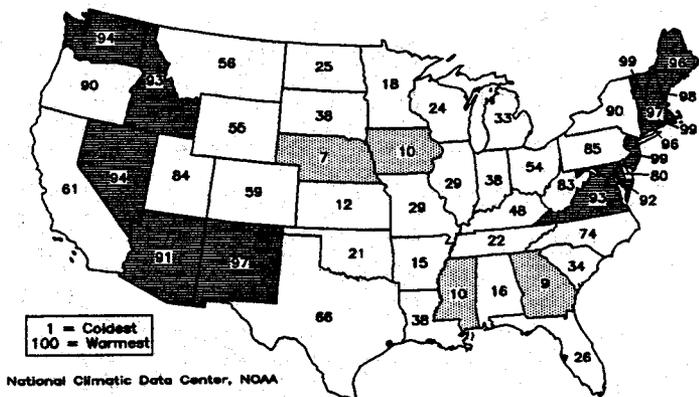
Temperature and precipitation rankings for July 1994, based on the period 1895-1994. 1 = Driest/Coldest, 100 = Wettest/Hottest.

Region	Precipitation	Temperature
Northeast	36	95
East North Central	77	18
Central	22	36
Southeast	80	44
West North Central	57	31
South	70	31
Southwest	1	89
Northwest	17	97
West	20	78
National	4	51

**Figure 2**

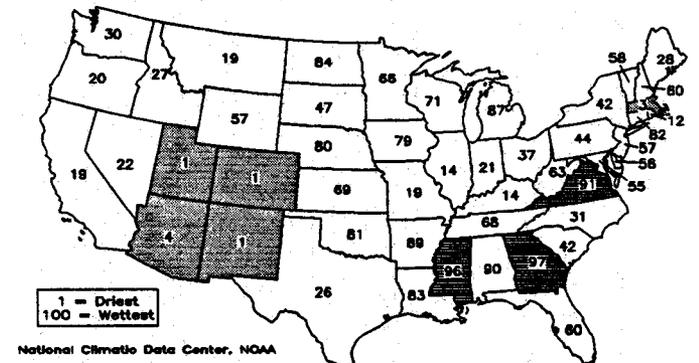


**Figure 3**



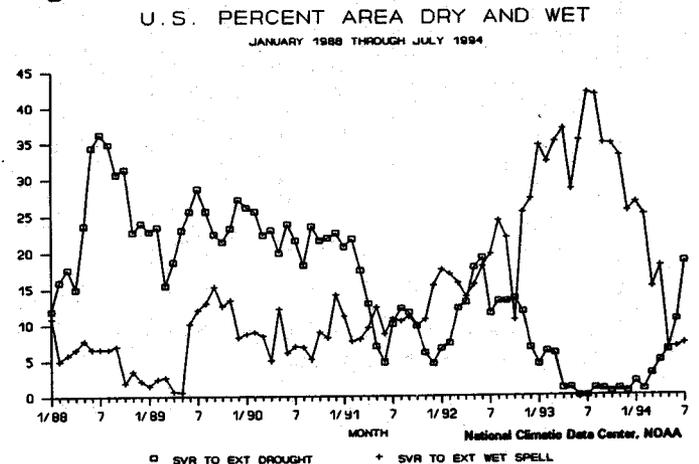
Temperature Ranks for the contiguous United States. Each state is ranked based on its data from 1895-1994. States having a rank of top ten coldest (rank 1-10) or top ten warmest (rank 91-100) are shaded.

**JULY 1994 STATEWIDE PRECIPITATION RANKS**



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

**Figure 4**



# U.S. Crop Production Highlights

The following information was released by USDA's Agricultural Statistics Board on August 11, 1994. Forecasts refer to August 1, 1994.

Corn production is forecast at 9.21 billion bushels, up 45 percent from the 1993 production but 3 percent below the record high production of 1992 (fig. 1). Based on August 1 conditions, yields are expected to average 128.4 bushels, up 27.7 bushels from last year. Acreage for harvest, at 71.8 million acres, is unchanged from the June estimate but 14 percent above the 1993 acreage.

All cotton production for 1994 is forecast at a record high of 19.2 million bales, 19 percent larger than the 1993 output. Yields are expected to average 690 pounds per harvested acre, up 84 pounds from last year. Harvested acreage increased 4 percent from last year primarily from a 25 percent increase in Southeastern States. California expects a record high yield and Georgia's production is the largest since 1937. The Southeast shows the largest regional production increase, up 60 percent from last year. The Delta States' production is 36 percent greater than 1993.

The first soybean production forecast of the 1994 crop is a record high 2.28 billion bushels, up 26 percent from the previous year and 4 percent above 1992 (fig. 2). Yield is expected to be 37.6 bushels per acre, up 5.6 bushels from 1993, and tying the record high yield of 1992. Soybean planting was completed at an earlier date than in 1993. The average plant maturity, as well as the percentage of pods set, is ahead of last year's pace. The number of lateral branches per plant is above 1993. Area to be harvested, at 60.7 million acres, is down fractionally from June but is up 8 percent from last year. Florida and Georgia showed the only decreases from June with 8,000 and 10,000 acres, respectively.

All wheat production is forecast at 2.39 billion bushels, down 1 percent from both July 1 and the 1993 production. Yields are expected to average 38.5 bushels per acre, off 0.5 bushels from July 1 but 0.2 bushels above last year. Total area for harvest is 62.0 million acres, unchanged from the last forecast but down 1 percent from 1993.

Winter wheat final 1994 production forecast is 1.67 billion bushels, up 1 percent from July 1 but 6 percent less than 1993. Yields are expected to average 40.3 bushels per acre, up 0.3 bushels from last month and equaling last year's average. The production increase is primarily due to much better than expected Soft Red Winter harvests.

Spring wheat production (not including durum wheat) is forecast at 618 million bushels, down 6 percent from the July forecast but up 9 percent from 1993. U.S. yields are forecast at 34.6 bushels per acre, down 2.4 bushels from last month. The 1993 average was 33.7 bushels per acre. Head scab has hurt Minnesota's yield prospects, while hot, dry weather caused the Montana and Washington declines.

Figure 1

U.S. Corn Production  
1985-1994

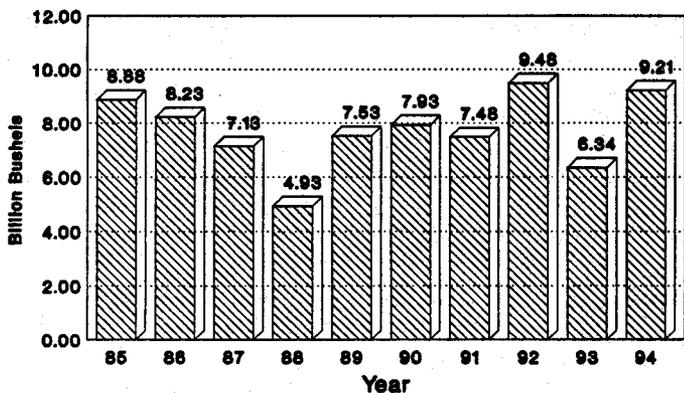
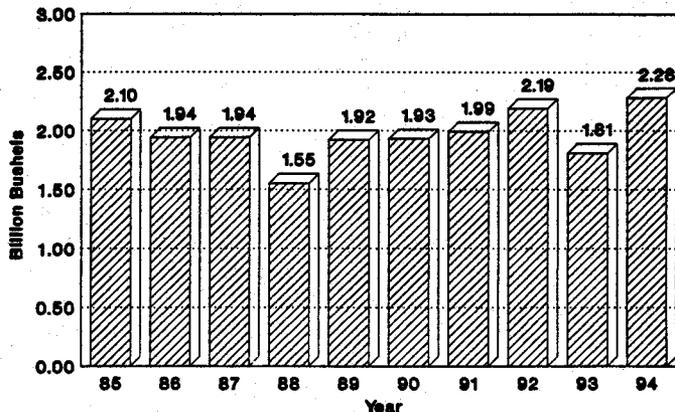


Figure 2

U.S. Soybean Production  
1985-1994



## National Agricultural Summary

August 8 - 14, 1994

**HIGHLIGHTS:** Rain fell along the northern half of the Corn Belt throughout the week, reviving crops and restoring soil moisture supplies. Inadequate rain along the southern half of the Corn Belt caused producers to remain anxious about soil dryness. In the south-central Corn Belt, some dry pockets persisted despite scattered rain late in the week. In the Midwest, cool weather slowed the development of row crops, but the progress of all fall crops remained ahead of normal while the condition of row crops remained good to excellent. Wisconsin producers reported that some warmer weather would help the corn crop to mature evenly. In the Western States, the heat wave continued with no rain to provide relief for the crops and reduce soil moisture shortages. Fires remained a potential threat to ranges and small grain fields in the Pacific Northwest. Irrigation water availability in the Western States remained a concern, given the continued hot, dry weather and persistent short soil moisture supplies for irrigated crops. Good weather in the northern and central Great Plains allowed the small grain harvest to advance. Scattered rain in eastern Colorado maintained some range forage, but the hot, dry weather prevented the rain from penetrating the soil. The Southeastern States reported that soil moisture supplies were diminishing, improving the crop conditions and allowing field activities to resume.

**SMALL GRAINS:** Spring wheat harvested was 29 percent (%) complete, up 12 percentage points from last week and 7 points behind the 5-year average. The wheat harvested in Idaho advanced 28 points from last week, and the wheat harvest in Idaho was 24 points ahead of the average, while North Dakota was 19 points behind the average. The condition for spring wheat was mostly good, up slightly from last week, with 61% of the spring wheat crop rated good to excellent.

**FIELD CROPS:** Corn condition was mostly good, virtually unchanged from last week, with 83% of the corn rated as good to excellent. Corn condition declined in Wisconsin from last week, with 52% of the corn rated as excellent this week compared to 65% last week. Corn in the dough stage for the 17 major producing States was 59%, up 19 points from last week and 14 points ahead of the average. Illinois and Kansas increased corn doughing by 25 points from last week, while Kentucky increased 30 points from the previous week. Corn denting was 1 point ahead of the average with Illinois and Indiana starting behind the average.

Cotton condition was up slightly from last week for the 14 major producing States, with 62% of the cotton crop rated as good to excellent. The cotton condition for Texas improved slightly from last week, with 7% of the crop rated as poor compared to 14% last week. Cotton setting bolls was 95% complete, up from last week and ahead of the average by 8 points. Texas cotton setting bolls was 90% complete, ahead of the average by 15 points. Bolls opening were 10% complete, up 3 points from last week and 1 point ahead of the average. Cotton producers in Texas continued defoliation activities in central Texas and the Blacklands. Texas producers were irrigating where water was available, but plants in some

irrigated fields stopped growing because of a lack of moisture. Arizona and California cotton producers experienced increased insect pressure.

**Sorghum** condition in the 12 States was down from last week, with 64% of the sorghum reported as good to excellent. Sorghum condition declined in New Mexico from 19% poor last week to 43% poor this week. Sorghum headed was 87% for the week, 10 points ahead of last week and 21 points ahead of the average. Sorghum headed was 32 points ahead of the average in Nebraska. Sorghum turning color at 36% was 7 points ahead of last week and 6 points ahead of the average for the 12 major producing States. Greenbugs were reported in areas in Texas where the heat and dry soil stressed some fields.

**Rice** condition was mostly good, up slightly from last week. Rice headed was 84%, up 16 points from last week and 19 points ahead of the average. Arkansas reported rice headed at 86%, 29 points ahead of the average, while Mississippi reported rice headed at 94%, 25 points ahead of the average. Rice harvested was 10% complete, up 2 points from last week and 1 point ahead of the average for the five major producing States. Louisiana and Texas both reported rice harvested was 4 points ahead of the average.

**Soybean** condition was mostly good, unchanged from last week with 79% of the soybean crop rated as good to excellent. Soybeans setting pods were reported at 79% for the 19 major producing States, 12 points ahead of last week and 16 points ahead of the average. Indiana, Kansas, and Missouri increased 15 points from last week for setting pods, while Iowa and Kansas were both above the average by 20 points. In the Delta region, aerial blight was reported in some areas as a result of the earlier hot, wet, and humid weather.

### Crop Condition

for the Week Ending August 14, 1994

#### SORGHUM

State	VP	P	F	G	EX
AR	0	0	23	63	14
CO	1	3	35	53	8
IL	0	5	35	60	0
KS	0	1	18	73	8
LA	0	2	42	56	0
MS	0	0	3	87	10
MO	0	4	42	49	5
NE	0	0	10	69	21
NM	0	43	37	20	0
OK	1	0	50	49	0
SD	0	0	10	76	14
TX	0	3	55	39	3
12 State	0	2	34	56	8
Prev Week	0	5	26	60	9
Prev Year	1	8	37	45	9

#### CORN

State	VP	P	F	G	EX
CO	1	4	19	53	23
GA	0	0	10	80	10
IL	0	1	21	60	18
IN	2	3	30	58	7
IA	0	0	2	63	35
KS	0	1	7	77	15
KY	0	1	16	62	21
MI	3	7	20	50	20
MN	2	4	15	58	21
MO	0	8	37	49	6
NE	0	1	6	66	27
NC	1	9	29	55	6
OH	1	5	20	55	19
PA	0	3	10	56	31
SD	0	0	9	56	35
TX	0	0	28	65	7
WI	0	0	2	46	52
17 State	1	2	14	59	24
Prev Week	0	2	14	59	25
Prev Year	4	12	33	43	8

#### COTTON

State	VP	P	F	G	EX
AL	0	4	39	57	0
AZ	0	0	10	80	10
AR	0	0	6	94	0
CA	0	0	0	85	15
GA	0	0	18	75	7
LA	0	0	27	65	8
MS	0	2	41	53	4
MO	0	0	18	73	9
NM	0	8	42	42	8
NC	0	0	7	79	14
OK	0	0	60	40	0
SC	0	0	23	77	0
TN	0	0	1	97	2
TX	0	7	56	27	10
14 State	0	3	35	54	8
Prev Week	0	7	33	50	10
Prev Year	1	6	34	52	7

#### RICE

State	VP	P	F	G	EX
AR	0	0	0	100	0
CA	0	0	0	90	10
LA	0	0	65	35	0
MS	0	0	24	60	16
TX	0	0	0	68	32
5 State	0	0	16	78	6
Prev Week	0	0	18	78	4
Prev Year	0	2	25	73	0

#### SOYBEANS

State	VP	P	F	G	EX
AL	0	0	23	68	9
AR	0	0	33	67	0
GA	0	0	13	76	11
IL	0	1	21	68	10
IN	1	3	27	65	4
IA	0	0	4	68	28
KS	0	0	21	71	8
KY	0	0	19	67	14
LA	0	7	31	62	0
MI	1	4	25	50	20
MN	3	2	22	59	14
MS	0	3	14	61	22
MO	0	5	37	52	6
NE	0	1	6	64	29
NC	0	0	8	88	4
OH	1	5	23	55	16
SC	0	0	25	75	0
SD	0	0	9	58	33
TN	0	0	10	80	10
19 State	0	2	19	65	14
Prev Week	0	2	19	63	16
Prev Year	3	11	39	42	5

#### SPRING WHEAT

State	VP	P	F	G	EX
ID	2	7	26	50	15
MN	4	9	45	42	0
MT	1	7	22	49	21
ND	1	6	26	59	8
SD	1	2	46	48	3
5 State	2	6	31	53	8
Prev Week	2	7	33	50	8
Prev Year	1	10	35	47	7

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

### Crop Progress

for the Week Ending Aug. 14, 1994

#### SPRING WHEAT HARVESTED

	Current	Last Wk	1993	Avg.
ID	47	19	2	23
MN	33	21	7	44
MT	26	5	0	10
ND	17	8	1	36
SD	79	67	32	66
5 States	29	17	6	36

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

#### GRAIN SORGHUM HEADED

	Current	Last Wk	1993	Avg.
AR	96	91	81	83
CO	55	48	43	37
IL	86	73	75	71
KS	85	65	50	45
LA	98	98	94	92
MS	100	99	87	90
MO	90	79	69	73
NE	97	94	45	65
NM	47	22	60	70
OK	72	65	65	53
SD	78	56	28	48
TX	91	87	86	84
12 States	87	77	64	66

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

#### GRAIN SORGHUM COLORING

	Current	Last Wk	1993	Avg.
AR	63	51	33	42
CO	4	0	5	5
IL	19	15	6	17
KS	15	5	2	5
LA	72	64	58	67
MS	74	55	64	60
MO	34	23	15	26
NE	9	1	0	6
NM	0	0	0	0
OK	22	19	15	19
SD	9	5	1	8
TX	71	69	71	68
12 States	36	29	28	30

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

**RICE HEADED**

	Current	Last Wk	1993	Avg.
AR	86	73	53	57
CA	55	10	45	44
LA	88	82	78	84
MS	94	80	56	69
TX	100	96	81	94
5 States	84	68	60	65

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

**COTTON SETTING BOLLS**

	Current	Last Wk	1993	Avg.
AL	89	86	90	95
AZ	100	100	100	100
AR	100	93	97	98
CA	99	95	95	99
GA	100	99	100	99
LA	99	99	95	96
MS	100	100	98	97
MO	99	97	100	99
NM	94	90	98	99
NC	89	86	90	87
OK	91	84	95	73
SC	97	80	98	95
TN	100	99	100	96
TX	90	76	80	75
14 States	95	87	90	87

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

**CORN DOUGHING**

	Current	Last Wk	1993	Avg.
CO	39	15	17	22
GA	100	100	100	99
IL	78	53	49	67
IN	66	43	53	60
IA	48	31	8	27
KS	85	60	55	70
KY	85	55	81	71
MI	10	0*	1	10
MN	24	9	5	23
MO	80	69	49	69
NE	83	66	27	47
NC	88	86	87	86
OH	57	35	40	48
PA	30	4	20	22
SD	47	23	6	30
TX	90	80	86	89
WI	32	17	6	22
17 States	59	40	30	45

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

**RICE HARVESTED**

	Current	Last Wk	1993	Avg.
AR	0	0	0	0
CA	0	0	0	0
LA	35	25	25	31
MS	0	0	1	0
TX	34	25	16	30
5 States	10	8	7	9

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

**SOYBEANS SETTING PODS**

	Current	Last Wk	1993	Avg.
AL	51	40	46	42
AR	58	41	31	33
GA	65	45	48	52
IL	88	69	62	77
IN	86	71	68	68
IA	98	92	56	78
KS	75	60	55	55
KY	42	36	36	34
LA	74	65	64	58
MI	60	50	55	50
MN	96	89	35	72
MS	72	52	45	48
MO	65	50	48	55
NE	96	89	51	63
NC	40	30	32	33
OH	71	65	69	69
SC	30	18	31	30
SD	87	70	35	66
TN	42	30	42	35
19 States	79	67	52	63

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

**COTTON BOLLS OPENING**

	Current	Last Wk	1993	Avg.
AL	2	1	7	6
AZ	45	29	40	39
AR	1	0	0	1
CA	5	2	5	4
GA	2	1	5	6
LA	5	1	6	6
MS	6	1	3	4
MO	2	0	1	1
NM	0	0	0	0
NC	7	0	5	5
OK	2	1	3	1
SC	1	1	3	5
TN	0	0	0	2
TX	16	14	16	15
14 States	10	7	10	9

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

**CORN DENTING**

	Current	Last Wk	1993	Avg.
CO	0	NA	0	0
GA	98	NA	94	95
IL	21	NA	10	24
IN	9	NA	3	16
IA	12	NA	0	7
KS	30	NA	15	30
KY	48	NA	41	38
MI	0	NA	0	5
MN	2	NA	0	3
MO	46	NA	18	37
NE	17	NA	1	9
NC	77	NA	65	66
OH	8	NA	2	13
PA	0	NA	1	3
SD	10	NA	0	5
TX	66	NA	67	74
WI	5	NA	1	5
17 States	17	NA	8	16

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

(Continued from front cover)

and El Paso, TX registered 106°F. Isolated, but locally inundating, thunderstorms developed in the South-Central States and Florida. In Austin, TX, 5.67 inches fell on Tuesday to set a 1-day August rainfall record for that location. Miami, FL set a 24-hour August rainfall record with 9.18 inches on August 11-12.

Farther north, a series of weak storm systems traversed the Northwest, providing a break from recent extreme heat, and rippled eastward along a frontal boundary, igniting thunderstorms. A short-lived daily record chill even appeared on Wednesday at Klamath Falls, OR (40°F) and Redding, CA (53°F). In the western Corn Belt, thunderstorms erupted on Tuesday, resulting in 24-hour rainfall of 6.48 inches at Redwood Falls, MN and 3.38 inches in Watertown, SD. Weekly rainfall also topped 3 inches in locations such as Rockford, IL, Rochester, MN, and Waterloo, IA. Cool air persisted north of the front,

and on Wednesday, highs struggled only to 58°F in La Crosse, WI and 62°F in Minneapolis, MN. Rainfall re-intensified on Saturday across northern Ohio and along the Pennsylvania-New York border. More than 3 inches inundated Youngstown, OH and Erie, PA. Heavy rain also fell on Hawaii's Big Island, where a tropical depression (One-C), drifting westward 200 miles to the south, enhanced windward shower activity. Hilo, HI recorded 5.20 inches of rain, with more than 1 foot measured nearby.

Record heat shifted westward late in the week toward the California coast. Daily records on Friday included highs of 104°F in Los Angeles (Civic Center), CA and 107°F in Paso Robles, CA. A day later, San Diego, CA, with 93°F, experienced its hottest day so far this year. The warmth covered the entire eastern Pacific rim, with a daily record high set as far north as Kodiak, AK (75°F).

## State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by NASS State Statistical Offices in cooperation with the National Weather Service.

**ALABAMA:** Rainfall none to 0.44 in. north; none to 0.75 in. central; none to 0.34 in. south. Temperatures 3° below normal to 2° above normal statewide. Lows 61 to 71° north; 60 to 68° central; 60 to 69° south. Highs 87 to 94° north; 89 to 94° central; 89 to 95° south.

Days suitable for fieldwork 5.8. Soil moisture 15% short, 72% adequate, 13% surplus. Corn dented 84%, 80% 1993, 87% avg.; mature 48%, 51% 1993, 62% avg.; harvested 12%, 15% 1993, 28% avg.; 8% poor, 9% fair, 63% good, 20% excellent. Sorghum harvested 3%, 6% 1993, 9% avg.; 13% poor, 16% fair, 69% good, 2% excellent. Peanuts pegged 97%, 95% 1993, 99% avg.; 42% poor, 43% fair, 15% good. Pasture feed 20% fair, 60% good, 20% excellent. Livestock 13% fair, 76% good, 11% excellent. Seasonal activities: Planting, harvesting vegetables, scouting, spraying fields for insects, controlling weeds.

**ALASKA:** Warm weather, dry conditions continued throughout most growing areas.

Days suitable for farm work 5. First crop hay harvest was 100% complete, second crop harvest was being delayed because of poor regrowth due to drought. Last year second crop hay harvest stood at 5% complete. Most barley, oats had turned color by weekend. Barley 80% ripe, 35% 1993, swathing had begun in the Tanana Valley. Oats 40% ripe, 15% 1993. Topsoil moisture 85% short, 15% adequate. Subsoil moisture supplies 70% short, 30% adequate.

**ARIZONA:** Temperatures generally above normal; normal to 6° above. Extremes 51°; 101° higher elevations; 63°; 115° deserts. Precipitation all reporting stations except Coolidge; trace to 1.71 in.

Cotton crop experiencing greater insect pressure from variety of sources making targeting for budget-minded farmers difficult. Condition continues mostly good; setting bolls 100%, 100% 1993, 100% avg. Weed infestations, insect, disease infestations reported moderate. Alfalfa condition continues mostly good. Harvest mostly active. Weed, insect, disease infestations light to moderate. Vegetables harvested from central areas included cantaloupe, honeydew, watermelon, chili pepper. Crops available eastern areas were apples, cabbage, squash, sweet corn, watermelon.

**ARKANSAS:** Temperatures slightly below normal with showers heaviest in the south. Extremes 58°; 97°. Rainfall none to 1.03 in.

Days suitable for fieldwork 7. Soil moisture 42% short, 58% adequate. Crop development ahead of schedule. Producers irrigating cotton, soybeans. Boll weevil pressure increased on cotton. Peaches, tomatoes, watermelons good with harvest ongoing. Corn 1% fair, 89% good, 10% excellent. Alfalfa 57% fair, 43% good. Other hay 4% poor, 27% fair, 64% good, 5% excellent. Pasture feed 4% poor, 34% fair, 49% good, 13% excellent. Livestock good.

**CALIFORNIA:** High pressure brought dry, warm week. Temperatures a few degrees above normal. A few thunderstorms were scattered across southeastern locations.

Field activities made good progress, open weather prevailed. Small grain harvest underway higher elevation fields. Elsewhere harvest complete. Producers baling straw, wheat, barley. Hot temperatures prompted good Rice growth, progress improved ahead normal. Cotton crop good to excellent condition. San Joaquin Valley fields blooming, setting bolls. Treatment whitefly, pink boll worm took place desert areas, bolls were open. Corn cut silage, sprayed aphids, mites, worms. Sunflowers heading out San Joaquin Valley. Garbanzo beans, safflower, seed alfalfa, sugarbeets harvested. Alfalfa cut hay, greenchopped. Some alfalfa sprayed weevils, armyworms. Table grape harvest continued Flame Seedless Thompson Seedless major varieties picked. Peaches nectarines harvested during week several counties. Pear harvest 50% complete Sacramento County. Pears good size. Royal Gala Granny Smith Apples continued picked exported other markets. Almond harvest continued Fresno county. Prune harvest began week Colusa Sutter counties. Ground preparation strawberry planting continued, planting begun. South coast area lemons Valencia oranges con-

tinued to be harvested. Star Ruby grapefruit continued packed. Walnuts sprayed codling moth Navel oranges worm control. Harvest broccoli, cabbage, cauliflower, celery central coast seasonally normal. Fall broccoli, cauliflower crops progressing central valley. Carrot harvest active Kern County. Head Lettuce harvest coastal areas continued. Leaf, Romaine Lettuce harvest active. Fields fall lettuce planted Fresno County. Harvest cantaloupe, honeydew, watermelons continued most areas State. Fall melons planted Palo Verde Valley. Fresh market dry onion harvest San Benito County slow due poor demand. Dry onion fields fumigated for next crop San Joaquin County. Planting peas winding down Westside Merced County. Peppers harvested San Joaquin Valley. Fall Potatoes Tullake-Butte Valley growing well with few problems reported. Sweet Corn picked San Joaquin, Coachella Valleys. Early Sweet potato harvest under way Merced County. Processing, fresh market tomato harvests active Sacramento, San Joaquin Valleys. Fall fresh market tomato fields prepared central valley. Vinseed harvested Sutter County. Other crops being harvested: Garlic, squash, eggplant, cucumbers, green bean, tomatillos, various oriental vegetables. Pasture, range feed mostly fair to poor. Cooler temperatures, early week, improved pasture higher elevations. Hot temperatures returned weeks end, conditions declining. Rangeland feed, water supplies below normal. Ranchers supplemental feeding lower areas. Livestock movement increased. Cattle calving some areas. Cattle, sheep good condition.

**COLORADO:** Temperatures 3° above normal. Rainfall was in abundance across the front range, eastern areas. Flooding was reported, several flash flood statements were issued. West suffered through more of the drought that has been prevalent for the past month or so.

Days suitable for fieldwork 5.9. Soil moisture 12% very short, 57% short, 30% adequate, 1% surplus. Alfalfa second cutting 80% complete, 72% 1993, 61% avg.; third cutting 18% complete, 11% 1993, 8% avg.; 1% very poor, 8% poor, 36% fair, 48% good, 7% excellent. Spring barley 45% harvested, 51% 1993, 52% avg.; 6% very poor, 9% poor, 19% fair, 55% good, 11% excellent. Dry beans 91% flowered, 76% 1993, 74% avg.; 2% poor, 28% fair, 59% good, 11% excellent. Oats 75% harvested, 54% 1993, 57% avg. Dry onion 22% harvested, 12% 1993, 14% avg.; 1% poor, 29% fair, 54% good, 16% excellent. Sugarbeets 4% poor, 19% fair, 50% good, 31% excellent. Spring wheat 65% harvested, 14% 1993, 25% avg. Summer potatoes 21% harvested, 23% 1993, 19% avg.; 1% very poor, 1% poor, 21% fair, 64% good, 13% excellent. Fall potatoes 8% poor, 15% fair, 64% good, 13% excellent. Scattered rain maintaining some range forage, hot weather continues to dry out soil as fast as it rains. Livestock fair to good. Pasture, range feed conditions are fair to poor over most of State.

**FLORIDA:** Temperatures near normal to 4° below normal. Highs; mostly low to mid 90s. Lows; mid 60s to mid 70s. Rain 4 to 7 days. Rainfall 1.00 to 4.00 in. common, 5.00 to 10.00 in. totals southeast. Heavy rain moved into eastern Panhandle, Big Bend area as Tropical Storm Beryl formed over northeast Gulf, 15th.

Hay harvesting continues, behind schedule due to rainy weather of past couple of weeks. Most growers on second cutting. Corn harvest underway. Peanut crop looks good, many fields more weedy than usual. Tobacco harvest to continue for 2 weeks, condition good. Citrus groves, trees, new crop fruit very good. Moisture adequate to surplus, some standing water. Abundant new foliage. Leaf miner present on new foliage, not posing a major problem. Limited fruit splitting wet areas. New crop grapefruit testing. Caretakers cutting cover crops, herbiciding, spraying, fertilizing. Sweet corn, tomato planting continues north, eggplant, peppers on east coast. Planting of sweet corn, carrots to begin central. Some fall crop planting begun southwest. Growers preparing fields, laying plastic central, east coast, southwest vegetable growing areas. North fall tomato crop growth good. Pasture feed 15% fair, 75% good, 10% excellent. Cattle herds good to excellent.

**GEORGIA:** Temperatures little above normal north to below normal central, south. Highs for week middle 80s northeast

mountains to lower 90s central, south. Lows middle to upper 50s the northeast mountains to low to middle 60s central, south except upper 60s near coast. Rain days varied 1 to 4 over the State. Just about all stations recorded some rain during week. Numerous stations 1.00 to 2.00 in. across north, central, south many rain totals under 0.33 in., local areas over 1.00 in.

Days suitable for fieldwork 5.6. Soil moisture 11% short, 84% adequate, 5% surplus. Corn 96% mature, 84% 1993, 83% avg.; 21% harvested for grain, 8% 1993, 19% avg. Cotton spraying active. Sorghum 24% fair, 74% good, 2% excellent; harvest underway south. Peanuts 1% poor, 25% fair, 73% good, 1% excellent; disease pressure increasing some areas, spraying active. Soybeans 87% blooming, 80% 1993, 82% avg. Tobacco 5% very poor, 3% poor, 22% fair, 68% good, 2% excellent; 86% harvested, 60% 1993, 75% avg. Watermelons 98% harvested, 97% 1993, 96% avg. Vegetables 11% poor, 49% fair, 40% good; planting fall vegetable crops. Apples 16% fair, 84% good; 10% harvested, 12% 1993, 22% avg. Peaches 100% harvested, 98% 1993, 97% avg. Pecans 43% fair, 57% good. Hay, pasture mostly good to excellent, haying very active. Cattle, hogs good.

**HAWAII:** Water-laden tropical depression 1-C dumped heavy rain windward areas Hawaii, Maui islands on 12th. Heavy damage Hilo, Hawaii, where 15.00 in. fell, confined mostly to homes, businesses. Relatively light losses to agriculture. Otherwise weather during week mostly hot, humid with scattered light showers. Temperatures low 70s to low 90s. Rainfall none to 9.50 in.

Most crops made fair to good progress during the week. Some minor damage to vegetable crops in areas with heaviest rains. Pastures, other crops benefited from additional rainfall.

**IDAHO:** Fires pose a serious threat to ranges, ripe grain fields. Temperatures up to 7° above normal. Precipitation none to 0.02 in. north, none to 0.04 in. southwest, none to 0.51 in. south central, none to 0.23 in. east. Extreme 42°; 103°.

Days suitable for fieldwork 7. Potato harvest has begun southwest, south central. Still a small percentage of total acreage. Soil moisture 34% very short, 43% short, 23% adequate. Range, pasture 56%. Potato progress: Closing middles 61%, turning 31%, vines dying/killed 7%, harvested 1%. Potato 2% poor, 11% fair, 74% good, 13% excellent. Barley harvested 57%, 4% 1993, 27% avg.; 1% very poor, 7% poor, 24% fair, 51% good, 17% excellent. Alfalfa hay harvested (2nd cutting) 88%, 56% 1993, 71% avg.; 3rd cutting 10%, 3% 1993, 6% avg. Dry pea acreage harvested 81%, 8% 1993, 48% avg. Lentil acreage harvested 61%, 2% 1993, 38% avg. Mint acreage harvested 90%, 75% 1993, 75% avg. Peaches harvested 60%, 21% 1993, 50% avg. Plums, prunes harvested 8%, 1% 1993, 11% avg. Onions harvested 7%, 0% 1993, 6% avg. Hops harvested 2%, 9% 1993, 1% avg. Dry beans harvested 2%, 0% 1993, 4% avg. Irrigation water supplies 19% very poor, 19% poor, 37% fair, 23% good, 2% excellent. Activities: Irrigating, cutting alfalfa, harvesting grain, hauling water to livestock, managing grain stubble.

**ILLINOIS:** Cool air dominated the north with more seasonable conditions south. Highs were in the low 70s to upper 80s, average lows were between the low 50s to mid 60s. Heavy thunderstorms left northern, far eastern areas with more than an inch while to the west little precipitation was noted. Totals of 2.00 to 3.00 in. were common in the far north, east while west-central, much of southwestern areas received 0.25 in. or less.

Days suitable for fieldwork 5.75. Soil moisture 58% short, 42% adequate. Corn mature 1%, less than 1% 1993, 3% avg. Soybeans turning yellow 2%, less than 1% 1993, 3% avg. Oats harvested 99%, 85% 1993, 96% avg. Alfalfa hay third cutting 59%, 24% 1993, 40% avg. Condition 8% excellent, 58% good, 29% fair, 5% poor. Pasture condition 79% of normal. Soil moisture supplies continued short in almost all but the two northern districts where moisture is adequate. Crop conditions held steady with spotty rainfall except in the northernmost two districts where crop prospects are good to excellent. Condition of the crop in the east and south continues good to fair with concern about beans losing blooms and corn firing due to dryness. Farm activities included crop scouting, preparing storage facilities for harvest, cutting hay, harvesting vegetable, melon crops and mowing weeds.

**INDIANA:** Surges of Canadian air brought cooler than normal temperatures across much of State. A sharp cold front moved across

State late 13th with strong thunderstorms followed by a fall type weather pattern. Highs mid 70s to around 90°, which was 2 to 9° below normal for most of the State, 1 to 2° above normal for the southwest. Lows in the mid 50s to middle 60s which was 1 to 6° below normal over large parts of State except for 1 to 3° above normal in the far south. Rainfall 0.20 to 1.00 in. south to 0.50 to 2.50 in. central, north. Above normal over large parts of the north, central by around 0.50 to 1.50 in., below normal in the south by around 0.40 to 0.80 in.

Days suitable for fieldwork 5. With short pastures, farmers are feeding hay to their livestock to meet roughage needs. Harvesting mint, tilling wheat ground, topping, harvesting tobacco, baling hay were major field activities this week. Other activities: Mowing, machinery maintenance, cleaning out grain bins. Pasture feed 75% of normal, 75% last week. Topsoil rated 46% short, 47% adequate, 7% surplus. Subsoil moisture 49% short, 48% adequate, 3% surplus. Tobacco harvested 9%, 4% 1993, 5% avg. Alfalfa 3rd cutting 50%, 17% 1993, 33% avg.

**IOWA:** Temperatures 2° below normal south to 8° below normal north. Extremes 44°; 93°. Rainfall: only trace amounts extreme southeast to over 4.00 in. portions of north third of State; average rainfall 1.25 in. (normal 0.90 in.).

Days suitable for fieldwork 4.6. Topsoil 22% short, 66% adequate, 12% surplus. Subsoil 9% short, 85% adequate, 6% surplus. Corn in or past milk stage 90%, 24% 1993, 65% avg. Alfalfa hay 3rd crop harvested 21%, 0% 1993, 15% avg. Clover hay 2nd crop harvested 82%, 44% 1993, 74% avg. Pasture 3% poor, 27% fair, 57% good, 13% excellent. Hay 3% poor, 24% fair, 62% good, 11% excellent. Livestock were reported mostly good, however, there were many reports of pinkeye, face fly problems in cattle.

**KANSAS:** Temperatures 2 to 3° above normal west; coolest north central; warmest central, south central. Precipitation significant northwest, north central, southeast. Rainfall 0.74 in. northwest to 0.02 in. south central.

Days suitable for fieldwork 6.5. Surface soil moisture 68% short to very short, 28% adequate, 4% surplus. Subsurface moisture 35% short to very short, 63% adequate, 2% surplus. Fall crops beginning to show some stress from lack of moisture, remain in mostly good condition. Corn mature 3%, 5% 1993, 10% avg. Timely rains fell northwest, north central, southeast improving corn crop. A few south central sorghum fields are mature. Scattered showers missed sorghum fields in most central, eastern areas. A few soybean fields south central shedding leaves. Warm temperatures and very little moisture led to decline of soybean conditions central, south central. Alfalfa 3rd cutting 95%, 60% 1993, 70% avg. Alfalfa 4th cutting 15%, 2% 1993, 10% avg. Pastures declining due to lack of moisture, still in mostly good condition.

**KENTUCKY:** Warm, dry conditions. Maximum temperature 2 to 4° above normal, 1 to 3° above normal east. Minimum temperatures within a couple of degrees of normal. Precipitation deficits 0.50 to 1.00 in., except a surplus of up to 0.33 in. in Reckinridge county, from a heavy thunderstorm.

Days suitable for fieldwork 5.6. Soil moisture 8% very short, 39% short, 53% adequate, weekend scattered thunderstorms. All crop mostly good. Tobacco cut 10%, Dark tobacco 19%. Tobacco mostly good to excellent. Hay crops 1% very poor, 12% poor, 33% fair, 48% good, 6% excellent. Pasture feed generally fair.

**LOUISIANA:** Temperatures 0.9 to 2.9° below normal. Extremes 65°; 96°. Rainfall 0.10 in. north central, northeast to 1.91 in. northwest.

Days suitable for fieldwork 4.7. Soil moisture 3% short; 82% adequate, 15% surplus. Corn 27% fair, 65% good, 8% excellent; 92% mature, 79% 1993, 90% avg.; 27% harvested, 13% 1993, 33% avg. Harvest moved along at a quick pace. Cotton; insect pressure remains relatively light. Hay 31% second cutting, 28% 1993, 29% avg. Active by mid-week. Peaches 97% harvested, 90% 1993, 96% avg. Wound down rapidly with the hot weather. Rice 42% ripe, 38% 1993, 48% avg. Sorghum 34% ripe, 11% 1993, 34% avg.; 6% harvested, 2% 1993, 8% avg. Soybeans 95% blooming, 83% 1993, 81% avg.; 1% turning color, 2% 1993, 1% avg. Aerial blight was a problem in some areas with the previous wet, humid weather. Sugarcane 25% fair, 75% good; 5% planted, 1% 1993, 2% avg. Preparation for planting was active. Sweet potatoes 33% fair, 61% good, 6% excellent; 10% harvested, 2% 1993, 9% avg. Harvest made good progress. Livestock

6% very poor, 9% poor, 56% fair, 29% good. Pastures feed 4% fair, 85% good, 11% excellent. Conditions were very good for growth. Vegetables 27% fair, 63% good, 10% excellent.

**MARYLAND & DELAWARE:** MARYLAND: Rainfall 0.45 in., normal 1.00 in. Temperature 70.8°, normal 75.8°. Extremes 43°; 98°.

Days suitable for fieldwork 5.8. Topsoil moisture 11% short, 89% adequate. Subsoil moisture 10% short, 90% adequate. All small grain harvest complete. Pasture feed excellent. Corn good; 96% silked, 91% 1993, 91% avg.; 41% dough, 55% 1993, 57% avg.; 12% dent, 22% 1993, 26% avg. Soybeans good; 69% bloomed, 66% 1993, 72% avg.; 45% set pods, 39% 1993, 43% avg. Sorghum good; 86% headed, 83% 1993, 81% avg. Tobacco good; 83% bloomed, 55% 1993, 68% avg.; 50% topped, 31% 1993, 43% avg.; 6% harvested, 8% 1993, 14% avg. Sweet corn 75% harvested, 79% 1993, 70% avg. Tomatoes 56% harvested, 68% 1993, 66% avg. Watermelons 71% harvested, 70% 1993, 67% avg. Other hay 83% second cut, 81% 1993, 70% avg.; 35% third cut, 25% 1993, 14% avg. Alfalfa hay 81% third cut, 84% 1993, 61% avg.; 9% fourth cut, 10% 1993, 4% avg. Peaches poor to mostly fair; 75% harvested, 56% 1993, 58% avg. Apples fair to mostly good. Hay supplies adequate.

DELAWARE: Precipitation 0.88 in., normal 1.15 in. Temperature 70.7°, normal 76.4°. Extremes 52°; 89°.

Days suitable for fieldwork 6.5. Topsoil moisture 80% adequate, 20% surplus. Subsoil moisture 20% short, 60% adequate, 20% surplus. Corn fair to good; 100% silked, 100% 1993, 99% avg.; 58% dough, 40% 1993, 47% avg. Soybeans fair to mostly good; 80% bloomed, 46% 1993, 67% avg.; 29% set pods, 14% 1993, 18% avg. Sorghum good; 68% heading, 30% 1993, 68% avg. Sweet corn 82% harvested, 81% 1993, 69% avg. Potatoes 65% harvested, 49% 1993, 58% avg. Tomatoes 63% harvested, 58% 1993, 49% avg. Other hay 100% second cut, 89% 1993, 94% avg.; 44% third cut, 27% 1993, 33% avg. Alfalfa hay 87% third cut, 55% 1993, 64% avg. Hay supplies adequate; pasture feed good. Peaches fair to mostly good; 75% harvested, 53% 1993, 71% avg. Apples good; 11% harvested, 18% 1993, 16% avg.

**MICHIGAN:** Extremes 37°; 84°. Precipitation none to 2.75 in. across the State.

Days suitable for fieldwork 5.0. Soil moisture 10% short, 60% adequate, 30% surplus. Dry beans 60% setting pods, 60% 1993, 50% avg.; 3% turning, 4% 1993; 10% very poor, 20% poor, 25% fair, 35% good, 10% excellent. Oats 55% ripe, 90% 1993, 80% avg.; 35% harvested, 45% 1993, 55% avg.; 3% very poor, 12% poor, 30% fair, 45% good, 10% excellent. Potatoes 35% harvested, 35% 1993, 25% avg. Hay 75% second cutting, 70% 1993, 70% avg.; 10% third cutting, 15% 1993, 10% avg.; 3% very poor, 7% poor, 25% fair, 45% good, 20% excellent. Pasture feed 90% of normal. Major activities: cutting hay, harvesting oats, straw, spraying field crops.

**MINNESOTA:** Temperatures 7 to 10° below normal for the State. Extremes 39°; 89°. Precipitation 3.61 in. above normal in the southwest to 0.40 in. below normal in the northwest. Greatest weekly total was 6.89 in.

Days suitable for fieldwork 3.7. Topsoil 1% very short, 6% short, 56% adequate, 37% surplus. Corn 89% milk, 10% 1993, 58% avg.; 24% dough, 5% 1993, 23% avg.; 2% dent, 0% 1993, 3% avg. Soybeans 96% detting pods 35% 1993, 72% avg.; 1% yellowing, 0% 1993., 0% avg. Spring wheat 46% cut/swathed, 12% 1993, 53% avg.; 33% combined, 7% 1993, 44% avg. Barley 64% cut/swathed, 25% 1993, 71% avg.; 43% combined, 12% 1993, 60% avg. Oats 93% cut/swathed, 59% 1993, 82% avg.; 79% combined, 38% 1993, 68% avg. Corn 2% very poor, 4% poor, 15% fair, 58% good, 21% excellent. Spring wheat 4% very poor, 9% poor, 45% fair, 42% good. Barley 4% very poor, 8% poor, 47% fair, 41% good. Soybeans 3% very poor, 2% poor, 22% fair, 59% good, 14% excellent. Sunflowers 5% poor, 23% fair, 64% good, 8% excellent. Sugarbeets 2% very poor, 2% poor, 24% fair 65% good, 7% excellent.

**MISSISSIPPI:** Temperature 1.6° below normal. Extremes 56°; 100°. Soil temperature 85°. Precipitation 0.08 in., 0.81 in. below normal. Rainfall was minimal during the week.

Days suitable for fieldwork 6. Soil moisture 19% short, 75% adequate, 6% surplus. Corn 99% dough, 91% 1993, 91% avg.; 81% dent, 67% 1993, 74% avg.; 37% mature, 27% 1993, 41% avg.; 4% harvested, 10% 1993, 8% avg.; 50% silage harvested, 45% 1993,

52% avg.; 12% fair, 54% good, 34% excellent. Cotton 6% open bolls, 3% 1993, 4% avg.; 2% poor, 41% fair, 53% good, 4% excellent. Rice 94% heading, 56% 1993, 69% avg.; 14% mature, 7% 1993 10% avg.; 24% fair, 60% good, 16% excellent. Sorghum 100% heading, 87% 1993, 90% avg.; 74% turning color, 64% 1993, 60% avg.; 21% mature, 16% 1993, 25% avg.; 4% harvested, 0% 1993, 1% avg.; 15% silage harvested, 27% 1993, 35% avg.; 3% fair, 87% good, 10% excellent. Soybeans 94% blooming, 76% 1993, 74% avg.; 72% setting pods, 45% 1993, 48% avg.; 4% turning color, 3% 1993, 4% avg.; 3% poor, 14% fair, 61% good, 22% excellent. Hay 80% harvested, 78% 1993, 73% avg. Peaches 97% harvested, 95% 1993, 97% avg. Pecans 5% very poor, 18% poor, 50% fair, 23% good, 4% excellent. Sweet potatoes 10% harvested, 2% 1993, 5% avg.; 81% fair, 19% good. Watermelons 90% harvested, 76% 1993, 86% avg.; 10% poor, 87% fair, 3% good. Livestock 10% fair, 76% good, 14% excellent. Pasture feed 89% of normal. Activities: Hay harvest, corn silage harvest, spraying cotton.

**MISSOURI:** Temperatures 3° below normal at Caruthersville to 3° above normal at Kansas City, Columbia. Rainfall 0.33 in., varying from less than 0.10 in. northwestern, north-central districts to 0.91 in. east-central district.

Days suitable for fieldwork 6.4. Topsoil moisture 74% short, 26% adequate. Subsoil moisture 40% short, 60% adequate. Crops need rain in most areas. Corn developing 5 days ahead of average. Corn denting by district ranges less than 33% north-central, northeast to 90% southeast. Soybeans one week ahead of average. Beans setting pods by district range 46% southeast to 75% northwest, northeast. Sorghum coloring ranges less than 20% in 3 northern districts to 58% southeast. Third cutting alfalfa 70%, 53% avg., some areas too dry for third crop. Pasture feed 8% very poor, 30% poor, 52% fair, 9% good, 1% excellent.

**MONTANA:** Temperatures above normal, slight precipitation for most of State.

Days suitable for fieldwork 6.7. Topsoil 83% short, 17% adequate. Subsoil moisture 77% short, 22% adequate, 1% surplus. Winter wheat 83% harvested, 2% 1993, 30% avg. Barley 37% harvested, 1% 1993, 11% avg.; 1% very poor, 8% poor, 24% fair, 49% good, 18% excellent. Oats 33% harvested, 0% 1993, 10% avg.; 4% poor, 18% fair, 58% good, 20% excellent. Corn 7% fair, 76% good, 17% excellent. Dry bean 7% fair, 73% good, 20% excellent. Second cutting alfalfa 68%, 7% 1993, 33% avg. Other hay harvest 90%, 58% 1993, 80% avg. Pasture, range feed 84% of normal.

**NEBRASKA:** Temperatures near normal west, to 3 to 6° below normal elsewhere. Precipitation was scattered across the State varying from a trace southwest to 1.13 in. northeast.

Days suitable for fieldwork 5.2. Topsoil moisture 26% short, 70% adequate, 4% surplus. Subsoil moisture 18% short, 79% adequate, 3% surplus. Corn 1% poor, 6% fair, 66% good, 27% excellent; 83% dough, 27% 1993, 47% avg.; 17% dented, 1% 1993, 9% avg. Soybean 1% poor, 6% fair, 64% good, 29% excellent; 96% setting pods, 51% 1993, 63% avg.; 2% leaves turning color, 0% 1993, 0% avg. Sorghum 10% fair, 69% good, 21% excellent; 97% headed, 45% 1993, 65% avg.; 9% coloring, 0% 1993, 6% avg. Dry bean 22% fair, 70% good, 8% excellent; 94% setting pods, 50% 1993; 8% leaves turning color. Pasture, range feed 89% of normal.

**NEVADA:** Moist, unstable air from Arizona, northern New Mexico moved into southern areas early in the week. Changing air pattern brought numerous thunderstorms to southern, central, eastern regions. Flash floods occurred in Las Vegas on 8th, 9th. Most weather reporting stations, however, reported very little or no precipitation, as rainfall was very spotty. No rainfall recorded in the drought-stricken northwest. Temperatures 1 to 6° above normal all climatic regions. Extremes 37°; 119°.

Small grain harvest continued north. Second, third cutting alfalfa continued north, central areas. Garlic harvest gaining momentum. Range, pasture feed poor in most areas. Main farm, ranch activities; haying, grain harvest, fencing, ditch cleaning, livestock care.

**NEW ENGLAND:** Precipitation none to 1.38 in. regionwide. Temperatures 62 to 69° north; 63 to 72° south. Temperatures 1° below normal regionwide. Maximum temperatures 80 to 89° north; 76 to 92° south. Minimum temperatures 38 to 53° north; 44 to 58° south.

Days suitable for fieldwork 6.0. Soil moisture 10% very short, 15% short, 70% adequate, 5% surplus. Available grazing 5% very short, 10% short, 80% adequate, 5% surplus. Fieldwork 1 day behind schedule. Maine potatoes 5% harvested, Rhode Island potatoes 10% harvested, Connecticut River Valley potatoes 20% harvested. Potato condition good where late blight is not a problem. Maine oats condition good/fair. Field corn condition good. Shade tobacco condition good, 50% harvested, 60% 1993. Outdoor tobacco condition good, 50% harvested, 35% 1993. Second crop hay 70% harvested, 50% 1993, 55% avg.; condition good/fair. Third crop hay 15% harvested, 10% 1993, 10% avg.; condition good. Sweet corn 50% harvested, 40% 1993, 40% avg.; condition good. Apples < 5% harvested; apple size medium, condition good, color good. Peaches size medium, 25% harvested, condition fair. Pears < 5% harvested; size medium, condition good/fair. Raspberries size medium, 70% harvested, condition good. Highbush blueberries size medium, 75% harvested, condition good, size medium/large. Wild blueberries size medium, 45% harvested, condition good. Cranberries size medium/large, condition good/excellent. Major farm activities: Harvesting vegetables, applying insect, weed control, preparing equipment for harvest.

**NEW JERSEY:** Temperatures slightly below normal. Extremes 47°; 97°. Rainfall 0.90 in. north, 1.41 in. central, 2.43 in. south. Heaviest 24-hour total 2.00 in. on 14th, 15th. Estimated soil moisture, in percent field capacity, averaged 69% north, 80% central, 78% south. Four-inch soil temperatures 68° north, 69° central, 71° south.

Days suitable for fieldwork 6. Topsoil moisture remains at an adequate to surplus level. Spraying for insects occurring. Good supply of green, yellow squash, cucumbers, tomatoes, eggplants, peppers. Moderate supply of green beans, cabbage, cantaloupe, watermelon, turnips. Light volume of herbs beets, okra, green onions. Fall vegetables are being planted, including cabbage, escarole, endive, lettuce. Active harvest of peaches; Redhaven, Loring. Second hay cutting occurring in limited areas.

**NEW MEXICO:** Temperatures above normal once again for most of State, with average between 2 to 3° above the normal. Quite a few locations below 5000 feet once again had some 100° maximums. Much of the plains, southern desert had a dry week, scattered thunderstorms produced rainfall elsewhere. Higher totals included 1.37 in. at Albuquerque, 1.31 in. at Gallup.

Days suitable for fieldwork 6.6. Soil moisture 81% short, 19% adequate. Cropland conditions: Alfalfa 21% fair, 72% good, 7% excellent. Chile 7% poor, 13% fair, 80% good. Corn 5% poor, 10% fair, 75% good, 10% excellent. Irrigated sorghum was reported as 20% fair, 80% good. Dryland sorghum 57% poor, 43% fair. Pecans 44% fair, 56% good. Cattle, sheep conditions varied across the State from poor to excellent. Range feed 64% of normal.

**NEW YORK:** Weather generally cool. Highs in 70s to lower 80s. Lows in mid 40s to mid 50s. Weekend, lows in 60s as warm, humid air returned. Highs also topped 90° in New York City, Long Island. Rainfall variable. Amounts in excess of 1.00 in. occurred from Adirondacks, Catskills, Western Mohawk Valley to Great Lakes area. Rains much lighter from St. Lawrence, Champlain, Hudson Valleys to Long Island. Amounts were under 0.50 in.

Days suitable for fieldwork 5.8. Soil moisture short to mostly adequate upstate; very short on Long Island. Pasture feed 94% of normal. Corn good to excellent. Some storm damage on corn crop, overall crop looks good. Hay mostly good. Alfalfa second cuttings 79% finished, 80% 1993, 72% avg. Alfalfa third cuttings 49% done, 11% 1993, 11% avg. Wheat 97% harvested, 99% 1993, 93% avg.; good yields so far. Oats 54% completed, 53% 1993, 48% avg.; fair to good yields reported statewide; late planted fields still maturing. Early potato harvest continued. Irrigation continued because of dryness. Dry bean crop needs rain for pod development. Tree fruit in good to excellent condition. Grapes continued to show good development. Orange County onion showed lower yields because of extreme heat, humidity of past weeks. Vegetable harvest continued in high gear.

**NORTH CAROLINA:** Mean temperatures at the seven reporting stations 73° at Asheville to 79° at Cape Hatteras. Rainfall: no rain at Wilmington to 2.01 in. at Cape Hatteras.

Days suitable for fieldwork 6.0. Soil moisture 13% short, 80% adequate, 7% surplus. Crop conditions: Pasture feed 19% fair, 72% good, 9% excellent; tobacco 4% fair, 78% good, 18% excellent; corn 1% very poor, 9% poor, 29% fair, 55% good, 6% excellent; cotton 7% fair, 79% good, 14% excellent; peanuts 10% fair, 84% good, 6% excellent; soybeans 8% fair, 88% good, 4% excellent; hay 3% poor, 16% fair, 77% good, 4% excellent; sweet potatoes 4% fair, 86% good, 10% excellent; apples 3% fair, 96% good, 1% excellent; peaches 4% poor, 4% fair, 89% good, 3% excellent; sorghum 14% fair, 73% good, 13% excellent; truck crops 32% fair, 63% good, 5% excellent; hay, roughage supplies 13% short, 75% adequate, 12% surplus; corn for silage harvested 26%, 27% 1993, 25% avg.; peaches harvested 91%, 85% 1993, 89% avg.; flue-cured tobacco harvested 28%, 31% 1993, 39% avg.; cotton bloomed 89%, 90% 1993, 87% avg.; corn soft dough 88%, 87% 1993, 86% avg.; dent 77%, 65% 1993, 66% avg.; mature 38%, 37% 1993, 39% avg.; soybeans bloomed 65%, 60% 1993, 59% avg.; pods set 40%, 32% 1993, 33% avg. Second cutting of hay 67% complete with the third cutting 30% complete. Activities included: Topping tobacco; harvesting tobacco, peaches, truck crops, applying pesticides, herbicides, fungicides. Also: Harvesting hay; marketing tobacco; tending livestock; equipment repair, general maintenance.

**NORTH DAKOTA:** High pressure early in the week brought drizzle, cool temperatures. Precipitation 0.09 in. southwest to 1.42 in. east central. Temperatures 6° below normal east central, southeast to 3° below normal southwest. Extremes 35° northwest, northeast; 94° south central.

Days suitable for fieldwork 6.0. Topsoil 10% very short, 36% short, 49% adequate, 5% surplus. Subsoil 7% very short, 24% short, 64% adequate, 5% surplus. Small grain harvest made good progress. Hard red spring wheat 17% combined, 1% 1993, 36% avg.; durum wheat 5% combined, 0% 1993, 21% avg.; barley 33% combined, 8% 1993, 54% avg.; oats 28% combined, 3% 1993, 43% avg. Condition of crop, hard red spring wheat 1% very poor, 6% poor, 26% fair, 59% good, 8% excellent; durum wheat 2% very poor, 5% poor, 21% fair, 58% good, 14% excellent; barley 2% very poor, 5% poor, 21% fair, 60% good, 12% excellent; oats 1% very poor, 3% poor, 25% fair, 63% good, 8% excellent. Late season crop development was ahead of last year, at or ahead of average. flaxseed 38% turning to ripe and beyond, 12% 1993, 54% avg.; corn for grain 72% milk to dough and beyond, 3% 1993, 52% avg.; dry edible beans 25% lower leaves yellowing and beyond, 2% 1993, 23% avg.; soybeans 13% lower leaves yellowing and beyond, 0% 1993, 9% avg.; sunflower 10% ray flowers dried or dropped and beyond, 1% 1993, 9% avg.; potatoes 100% rows filled and beyond, 92% 1993, 77% avg. Crop condition: corn for grain 1% poor, 9% fair, 66% good, 24% excellent; corn for silage 1% very poor, 4% poor, 19% fair, 67% good, 9% excellent; dry edible beans 1% very poor, 4% poor, 19% fair, 65% good, 11% excellent; soybeans 1% poor, 16% fair, 63% good, 20% excellent; sunflower 1% poor, 12% fair, 67% good, 20% excellent; sugarbeets 3% poor, 6% fair, 71% good, 20% excellent; potatoes 1% poor, 5% fair, 63% good, 31% excellent. Range, pasture feed 83% of normal; hay 84% of normal. Alfalfa hay second cutting 78% complete; other hay 89% complete. Stockwater supplies 1% very short, 3% short, 94% adequate, 2% surplus.

**OHIO:** Cold front pushed across State 9th with another cold front following over the weekend. Heavy rain fell mainly across northern area over the weekend. Temperatures 3 to 6° below normal in the northwest, generally 0 to 2° below normal elsewhere. High temperatures 75 to 85°, lows 55 to 65°. Canadian high pressure produced lows in the 40s to 50s on the morning of the 8th. Most of State received rain, amounts varied considerably. Rainfall 0.25 in. or less in some areas to over 4.00 in. portions of northeast section. Much of northern State reported at least 1.00 in. of rain. The lesser amounts were in the south.

Days suitable for fieldwork 5.9. Crop development is on schedule. Nearly three quarters of corn, soybean crops good to excellent. Soil moisture 20% short, 75% adequate, 5% surplus. Corn in dough stage 57%. Potato harvest 30% complete. Hay 3% poor, 21% fair, 62% good, 14% very good. Alfalfa hay third cutting 35% complete. Other hay second cutting 80% complete. Pasture feed 1% very poor, 5% poor, 27% fair, 56% good, 11% excellent.

**OKLAHOMA:** Temperatures normal southwest to 4° below normal southeast. Precipitation none northeast, central to 0.54 in. southwest.

Days suitable for fieldwork 6.3. Topsoil moisture 55% short, 43% adequate, 2% surplus. Subsoil moisture 31% short, 69% adequate. Corn 3% poor, 15% fair, 82% good; 94% milk-to-soft, 88% 1993, 90% avg.; 23% mature, 13% 1993, 16% avg.; 3% harvested, none 1993, none avg. Soybeans 80% flowering, 57% 1993, 57% avg.; 62% setting pods, 25% 1993, 29% avg.; 20% maturing, 2% 1993, 1% avg. Peanuts 11% fair, 89% good; 98% pegging, 93% 1993, 92% avg.; 81% setting pods, 75% 1993, 60% avg. Cotton 60% fair, 40% good; 91% setting bolls, 95% 1993, 73% avg.; 2% open bolls, 3% 1993, 1% avg. Pasture feed 90% normal. Feeder steers \$1 lower per cwt. to \$1 higher per cwt.; feeder heifers steady.

**OREGON:** Temperatures mostly 1 to 3° above normal. Temperatures cool early in week. Daytime highs by weekend reached the 80s to 90s statewide, exceptions coast 60s to low 70s. Precipitation under 0.10 in. coast, northwestern interior. Elsewhere dry.

Soil moisture 69% short, 31% adequate. Winter wheat 92% harvested. Barley 64% harvested. Eastern region grain, hay harvests continued. Grass seed, mint, garlic harvest underway, central areas. Malheur Co. sugarbeet growers reported powdery mildew problems. Summer fallow operations continued, Columbia Basin of Oregon. Western areas: Grass seed, grain harvest winding down; sugarbeet seed harvests underway, haying continued. Malheur Co. potato harvest full swing, early onion harvest underway. Willamette Valley: green bean, sweet corn, broccoli harvest continued, Evergreen blackberry harvest continued, some pruning, training, clean up of caneberry fields underway, peach, Gravenstein apple harvests continued. Hood River Valley, Medford district Bartlett pear harvest underway. Cranberries showed surface color, irrigation, fertilization continued; southern coast. Livestock good to excellent. Range, pasture 68% of normal. Supplemental feeding continued Willamette Valley, some grass seed straw moved in as late fall/early winter feed. Range continued to be extremely dry; forest, range fires destroyed considerable range acreage. Stockwater hauled to much of eastern area livestock. Central area cattle producers reported light calf weights.

**PENNSYLVANIA:** Unseasonably cool early in the week. Hot, humid weekend. Heavy rainfall extreme western part of State on 13th, 14th. Temperature 74°, 3° above normal. Extremes 40°; 92°. Precipitation 1.00 in., 0.15 in. above normal.

Days suitable for fieldwork 6. Soil moisture 15% short, 85% adequate. Corn 3% poor, 13% fair, 51% good, 33% excellent. Soybean 2% poor, 14% fair, 51% good, 33% excellent. Wheat harvest 97% complete, 98% 1993. Oat harvest 66% complete, 72% 1993. Barley harvest 98% complete, 99% 1993. Tobacco harvest 5% complete, 4% 1993. Potato harvest 11% complete, 7% 1993. Second cutting alfalfa 87% complete, 89% 1993. Third cutting alfalfa 40% complete, 37% 1993. Fourth cutting alfalfa 3% complete, 2% 1993. Second cutting clover-timothy 62% complete, 67% 1993. Quality of hay made 3% poor, 45% fair, 52% good. Feed from pastures good to excellent. Apple harvest 13% complete, 7% 1993. Fall plowing 8% complete, 6% 1993. Activities: Making hay; harvesting small grains; baling straw; harvesting fruit, vegetables; repairing equipment; fixing fences; hauling manure, caring for livestock.

**PUERTO RICO:** Rainfall of 1.04 in. was 0.42 in. below normal. Highest total rainfall 3.15 in. at Morovis, 3.02 in. at Corozal Aes, 3.02 in. at Mayaguez City. Island temperatures 80 to 81° on the coasts, 74 to 75° interior with mean station temperature 84.6° at Rio Piedras Aes to 64.6° Cerro Maravilla. Extremes 58°; 94°.

**SOUTH CAROLINA:** Rainfall 0.60 in.; temperatures near normal to 2° below normal.

Days suitable for fieldwork 5.9. Soil moisture 2% very short, 39% short, 59% adequate. Tobacco fair to good; 69% harvested, 38% 1993, 57% avg.; 12% stalks destroyed, 0% 1993, 5% avg. Corn fair to good; 80% mature, 70% 1993, 76% avg.; 14% harvested, 16% 1993, 18% avg. Cotton 23% fair, 77% good; 100% squaring, 100% 1993, 100% avg.; 97% setting bolls, 98% 1993, 95% avg.; 1% open bolls, 3% 1993, 5% avg. Soybeans 25% fair, 75% good; 66% blooming, 65% 1993, 65% avg.; 30% setting pods, 31% 1993, 30% avg. Cantaloupes fair to good; 90% harvested, 84% 1993, 85% avg. Watermelons fair to good; 88% harvested, 89% 1993, 90% avg. Cucumbers fair to good; 94% harvested, 97% 1993, 93% avg. Peaches fair to good; 89% harvested, 81% 1993, 85% avg. Sorghum

fair to good; 12% harvested, 20% 1993, 15% avg. Snap beans fair to good; 94% harvested, 98% 1993, NA avg. Fall hay fair to good; 28% harvested, 37% 1993, 38% avg. Pasture feed 33% fair, 67% good.

**SOUTH DAKOTA:** Temperatures 5 to 10° below normal. Extremes 37°; 97°. Precipitation 0.50 to 3.00 in. central, east; less than 0.10 in. northwest. Heaviest, 4.13 in. northeast.

Days suitable for fieldwork 5.3. Topsoil 12% very short, 31% short, 44% adequate, 13% surplus. Subsoil 11% very short, 28% short, 49% adequate, 12% surplus. Barley 85% harvested, 57% 1993, 79% avg. Oats 94% harvested, 64% 1993, 83% avg. Flax 35% fair, 61% good, 4% excellent; 26% ripe, 15% 1993, 47% avg. Row crop progress well ahead of average. Sunflower 5% fair, 59% good, 36% excellent; 97% blooming, 63% 1993, 70% avg. Alfalfa 2nd cutting 69% harvested, 59% 1993, 62% avg. Other hay 73% harvested, 60% 1993, 72% avg. Livestock 2% fair, 79% good, 19% excellent. Feed supply 14% short, 75% adequate, 11% surplus. Pastures 89% of normal. Water supply 3% short, 83% adequate, 14% surplus. Pink eye, foot rot reported across State.

**TENNESSEE:** Temperatures returned to near or above normal across western, middle areas. Plateau was 3° below normal. Precipitation generally below normal statewide.

Days suitable for fieldwork 5.5. Soil moisture 1% very short, 8% short, 87% adequate, 4% surplus. Corn 85% dough, 82% 1993, 76% avg.; 46% dent, 34% 1993, 40% avg.; 3% mature, 4% 1993, 5% avg.; 7% fair, 59% good, 34% excellent. Cotton 0% open bolls, 0% 1993, 2% avg.; 1% fair, 97% good, 2% excellent. Tobacco 77% topped, 61% 1993, 67% avg.; 13% fair, 81% good, 6% excellent. Burley 10% harvested, 7% 1993, 12% avg. Dark fire-cured 10% harvested, 8% 1993, 11% avg. Dark air-cured 10% harvested, 8% 1993, 10% avg. Sorghum 88% headed, 95% 1993, 87% avg.; 34% turning color, 20% 1993, 25% avg.; 4% fair, 92% good, 4% excellent. Soybeans 78% blooming, 78% 1993, 70% avg.; 42% setting pods, 42% 1993, 35% avg.; 10% fair, 80% good, 10% excellent. Other hay, 1% poor, 14% fair, 81% good, 4% excellent. Alfalfa, 1% poor, 9% fair, 82% good, 8% excellent. Pastures feed 8% fair, 79% good, 13% excellent. Cattle, 5% fair, 86% good, 9% excellent.

**TEXAS:** An upper air disturbance triggered thunderstorms over the eastern, southern sections the early to middle part of the week. Austin was deluged with over 5.00 in. of rain in 1 day. A cold front brought thunderstorms to West Texas late in the weekend. Rainfall amounts were generally below normal except for the South Central, East Central, Southern districts. Temperatures ran near to below normal.

**Crops:** Corn irrigation, insecticide applications continued in the Plains. Harvest activities continued to wind down throughout Central, Southern Texas, however most activities were delayed by rain showers. Corn 83% normal, 74% 1993; 99% silked, 100% 1993; 52% mature, 48% 1993; 41% harvested, 32% 1993. Cotton in the Plains, dryland fields continued cutting out, while a few irrigated fields began cutting out due to lack of moisture. Most producers continued to irrigate heavily in areas where water was available. Hoeing, spot spraying and cultivation activities continued. Defoliation remained active across the Blacklands, Central Texas. Harvest activities were slowed in the Valley, throughout the Coastal Bend, Central Texas. Cotton 71% normal, 79% 1993; 100% squaring, 99% 1993; 7% harvested, 5% 1993. Peanuts continued to make good progress. In the Cross Timbers, most dryland fields remained stressed, were in need of rain, while irrigated fields made excellent progress. Irrigation, weed control was active. Peanuts 80% normal, 76% 1993. Rice harvest activities were dealt minor delays again by rain showers along the Upper Coast, South Central Texas. Rice 96% normal, 82% 1993. Sorghum harvest continued to wind down throughout the southern part, remained active in Central Texas and the Blacklands. In the Blacklands, lodging due to high winds caused problems. In the Plains, greenbugs were reported in some areas and most fields showed signs of stress from heat and shortage of moisture. Sorghum 72% normal, 84% 1993; 62% mature, 57% 1993; 54% harvested, 46% 1993. Soybeans: Harvest continued along the Upper Coast and was active in the Blacklands as most fields were maturing rapidly. 6% harvested, 2% 1993. Small Grains land preparations for fall small grain planting continued. Weed control, fertilizer applications kept producers busy across the Plains.

**Commercial Vegetables:** Rio Grande Valley fall cabbage, peppers, watermelon made good progress. Irrigation, insect scouting activities remained constant in citrus. San Antonio-Winter Garden: fall

vegetable planting preparation activities continued. Trans-Pecos watermelon harvest was virtually completed and cantaloupe harvest was winding down. Watermelon shipping activities were still in full swing. Chilies continued to make good progress. East Texas harvest of tomatoes, peppers, squash, okra, watermelons, cantaloupe, and sweet potatoes continued. Planting of fall vegetables began. High Plains potato, cabbage, onion, and watermelon harvest continued. Carrot harvest was slowed, should begin again in a few weeks. Pumpkins began setting fruit. Peach harvest was nearly completed. Some late varieties were still being harvested in the Cross Timbers. Irrigation continued on trees in the Rio Grande Valley. Pecans spraying for shuckworm, webworm were active in the Cross Timbers. Most trees continued to drop nuts due to extended dry conditions. Irrigation was active in areas where available.

**Range and Livestock:** Range, pasture feed conditions began to recover in East Texas, portions of Central, South Texas. However, conditions in the Plains continued to decline. Hay baling remained active in East Texas and in the Edwards Plateau. Supplemental feeding increased in areas where forage was short. Livestock remained in fair to good condition.

**UTAH:** Temperature 3° above normal; minimums 6° above normal. Precipitation moderate to heavy across the State; Dixie division received the least with 0.10 in.

Days suitable for fieldwork 6.2. Soil moisture 91% short, 9% adequate. Irrigation water supply 28% very short, 70% short, 2% adequate. Stockwater supply 9% very short, 91% short. Spring wheat harvested 92%, 26% 1993, 65% avg. Barley ripe 96%, 70% 1993; harvested 90%, 36% 1993, 67% avg. Oats ripe 73%, 55% 1993; harvested hay/silage 91% completed, 87% 1993, 80% avg.; harvested for grain 65%, 20% 1993, 38% avg. Corn tasseling 96%, 82% 1993. Alfalfa hay 2nd cutting 92% completed, 84% 1993; 3rd cutting 27%, 9% 1993. Other hay cutting 91% completed, 91% 1993, 89% avg. Peaches harvested 35%, 27% 1993. Pasture, range feed poor to fair. Major farm activities were irrigating, harvesting hay, small grains, peaches, vegetables. Some ranchers are removing cattle from summer pastures due to dry conditions, fire damaged ranges.

**VIRGINIA:** Temperatures 3 to 5° below normal. Extremes 46°; 94°. Rainfall averaged below normal.

Days suitable for fieldwork 5.8. Topsoil moisture 3% short, 97% adequate. Corn 4% very poor, 12% poor, 33% fair, 43% good, 8% excellent; silage harvested 4%, 10% 1993, 8% avg. Corn silked 93%, 91% 1993, 92% avg.; dough stage 61%, 59% 1993, 60% avg.; dented 35%, 39% 1993, 40% avg.; mature 8%, 18% 1993, 19% avg. Soybean 2% poor, 22% fair, 74% good, 2% excellent. Soybean in bloom 70%, 70% 1993, 70% avg.; setting pods 37%, 42% 1993, 46% avg. Peanut 50% fair, 50% good. Flue tobacco 14% fair, 74% good, 12% excellent. Flue tobacco harvested 19%, 22% 1993, 29% avg. Burley tobacco 20% fair, 80% good. Fire tobacco 8% fair, 74% good, 18% excellent. Fire tobacco harvested 17%, 15% 1993, 21% avg. Sun tobacco 67% fair, 33% good. Sun tobacco harvested 7%, 10% 1993, 15% avg. Cotton 100% good. Apple 12% fair, 88% good. Summer apple harvest 48%, 55% 1993, NA avg. Peaches harvested 60%, 63% 1993, 75% avg. Potato harvested 100%, 100% 1993, 100% avg. Pasture feed 21% fair, 62% good, 17% excellent. Alfalfa hay 13% fair, 65% good, 22% excellent. Other hay 26% fair, 62% good, 12% excellent. Cutting alfalfa, other hay, topping, harvesting, marketing tobacco, spraying fruit trees, harvesting peaches, summer apples, scouting peanuts for sclerotinia, scouting soybeans for worms, treating some cotton for worms.

**WASHINGTON:** Temperatures 3° below normal to 3° above normal west; 6° below normal to 1° above normal east. Precipitation none to 0.70 in. west; none to 0.15 in. east. Weather continued dry in the east although somewhat cooler. In the west, rain showers, cooler weather in the south, with warmer and dryer weather in the north.

Days suitable for fieldwork 6.7. Soil moisture 72% short, 28% adequate. Hay, other roughage supplies 5% very short, 10% short, 83% adequate, 2% surplus. Range, pasture 24% very poor, 49% poor, 18% fair, 9% good. Spring wheat dryland 18% very poor, 45% poor, 29% fair, 8% good; irrigated 16% fair, 84% good. Barley dryland 20% very poor, 43% poor, 27% fair, 10% good; irrigated 1% poor, 6% fair, 93% good. Potatoes 10% fair, 90% good. Dry

edible beans 10% fair, 90% good. Corn 2% poor, 7% fair, 85% good, 6% excellent. Winter wheat 92% harvested, 48% 1993, 69% avg. Spring wheat 85% harvested, 19% 1993, 54% avg. Barley 85% harvested, 28% 1993, 55% avg. Potatoes 10% harvested, 14% 1993, 13% avg. Corn silage 10% harvested, 19% 1993, 8% avg. Dry peas 92% harvested, 7% 1993, 64% avg. Alfalfa, second cutting, 92% complete, 82% 1993, 92% avg.; third cutting, 53% completed, 17% 1993, 36% avg. Small grain harvest was winding down or completed in the early areas. Winter wheat yields were reported as average to slightly above average with the exception of the southeast which was below average. The lack of moisture in summer fallow ground was worrying producers as they start to plan fall plantings. Bartlett pears were being harvested throughout the central area of the State. Gala apple harvest also got underway in both the Yakima, Wenatchee Valleys. Ranges and pastures remained dry and stock water was short in many areas. Fires throughout the state were mostly under control with the exception of a few major complexes in the north-central, one of which was the 120,000 plus acre Tyee Creek Fire. Remaining blazes are mostly concentrated in the forests.

**WEST VIRGINIA:** Temperature 73°. Extremes 46°; 94°. Rainfall 0.52 in.

Days suitable for fieldwork 5.3. Soil moisture 90% adequate, 10% surplus. Wheat 3% fair, 97% good; harvested 100%, 100% 1993, 88% avg. Hay 8% fair, 71% good, 21% excellent; second cutting 42%, 51% 1993, 41% avg.; third cutting 25%, 39% 1993. Apples 50% poor, 50% fair. Corn 16% fair, 80% good, 4% excellent; silked 80%, 84% 1993, 80% avg.; dough stage, 41%, 43% 1993, 44% avg. Oats 32% fair, 68% good; ripe 95%, 100% 1993, 96% avg.; harvested 75%, 100% 1993, 73% avg. Tobacco 100% good; topped 45%, 61% 1993, 44% avg. Gardens 40% fair, 60% good. Soybeans 100% good; blooming 80%, 87% 1993; podding 65%. Pasture feed 16% fair, 75% good, 9% excellent; 98% of normal. Cattle mostly good. Sheep mostly good. Farm activities: Cutting hay, harvesting oats, wheat, gardening, equipment maintenance.

**WISCONSIN:** Temperature 61°, 6° below normal. Extremes 37°; 87°. Precipitation trace to 1.50 in.

Days suitable for fieldwork 3.6. Soil moisture 15% short, 69% adequate, 16% surplus. Pasture feed 82%, 88% 1993, 78% avg. General condition of crops: 5% fair, 77% good, 18% excellent. Corn silked 94%, 65% 1993, 81% avg.; dough or beyond 32%, 6% 1993, 22% avg.; dent or beyond 5%, 1% 1993, 5% avg.; 2% fair, 46% good, 52% excellent. Oats 1% very poor, 16% poor, 37% fair, 43% good, 3% excellent; harvested 64%, 25% 1993, 50% avg. Soybean 5% fair, 60% good, 35% excellent. Second cutting hay harvested 79%, 65% 1993, 78% avg. Third cutting hay harvested 10%, 3% 1993, 10% avg. Winter wheat harvested 88%, 49% 1993, 76% avg. Persistent showers, humidity continued last week for farmers attempting to harvest some first, second, third crop hay. Reporters mentioned high quality new seeding, regrowth until harvest time. Corn crop remained in mostly excellent condition, could now use some warmer weather to keep it maturing steadily. More weedy oats fields were harvested last week. A few reporters also indicated good yields of winter wheat. Soybeans continued to develop well with a few mold, rot problems due to excess moisture.

**WYOMING:** Temperatures above normal with below normal precipitation. Kaycee was the warm spot averaging 7° above normal. Closest to normal were Colony, Powell averaging 1° above normal. Precipitation was 0.10 to 0.30 in. below normal. The exception was the northwest with amounts greater than a tenth of an inch above normal. Alva, Moran received the largest amounts of precipitation at 1.11 in., 1.10 in., respectively.

Days suitable for fieldwork 6.6. Topsoil moisture 89% short, 11% adequate. Subsoil moisture 75% short, 25% adequate. Winter wheat 99% harvested, 58% 1993, 77% avg. Spring wheat 92% mature, 31% 1993, 71% avg.; 57% harvested, 12% 1993, 31% avg. Oats 68% mature, 23% 1993, 63% avg.; 32% harvested, 10% 1993, 25% avg. Barley 95% mature, 61% 1993, 83% avg.; 61% harvested, 24% 1993, 48% avg. Corn 96% silked, 38% 1993, 56% avg.; 76% in milk, 11% 1993, 29% avg.; 23% in dough, 0% 1993, 5% avg. Dry beans 98% setting pods, 75% 1993, 79% avg.; 37% leaves turning color, 0% 1993, 7% avg. Alfalfa 62% second cutting harvested, 29% 1993, 44% avg. Other hay 86% harvested, 77% 1993, 79% avg. Irrigation water supplies 54% short, 46% adequate. Range, pasture feed continues to be poor to fair.

# International Weather and Crop Summary

## HIGHLIGHTS

August 7 - 13, 1994

**FSU-WESTERN:** A late-week cold front brought showers and cooler weather to parched crop areas in the west and south.

**EUROPE:** Cooler, wetter weather benefited summer crops in central and northern Europe.

**SOUTH ASIA:** Showers benefited most grain, oilseed, and cotton areas.

**EASTERN ASIA:** Showers aided summer crops across most of China and South Korea, while rain is needed across Japan.

**SOUTHEAST ASIA:** Showers covered Thailand's corn areas, increasing moisture for secondary crops.

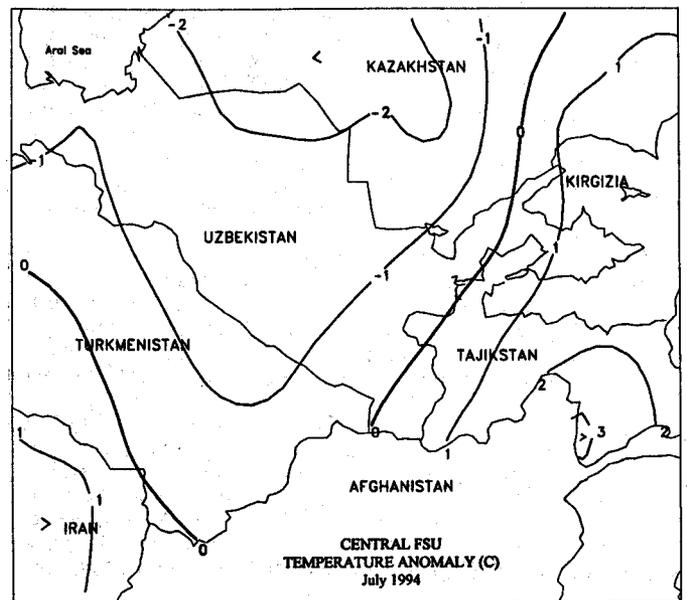
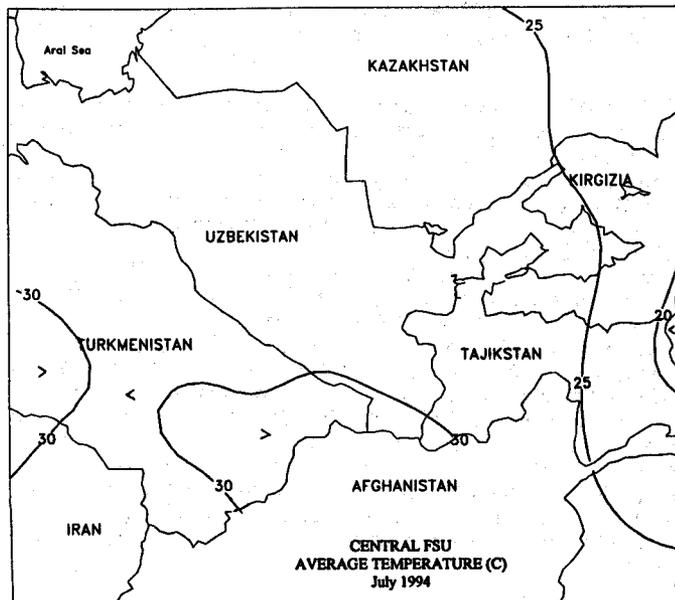
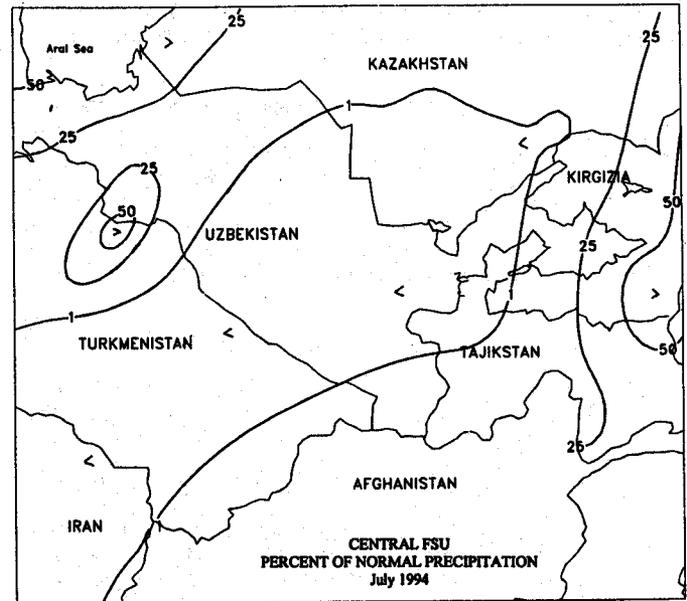
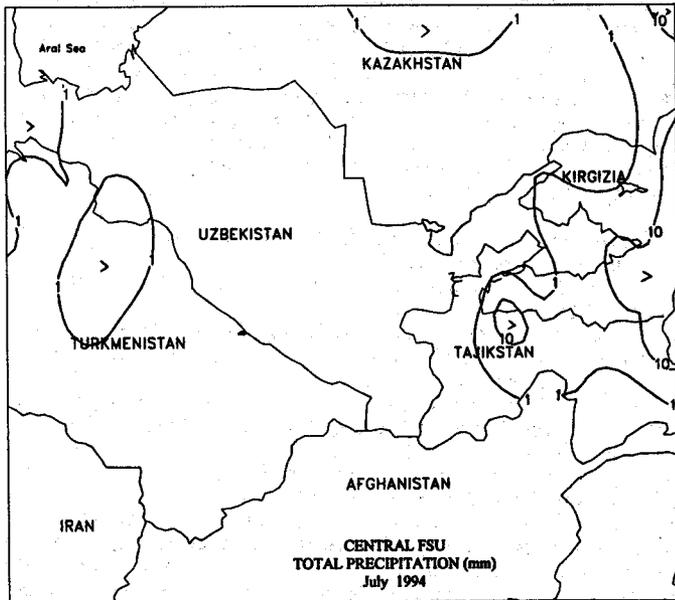
**AUSTRALIA:** Wet weather benefited wheat in the west while the drought continued in the east.

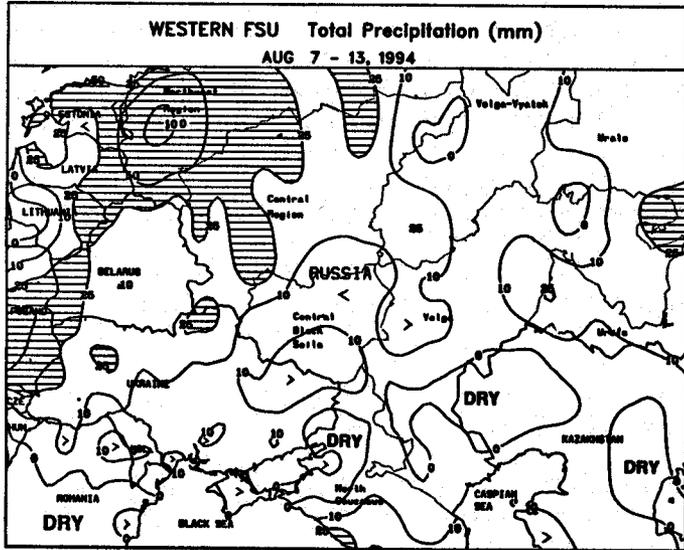
**SOUTH AMERICA:** Rain benefited winter wheat across the region.

**MEXICO:** Showers benefited summer crops across the main corn belt.

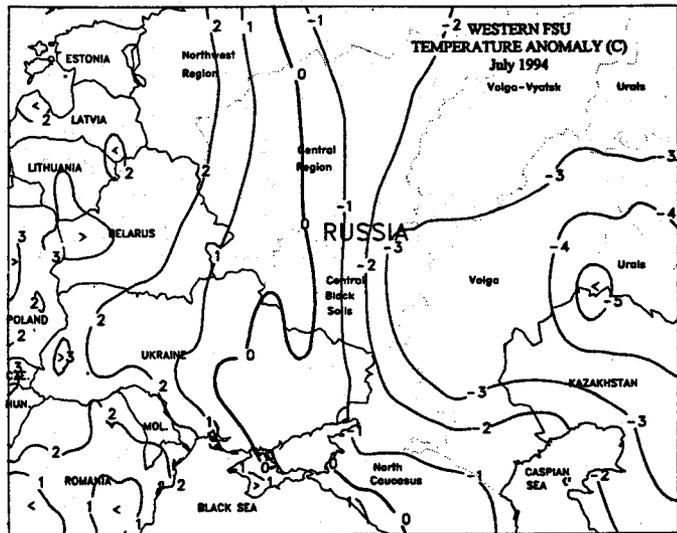
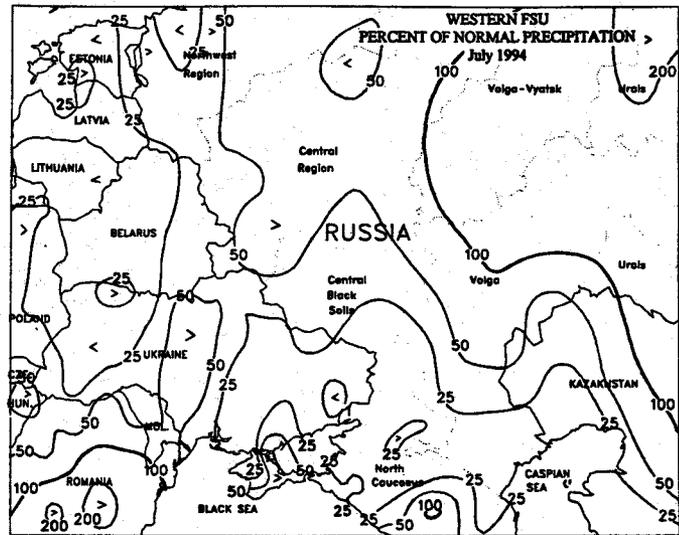
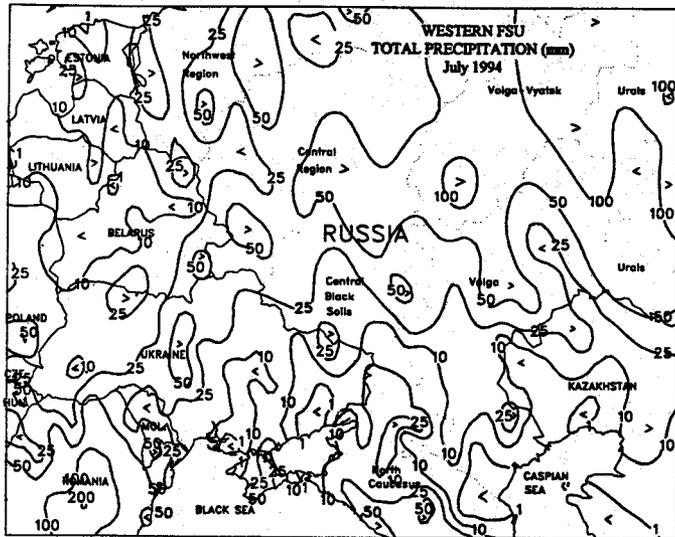
**CANADA:** Frost was limited to northeastern crop areas, likely having only minor impact.

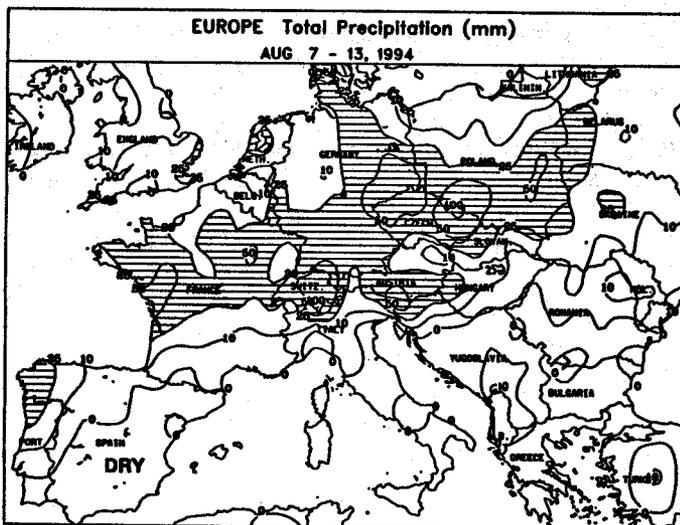
**FSU-NEW LANDS:** Light to moderate rain continued over spring grain areas in Kazakhstan and Russia.



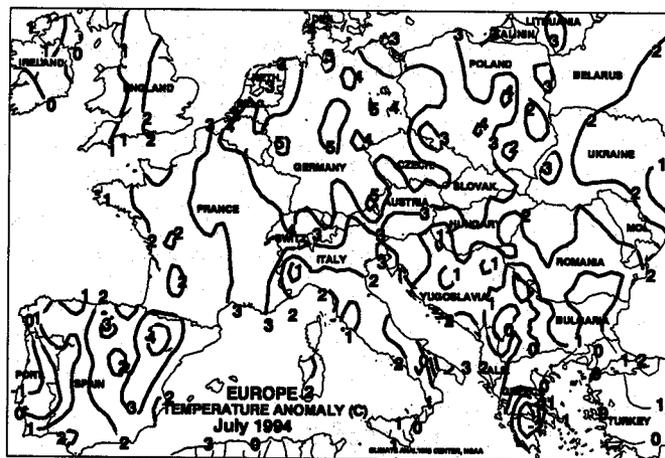
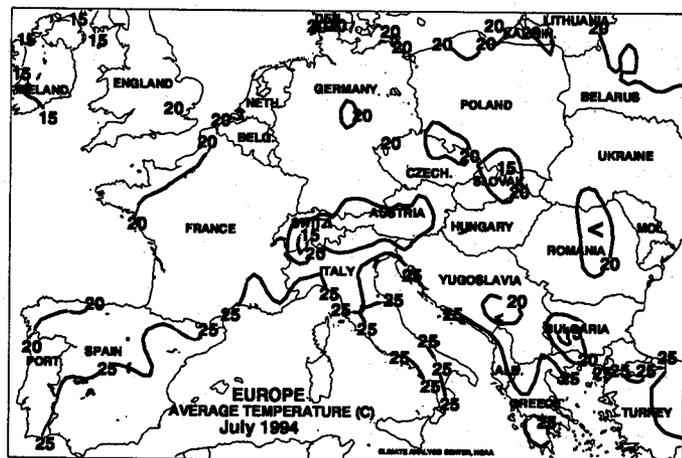
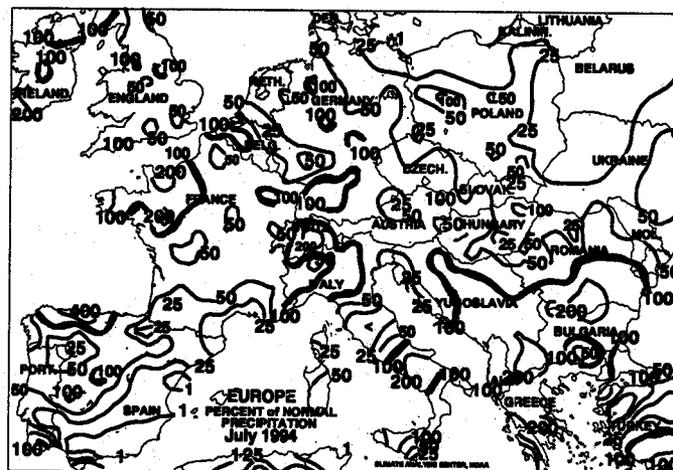
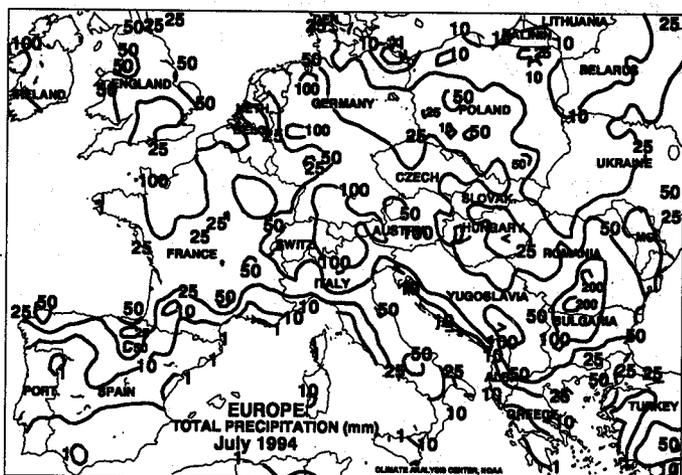


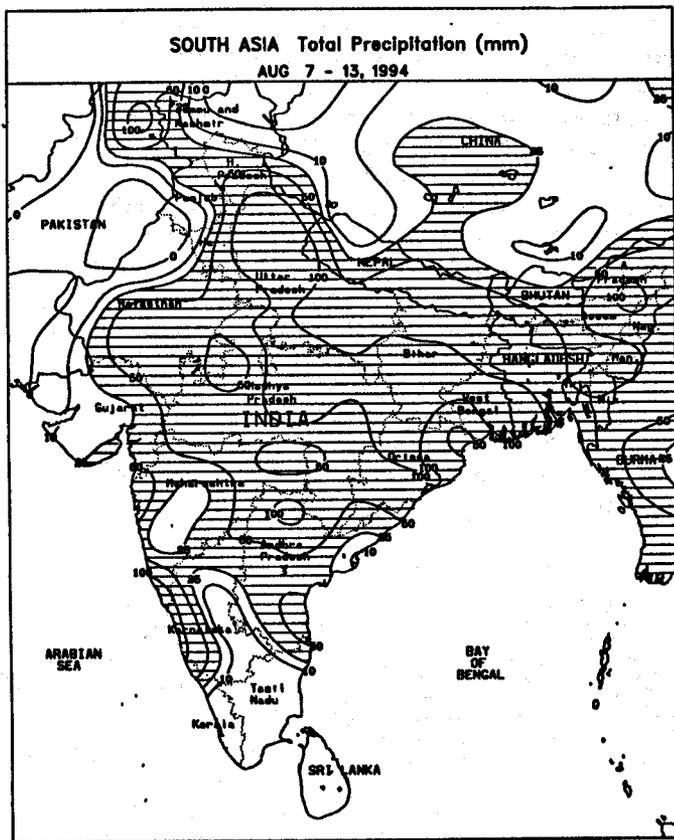
**FSU-WESTERN:** Early-week, hot, dry weather continued over the Baltic States, Belarus, Ukraine, and southern Russia (North Caucasus and lower Volga Valley), adversely affecting corn, sunflowers, and sugarbeets. Furthermore, a heat wave covered Ukraine and North Caucasus, where extreme maximum temperatures ranged from 33 to 37 degrees Celsius (C). By week's end, a weak cold front entered western areas, bringing cooler weather and light to moderate showers (10-25 mm, with local amounts in excess of 25 mm) over Ukraine, Belarus, the Baltic States, and northern areas in Russia. In July, well-below-normal precipitation over most of southern Russia, Ukraine, the Baltic States, and Moldova continued a drying trend that began in mid-June. Although the dryness created ideal conditions for maturation and harvest of winter grains, it adversely affected corn, spring barley, oats, sugarbeet, potato, and sunflower development. Furthermore, periodic heat in July (maximum temperatures ranging from 33 to 37 degrees C) over western Ukraine and the Baltic States increased stress on crops. Temperatures were below normal over eastern Ukraine and North Caucasus in Russia. Elsewhere, above-normal precipitation in July over northeastern Russia (eastern portion of Central Region and Volga Vyatsk) continued June's favorable moisture for spring grains in the filling stage. Unseasonably cool weather in these areas, however, slowed crop development.



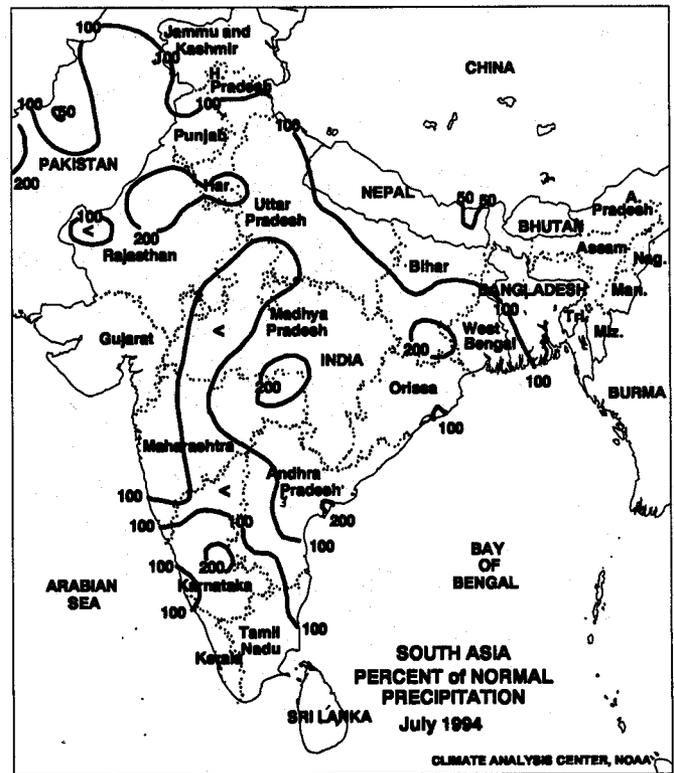
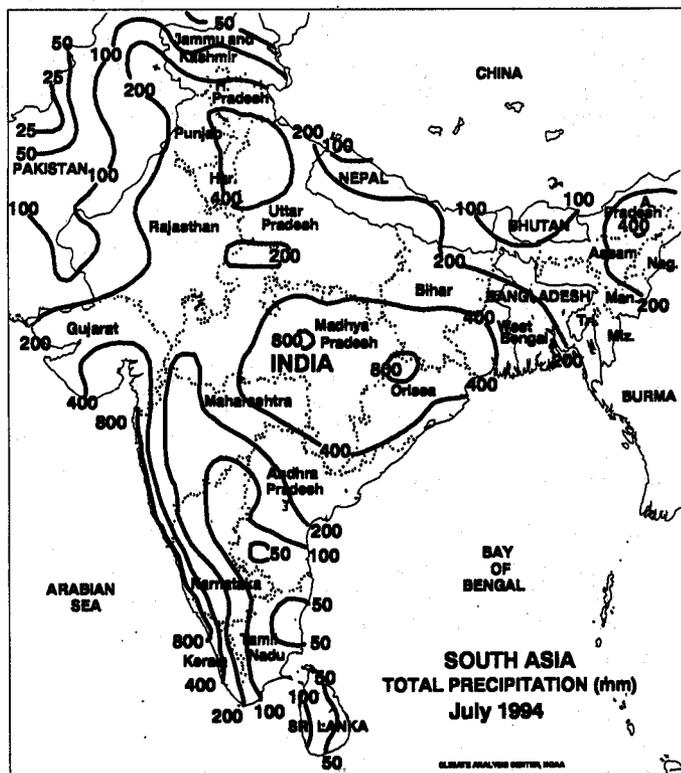


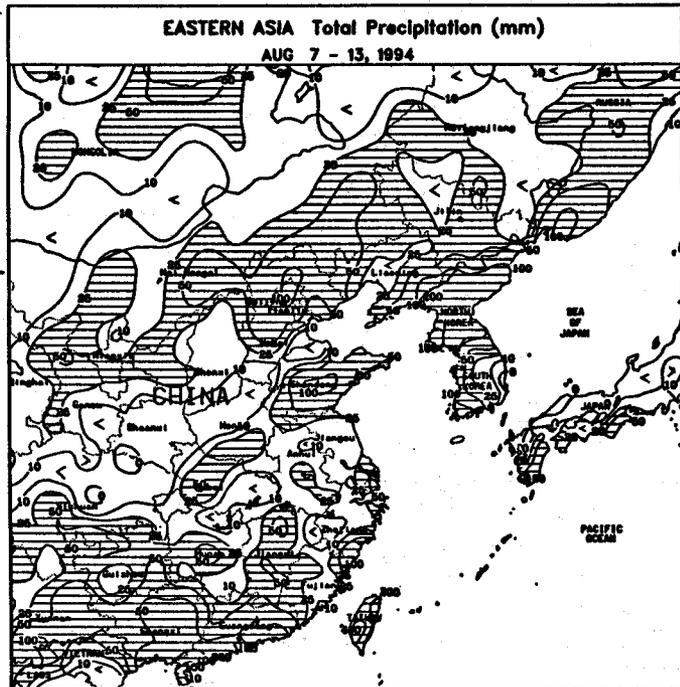
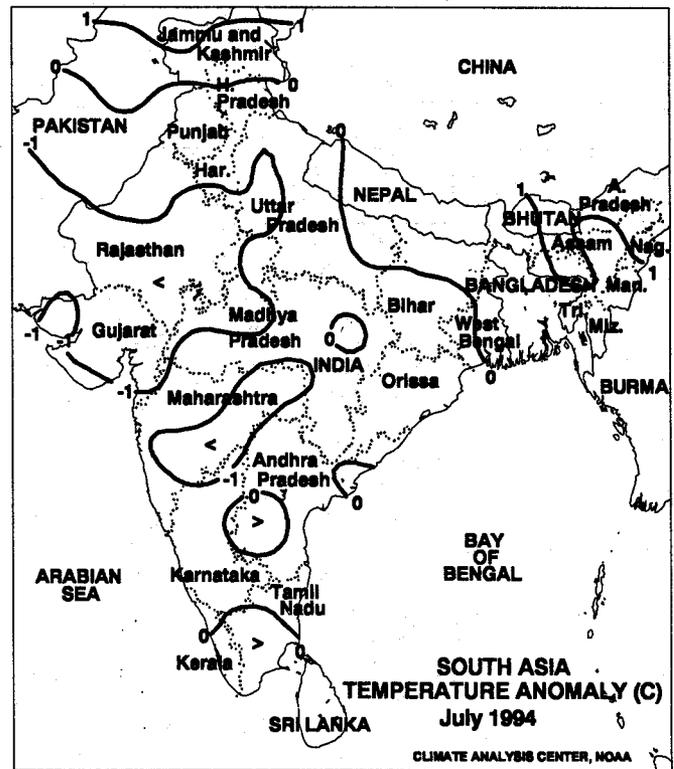
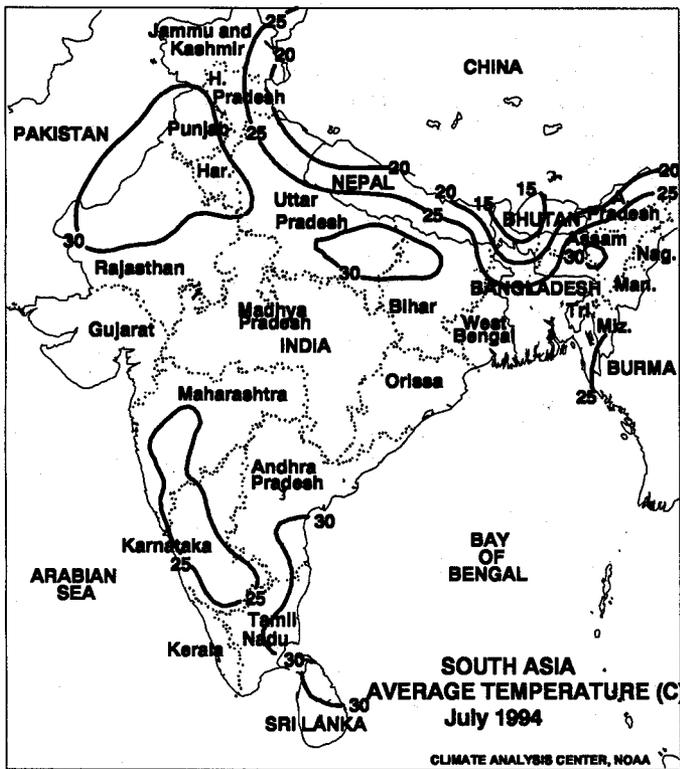
**EUROPE:** A significant change in the weather pattern brought cooler, wetter weather to central and northern Europe. Weekly rainfall ranged from 20 to 50 mm, with 50-75 mm amounts concentrated over the Czech Republic, southwestern Poland, and southeastern Germany, moistening topsoils after a prolonged hot, dry spell. These rains were especially beneficial for summer crops and helped late development of immature spring grains. While temperatures still ranged from 2 to 5 degrees C above normal, high temperatures over northern Europe averaged in the middle 20's C, providing more favorable growing conditions from northern France to Poland. Dry, warm weather prevailed in the southeast, including most corn areas of Hungary that were stressed by earlier hot, dry weather. Soil moisture is especially low in eastern Hungary. July rainfall generally averaged 50 percent of normal from Hungary to Poland, with monthly temperatures averaging 2-4 degrees C above normal. Above-normal July rainfall in the southeast aided crop development.



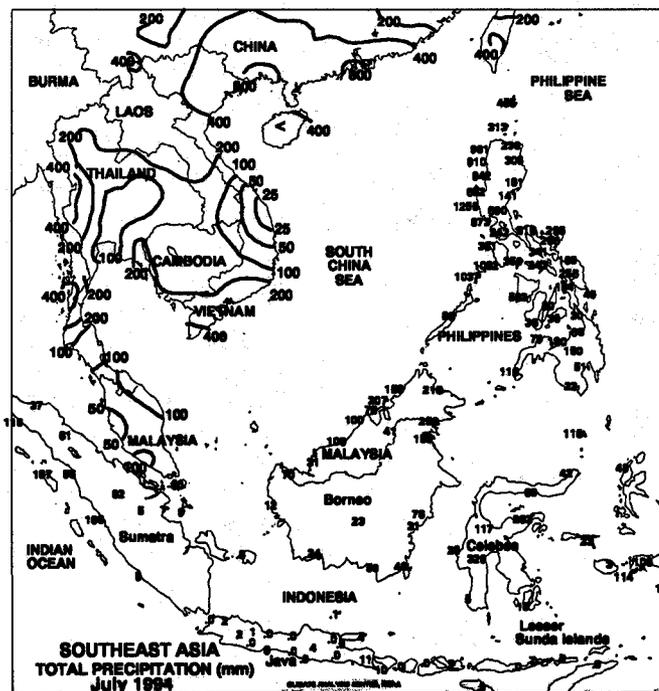
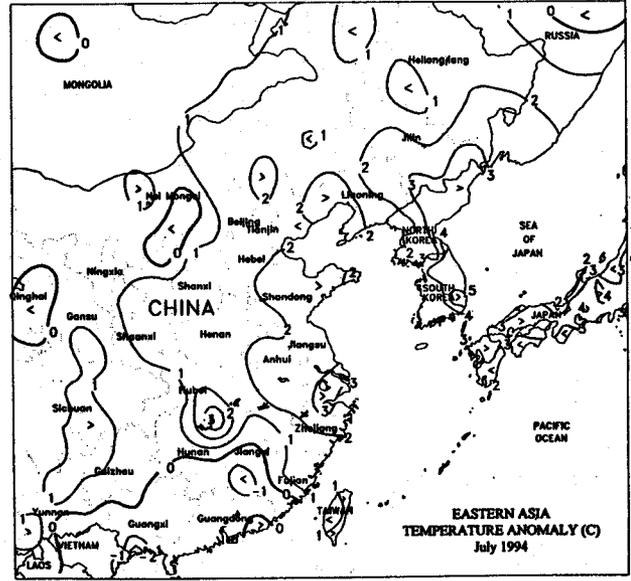
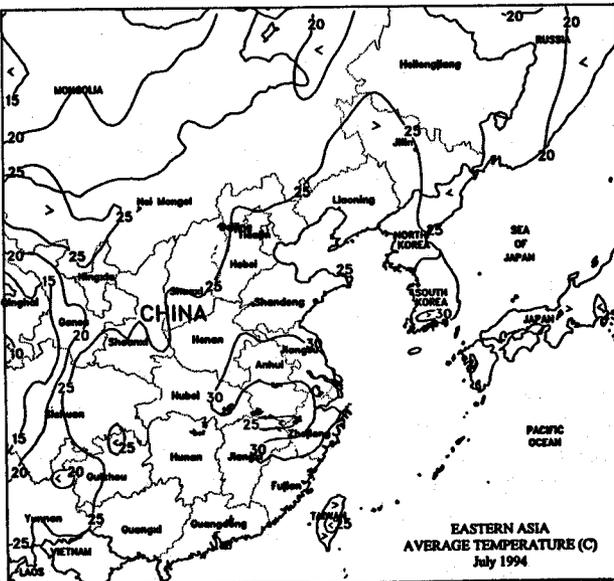
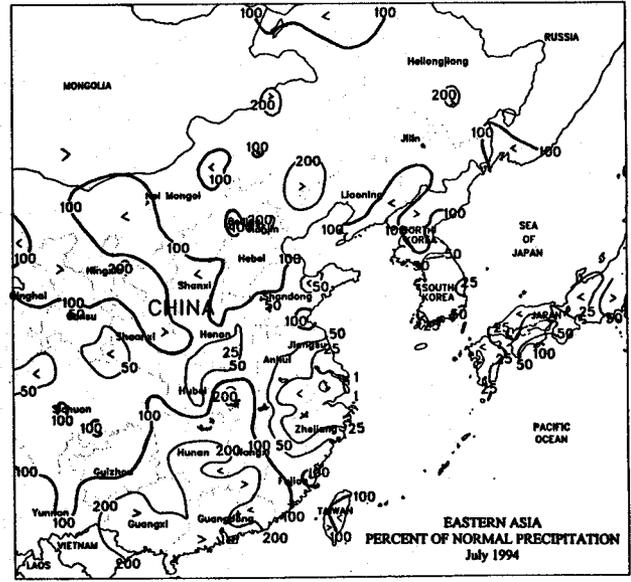
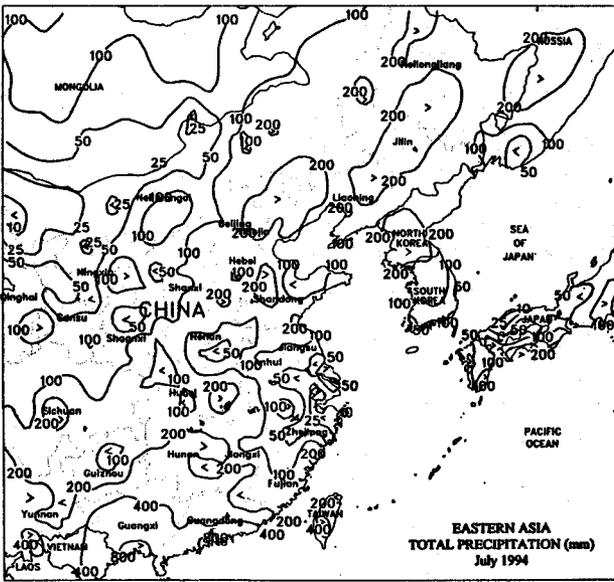


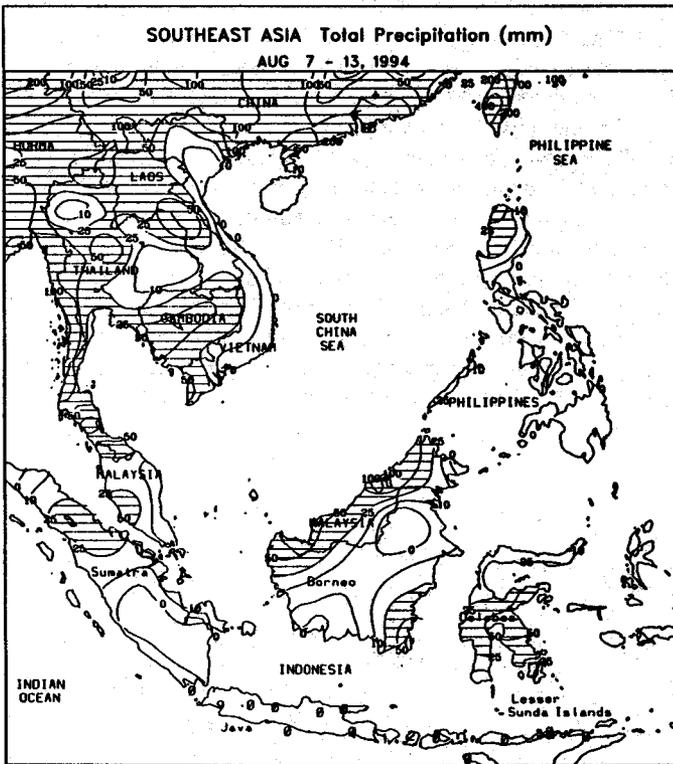
**SOUTH ASIA:** Heavy showers (50-100 mm or more) continued throughout central, northern, and eastern India, maintaining adequate to abundant moisture for summer crop growth. Rainfall was lighter than normal for the third week in westernmost groundnut areas (Gujarat) but further south, scattered showers (10-43 mm) brought some relief to cotton, grain, and oilseed areas that had been trending dry. A dry pocket continued, however, in western Maharashtra, a main coarse grain and sugarcane area. In July, frequent monsoon showers brought near- to above-normal rainfall to most major crop areas. Some flooding occurred, especially in eastern rainfed rice areas (Madhya Pradesh and Orissa) that were subject to periodic inundating rains (200 mm or more in a week). A developing drying trend in the southern interior reduced moisture for grains, oilseeds, and cotton in or nearing reproduction. July temperatures were generally near to slightly below normal.



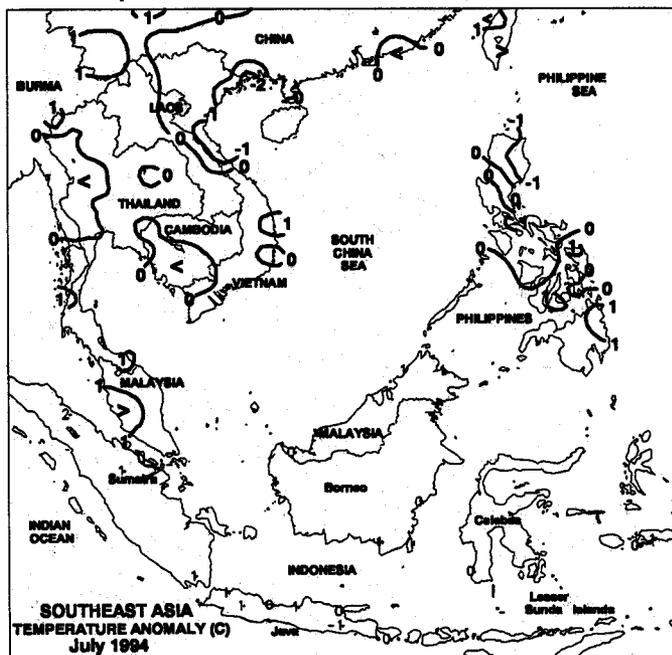
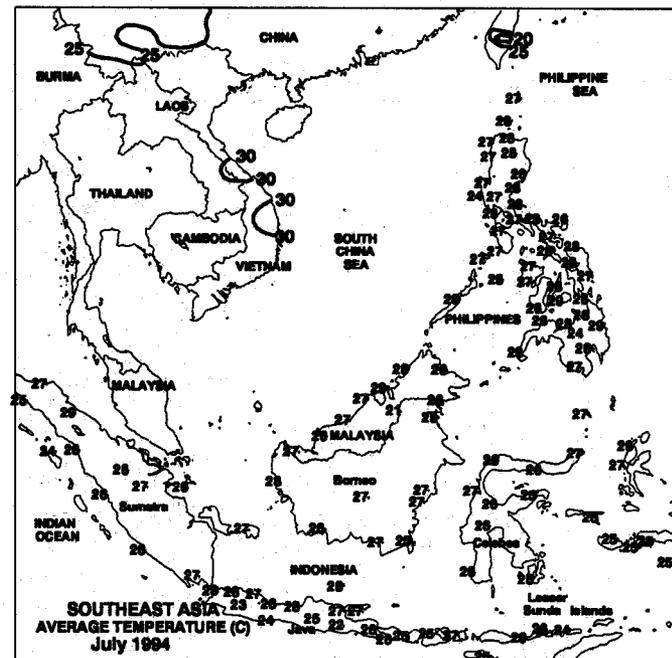
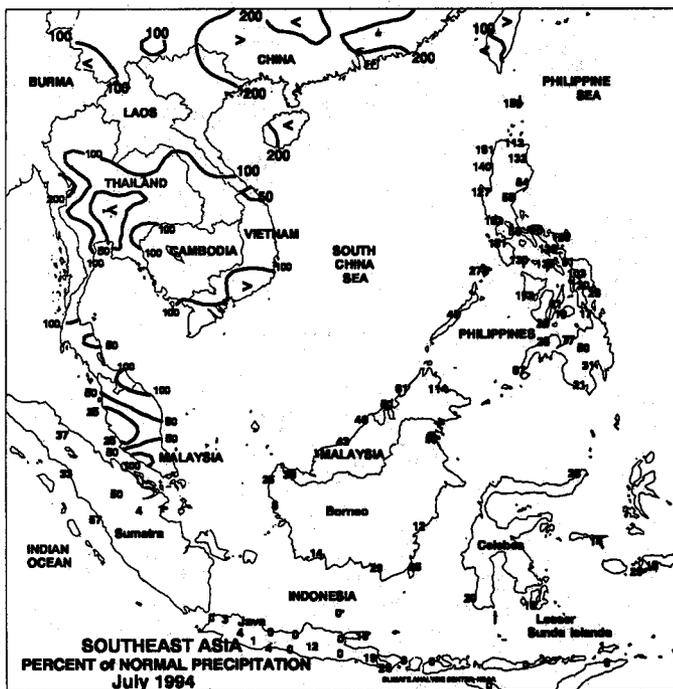


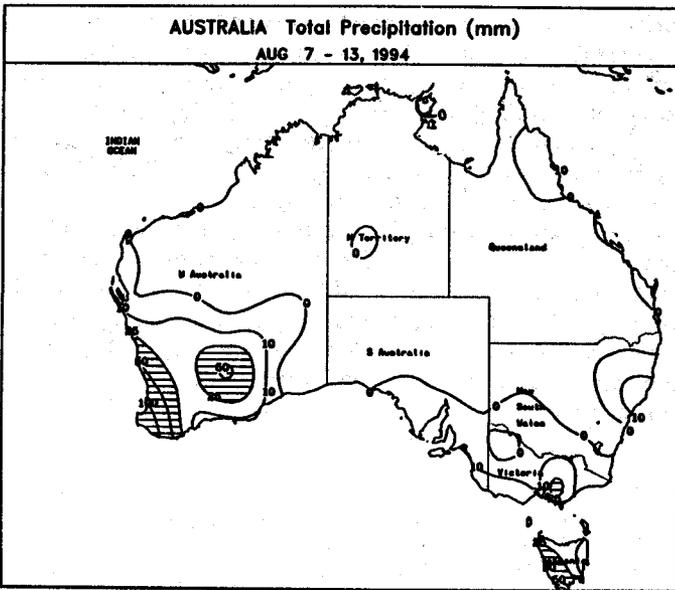
**EASTERN ASIA:** Light to moderate rain (10-50 mm, with isolated amounts greater than 100 mm) covered most of Manchuria and the eastern North China Plain (Hebei and Shandong), favoring reproductive to filling crops. Rainfall, however, remained light (less than 10 mm) from northern Henan westward into Shaanxi and Sichuan. Scattered showers (10-30 mm) eased dryness across lower Yangtze Valley, while maximum temperatures ranged from 35 to 37 degrees C (1-2 degrees C above normal). Although this region has been trending dry, irrigation supplies should still be adequate since tributaries of the Yangtze River have received excessive moisture. Moderate to heavy showers (50-150 mm, with isolated amounts greater than 200 mm) continued across southern China, exacerbating already wet conditions. Tropical Storm Doug brushed Taiwan on August 7, with sustained winds of 90-100 knots (104-115 mph), bringing excessive rain (150-400 mm, with isolated amounts greater than 500 mm) and flooding. The storm then moved into the Yellow Sea and dissipated. Doug brought widespread rain (20-100 mm) to most of South Korea, replenishing irrigation supplies. Southwest Japan received moderate to heavy showers (20-125 mm) and Hokkaido received 10-50 mm, while the rest of the country remained dry. Temperatures averaged 2-4 degrees C above normal across South Korea and 3-6 degrees C above normal across Japan. During July, much-above-normal rainfall caused flooding across southern and south-central China. The lower Yangtze Valley and portions of the North China Plain received below- to much-below-normal rainfall, while Manchuria reported near- to above-normal rainfall. South Korea and Japan mostly reported below-normal July rainfall as monthly temperatures averaged 2-4 degrees C above normal.



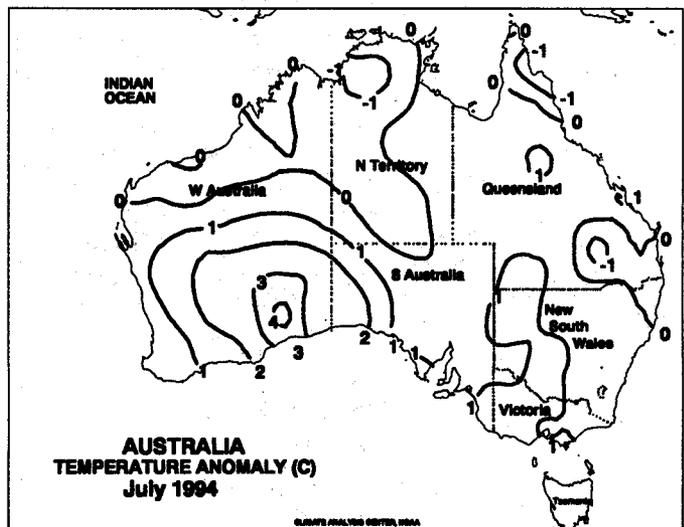
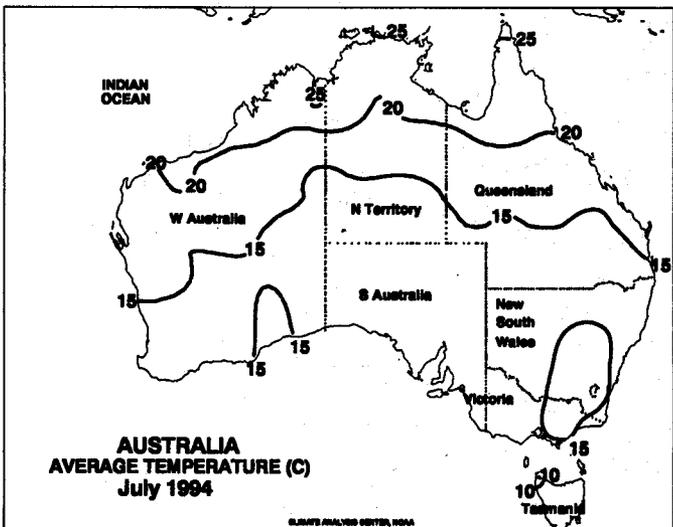
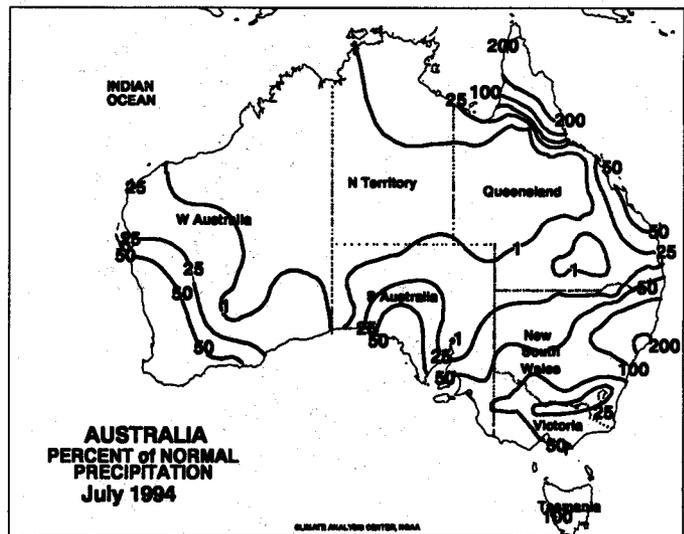
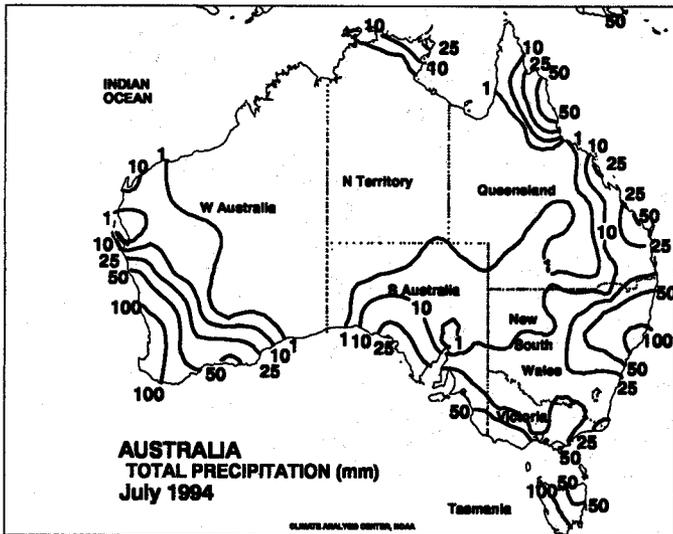


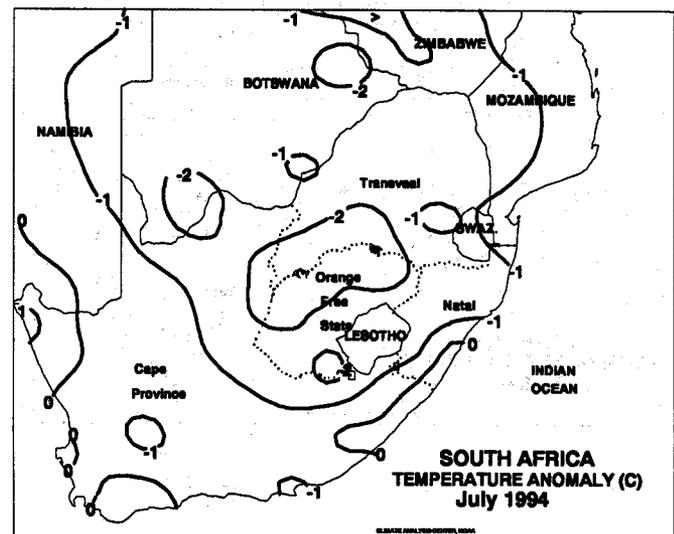
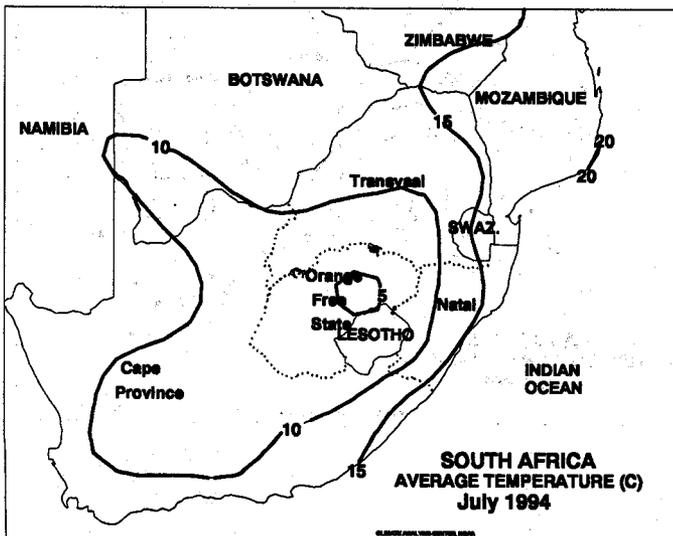
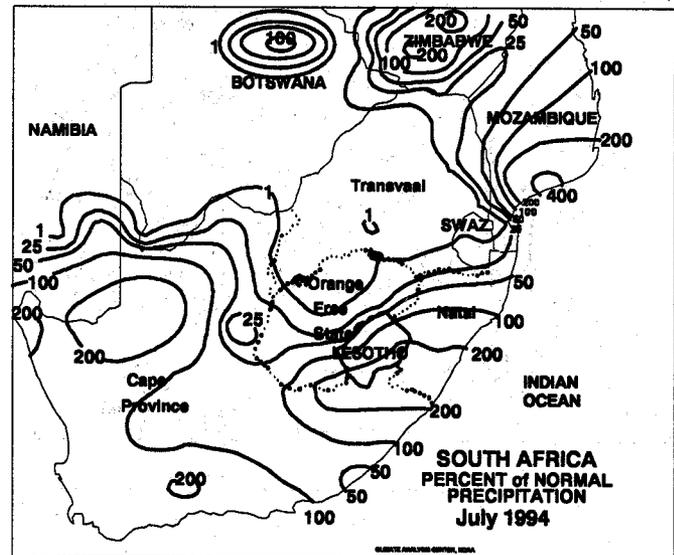
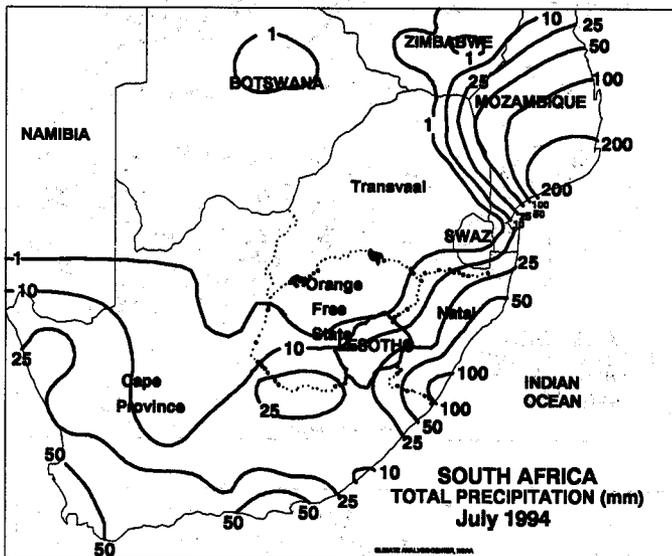
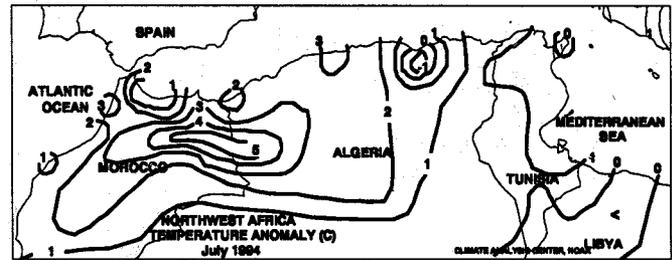
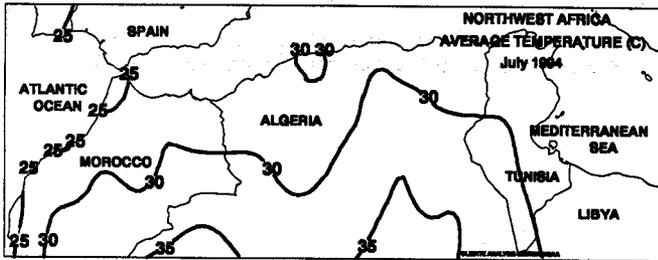
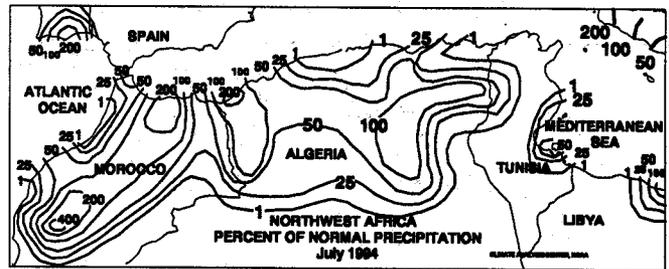
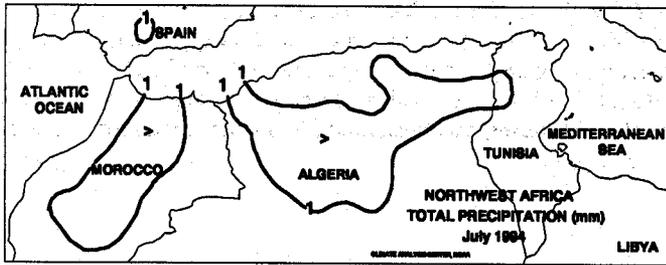
**SOUTHEAST ASIA:** Scattered showers (25-50 mm or more) benefited secondary rice and corn in central Thailand, and extended southward through plantation crop areas of the Malay Peninsula. Mostly dry weather, however, covered rainfed rice areas of southeastern Thailand and almost all of Vietnam. Dry weather dominated the Philippines and drought continued in Java. During July, shower activity was frequent over Indochina, but a drying trend persisted over central Thailand, reducing moisture for rice and corn. Drier-than-normal weather also dominated Malaysia and Indonesia, with Java receiving virtually no rain for the second month. In the Philippines, tropical storm activity in July brought near- to above-normal rainfall to Luzon and the Visayans, benefiting corn, sugarcane, and rice. Inundating rains, however, flooded rice areas of northwestern Luzon.

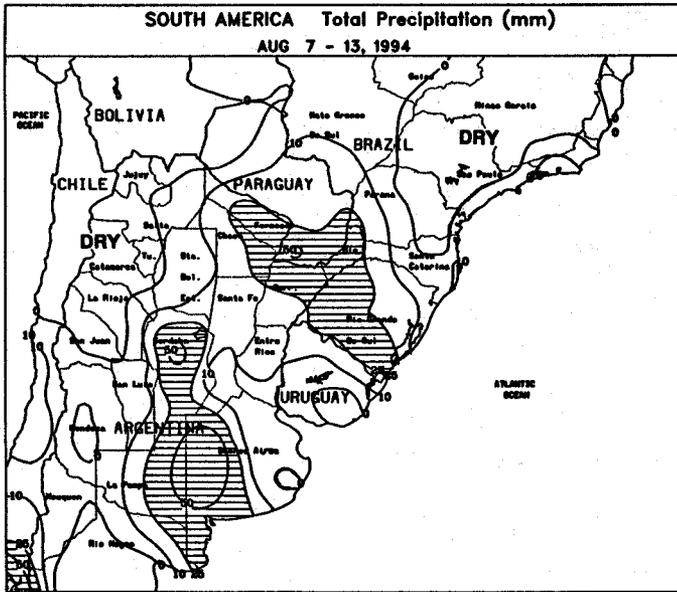




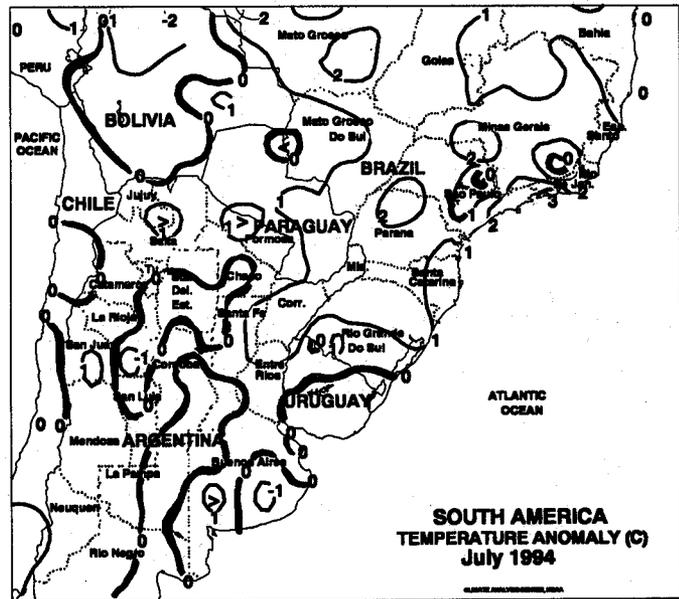
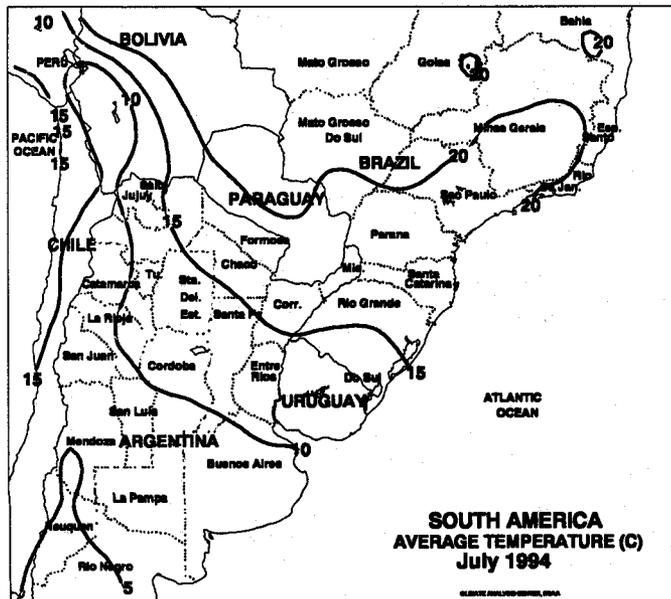
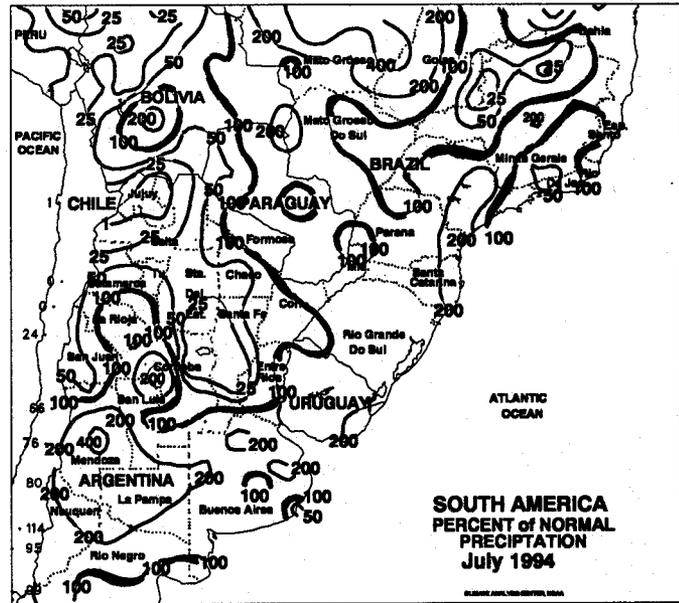
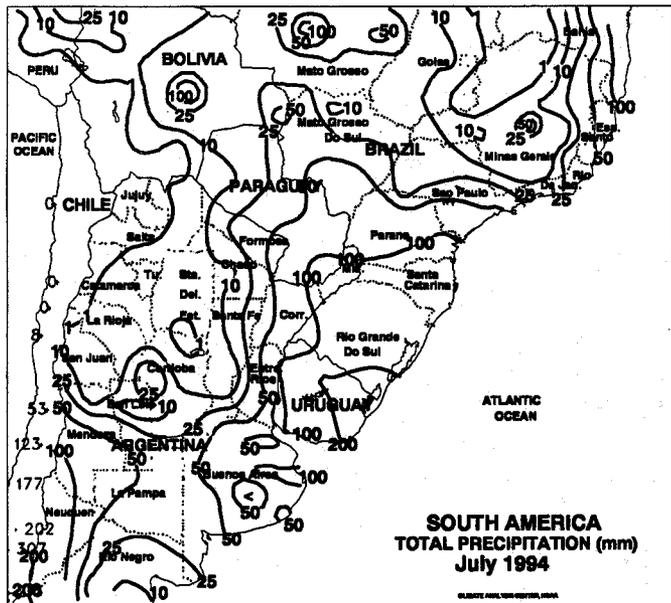
**AUSTRALIA:** The continuing drought across eastern Australia has significantly reduced the amount of wheat planted in that region and hindered crop establishment. Light rain (4-15 mm) fell across South Australia and Victoria, which has been trending below normal in rainfall. However, beneficial rains (20-50 mm) continued across the western wheat areas, keeping soils moist for semi-dormant wheat. Weekly temperatures averaged near normal in the west and 1-3 degrees below normal in the east. During July, southern and eastern wheat areas received below-normal rainfall (30-75 percent of normal). Southern Queensland received less than 25 percent of normal rainfall for the month, while only a small portion of east-central New South Wales received near-normal rainfall. Western wheat areas received 50-80 percent of normal July rainfall.

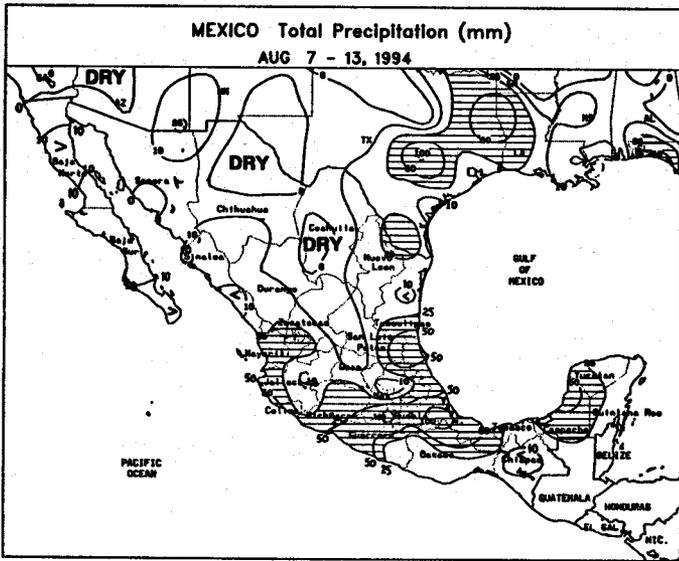




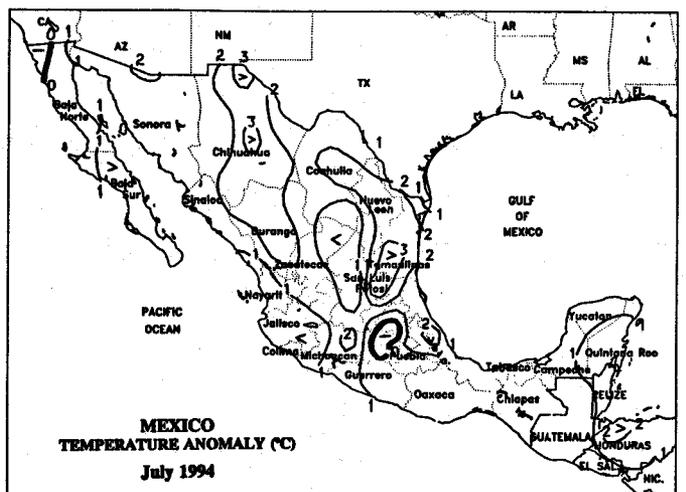
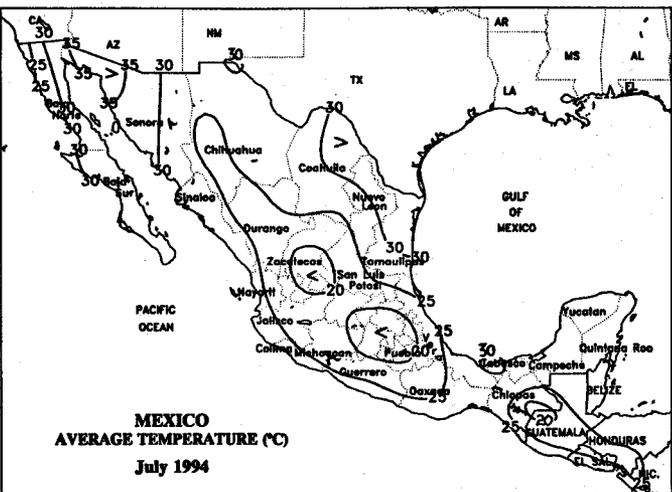
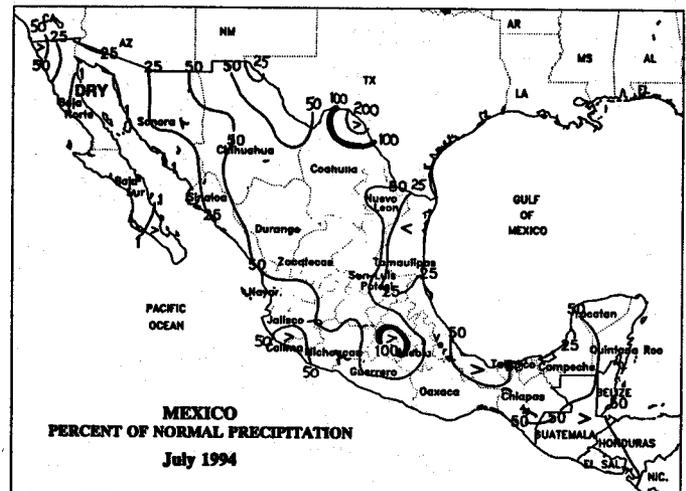
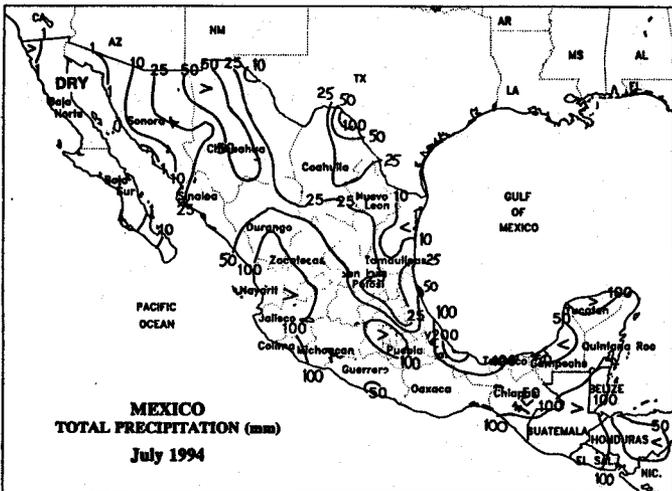


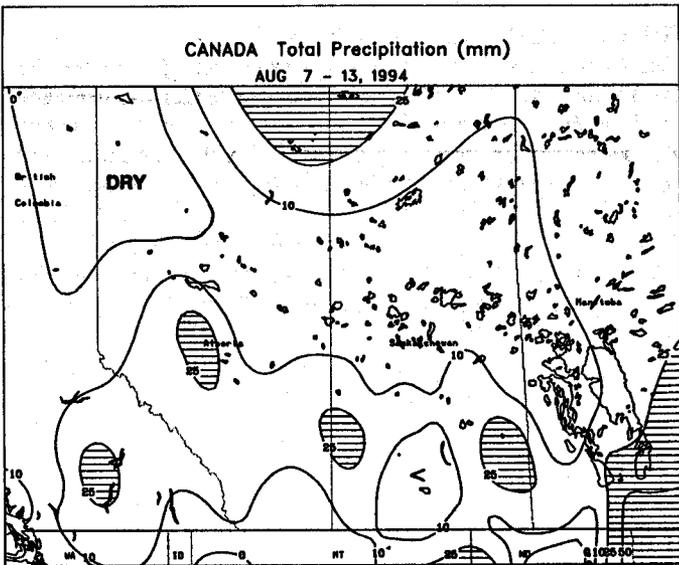
**SOUTH AMERICA:** In Argentina, light to moderate rain (10-60 mm) fell across Buenos Aires, southern Santa Fe, and Cordoba, benefiting semi-dormant winter wheat. In southern Brazil, showers (10-30 mm) kept soils moist for vegetative to reproductive wheat. Sao Paulo and Minas Gerais remained seasonably dry, favoring citrus, coffee, and sugarcane harvesting. Weekly temperatures averaged 1-3 degrees C above normal across Argentina and near normal across southern Brazil. During July, rainfall averaged near to above normal across the main wheat belts of Argentina and southern Brazil. Most of Sao Paulo and southwestern Minas Gerais also received near- to above-normal rainfall, but western Minas Gerais received below- normal rainfall.



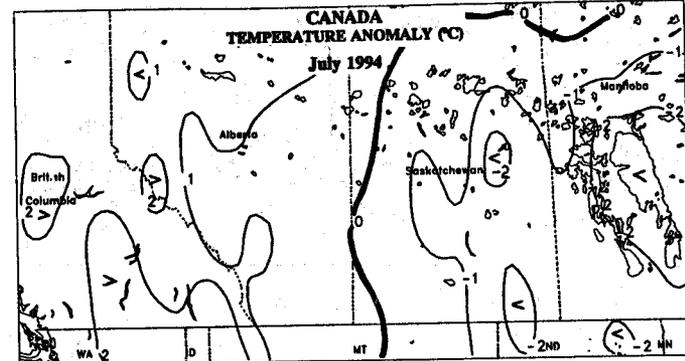
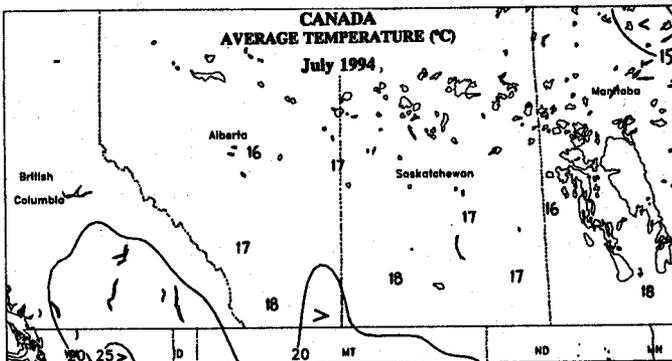
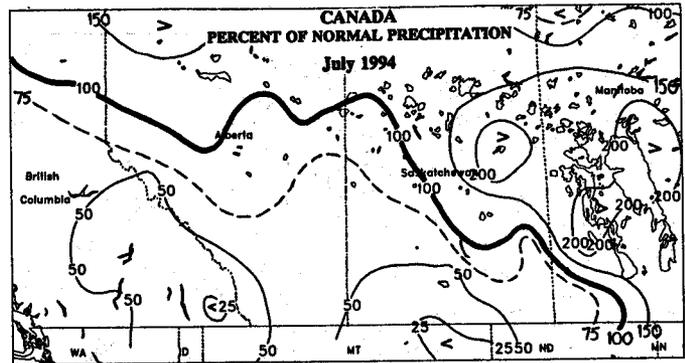
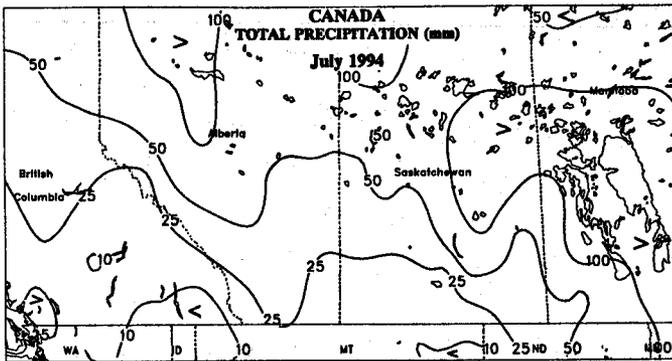


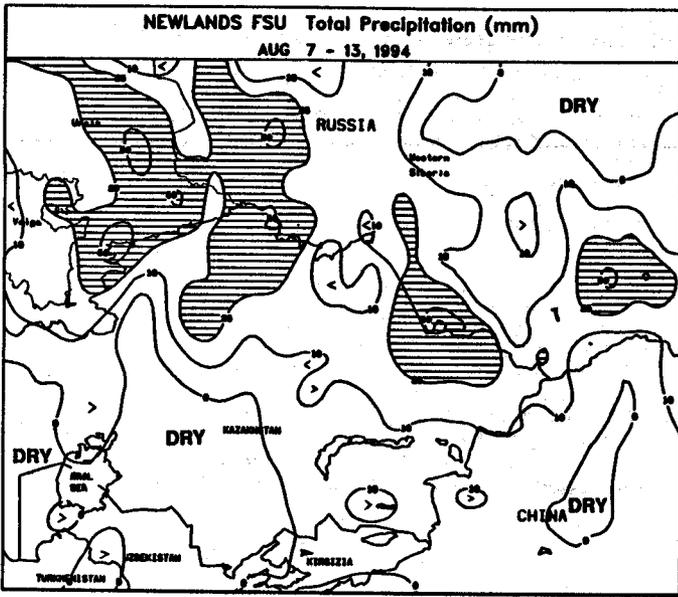
**MEXICO:** Showers (10-60 mm) again covered most of the Southern Plateau corn belt, benefiting corn and sorghum. However, portions of the eastern corn belt (Hidalgo) received only light rain (less than 10 mm). Heavy showers (100-200 mm) fell across east-central Mexico (Veracruz and Puebla), possibly causing local flooding. Moisture from the remnants of Tropical Storm Hector produced light rain (5-20 mm) across Sonora and northern Baja. Weekly temperatures averaged near normal across the main corn belt and 1-3 degrees C above normal across the northwest. During July, virtually all major crop areas received below-normal rainfall, with the main corn belt ranging from 40 to 80 percent of normal rainfall.



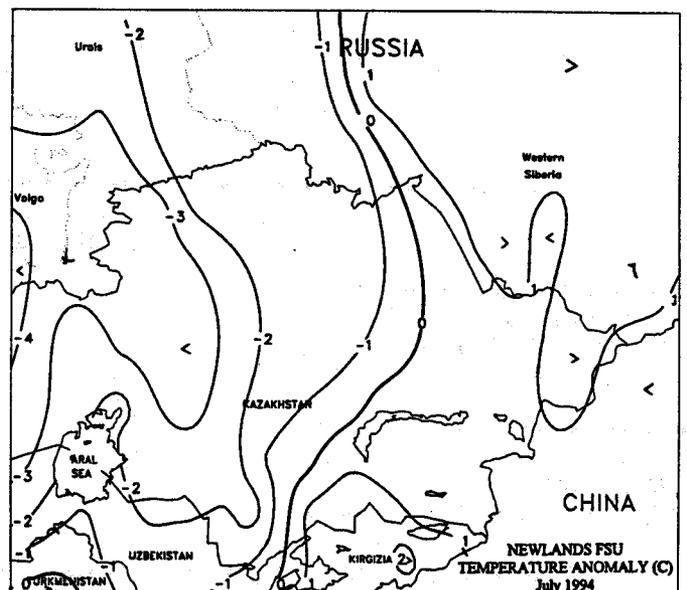
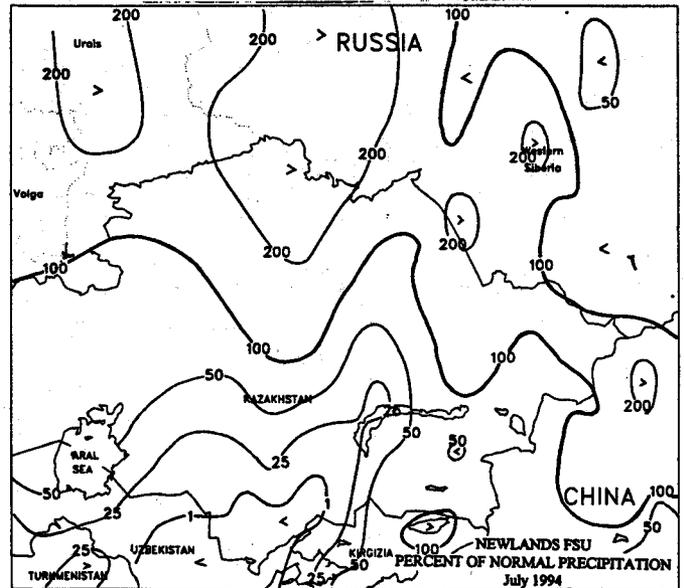
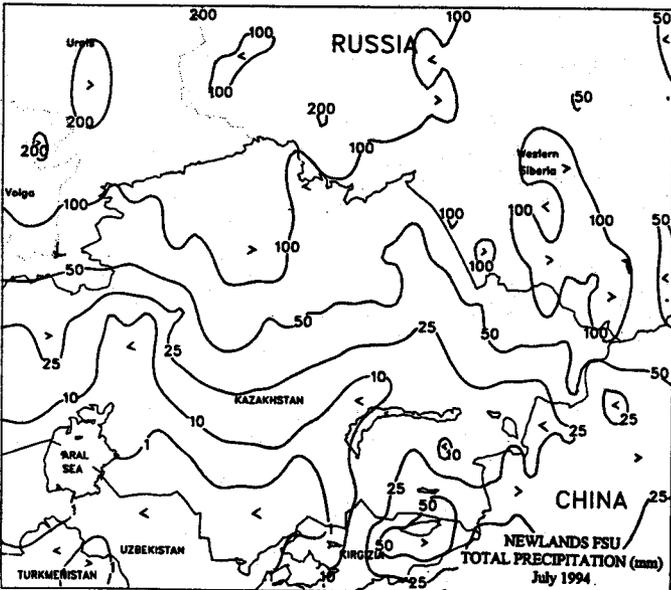


**CANADA:** Cool weather (average temperatures 2-4 degrees C below normal) gripped the Prairies, with some scattered frost in northeastern growing areas. Impact on grains and oilseeds, if any, should be minor. Ahead of the cold weather, moderate to heavy showers (10-41 mm) benefited most immature grains and oilseeds, although chronically dry sections of the southwest received less than 10 mm. In Ontario, moderate showers (25-50 mm or more) benefited corn and soybeans, but cool weather (temperatures 2-3 degrees C below normal) slowed growth. During July, a drying trend intensified across the Prairies, leaving western and southern crop areas with below-normal rainfall. Periodic hot weather in the southwest stressed reproductive grains and oilseeds. July temperatures were slightly above normal in Alberta but cooler than normal in Saskatchewan and Manitoba. In Ontario and Quebec, July rainfall and temperatures generally averaged near normal, benefiting corn, soybeans, and other summer crops.





**FSU-NEW LANDS:** Light to moderate rain (10-25 mm, with local amounts in excess of 30 mm) continued over spring grain areas in Kazakhstan and Russia. While this past week's rain was generally beneficial for those spring grains in the filling stage, drier weather will be needed in upcoming weeks for grain maturation and harvesting. Conditions remained unfavorably wet in the Urals region of Russia, where rainfall has been persistent and locally heavy. Weekly average temperatures were near normal over most of Kazakhstan and Russia. In July, periodic rain reversed June's dry pattern over Kazakhstan and Western Siberia in Russia. Above-normal precipitation fell over most spring grain areas, generally improving growing conditions. Unseasonably cool weather accompanied the rainfall, slowing crop development.



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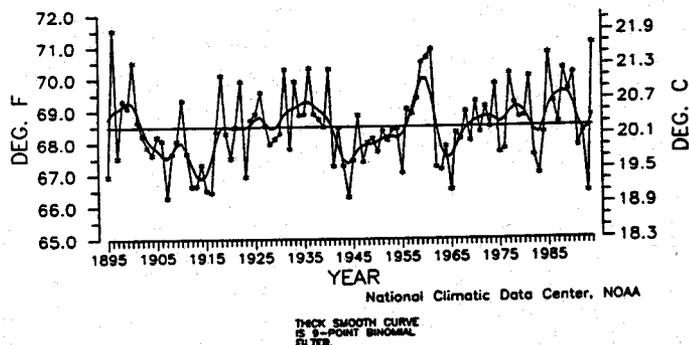
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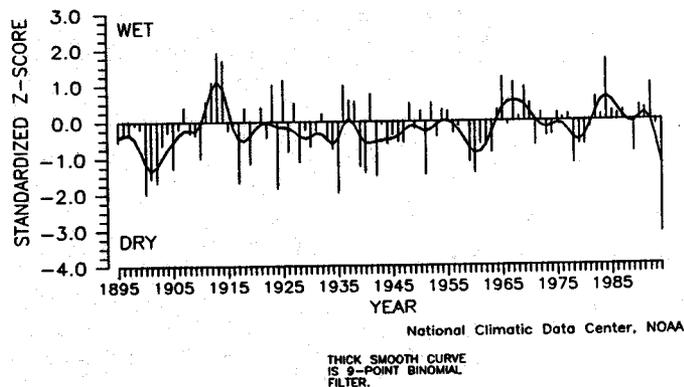
**Figure 5**

NORTHWEST, SOUTHWEST & WEST  
 REGIONS AVERAGED TEMPERATURE  
 JUNE-JULY, 1895-1994



**Figure 6**

NORTHWEST, SOUTHWEST, & WEST REGIONS  
 NORMALIZED PRECIPITATION INDEX  
 JUNE-JULY 1895-1994



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