

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

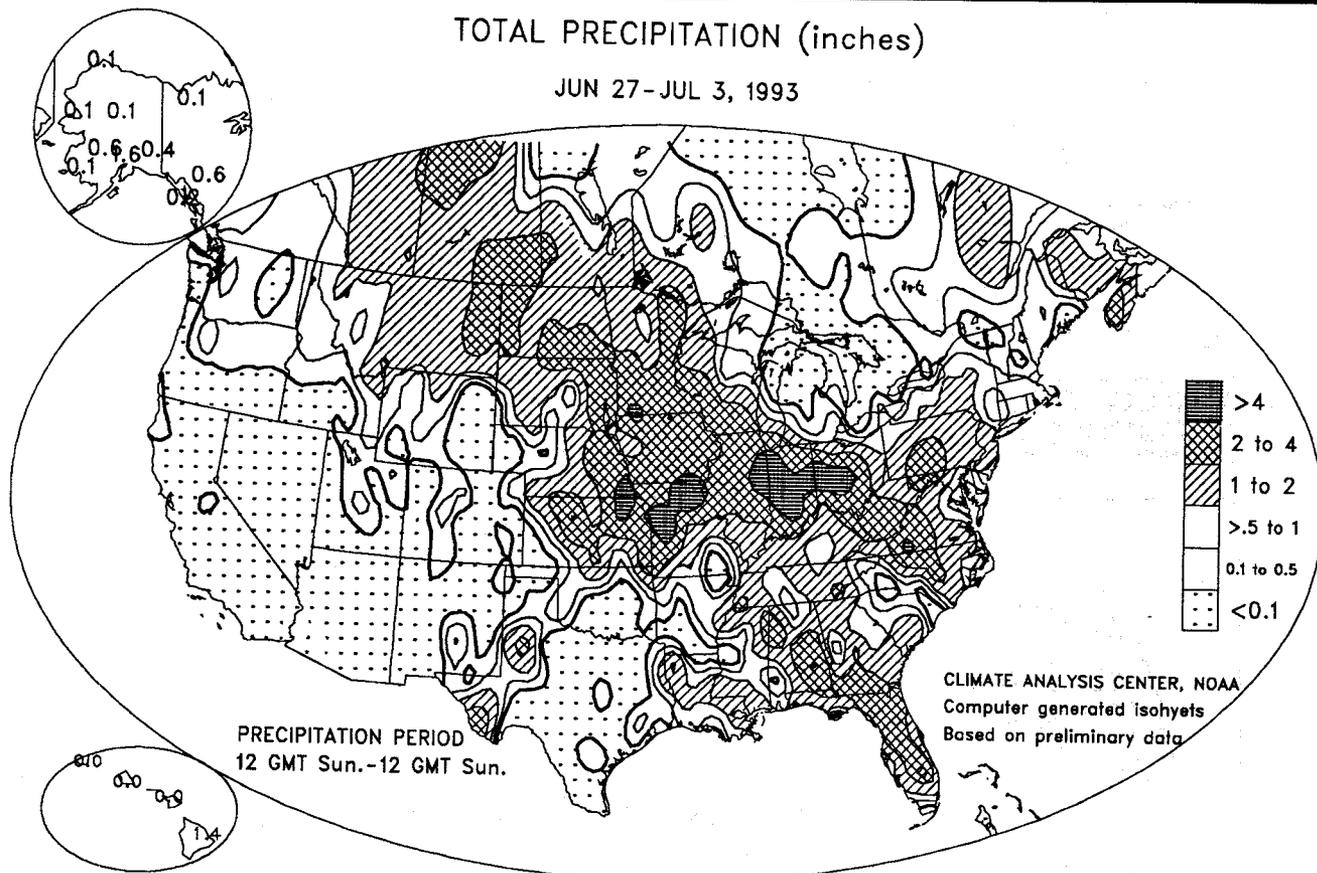
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Washington, D.C.

July 7, 1993

TOTAL PRECIPITATION (inches)

JUN 27 - JUL 3, 1993



PRECIPITATION PERIOD
12 GMT Sun.-12 GMT Sun.

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

HIGHLIGHTS

June 27 - July 3, 1993

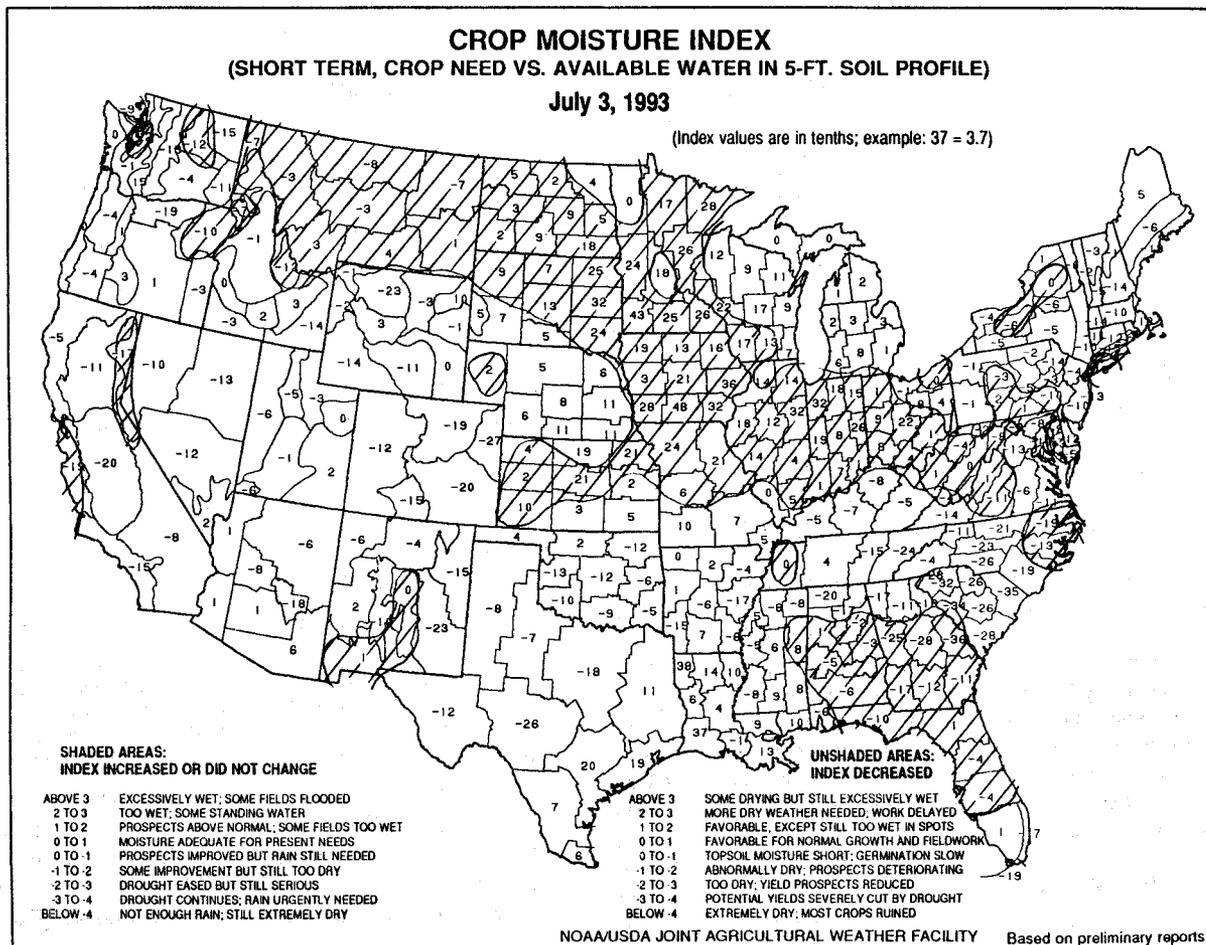
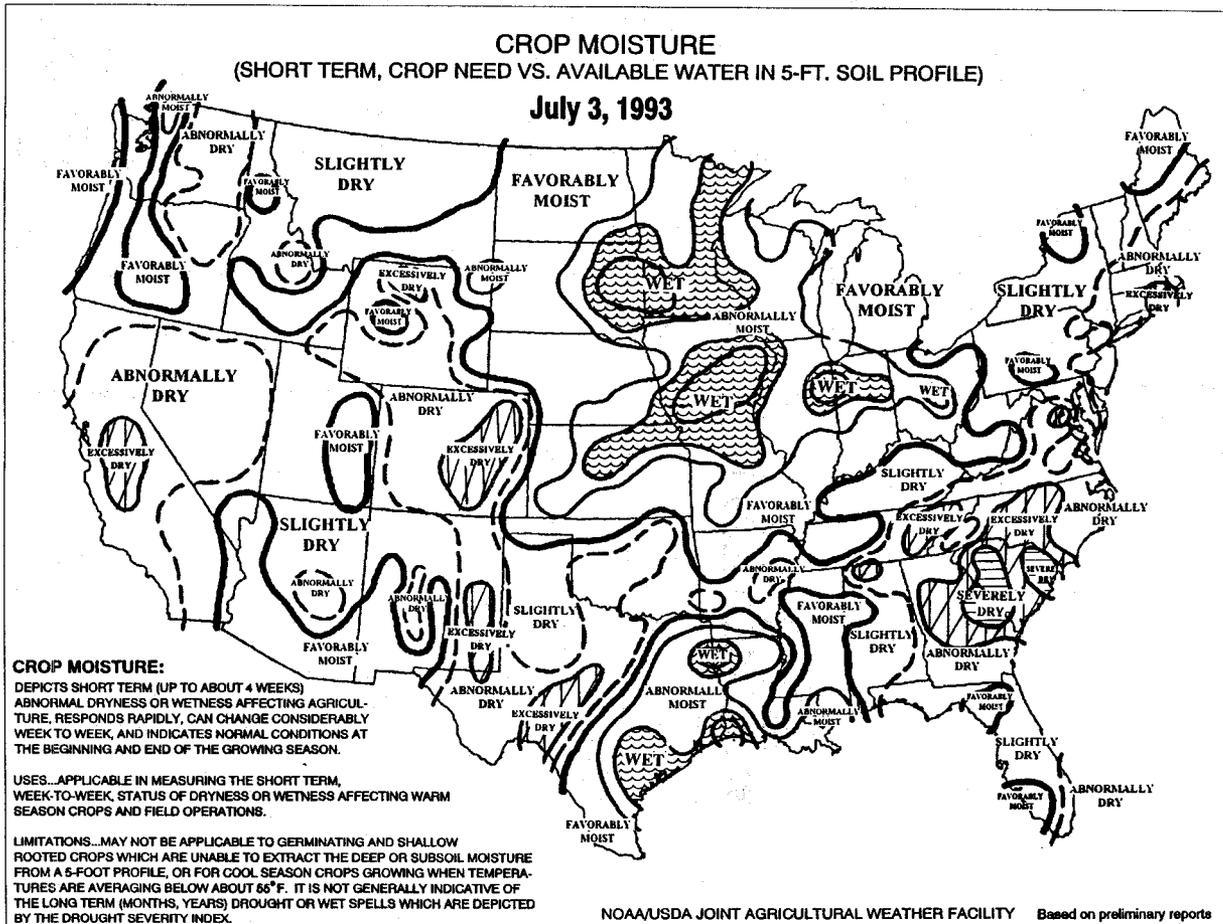
An unrelenting series of storms carved out a stormy pattern from the northern Plains to the flood-ravaged and waterlogged upper and middle Mississippi Valley. Cool air along and north of the primary storm track contrasted sharply with a hot, humid, stagnant airmass across the southern half of the Nation. Early in the week, scattered thunderstorms developed in an arc from the northern Plains to New England, as well as in the Southeast. But by Tuesday, rainfall intensified across the western Corn Belt. Weekly rainfall exceeded 2 inches in a broad swath from eastern Montana to the western Corn Belt, then eastward to the central Appalachians. Many locations between Kansas City, MO and Columbus, OH received in excess of 4 inches. Farmland in parts of five States (eastern SD, southern MN, WI, northern IL, and IA) remained too wet for

(Continued to back cover)

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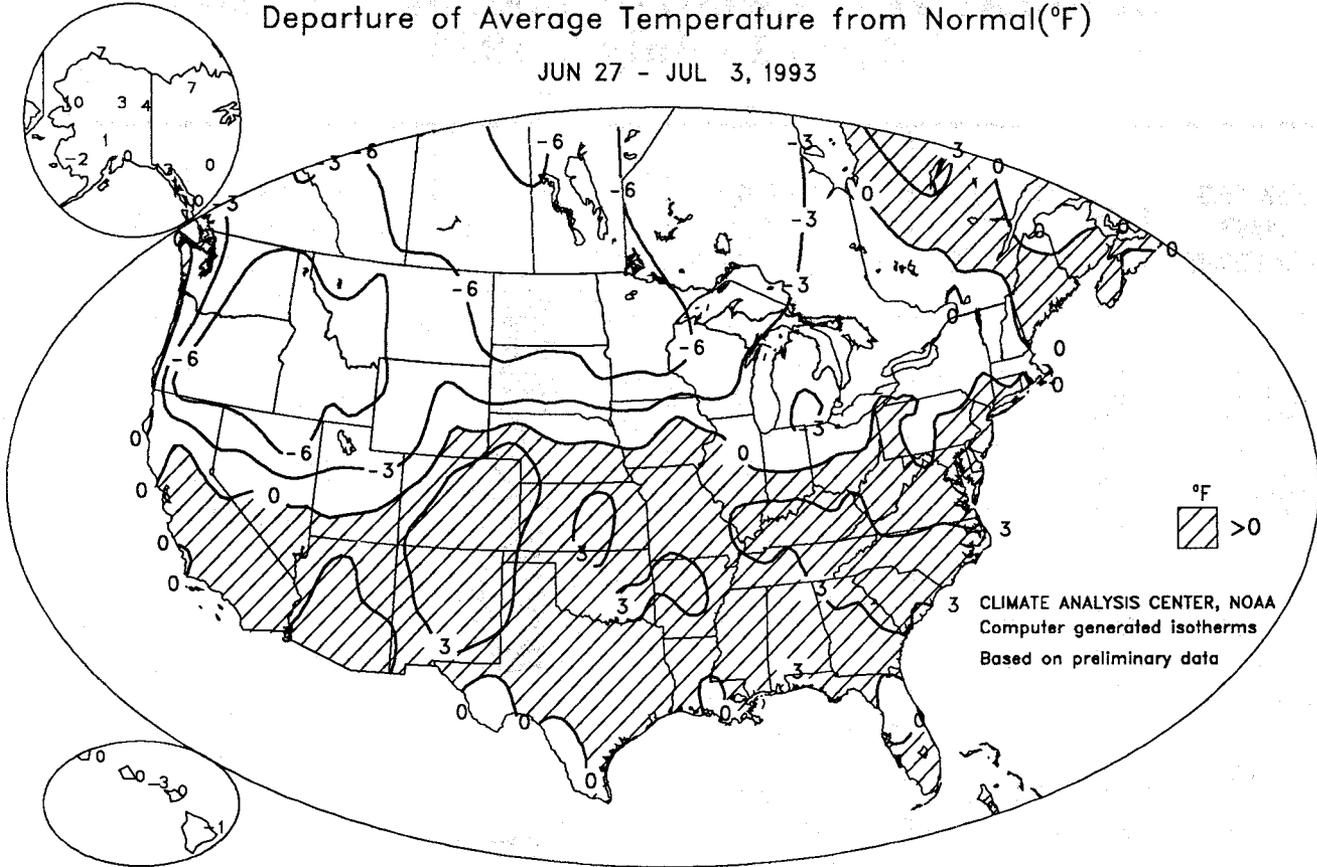
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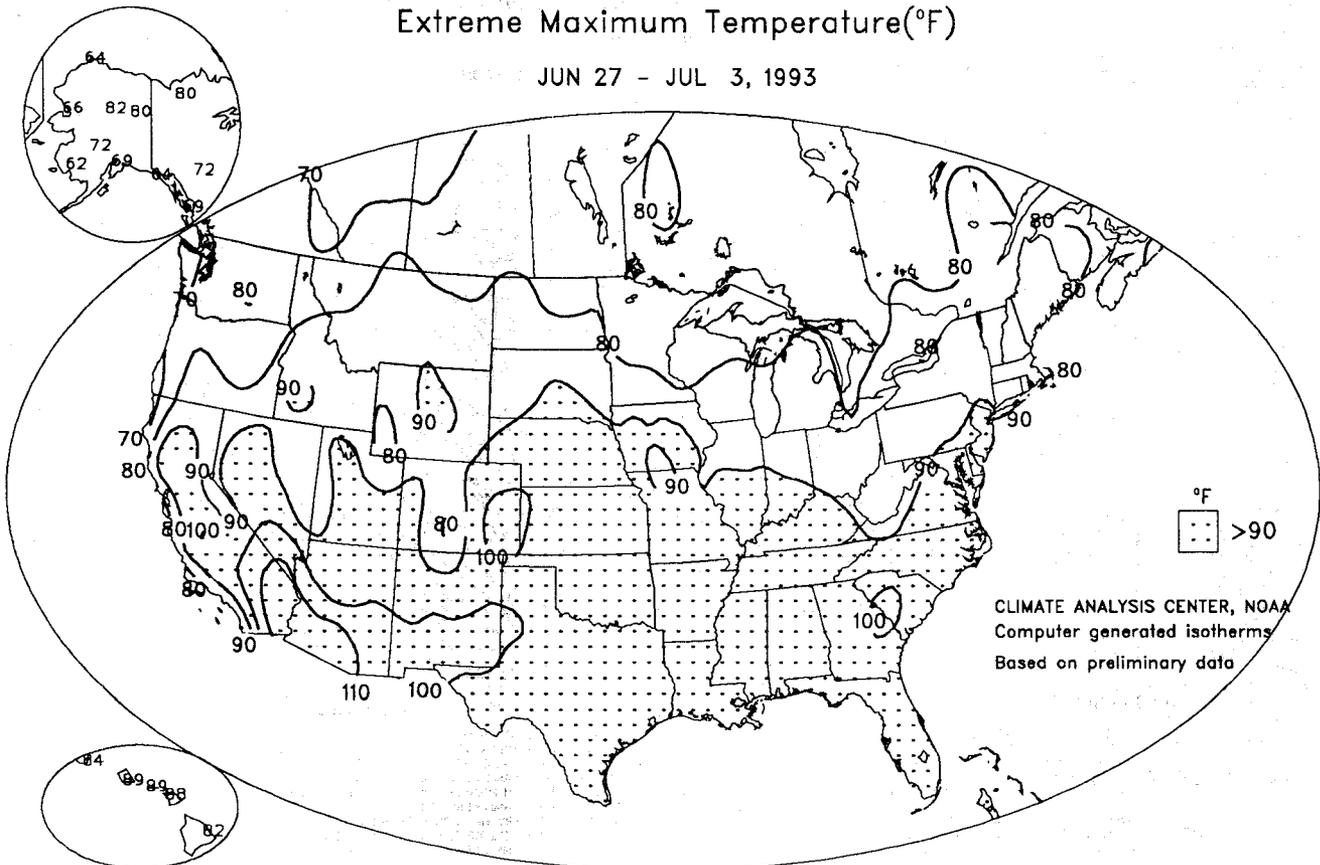
Departure of Average Temperature from Normal(°F)

JUN 27 - JUL 3, 1993



Extreme Maximum Temperature(°F)

JUN 27 - JUL 3, 1993



CUMULATIVE GROWING DEGREE DAYS (CORN*)

April 1 - July 3, 1993

STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL
AL ANNISTON	1794	- 52	TOPEKA	1370	- 124	OK ALTUS	1848	- 81
BIRMINGHAM	1814	- 64	WICHITA	1445	- 179	CGCE	1555	- 83
MOBILE	2016	- 195	KY LEXINGTON	1447	- 1	HOBART	1707	- 96
MONTGOMERY	1937	- 22	BOWLING GREEN	1594	- 7	MCALESTER	1891	+ 19
MUSCLE SHOALS	1797	- 5	PADUCAH	1685	+ 2	PONCA CITY	1677	- 48
OZARK	1988	- 73	LA LAFAYETTE	2116	- 122	TULSA	1661	- 162
TUSCALOOSA	1898	- 62	LAKE CHARLES	2170	- 95	OR BAKER	783	- 7
AZ DOUGLAS	1866	+ 168	MONROE	2007	- 61	EUGENE	863	+ 7
FLAGSTAFF	1011	+ 175	NEW ORLEANS	2072	- 162	NORTH BEND	671	+ 36
PHOENIX	2618	+ 448	SHREVEPORT	1972	- 62	PENDLETON	1025	+ 15
TUCSON	2186	+ 190	ME AUGUSTA	853	+ 83	REDMOND	752	- 45
YUMA	2625	+ 372	CARIBOU	648	+ 67	PORTLAND	966	+ 135
PRESCOTT	1379	+ 213	HOULTON	689	+ 34	SALEM	972	+ 158
AR EL DORADO	1863	- 87	PORTLAND	794	+ 91	SEXTON SUMMIT	422	- 111
FAYETTEVILLE	1543	- 51	MD SALISBURY	1459	+ 89	PA ALLENTOWN	1287	+ 128
FORT SMITH	1763	- 73	MA WORCESTER	899	+ 35	PHILADELPHIA	1516	+ 276
JONESBORO	1748	- 110	MI BATTLE CREEK	1001	- 79	WILLIAMSPORT	1265	+ 140
LITTLE ROCK	1814	- 67	JACKSON	998	- 64	SC BRAUFORT	2087	+ 35
TEXARKANA	1913	- 113	LANSING	997	- 94	CHARLESTON	2025	+ 39
CA BAKERSFIELD	1829	+ 33	MUSKOGON	910	+ 7	COLUMBIA	1931	+ 1
BLUE CANYON	556	- 88	PELLSTON	674	- 58	FLORENCE	1992	+ 69
DAGGETT	2052	+ 130	SAULT STE. MARIE	476	- 96	SUMTER/SHAW AFB	1897	- 37
EUREKA	714	+ 380	TRAVERSE CITY	820	- 19	SD ABERDEEN	954	+ 7
FRESNO	1754	+ 164	MN DULUTH	473	- 123	HURON	946	- 114
MARYSVILLE	1613	+ 65	INT'L FALLS	641	- 72	PIERRE	957	- 112
MERCED	1654	+ 112	ALEXANDRIA	756	- 117	RAPID CITY	832	- 106
MT SHASTA	685	- 132	WARROAD	571	- 167	STOUX FALLS	942	- 157
PASO ROBLES	1461	+ 168	MS BILOXI	2160	- 99	WATERTOWN	752	- 161
RED BLUFF	1515	- 77	COLUMBUS	1852	- 54	TN BRISTOL	1487	+ 34
RIVERSIDE	1749	+ 276	JACKSON	1966	- 0	CHATTANOOGA	1783	+ 70
SANTA ANA	1832	+ 461	MERIDIAN	1941	- 36	CROSSVILLE	1461	+ 148
SAN DIEGO	1543	+ 280	GREENWOOD	1934	- 81	MEMPHIS	1879	- 50
SACRAMENTO	1463	+ 59	MO COLUMBIA	1399	- 24	NASHVILLE	1686	- 41
THERMAL	2322	+ 106	JOPLIN	1552	- 94	TX ABILENE	2009	- 17
CO ALAMOSA	838	- 24	SPRINGFIELD	1447	- 76	AMARILLO	1548	+ 1
DENVER	1107	+ 42	VICHY	1458	- 54	AUSTIN	2218	- 26
EAGLE	797	- 108	MT BOZEMAN	730	+ 303	BROWNSVILLE	2572	- 8
GRAND JUNCTION	1279	- 91	HELENA	758	+ 34	COLLEGE STATION	2141	- 67
LA JUNTA	1395	- 15	KALISPELL	745	- 9	DALHART	1467	+ 19
DE DOVER	1364	- 72	MILES CITY	944	- 30	DALLAS/FT WORTH	2079	+ 22
WILMINGTON	1435	+ 138	NE GRAND ISLAND	1136	- 121	GALVESTON	2367	- 1
FL DAYTONA BEACH	2125	- 123	NORFOLK	1123	- 90	HOUSTON	2216	+ 15
FORT MYERS	2447	+ 15	NORTH PLATTE	1075	- 53	KINGSVILLE/NAS	2518	+ 47
GAINESVILLE	2037	- 191	VALENTINE	988	- 168	LAREDO	2577	+ 35
JACKSONVILLE	2064	- 126	SCOTTSBUFF	1037	- 30	LUBBOCK	1864	+ 104
FORT LAUDERDALE	2691	+ 178	SIDNEY	972	+ 9	MCCALLEN	2621	+ 108
MIAMI	2673	+ 74	NV ELKO	809	- 81	MIDLAND	1976	- 12
MILTON	2075	- 39	ELY	842	+ 20	PALACIOS	2277	- 104
PENSACOLA	2110	- 125	LAS VEGAS	2220	+ 252	SAN ANTONIO	2252	- 38
ST PETERSBURG	2392	- 135	RENO	1040	+ 9	VICTORIA	2295	- 15
TALLAHASSEE	2042	- 91	WINNEMUCCA	1030	+ 23	WACO	2100	- 84
TAMPA	2292	- 100	NH CONCORD	1033	+ 105	WICHITA FALLS	1847	- 109
VERO BEACH	2315	- 37	NJ NEWARK	1557	+ 296	WINK	2047	+ 39
W. PALM BEACH	2496	+ 5	NM ALBUQUERQUE	1651	+ 222	UT CEDAR CITY	1091	+ 28
GA ATHENS	1836	+ 41	CARLSBAD	2018	+ 100	VT BARRE-MONTEPELLIER	792	+ 45
AUGUSTA	1983	+ 82	CLOVIS	1628	+ 96	BURLINGTON	945	+ 76
BRUNSWICK	2050	- 122	GALLUP	1237	+ 92	VA CHARLOTTESVILLE	1561	+ 51
COLUMBUS	1995	- 4	TRUTH OR CONSEQ.	1808	+ 124	HAMPTON/LANGLEY	1690	+ 130
MACON	1959	- 54	NY ALBANY	1093	+ 78	LYNCHBURG	1614	+ 164
SAVANNAH	2090	+ 25	ELMIRA	1053	+ 80	NORFOLK	1693	+ 110
ID BOISE	1034	+ 20	GLENS FALLS	985	+ 67	RICHMOND	1633	+ 55
BURLEY	934	+ 45	POUGHKEEPSIE	---	---	WA BELLINGHAM	736	+ 163
IDAHO FALLS	735	- 63	ROCHESTER	977	- 0	HOQUIAM	655	+ 154
POCATELLO	800	- 53	SYRACUSE	1004	+ 36	SEATTLE-TACOMA	804	+ 138
IL BELLEVILLE	1492	- 48	UTICA	900	+ 7	SPOKANE	828	+ 56
CHICAGO/MIDWAY	1139	- 55	WATERTOWN	849	- 27	TACOMA	843	+ 103
DECATUR	1341	- 102	ASHEVILLE	1397	+ 17	WALLA WALLA	1086	+ 36
PEORIA	1343	+ 63	FAYETTEVILLE	1830	+ 55	WENATCHEE	1137	+ 6
ROCKFORD	1144	+ 20	GREENSBORO	1725	+ 125	YAKIMA	1092	+ 43
SPRINGFIELD	1407	- 2	HICKORY	1633	+ 40	WV HUNTINGTON	1494	+ 139
QUINCY	1337	- 33	RALEIGH	1746	+ 85	MARTINSBURG	1302	- 4
IN INDIANAPOLIS	1338	- 5	WILMINGTON	1912	+ 58	MORGANTOWN	1318	+ 37
SOUTH BEND	1121	- 4	NEW BERN	1835	+ 26	WI EAU CLAIRE	835	- 138
TERRE HAUTE	1397	+ 18	ND BISMARCK	822	- 54	GREEN BAY	837	- 36
IA DES MOINES	1170	- 168	DICKINSON	706	- 88	LACROSSE	980	- 113
MASON CITY	939	- 211	JAMESTOWN	757	- 103	MADISON	1057	- 11
OTTUMWA	1264	- 47	MINOT	713	- 75	WAUSAU	757	- 119
KS CHANUTE	1447	- 140	GRAND FORKS	829	- 12	WY CASPER	846	+ 8
DODGE CITY	1354	- 110	OH AKRON-CANTON	1110	+ 14	LANDER	776	- 32
GARDEN CITY	1309	- 135	COLUMBUS	1270	+ 13	SHERIDAN	800	- 6
GOODLAND	1114	- 69	DAYTON	1249	- 47	WORLAND	990	+ 37
MEDICINE LODGE	1547	- 115	FINDLAY	1064	- 84			
RUSSELL	1341	- 92	YOUNGSTOWN	1077	+ 56			
SALINA	1411	- 90	ZANESVILLE	1228	+ 13			

Based on 1951-80 normals.

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

National Weather Data for Selected Cities

Weather Data for the Week Ending July 3, 1993

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	TEMP. °F		PRECIP.	
																	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	92	70	95	67	81	2	1.2	.2	.8	1.5	35	21.1	70	95	46	5	0	3	1	
MOBILE	92	74	97	71	83	1	.4	-.9	.2	3.2	57	36.3	112	95	47	5	0	4	0	
MONTGOMERY	94	71	98	70	83	3	2.5	1.2	1.0	2.9	52	25.2	83	93	47	6	0	3	0	
AK ANCHORAGE	64	52	69	49	58	1	.1	-.3	.1	.2	15	3.9	78	79	56	0	0	2	0	
BARROW	53	37	65	34	45	7	.7	-.1	.1	.5	132	1.3	122	94	64	0	0	1	0	
FAIRBANKS	78	53	81	49	65	3	.3	-.4	.1	1.2	79	4.8	128	79	34	0	0	1	0	
JUNEAU	61	51	68	49	56	1	.1	-.8	.1	3.6	104	27.4	129	86	62	0	0	1	0	
KODIAK	55	46	58	42	51	2	.5	-.4	.2	3.9	76	36.0	112	95	71	0	0	3	0	
NOME	62	48	68	40	55	6	.6	-.2	.1	.4	34	5.1	113	91	58	0	0	2	0	
AZ PHOENIX	107	84	113	82	96	4	.4	-.1	.0	.6	8.7	312	41	16	7	0	0	0	0	
PRESCOTT	91	62	96	54	76	5	.5	-.4	.0	.1	16	12.0	173	47	18	5	0	0	0	
TUCSON	106	78	111	74	92	6	.6	-.2	.0	.1	12	7.4	235	48	20	7	0	2	0	
YUMA	108	81	114	79	95	3	.3	-.0	.0	.0	0	3.3	334	61	19	7	0	1	0	
AR FORT SMITH	93	72	95	69	82	2	.2	-.6	.1	5.0	136	26.7	125	90	45	7	0	1	0	
LITTLE ROCK	93	74	95	71	83	3	.3	-.7	.1	2.0	44	23.5	91	88	47	7	0	1	0	
CA BAKERSFIELD	97	68	104	63	82	1	.1	-.0	.0	.5	436	6.6	172	43	14	7	0	0	0	
EUREKA	63	52	64	50	58	1	.1	-.0	.0	1.2	237	29.4	141	89	55	7	0	0	0	
FRESNO	97	65	102	61	81	1	.1	-.0	.0	1.6	>1000	11.5	165	52	15	7	0	0	0	
LOS ANGELES	75	63	77	61	69	1	.1	-.0	.0	.7	>1000	18.5	238	90	44	0	0	0	0	
REDDING	95	64	100	58	80	0	.0	-.1	.0	.7	112	35.3	187	53	14	6	0	0	0	
SACRAMENTO	92	59	98	55	75	1	.1	-.0	.0	1.3	962	19.1	178	80	25	5	0	0	0	
SAN DIEGO	74	65	76	62	69	0	.0	-.0	.0	.4	456	15.5	250	87	54	0	0	0	0	
SAN FRANCISCO	73	54	78	52	63	1	.1	-.0	.0	.2	133	19.4	158	82	41	0	0	0	0	
CO DENVER	93	60	98	55	77	5	.5	-.4	.0	1.7	85	6.9	82	66	17	6	0	0	0	
GRAND JUNCTION	94	62	98	59	78	1	.1	-.2	.0	.4	7.5	152	50	11	6	0	0	0	0	
PUEBLO	97	57	100	54	77	2	.2	-.4	.0	1.5	106	7.2	146	62	14	7	0	4	0	
CT BRIDGEPORT	80	66	92	59	73	1	.1	-.4	.2	1.7	45	17.7	82	80	45	1	0	0	0	
HARTFORD	82	61	89	52	72	0	.0	-.3	.3	2.9	71	21.7	97	88	44	0	0	3	0	
DC WASHINGTON	88	71	96	68	80	1	.1	-.2	.3	2.4	64	21.4	114	88	41	4	0	4	0	
FL APALACHICOLA	91	72	95	70	81	0	0	1.4	1.5	2.1	41	21.9	98	97	66	5	0	5	1	
DAYTONA BEACH	89	70	92	69	80	-1	-.1	-.5	.6	2.2	33	16.0	76	97	66	3	0	4	1	
JACKSONVILLE	82	71	95	70	82	1	.1	-.3	.7	3.2	53	18.3	81	97	47	5	0	4	2	
KEY WEST	91	80	91	77	85	1	.1	-.0	.0	1.7	31	17.6	108	82	62	7	0	0	0	
MIAMI	91	77	95	75	84	2	.2	-.4	.4	3.6	37	22.1	87	84	55	6	0	1	0	
ORLANDO	91	72	95	71	81	-1	-.1	-.7	.7	4.8	59	21.5	98	94	47	3	0	6	0	
TALLAHASSEE	91	71	94	70	81	0	.0	-.4	.2	3.2	41	26.4	80	90	46	4	0	5	1	
TAMPA	89	75	91	71	82	0	.0	-.9	.2	3.3	54	17.3	94	87	59	4	0	4	0	
WEST PALM BEACH	90	72	94	70	81	-1	-.1	-.2	.5	3.0	35	28.8	108	93	57	4	0	5	1	
GA ATLANTA	91	71	94	67	81	3	2.0	1.0	1.8	6.1	152	27.9	100	86	45	5	0	3	1	
AUGUSTA	97	71	102	68	84	4	.6	-.4	.6	1.5	34	21.1	86	92	40	7	0	2	1	
MACON	93	72	97	71	82	2	2.1	1.2	1.0	4.3	108	28.9	115	90	43	5	0	3	2	
SAVANNAH	94	73	98	71	83	3	.9	-.5	.6	3.1	50	24.5	102	94	44	7	0	5	1	
HI HILO	81	67	83	64	74	-2	-.2	1.3	.8	7.4	105	40.8	62	91	70	0	0	6	3	
HONOLULU	88	73	89	72	81	1	.1	-.1	.1	.1	21	1.7	15	72	46	0	0	0	0	
KARULUI	87	71	88	68	79	1	.1	-.1	.1	.0	5.4	43	70	50	0	0	0	0	0	
LIHUE	84	74	84	73	79	1	.1	-.1	.3	.6	31	6.8	31	76	60	0	0	1	0	
ID BOISE	77	49	92	40	63	-8	-.8	-.1	.1	2.2	253	10.2	146	81	26	1	0	1	0	
LEWISTON	72	53	78	47	63	-8	-.8	.0	.2	1.9	140	9.2	131	75	35	0	0	1	0	
POCATELLO	75	47	85	43	61	-6	-.6	.1	.1	3.1	283	12.6	184	81	30	0	0	2	0	
IL CHICAGO	79	61	91	53	70	-2	-.2	1.4	.6	10.0	242	25.5	153	94	43	1	0	3	1	
MOLINE	85	66	90	60	75	1	3.1	2.0	1.4	13.3	281	30.2	162	90	41	1	0	5	3	
PEORIA	85	66	89	61	75	1	2.3	1.3	1.1	6.8	153	24.2	137	90	47	0	0	4	3	
QUINCY	84	69	88	65	77	1	3.9	2.9	2.1	7.5	177	18.2	98	90	61	0	0	4	2	
ROCKFORD	79	62	89	56	71	-1	-.1	1.8	1.3	12.9	261	29.2	170	94	62	0	0	4	2	
SPRINGFIELD	87	69	91	65	78	2	4.8	4.0	3.2	10.4	277	25.0	143	91	52	1	0	3	3	
IN EVANSVILLE	92	71	95	64	82	4	.6	-.4	.3	4.7	113	22.7	93	87	49	6	0	4	0	
FORT WAYNE	78	63	88	59	71	-2	-.2	3.0	2.2	1.5	7.2	183	26.2	150	95	45	0	5	2	
INDIANAPOLIS	85	65	90	62	75	0	1.8	.8	.9	6.4	165	22.3	111	95	46	1	0	5	1	
SOUTH BEND	78	61	87	57	69	-3	-.3	2.5	1.5	1.6	11.3	251	25.5	135	92	42	0	0	5	1
IA DES MOINES	83	67	89	64	75	1	1.7	.7	.9	7.7	154	24.5	145	94	51	0	0	4	1	
STOUX CITY	83	63	91	59	73	-1	-.1	1.1	.3	4.7	116	15.1	114	89	46	1	0	4	0	
WATERLOO	83	64	92	58	73	1	2.1	1.0	1.9	10.1	205	25.8	156	95	60	1	0	3	1	
KS CONCORDIA	91	68	94	60	80	2	2.4	1.4	1.8	8.6	178	19.3	129	89	49	5	0	4	1	
DODGE CITY	92	68	95	61	80	2	.2	-.5	.2	3.2	94	13.6	122	84	39	7	0	1	0	
GOODLAND	92	62	101	58	77	4	.2	-.5	.2	2.1	60	7.6	74	87	33	6	0	2	0	
TOPEKA	90	69	94	66	79	3	1.6	.5	1.0	3.3	56	21.7	121	89	50	4	0	3	1	
WICHITA	92	72	93	67	82	3	.6	-.5	.3	4.4	74	20.0	112	85	44	7	0	2	0	
KY BOWLING GREEN	90	69	94	59	80	3	.7	-.3	.5	3.0	65	18.2	67	96	56	5	0	3	1	
LEXINGTON	88	67	91	62	78	3	.4	-.6	.3	5.5	133	21.8	95	91	45	3	0	3	0	
LOUISVILLE	90	69	93	62	80	4	.7	-.2	.5	4.0	104	23.3	99	88	42	5	0	2	0	
LA BATON ROUGE	89	72	93	71	81	-1	-.1	-.1	.1	3.0	59	38.3	125	98	61	5	0	2	0	
LAKE CHARLES	89	76	91	73	82	1	.2	-.1	.2	9.9	180	40.5	156	94	52	2	0	1	0	
NEW ORLEANS	93	74	95	72	83	2	.5	-.9	.5	5.0	77	33.2	106	98	51	6	0	2	0	
SHREVEPORT	92	74	93	70	83	2	.2	-.9	.1	15.7	340	38.6	144	96	47	7	0	0	0	

Based on 1961-90 normals.

Weather Data for the Week Ending July 3, 1993

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	
																		.50 INCH OR MORE	.01 INCH OR MORE
ME CARIBOU	74	53	82	43	63	-1	1.3	.5	.5	4.9	149	17.9	115	84	53	0	0	3	1
PORTLAND	78	58	87	49	68	.2	.2	-.6	.1	3.0	80	22.8	103	88	38	0	0	3	0
MD BALTIMORE	87	69	96	65	78	.3	.3	-.5	.2	2.8	70	23.8	117	86	47	3	0	2	0
SALISBURY	87	68	94	62	78	.3	.3	-.9	.0	2.4	60	25.9	117	99	59	3	0	3	1
MA BOSTON	78	63	92	56	71	-1	.5	-.2	.4	2.1	62	22.8	108	83	50	1	0	4	0
CHATHAM	71	58	76	57	64	.0	1.0	-.2	.8	2.6	73	20.6	91	96	43	0	0	3	1
MI ALPENA	76	51	85	44	64	.0	.0	-.7	.0	3.9	118	12.1	90	99	46	0	0	0	0
DETROIT	78	60	85	52	69	.6	.6	-.2	.5	6.2	158	18.1	114	90	40	0	0	3	1
FLINT	78	56	85	47	67	.2	.2	-.7	.0	5.2	150	16.7	120	89	45	0	0	0	0
GRAND RAPIDS	77	59	86	55	68	.2	.2	-.6	.1	6.2	154	21.0	128	91	46	0	0	4	0
HOUGHTON LAKE	75	55	86	48	65	.1	.1	-.5	.1	4.9	148	13.6	106	91	42	0	0	3	0
LANSING	77	56	85	47	67	.1	.1	-.6	.1	6.5	180	18.9	132	99	61	0	0	2	0
MARQUETTE	69	49	76	40	59	.0	.0	-.7	.1	2.5	65	15.2	94	86	45	0	0	1	0
MUSKOGON	78	60	85	58	69	.3	.3	-.2	.2	4.6	180	16.7	116	89	45	0	0	2	0
SAULT ST. MARIE	71	48	77	41	59	.0	.0	-.6	.0	3.8	111	14.9	100	95	43	0	0	1	0
MN ALEXANDRIA	68	54	76	47	61	.8	2.5	1.6	.6	6.0	135	15.9	127	94	64	0	0	3	1
DULUTH	64	49	74	42	56	.7	1.6	1.7	.8	8.5	202	18.3	136	89	52	0	0	5	2
INT'L FALLS	67	49	76	38	58	.7	1.1	1.1	.6	3.1	71	8.7	79	93	47	0	0	4	1
MINNEAPOLIS	73	58	78	51	65	.7	2.7	1.8	1.4	8.8	199	17.7	126	85	51	0	0	3	2
ROCHESTER	74	56	79	51	65	.4	2.5	1.6	1.7	9.1	222	22.9	169	92	42	0	0	4	2
MS GREENWOOD	93	74	97	72	84	.3	.3	-.1	.0	1.3	28	25.4	84	97	55	6	0	0	0
JACKSON	92	73	94	71	82	.2	.2	-.8	.0	3.8	106	24.2	79	96	54	6	0	1	0
MERIDIAN	93	71	96	70	82	.2	.2	-.1	.0	3.5	85	32.4	103	95	46	6	0	1	0
MO CAPE GIRARDEAU	93	72	95	67	83	.4	.4	-.1	.4	4.9	128	25.6	104	90	52	7	0	2	0
COLUMBIA	87	68	92	66	78	.2	1.8	-.9	.9	8.2	192	25.1	131	96	49	1	0	4	2
KANSAS CITY	89	70	92	68	79	.9	4.1	3.1	1.3	7.5	145	25.8	143	91	44	4	0	4	4
SAINT LOUIS	90	71	93	68	80	.0	1.5	-.6	1.1	7.3	178	27.0	142	86	48	3	0	3	1
SPRINGFIELD	88	69	90	66	79	.3	.7	-.3	.6	9.4	170	25.0	115	93	49	1	0	2	1
MT BILLINGS	77	53	92	50	65	.5	3.1	2.8	2.2	4.7	220	8.2	90	83	33	1	0	6	1
GLASGOW	76	51	82	48	64	.4	1.0	-.6	.9	1.9	81	4.2	72	83	36	0	0	3	1
GREAT FALLS	69	48	83	44	58	.0	1.0	-.6	.6	3.1	124	12.0	133	85	42	0	0	4	1
HAVRE	73	52	86	49	63	.5	.2	-.2	.1	4.4	20	3.2	52	86	35	0	0	3	0
HELENA	70	48	85	41	59	.0	1.4	1.0	.6	3.9	194	9.6	146	86	39	0	0	4	2
KALISPELL	67	47	76	43	57	.7	1.3	-.9	.6	4.3	181	11.3	126	92	46	0	0	5	1
MILES CITY	79	55	88	52	67	.7	2.2	1.7	1.1	6.5	218	11.5	139	93	44	0	0	6	2
MISSOULA	69	45	80	36	57	.5	.6	-.3	.4	2.0	106	8.1	105	91	43	0	0	3	0
NE GRAND ISLAND	86	65	94	58	75	.0	1.2	-.4	.7	6.0	141	14.5	107	95	48	2	0	4	1
LINCOLN	87	68	91	58	77	.1	.3	-.5	.3	5.8	138	16.4	115	94	60	2	0	1	0
NORFOLK	84	63	92	60	74	.0	1.8	-.9	.8	7.3	151	17.5	126	88	38	2	0	4	1
NORTH PLATTE	87	61	96	55	74	.2	.2	-.6	.1	6.2	168	13.3	119	90	34	2	0	3	0
OMAHA	82	67	89	62	75	.0	.9	-.1	.4	8.8	208	20.4	137	89	53	0	0	4	0
SCOTTSSBLUFF	86	58	93	53	72	.1	.1	-.5	.1	5.6	193	11.9	129	91	27	1	0	1	0
VALENTINE	84	59	90	54	71	.6	.6	-.2	.4	4.2	110	11.0	94	93	48	1	0	4	0
NV ELY	83	41	90	36	62	.2	.0	-.2	.0	1.2	123	6.9	127	74	12	1	0	0	0
LAS VEGAS	105	78	109	73	91	.0	.0	.0	.0	.1	57	4.4	221	32	8	7	0	0	0
RENO	85	50	91	47	68	.0	.0	-.1	.0	.0	70	4.9	112	68	15	1	0	0	0
WINNEMUCCA	84	45	93	34	64	.0	.0	-.1	.0	1.0	114	6.0	126	71	15	1	0	0	0
NH CONCORD	81	56	87	46	68	.0	.2	-.5	.2	2.1	61	13.0	75	94	43	0	0	2	0
NJ ATLANTIC CITY	82	64	89	61	73	.0	.9	-.2	.5	1.6	55	20.0	100	98	40	0	0	4	0
NM ALBUQUERQUE	99	68	100	66	83	.6	.6	-.2	.0	2.4	63	3.4	109	50	12	7	0	0	0
CLOVIS	94	66	99	62	80	.4	.4	-.6	.0	2.1	68	4.2	58	83	25	5	0	0	0
ROSWELL	98	71	104	68	84	.4	.4	-.4	.0	.6	32	3.1	69	77	21	7	0	0	0
NY ALBANY	81	59	85	56	70	.0	.3	-.5	.2	2.9	75	19.8	111	87	36	0	0	4	1
BINGHAMTON	74	55	80	51	64	-.3	1.0	-.2	.6	4.3	108	21.9	122	89	43	0	0	3	0
BUFFALO	77	59	82	53	68	-.1	.2	-.6	.1	5.0	131	18.7	106	80	40	0	0	3	0
NEW YORK	82	68	92	65	75	1	1.3	-.5	.8	2.6	65	21.2	101	83	41	1	0	3	1
ROCHESTER	78	57	86	49	68	0	.5	-.2	.2	2.8	87	13.5	89	99	46	0	0	3	0
SYRACUSE	80	56	86	51	68	0	1.2	-.3	.7	3.6	86	21.6	120	93	39	0	0	3	0
NC ASHEVILLE	88	63	91	58	76	.3	.5	-.6	.3	1.1	21	21.0	74	94	39	2	0	2	0
CHARLOTTE	95	72	98	68	83	.5	.3	-.5	.3	.5	12	21.6	97	82	37	6	6	0	1
GREENSBORO	91	67	93	63	79	.3	1.7	-.7	1.3	4.8	114	28.5	134	88	41	5	5	0	0
HATTERAS	88	73	90	71	81	.4	.4	-.1	.0	3.2	69	25.4	99	90	57	1	7	0	1
NEW BERN	92	72	94	71	82	.4	.8	-.7	.8	4.8	79	26.5	101	94	53	1	0	1	0
RALEIGH	91	68	94	64	80	.3	.4	-.5	.2	.7	16	21.7	101	92	43	5	5	0	2
WILMINGTON	90	73	93	70	81	.3	1.4	-.0	.8	3.7	67	27.4	105	98	60	0	0	2	2
ND BISMARCK	73	51	81	42	62	-.6	4.7	4.1	2.7	7.4	251	12.0	142	94	45	0	0	3	1
FARGO	72	55	81	47	63	-.6	1.0	.3	.6	4.6	147	9.8	102	89	46	0	0	3	0
GRAND FORKS	70	53	80	48	61	-.6	1.1	.4	.5	4.4	142	7.1	82	92	59	0	0	4	1
WILLISTON	73	48	83	39	60	-.8	2.8	2.3	1.8	6.1	245	8.6	116	93	42	0	0	3	1
OH AKRON-CANTON	79	61	85	52	70	.0	.9	.1	.6	5.8	163	21.1	116	93	49	0	0	6	0
CINCINNATI	86	66	89	60	76	.2	.9	.0	.3	5.4	127	21.7	100	91	50	0	0	3	0
CLEVELAND	79	61	86	52	70	.0	1.0	.2	.9	5.2	130	20.9	117	85	42	0	0	3	1
COLUMBUS	82	64	87	61	73	1	4.4	3.6	2.9	6.6	159	23.0	121	91	39	0	0	5	2
DAYTON	82	64	90	61	73	0	4.4	3.6	1.7	8.1	194	29.4	153	93	48	1	0	5	3

Based on 1961-90 normals.

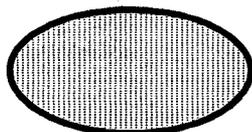
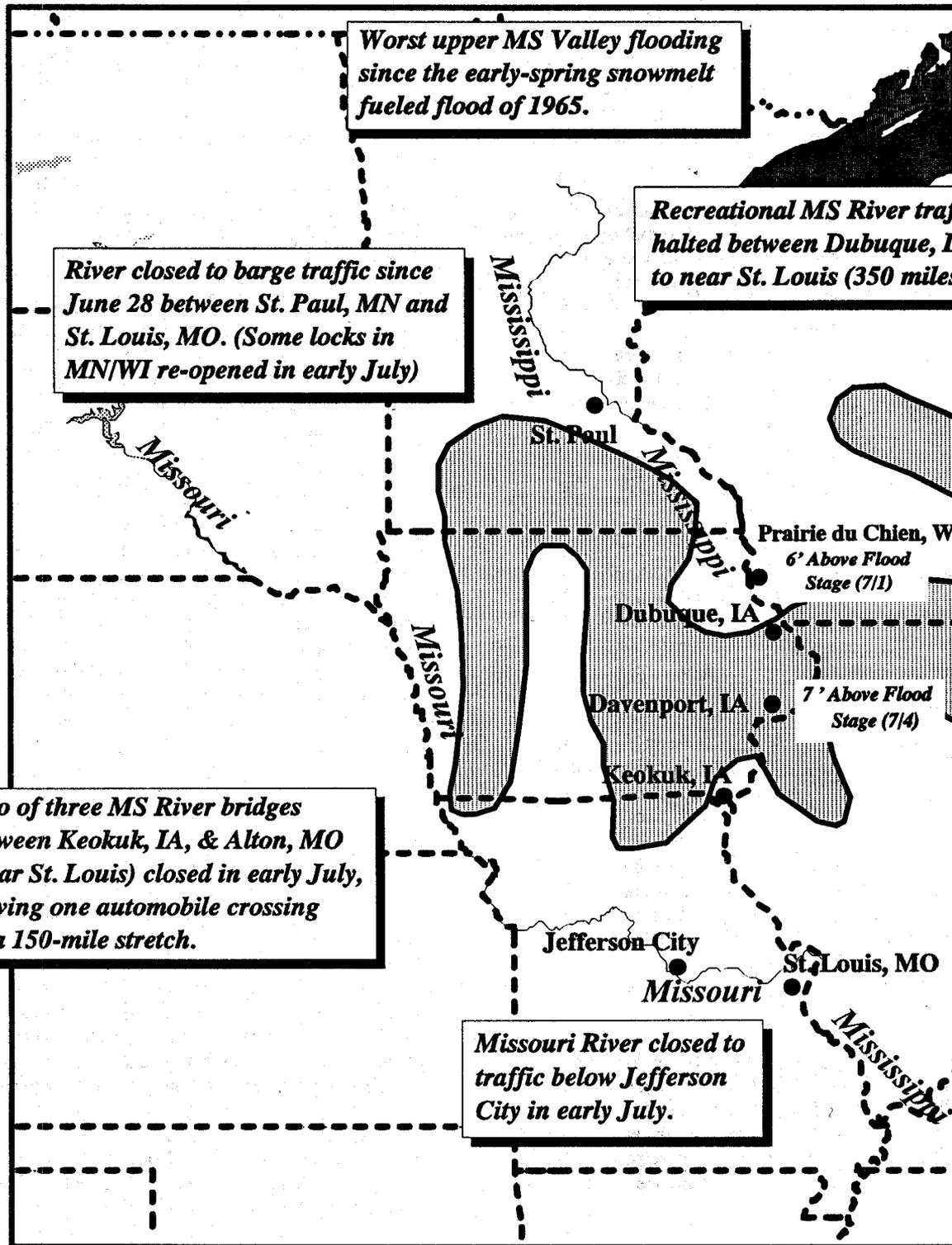
Weather Data for the Week Ending July 3, 1993

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		
TOLEDO	79	62	85	53	70	-1	.3	-.5	.1	4.8	117	17.3	108	91	55	0	0	0	0	4	0	
YOUNGSTOWN	80	60	87	51	70	1	.3	-.7	.1	4.1	95	17.8	97	89	45	0	0	0	0	4	0	
OK OKLAHOMA CITY	91	74	93	68	83	0	.0	-.8	.0	2.6	56	23.4	130	86	48	6	6	0	0	0	0	
TULSA	91	76	92	69	83	0	.0	-.8	.0	3.8	79	22.9	109	84	55	0	0	0	0	0	0	
OR ASTORIA	64	53	67	48	58	0	.1	-.3	.1	3.7	145	31.9	92	96	61	0	0	0	0	4	0	
BURNS	71	39	77	34	55	0	.1	-.3	.1	.6	70	7.2	136	84	32	0	0	0	0	0	0	
MEDFORD	79	49	85	43	64	0	.0	-.1	.0	1.2	202	11.0	119	87	30	0	0	0	0	0	0	
PENDLETON	73	54	78	48	63	0	.1	-.1	.1	.8	116	8.2	125	72	29	0	0	0	0	1	0	
PORTLAND	71	56	75	53	64	0	.1	-.1	.1	1.7	110	19.6	104	86	42	0	0	0	0	2	0	
SALEM	74	52	79	48	63	-1	.1	-.2	.1	3.2	229	24.0	118	87	38	0	0	0	0	1	0	
PA ALLENTOWN	82	65	89	55	74	2	1.1	-.2	1.1	5.2	125	24.8	117	89	48	0	0	0	0	3	1	
ERIE	79	64	85	55	71	2	.6	-.7	.2	3.9	89	16.5	89	93	62	0	0	0	0	3	1	
HARRISBURG	82	66	91	64	79	2	.6	-.2	.5	3.9	97	20.5	107	88	43	0	0	0	0	4	0	
PHILADELPHIA	87	70	94	68	74	5	.9	-.1	.8	2.3	50	20.6	90	94	53	1	0	0	0	3	1	
PITTSBURGH	81	63	85	57	72	1	.6	-.2	.5	3.9	97	20.5	107	88	43	0	0	0	0	4	0	
SCRANTON	80	61	85	59	71	0	.4	-.6	.3	2.2	50	18.1	102	89	37	0	0	0	0	4	0	
RI PROVIDENCE	80	63	89	53	72	2	.5	-.2	.4	1.8	49	22.5	98	89	53	0	0	0	0	3	0	
SC CHARLESTON	91	73	94	71	82	2	1.0	-.6	1.0	3.7	52	26.9	108	93	53	7	7	0	0	1	1	
COLUMBIA	95	71	101	68	83	3	1.0	-.2	.8	1.5	28	22.9	89	93	40	7	7	0	0	3	1	
FLORENCE	96	72	100	71	84	4	.1	-.1	.1	1.5	30	16.7	75	93	40	7	7	0	0	3	1	
GREENVILLE	94	66	98	63	80	3	.1	-.1	.1	2.2	3	27.2	99	86	34	7	7	0	0	1	1	
SD ABERDEEN	75	56	84	48	66	-5	2.4	1.6	1.8	6.8	185	13.0	121	92	53	0	0	0	0	3	2	
HURON	78	59	89	53	68	-4	2.8	2.0	1.2	8.2	224	17.1	151	93	49	0	0	0	0	4	3	
RAPID CITY	78	54	85	50	66	-3	.4	-.2	.3	3.8	114	11.1	113	91	40	0	0	0	0	5	0	
SIoux FALLS	79	61	90	55	70	-3	3.0	2.3	1.5	8.0	217	22.4	187	91	50	1	1	0	0	5	3	
TN CHATTANOOGA	94	69	96	64	82	4	.4	-.6	.2	1.6	41	24.6	87	94	43	7	7	0	0	2	2	
KNOXVILLE	91	69	94	59	80	4	.2	-.9	.1	.9	20	19.6	77	88	42	6	6	0	0	2	2	
MEMPHIS	89	72	94	68	83	1	1.3	-.5	1.1	4.2	107	24.1	86	90	51	7	7	0	0	3	1	
NASHVILLE	92	71	92	65	80	2	.1	-.7	.1	5.3	134	24.5	96	85	49	4	4	0	0	1	0	
TX ABILENE	93	73	94	68	83	2	.0	-.6	.0	3.8	124	9.8	86	84	37	7	7	0	0	0	0	
AMARILLO	92	68	98	65	80	2	.0	-.7	.0	2.8	70	7.5	79	80	33	5	5	0	0	1	0	
AUSTIN	91	76	92	74	84	1	.0	-.6	.0	4.0	101	20.9	122	90	49	6	6	0	0	0	0	
BEAUMONT	92	76	93	74	84	1	.2	-.1	.2	9.3	152	39.9	149	97	56	7	7	0	0	1	0	
BROWNSVILLE	91	77	91	76	84	0	.0	-.5	.0	6.7	229	17.1	161	91	64	7	7	0	0	1	0	
CORPUS CHRISTI	90	76	91	75	83	0	.0	-.7	.0	12.0	330	28.4	213	95	60	5	5	0	0	0	0	
DEL RIO	93	74	95	71	84	1	.0	-.5	.0	5.3	174	9.1	75	86	47	7	7	0	0	0	0	
EL PASO	96	73	102	69	85	2	.0	-.3	.0	1.5	186	3.3	137	66	25	6	6	0	0	0	0	
FORT WORTH	94	76	95	73	85	3	.0	-.6	.0	3.8	106	19.5	99	86	46	7	7	0	0	0	0	
GALVESTON	90	81	91	76	85	3	.0	-.9	.0	3.3	69	30.0	161	78	69	5	5	0	0	1	0	
HOUSTON	93	76	94	74	85	3	.5	-.8	.4	12.1	183	43.3	167	90	48	7	7	0	0	2	1	
LUBBOCK	93	69	99	66	81	1	3.1	2.5	3.0	3.8	127	8.8	107	82	35	5	5	0	0	2	1	
MIDLAND	94	72	95	66	83	2	.0	-.3	.0	3.1	201	7.5	125	79	38	7	7	0	0	0	0	
SAN ANGELO	94	74	95	69	84	3	.0	-.4	.0	.9	38	8.3	84	78	37	7	7	0	0	0	0	
SAN ANTONIO	93	76	94	75	85	0	.0	-.7	.0	6.4	158	27.3	173	87	48	7	7	0	0	0	0	
SAN ANTONIO	93	76	94	75	85	0	.0	-.7	.0	6.4	158	27.3	173	87	48	7	7	0	0	0	0	
VICTORIA	91	76	92	75	83	1	.0	-.1	.0	11.4	226	40.1	194	95	52	6	6	0	0	0	0	
WACO	94	76	96	73	85	1	.0	-.6	.0	2.2	61	18.5	106	91	45	7	7	0	0	0	0	
WICHITA FALLS	94	75	95	70	84	2	.0	-.6	.0	3.2	78	19.0	111	86	41	7	7	0	0	0	0	
UT CEDAR CITY	89	53	93	47	71	0	.0	-.2	.0	.7	147	7.5	140	40	10	4	4	0	0	0	0	
SALT LAKE CITY	85	57	95	51	71	-3	.1	-.1	.1	1.2	123	12.7	138	64	20	3	3	0	0	1	0	
VT BURLINGTON	81	58	84	52	69	1	.1	-.7	.1	3.4	88	14.9	97	86	39	0	0	0	0	2	0	
VA NORFOLK	89	70	95	66	79	3	.5	-.5	.3	3.1	72	22.7	103	89	52	3	3	0	0	3	0	
RICHMOND	91	67	97	62	79	3	.2	-.8	.2	1.9	48	24.4	117	87	41	3	3	0	0	1	0	
ROANOKE	88	64	92	58	76	2	.7	-.1	.6	3.2	90	23.5	118	90	39	2	2	0	0	3	1	
WA QUELLAYUTE	64	52	66	48	58	0	.3	-.3	.1	3.7	110	42.5	78	97	52	0	0	0	0	5	0	
SEATTLE-TACOMA	68	53	72	52	61	-3	.4	-.1	.3	2.6	164	19.3	104	91	42	0	0	0	0	4	0	
SPOKANE	68	48	74	43	58	-8	.1	-.1	.1	.5	36	7.2	80	82	37	0	0	0	0	2	0	
YAKIMA	75	46	79	41	61	-7	.0	-.1	.0	.7	129	3.9	93	81	32	0	0	0	0	0	0	
WV BECKLEY	81	60	83	49	71	2	1.1	-.1	.7	3.5	82	20.9	100	94	45	0	0	0	0	5	1	
CHARLESTON	86	64	89	57	75	1	1.8	.8	.8	5.7	141	21.0	101	99	47	0	0	0	0	6	2	
HUNTINGTON	87	66	89	58	76	4	2.0	1.0	.6	5.9	152	22.0	104	96	46	0	0	0	0	5	3	
PARKERSBURG	84	64	88	58	74	1	.8	-.2	.2	3.1	74	20.7	97	97	58	0	0	0	0	6	0	
WI GREEN BAY	75	57	83	52	66	-2	.6	-.2	.4	7.4	201	18.2	138	88	45	0	0	0	0	2	0	
LACROSSE	77	59	82	56	68	-4	2.1	1.2	1.2	7.5	176	24.4	171	88	54	0	0	0	0	3	2	
MADISON	78	58	89	52	68	-2	1.2	.3	.6	6.8	166	22.1	148	91	43	0	0	0	0	6	1	
MILWAUKEE	73	61	85	56	67	-2	1.2	.4	.6	6.8	192	21.9	140	83	49	0	0	0	0	3	1	
WAUSAU	74	54	80	48	64	-5	.5	-.4	.4	8.7	199	21.6	149	92	51	0	0	0	0	2	0	
WY CASPER	85	51	94	49	68	0	.0	-.3	.0	2.8	174	10.2	139	82	19	3	3	0	0	1	0	
CHEYENNE	83	53	88	50	68	0	.0	-.5	.0	3.3	146	9.5	122	75	23	0	0	0	0	2	0	
LANDER	80	49	89	42	65	-3	.0	-.2	.0	5.0	318	11.5	141	70	22	0	0	0	0	1	0	
SHERIDAN	77	49	85	43	63	-4	.4	.0	.2	3.9	162	10.4	117	90	39	0	0	0	0	2	0	

Based on 1961-90 normals.

Mississippi River Flood

As of July 6, 1993



> 200% of Normal
 June Rainfall

June Weather and Crop Summary

Weather

An unusually rich supply of north Pacific energy and a stalwart ridge of high pressure over the Southeast combined to produce rare summer flooding in the upper Mississippi Valley. Across the western Corn Belt, June rainfall of 8 to 12 inches was the culminating event in a year-long spate of surplus precipitation. Sioux Falls, SD registered its wettest 12-month period on record (42.20 inches).

Other by-products of the unusual weather regime included crop-withering heat and dryness in the Southeast and out-of-season rainfall in California. In addition, Tropical Storm Arlene and other disorganized tropical moisture was steered into the western Gulf Coast States by the high pressure ridge.

Temperatures averaged 2 to 5°F below normal along the primary storm track from the Great Basin to the northern Plains, but reached levels of 2 to 4°F above normal in the Southeast.

On June 1, a tropical depression passed southeast of southern Florida, helping to ease a 6-week dry spell. But intense heat arrived across the interior Southeast a week later, severely stressing corn and various ground crops, including peanuts and watermelons. Meanwhile, a storm thrashed the West, dumping more than 2 inches of rain in California's northern Sacramento Valley and breaking 24-hour June rainfall records in locations such as Los Angeles and Sacramento, CA. Snow accumulated as far south as California's San Gabriel mountains, and more than 10 inches blanketed higher elevations from the Sierras to Utah's Wasatch range.

At mid-month, a series of cold fronts dumped 2 to 7 inches of rain across the western Corn Belt. The upper Mississippi River and its tributaries, already running near bankfull, surged above flood stage. Continuing rains through early July resulted in a broad, flat crest on the Mississippi River that reached northeastern Iowa by the end of June. A sampling of June rainfall records includes nearly 12 inches at Rockford, IL, more than 13 inches at Moline, IL, and almost 11 inches in South Bend, IN. Waterloo, IA recorded more than 10 inches of rain in June en route to its wettest first half of a year on record (25.77 inches). La Crosse, WI noted its fifth wettest month (any month) this century.

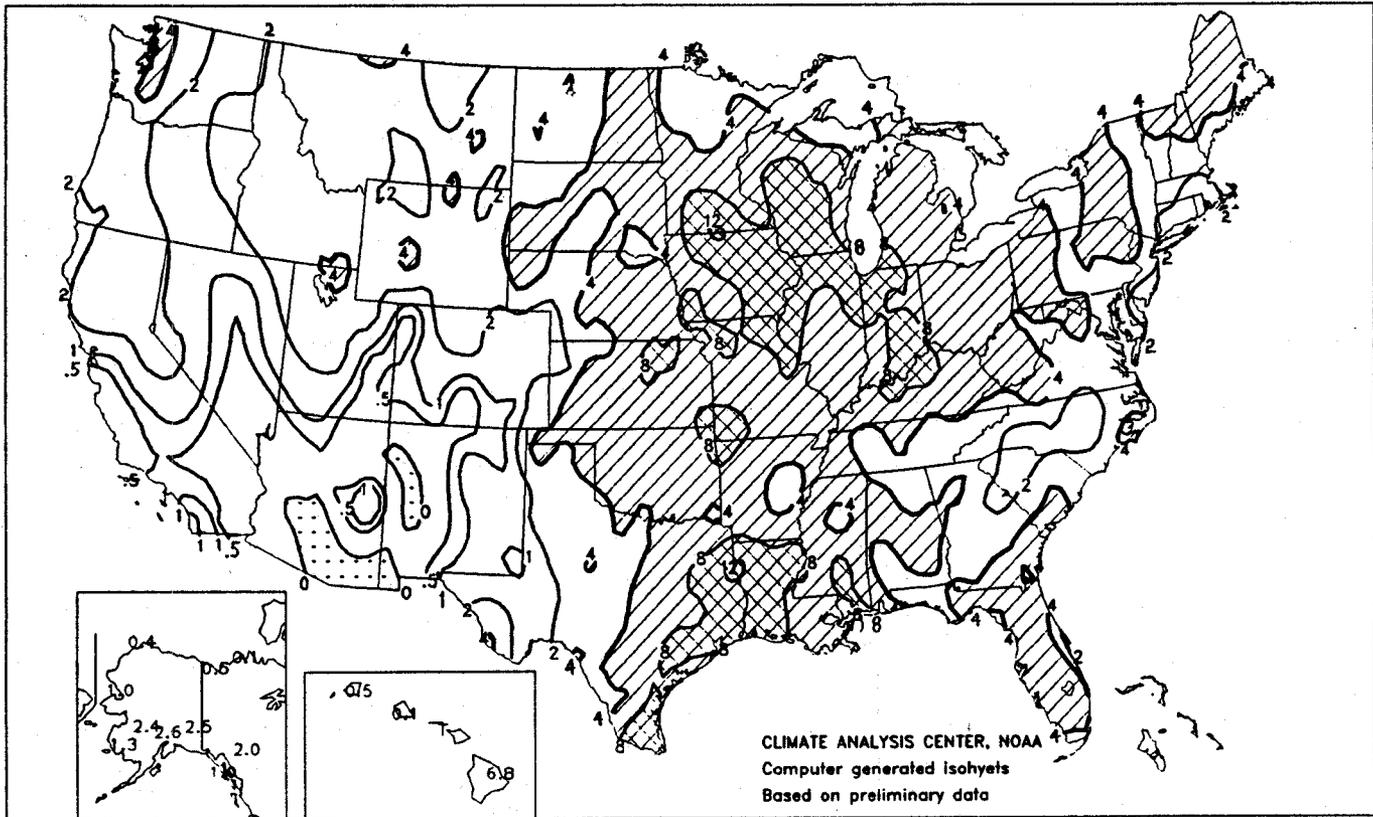
In contrast, record June dryness enveloped the Southeast. Less than one-third of an inch of rain fell at Raleigh-Durham, NC, Charlotte, NC, and Greenville-Spartanburg, SC. But farther west, Tropical Storm Arlene arrived in Texas on June 20, contributing heavily to large monthly precipitation values. Shreveport, LA collected more than 13 inches of rain in less than 1 week.

Fieldwork

Early June rains over the central portion of the Nation delayed planting and flooded emerged crops. Rain also occurred along the Pacific coast, hampering harvest activities. Scattered rains over the central portion of the Nation for the remainder of the month caused flooding and damage to crops along many rivers and in low-lying fields. The rest of the Nation turned dry. By the end of the month, crops in the Southeast were stressed by the hot, dry conditions, while crops in the upper Midwest suffered from excessive moisture. At the beginning of June, winter wheat harvesting had begun. Hot, dry conditions in the Southeast and Texas allowed harvest to forge ahead of last year and normal. In other areas, however, the late-maturing crop delayed progress. Nationally, harvest progress at the end of June was about 1 week behind average. Winter wheat condition at the end of the month declined slightly from the beginning of the period due to continued damp conditions, especially in the Midwest. The spring wheat crop started the month in good to excellent condition. Ample moisture and favorable temperatures slightly improved the condition by the end of June. Due to the relative lateness of the planting, crop progress remained behind last year and average. Corn planting was finally completed by mid-June. The crop grew rapidly in the warm, moist conditions, but excessive rains at the end of the month caused damage to the crop in the central Corn Belt. Hot, dry conditions damaged some of the crop in the Southeast. The corn crop in the eastern Corn Belt enjoyed favorable growing conditions. By the end of the month, the corn condition was mostly fair to good, although decreasing in the rain-soaked areas of Iowa, Illinois, and Minnesota. The continued wet conditions across the upper and middle Mississippi Valley and excessive dryness in the South hindered soybean planting. Significant acreage in Iowa, South Dakota, Minnesota, Missouri, and Mississippi was still left to be planted at the end of the month. Although the crop condition at the end of June was fair to good, it was declining due to the excessive moisture in the central portion of the Nation. Early June saw the completion of cotton planting. Cool weather, which had hindered growth early in the month, gave way to hot, dry conditions promoting growth. The end of June saw cotton progress near normal, with the crop in good condition except in the Southeast, where some cotton is in poor condition due to excessive dryness. Sorghum planting neared completion by the end of June, after having been delayed by wet weather. Crop progress was normal in Texas and New Mexico but behind normal in the lower Mississippi Valley due to excessive moisture. Crop condition the end of June was good. Rice planting reached completion by mid-June. The end of June saw the crop in fair to good condition.

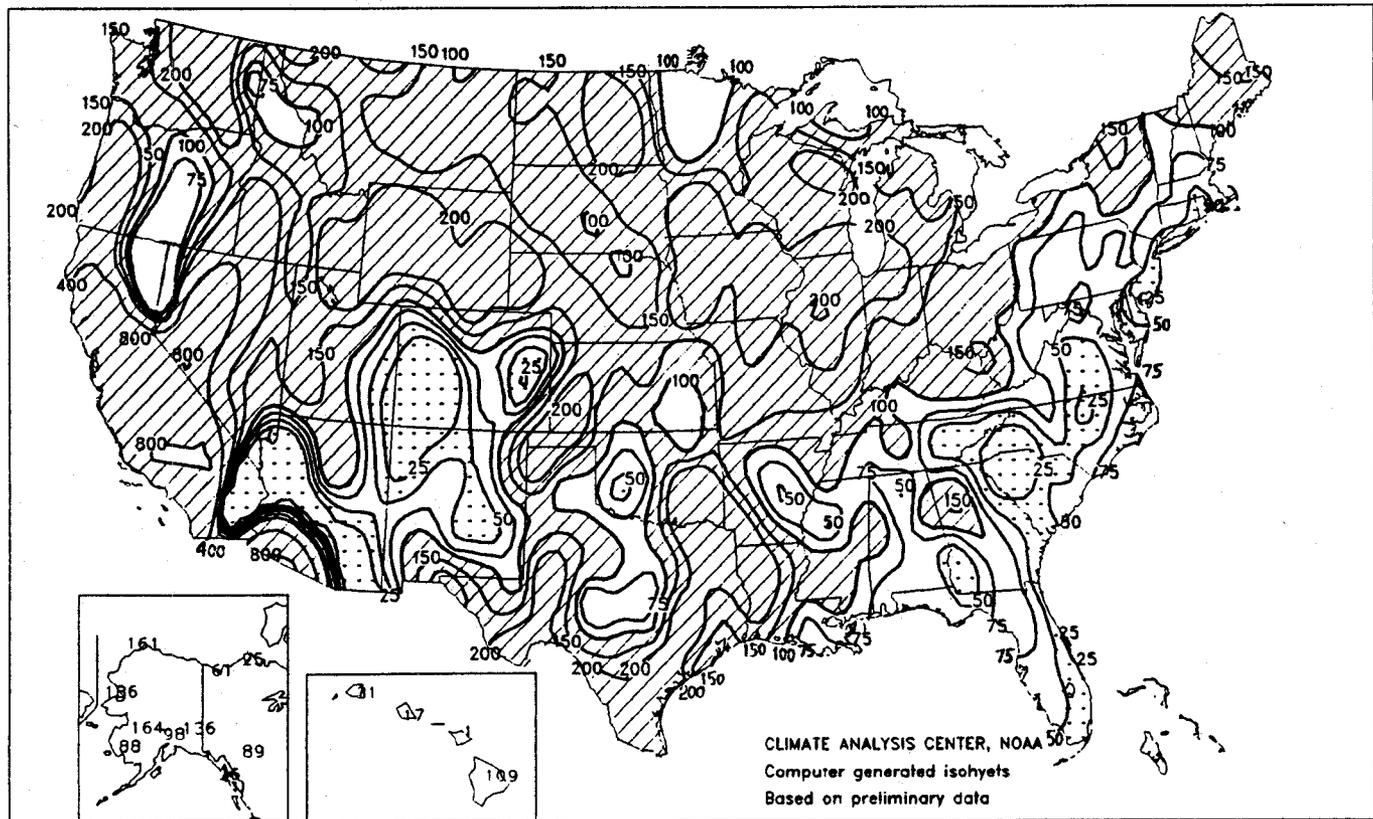
TOTAL PRECIPITATION (inches)

JUN 1993



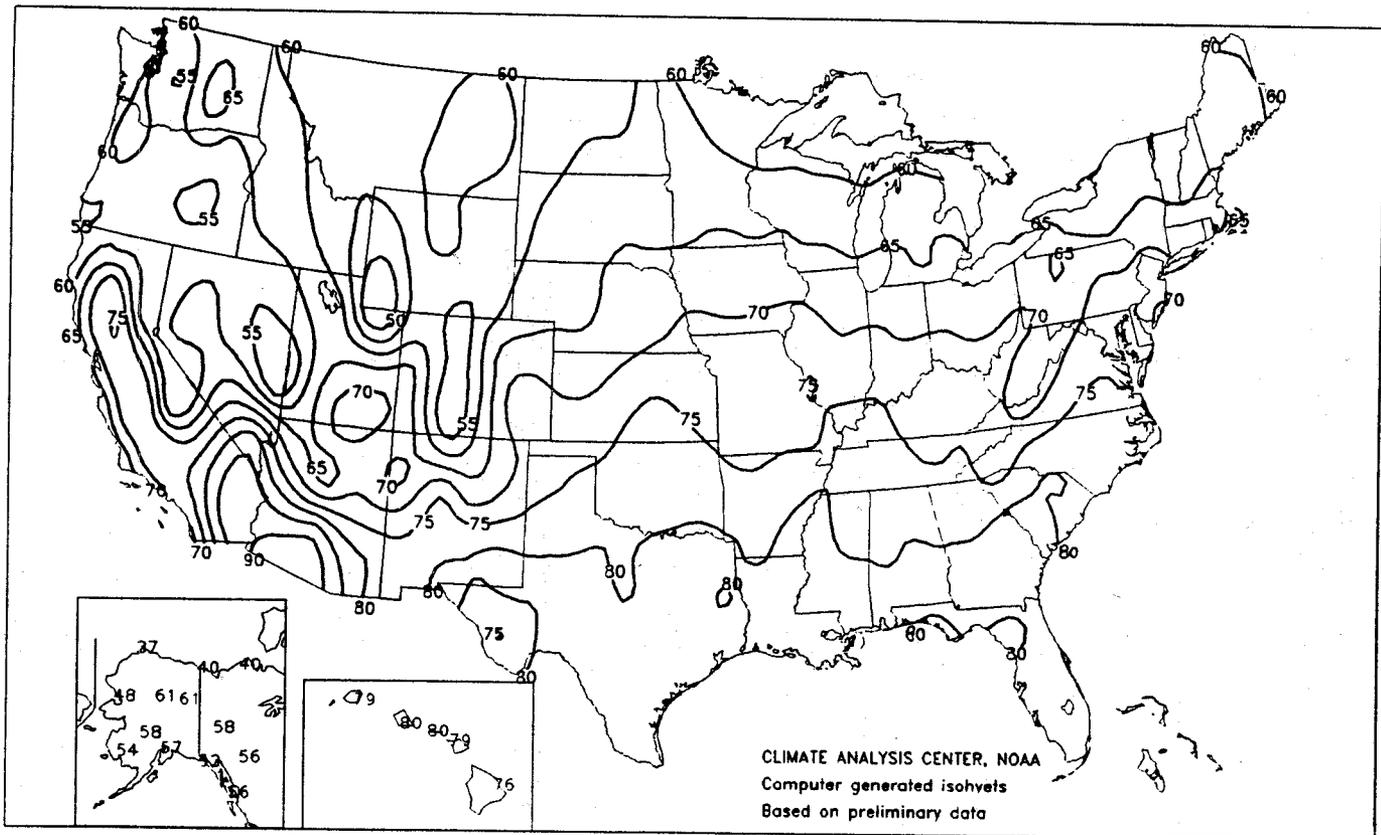
PERCENT OF NORMAL RAINFALL

JUN 1993



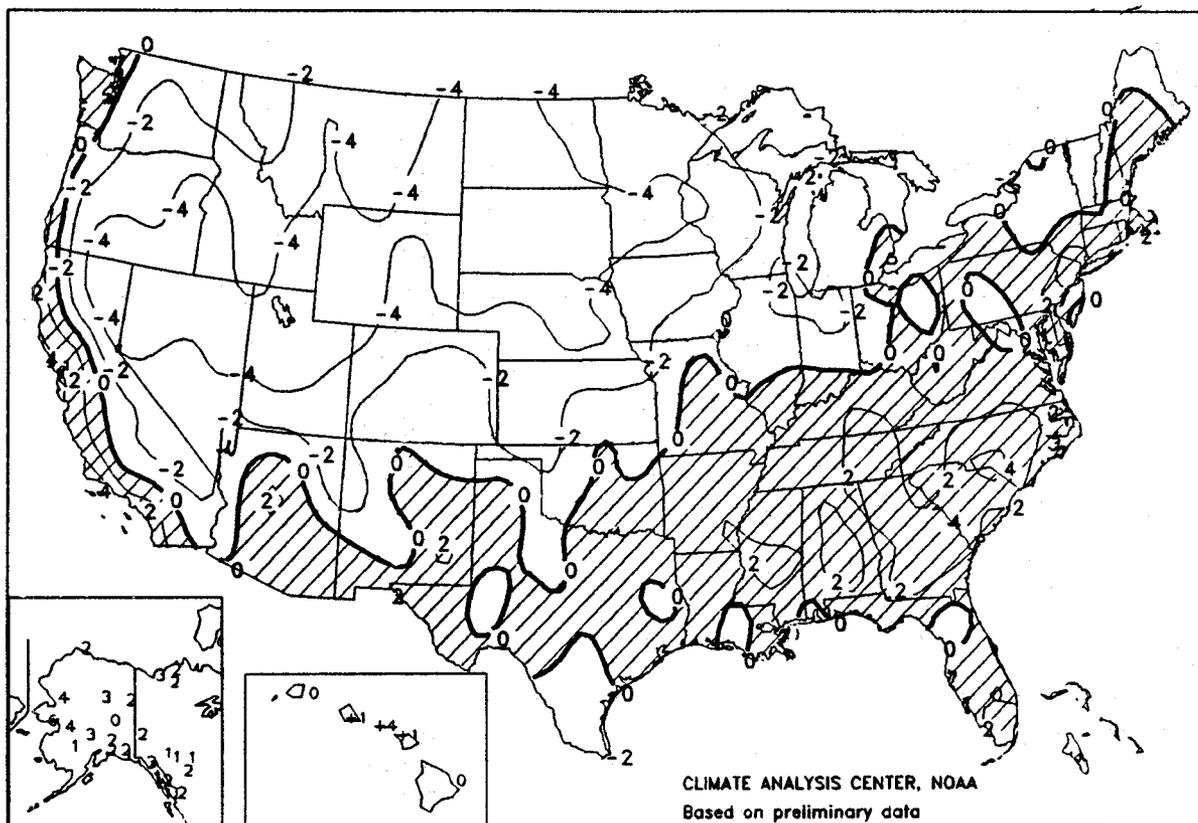
AVERAGE TEMPERATURE(°F)

JUN 1993



Departure of Average Temperature from Normal(°F)

JUN 1993



TEMPERATURE AND PRECIPITATION SUMMARY

June 1993

STATES AND STATIONS	Temp. °F		Precip.		STATES AND STATIONS	Temp. °F		Precip.		STATES AND STATIONS	Temp. °F		Precip.	
	AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE
AL BIRMINGHAM	78	2	1.5	-2.3	LA BATON ROUGE	80	-1	3.0	-1.5	OK YOUNGSTOWN	66	0	4.0	0.1
AL HUNTSVILLE	77	2	1.6	-2.1	LA LAKE CHARLES	80	0	9.8	4.9	OK OKLAHOMA CITY	77	0	2.6	-1.7
AL MOBILE	80	0	3.0	-2.0	LA NEW ORLEANS	80	1	5.0	-0.9	OK TULSA	77	-1	3.8	-0.6
AL MONTGOMERY	80	3	2.9	-2.1	ME SHREVEPORT	80	1	15.7	11.4	OR ASTORIA	58	1	3.7	1.3
AK ANCHORAGE	56	2	0.2	-1.0	ME CARIBOU	60	-1	4.5	1.6	OR BURNS	55	-3	0.6	-0.2
AK BARROW	36	3	0.4	0.2	ME PORTLAND	65	2	2.9	-0.6	OR MEDFORD	64	-3	1.2	0.6
AK FAIRBANKS	62	2	1.2	-0.2	MD BALTIMORE	72	0	2.6	-1.1	OR PENDELTON	63	-3	0.7	0.1
AK JUNEAU	56	3	4.9	1.8	MD SALISBURY	73	1	2.4	-1.2	OR PORTLAND	62	-1	1.7	0.2
AK KODIAK	51	1	3.5	-1.3	MA BOSTON	69	2	1.8	-1.3	OR SALEM	61	0	3.2	1.8
AK NOME	52	6	0.4	-0.7	MA CHATHAM	62	1	2.4	-0.8	PA ALLENTOWN	71	1	4.1	0.3
AZ FLAGSTAFF	60	-1	0.6	0.0	MI ALPENA	60	-2	3.9	0.9	PA ERIE	68	2	3.9	-0.2
AZ PHOENIX	90	1	T	-0.1	MI DETROIT	67	0	6.0	2.4	PA HARRISBURG	73	2	2.5	-1.4
AZ PRESCOTT	69	2	0.1	-0.4	MI FLINT	66	0	5.2	2.0	PA PHILADELPHIA	74	3	1.5	-2.2
AZ TUCSON	85	1	T	-0.2	MI GRAND RAPIDS	65	-2	6.0	2.4	PA PITTSBURGH	69	1	3.4	-0.4
AZ WINSLOW	70	-1	0.0	-0.4	MI HOUGHTON LAKE	62	0	4.8	1.8	PA SCRANTON	69	2	1.8	-2.1
AR FORT SMITH	78	1	5.0	1.6	MI LANSING	65	-1	6.5	3.2	PA WILLIAMSPORT	69	1	4.0	-0.3
AR LITTLE ROCK	78	1	2.0	-2.2	MI MARQUETTE	58	-1	2.4	-1.1	RI PROVIDENCE	69	2	1.4	-1.9
CA BAKERSFIELD	77	-1	0.5	0.4	MI MUSKEGON	65	0	4.4	2.0	SC CHARLESTON	80	1	3.7	-2.7
CA BISHOP	68	-3	T	-0.1	MI SAULT ST. MARIE	56	-2	3.8	0.7	SC COLUMBIA	80	2	0.7	-4.1
CA EUREKA	58	3	1.2	0.7	MN ALEXANDRIA	62	-4	3.9	-0.2	SC FLORENCE	81	3	1.5	-3.0
CA FRESNO	76	-1	1.6	1.5	MN DULUTH	57	-3	7.0	3.1	SD GREENVILLE	76	1	0.2	-4.6
CA LOS ANGELES	68	3	0.7	0.7	MN INT'L FALLS	59	-3	2.0	-1.9	SD ABERDEEN	63	-4	6.2	2.8
CA REDDING	74	-2	0.6	0.1	MN MINNEAPOLIS	65	-4	6.3	2.2	SD HURON	64	-4	7.1	3.8
CA SACRAMENTO	72	0	1.2	1.1	MN ROCHESTER	64	-3	7.4	3.7	SD RAPID CITY	60	-4	3.4	0.3
CA SAN DIEGO	69	2	0.4	0.3	MS ST. CLOUD	62	-3	5.0	0.5	SD SIOUX FALLS	65	-3	6.4	3.0
CA SAN FRANCISCO	65	0	0.2	0.0	MS GREENWOOD	80	1	1.3	-3.0	TN BRISTOL	73	1	1.0	-2.5
CA STOCKTON	70	-1	1.4	1.3	MS JACKSON	81	3	3.8	0.6	TN CHATTANOOGA	78	3	1.6	-1.9
CO ALAMOSA	59	0	0.1	-0.5	MS MERIDIAN	80	2	3.5	-0.1	TN KNOXVILLE	76	3	0.9	-3.1
CO CO. SPRINGS	65	3	1.3	-0.7	MS TUPELO	77	0	2.7	-1.2	TN MEMPHIS	79	0	4.2	0.6
CO DENVER	66	0	1.7	-0.1	MO CAFE GIRARDEAU	76	0	4.9	1.4	TN NASHVILLE	76	0	5.3	1.7
CO GRAND JUNCTION	70	-3	T	-0.7	MO COLUMBIA	72	1	7.3	3.4	TX ABILENE	80	-1	3.8	0.9
CO PUEBLO	69	-2	1.5	0.2	MO KANSAS CITY	73	0	5.7	1.0	TX AMARILLO	74	-3	2.8	-0.9
CT BRIDGEPORT	70	2	1.4	-2.0	MO SAINT LOUIS	75	0	7.1	3.4	TX AUSTIN	81	0	4.0	0.3
CT HARTFORD	69	0	2.6	-1.1	MO SPRINGFIELD	73	1	8.7	3.6	TX BEAUMONT	82	1	9.3	3.7
DC WASHINGTON	75	0	1.7	-1.6	MT BILLINGS	62	-2	2.0	0.1	TX BROWNSVILLE	82	-1	6.7	4.0
FL APALACHICOLA	80	0	4.0	-0.6	MT GLASGOW	61	-3	2.0	-0.2	TX CORPUS CHRISTI	82	0	12.0	8.6
FL DAYTONA BEACH	80	1	2.2	-3.8	MT GREAT FALLS	56	-5	2.6	0.2	TX DEL RIO	83	1	5.3	2.4
FL FT. MYERS	83	1	6.9	-1.8	MT HAVRE	60	-4	0.3	-1.5	TX EL PASO	83	2	1.5	0.8
FL JACKSONVILLE	81	1	2.5	-2.9	MT HELENA	58	-4	3.1	1.3	TX FORT WORTH	82	3	3.8	0.5
FL KEY WEST	84	1	1.7	-3.4	MT KALISPELL	57	-1	3.5	1.2	TX GALVESTON	82	2	3.3	-1.1
FL MIAMI	83	2	3.6	-5.7	MT MILES CITY	62	-4	4.7	1.9	TX HOUSTON	82	2	12.1	6.0
FL ORLANDO	82	1	4.5	-2.8	NE MISSOULA	58	-1	1.4	-0.3	TX LAREDO	83	-3	5.3	2.6
FL TALLAHASSEE	81	1	2.9	-4.0	NE GRAND ISLAND	68	-3	4.9	1.0	TX LUBBOCK	78	1	3.8	1.0
FL TAMPA	82	1	3.2	-2.3	NE LINCOLN	69	-4	5.8	1.9	TX MIDLAND	79	0	3.1	1.7
FL WEST PALM BEACH	81	1	2.9	-5.1	NE NORFOLK	68	-3	6.4	1.9	TX SAN ANGELO	81	2	0.9	-1.4
GA ATHENS	79	2	1.4	-2.6	NE NORTH PLATTE	65	-2	6.1	2.8	TX SAN ANTONIO	82	-1	6.4	2.6
GA ATLANTA	79	3	6.0	2.5	NE OMAHA	70	-3	8.8	4.9	TX VICTORIA	81	1	11.4	6.8
GA AUGUSTA	82	4	1.5	-2.6	NE SCOTTSBLUFF	63	-4	5.6	2.9	TX WACO	82	1	2.2	-1.1
GA MACON	80	2	3.3	-0.3	NE VALENTINE	64	-6	3.9	0.5	TX WICHITA FALLS	79	0	3.2	-0.7
GA SAVANNAH	81	2	2.5	-3.2	NV ELKO	56	-6	1.4	0.5	UT BLANDING	69	0	0.1	-0.3
HI HILO	75	0	6.6	0.4	NV ELY	55	-5	1.2	0.3	UT CEDAR CITY	63	-4	0.7	0.3
HI HONOLULU	80	1	0.1	-0.4	NV LAS VEGAS	83	-2	0.1	0.0	UT SALT LAKE CITY	64	-5	1.2	0.2
HI KAHULUI	79	1	0.0	-0.3	NV RENO	62	-3	0.4	-0.1	VT BURLINGTON	65	-1	3.4	-0.1
HI LIHUE	78	1	0.6	-1.1	NH WINNEMUCCA	60	-4	1.0	0.2	VA LYNCHBURG	74	0	2.3	-1.2
ID BOISE	62	-4	2.1	1.3	NH CONCORD	65	1	2.0	-1.2	VA NORFOLK	76	2	2.8	-1.0
ID LEWISTON	64	-3	1.6	0.4	NJ ATLANTIC CITY	69	-1	1.4	-1.3	VA RICHMOND	75	1	1.8	-1.9
ID POCAATELLO	58	-5	3.0	1.9	NM ALBUQUERQUE	75	1	0.4	-0.2	VA ROANOKE	72	0	2.5	-0.7
IL CAIRO	--	--	--	--	NM CLOVIS	75	1	2.1	-0.8	WA COLVILLE	61	0	1.5	0.0
IL CHICAGO	66	-2	10.0	6.2	NM ROSWELL	80	2	0.6	-1.0	WA QUILLAYUTE	57	2	3.7	0.6
IL MOLINE	70	-1	13.2	8.9	NY ALBANY	66	-1	2.9	-0.8	WA SEATTLE-TACOMA	61	0	2.5	1.0
IL PEORIA	70	-1	5.7	1.7	NY BINGHAMTON	63	-1	4.0	0.4	WA SPOKANE	60	-2	0.5	-0.8
IL QUINCY	71	-1	5.8	2.0	NY BUFFALO	66	0	5.0	1.4	WA WALLA WALLA	65	-3	2.9	2.0
IL ROCKFORD	67	-1	11.8	7.3	NY NEW YORK	73	2	1.7	-1.9	WA YAKIMA	62	-2	0.7	0.2
IL SPRINGFIELD	72	-1	7.3	3.8	NY ROCHESTER	65	0	2.8	-0.2	WV BECKLEY	67	1	3.2	-0.7
IN EVANSVILLE	76	0	4.6	0.9	NY SYRACUSE	65	0	2.9	-0.9	WV CHARLESTON	71	0	5.0	1.4
IN FORT WAYNE	69	-2	6.1	2.5	NC ASHEVILLE	71	2	1.1	-3.7	WV ELKINS	66	2	2.1	-2.3
IN INDIANAPOLIS	71	-1	5.2	1.7	NC CHARLOTTE	79	3	0.2	-3.2	WV HUNTINGTON	72	2	5.6	2.2
IN SOUTH BEND	68	-1	10.9	6.8	NC GREENSBORO	76	2	3.1	-0.7	WV PARKERSBURG	71	0	2.7	-1.0
IA DES MOINES	69	-1	7.7	3.1	NC HATTERAS	76	1	3.2	-1.0	WI GREEN BAY	63	-2	6.8	3.4
IA DUBUQUE	66	-1	8.0	3.8	NC NEW BERN	77	1	4.8	-0.6	WI LACROSSE	66	-3	6.1	2.2
IA SIOUX CITY	68	-3	4.2	0.5	NC RALEIGH	76	2	0.3	-3.4	WI MADISON	66	-2	6.7	2.9
IA WATERLOO	69	-1	10.1	5.6	NC WILMINGTON	78	2	3.7	-1.2	WI MILWAUKEE	64	-1	6.4	3.2
KS CONCORDIA	71	-2	6.7	2.2	ND BISMARCK	60	-4	4.6	1.8	WI WAUSAU	62	-3	8.3	4.3
KS DODGE CITY	72	-2	3.2	0.1	ND FARGO	63	-2	4.3	1.5	WY CASPER	60	-2	2.8	1.3
KS GOODLAND	67	-2	1.9	-1.3	ND GRAND FORKS	62	-2	4.2	1.3	WY CHEYENNE	59	-2	3.3	1.2
KS TOPEKA	73	-1	2.2	-3.4	ND WILLISTON	59	-6	3.8	1.5	WY LANDER	59	-4	5.0	3.5
KS WICHITA	74	0	4.4	-1.1	OH AKRON-CANTON	67	-1	5.5	2.3	WY SHERIDAN	58	-3	3.6	1.4
KY BOWLING GREEN	74	0	2.8	-1.3	OH CINCINNATI	71	0	4.8	1.0	PR SAN JUAN	83	1	5.5	1.5
KY JACKSON	72	0	4.8	--	OH CLEVELAND	68	0	5.2	1.5					
KY LEXINGTON	72	0	5.5	1.8	OH COLUMBUS	70	1	3.3	-0.5					
KY LOUISVILLE	74	1	4.0	0.6	OH DAYTON	70	-1	6.2	2.4					
KY PADUCAH	77	1	5.5	1.5	OH MANSFIELD	67	-1	6.0	2.1					
					OH TOLEDO	68	0	4.6	0.8					

Based on 1961-90 normals.

National Agricultural Summary

June 28 - July 4, 1993

HIGHLIGHTS: Rainfall occurred from the Great Plains to Florida. Over the Central Plains, heavy rainfall added to the flooding, crop damage, and farm activity delays from the previous week's rain. Dry conditions in the Northeast stressed crops. Temperatures in the northern half of the Nation were cool, which delayed crop development. The southern half of the Nation was hot. The hot temperatures, combined with adequate moisture, allowed good crop growth in these areas.

SMALL GRAINS: Winter wheat harvest in the 19 major wheat-producing States was 38 percent(%) complete, compared with 44% last year and 59% average. Harvest in the Southeast made good progress due to the hot, dry conditions. Wet conditions in Kansas and Illinois delayed harvest. Nationally, the continued wet conditions caused a decline in winter wheat condition, with 64% of the crop rated good to excellent, compared with 67% last week. Spring wheat development continued behind average. About 44% of the crop was headed, compared with 66% last year and 73% average. Cloudy, cool weather delayed spring wheat development across the Upper Great Plains. The continued cool weather contributed to the decline in spring wheat condition. About 82% of the crop rated good to excellent, compared with 88% last week. Disease and weed problems continued to hamper small grain development in South Dakota.

CORN: Corn silking progress in the 17 major producing States was 4%, compared with 5% a year ago and 8% average. Continued wet weather in the upper Mississippi Valley caused the corn condition to decline slightly, with 54% of the crop good to excellent, compared with 57% last week. Rain and flooding, further damaged the crop in Illinois and Iowa. In Iowa, the prolonged wetness has caused stand reductions, uneven germination, and plant yellowing. Cool weather is affecting the corn condition in North Dakota. Last week's rainfall came too late to help some dryland fields in Georgia and Florida, but improved crop conditions in Louisiana, Texas, and Tennessee. More favorable conditions in New York allowed that state's corn crop to show good growth.

SOYBEANS: Soybean planting in the 19 major producing States was 93% complete, compared with 97% last year and average. Soybeans blooming averaged 1 week behind normal with 4% bloomed, compared with 9% last year and 13% average. Condition of the crop declined with 49% rated good to excellent compared with 54% last week. Excessive moisture caused the crop to decline in Indiana, Illinois, and Iowa, while the crop in the Texas Upper Coast could use more dry weather. This week's rain improved the crop in Georgia and Tennessee. Increased soil moisture in Tennessee allowed the planting of double-crop soybeans.

COTTON: Cotton squaring in the 14 major producing States was ahead of last year and average with progress at 66%. This compared with 57% last year and 60% average. Cotton setting bolls was 13%, compared with 12% last year and 13% average. The hot weather improved the crop in Georgia, California, and Tennessee. Recent heavy rains damaged some fields in the Central, Coastal Bend, and Upper Coast regions of Texas. Boll weevil problems persisted in Tennessee and Texas. Nationally, cotton condition improved with 66% of the crop rated good to excellent, compared with 60% last week.

SORGHUM: Planting progress for the 12 major producing States was 97%, compared with 95% last year and 97% average. Grain sorghum headed at 21%, compared with 23% last year and 22% average. Sorghum condition improved slightly, with 69% of the crop good to excellent, compared with 68% last week. Emerged sorghum in the Texas High Plains made good progress this week. Wet conditions prevented producers from finishing planting in Louisiana.

RICE: Rice heading in the five major producing States reached 7%, compared with 14% last year and 11% average. Rice condition remained fair to good. Applications of fertilizers, herbicides, and treatments for water weevil continued in California. Rice crop development remained behind average in Texas, despite favorable conditions.

OTHER FIELD CROPS: Some tobacco fields in Georgia suffered storm damage. In Kentucky, warm temperatures and abundant moisture enhanced crop growth. Hay cutting advanced in the South, but was hampered by wet conditions in the North. Rain delayed the second cutting in Kansas and made harvesting difficult in South Dakota. Cool weather and rain showers slowed the harvest in Nevada. Previous wet conditions caused hay to overmature in Oregon. In California, the hay harvest advanced with good quality forage from later cuttings. The Texas peanut crop continued to make good progress, although wind damaged some plants in the Cross Timbers area.

FRUIT AND NUTS: Florida citrus trees and new crop fruit responded well to last week's rain. In California, the stone fruit harvests continued. Wine grape development continued but was slowed by dry, hot conditions. Sunburn damage occurred on some apples and walnuts. Cranberry fruit set and sizing continued in Oregon and New England. In Oregon, some of the sets were less than uniform; in New England, the set was average to heavy. Texas pecans continued sizing and filling. Webworm problems occurred on some trees in the Edwards Plateau.

VEGETABLES: The Florida vegetable harvest neared completion. Harvests in California, Arizona, Texas and New Jersey continued. Rio Grande Valley producers prepared for fall planting. Lack of rain in east Texas caused dryness in some fields. However, the excessive moisture received in June increased disease and insect problems and reduced yields.

PASTURE AND LIVESTOCK: Pasture and feed conditions remained adequate last week. The recent dry, hot weather in Georgia and portions of Texas and California caused producers to turn to supplemental feeding. In Maryland, pastures are good but need rain. Plentiful moisture in Nebraska and Oregon has produced excellent pasture conditions. Excessive moisture in Iowa made it difficult for producers to care for their livestock, but across the Nation livestock conditions remained good.

Crop Progress

for the Week Ending July 4, 1993

COTTON (Percent Squaring)

	Current	Last Wk	1992	Avg.
AL	63	42	83	84
AZ	94	88	91	94
AR	76	57	87	82
CA	60	41	80	76
GA	81	55	85	83
LA	72	54	94	74
MS	76	44	89	82
MO	72	50	71	74
NM	43	35	62	72
NC	58	36	34	50
OK	47	26	19	20
SC	61	45	62	61
TN	83	55	65	63
TX	59	35	28	41
14 States	66	43	57	60

These 14 States produced 99 of the 1992 cotton crop.

COTTON (Percent Setting Bolls)

	Current	Last Wk	1992	Avg.
AL	7	2	7	16
AZ	57	41	45	57
AR	3	0	11	8
CA	5	0	5	5
GA	21	3	16	22
LA	20	4	24	16
MS	10	1	26	23
MO	2	0	0	0
NM	3	0	7	8
NC	9	1	4	8
OK	0	0	0	1
SC	12	4	1	16
TN	0	0	2	4
TX	15	12	10	11
14 States	13	7	12	13

These 14 States produced 99% of the 1992 cotton crop.

GRAIN SORGHUM (Percent Planted)

	Current	Last Wk	1992	Avg.
AR	100	100	100	98
CO	95	85	99	95
IL	92	86	100	99
KS	96	90	90	96
LA	99	99	100	99
MS	100	100	100	100
MO	94	91	100	98
NE	98	98	100	100
NM	71	56	95	NA
OK	99	95	93	96
SD	85	83	93	97
TX	98	95	95	97
12 States	96	93	95	NA
Excl. States with NA	97	93	95	97

These 12 States produced 99% of the 1992 grain sorghum crop.

SOYBEANS (Percent Planted)

	Current	Last Wk	1992	Avg.
AL	90	84	95	90
AR	92	82	90	88
GA	93	81	95	91
IL	97	95	100	99
IN	99	99	100	98
IA	92	88	100	100
KS	96	90	90	95
KY	89	77	93	90
LA	92	90	96	90
MI	100	99	100	99
MN	88	85	99	99
MS	81	76	94	88
MO	87	82	95	93
NE	98	98	100	100
NC	93	87	83	89
OH	100	100	100	100
SC	89	80	86	91
SD	80	74	100	100
TN	92	85	94	89
19 States	93	89	97	97

These 19 States produced 95% of the 1992 soybean crop.

SOYBEANS (Percent Blooming)

	Current	Last Wk	1992	Avg.
AL	8	1	3	7
AR	17	2	3	3
GA	5	1	10	7
IL	3	1	17	26
IN	3	0	11	12
IA	5	0	13	15
KS	3	1	5	10
KY	0	0	1	2
LA	8	0	8	5
MI	10	0	3	5
MN	0	0	2	15
MS	2	0	9	8
MO	1	0	11	11
NE	0	0	3	10
NC	2	0	4	3
OH	12	8	10	13
SC	5	0	1	0
SD	0	0	11	16
TN	1	0	6	3
19 States	4	1	9	13

These 19 States produced 95% of the 1992 soybean crop.

GRAIN SORGHUM (Percent Headed)

	Current	Last Wk	1992	Avg.
AR	6	NA	21	10
CO	0	NA	0	0
IL	0	NA	2	3
KS	0	NA	0	1
LA	16	NA	51	36
MS	14	NA	44	26
MO	0	NA	2	1
NE	0	NA	0	0
NM	0	NA	0	NA
OK	2	NA	2	2
SD	0	NA	0	0
TX	54	NA	56	54
12 States	20	NA	23	NA
Excl. States with NA	21	NA	23	22

These 12 States produced 99 of the 1992 grain sorghum crop.

CORN (Percent Silking)

	Current	Last Wk	1992	Avg.
CO	0	0	0	0
GA	88	0	94	92
IL	1	0	4	13
IN	0	0	2	7
IA	0	0	0	1
KS	5	1	15	20
KY	12	1	18	15
MI	0	0	0	2
MN	0	0	0	0
MO	5	0	12	15
NE	0	0	0	3
NC	36	25	36	47
OH	0	0	1	5
PA	0	0	0	0
SD	0	0	0	0
TX	57	52	62	66
WI	0	0	0	0
17 States	4	2	5	8

These 17 States produced 94% of the 1992 corn crop.

WINTER WHEAT (Percent Harvested)

	Current	Last Wk	1992	Avg.
AR	93	75	98	96
CA	65	45	75	70
CO	2	1	6	6
GA	99	96	98	98
ID	0	0	0	0
IL	19	6	44	71
IN	16	8	16	47
KS	40	10	55	80
MI	0	0	0	3
MO	23	14	42	82
MT	0	0	0	1
NE	0	0	7	31
NC	94	78	64	83
OH	1	0	2	28
OK	80	64	81	95
OR	0	0	3	1
SD	0	0	0	0
TX	81	66	74	82
WA	0	0	4	1
19 States	38	24	44	59

These 19 States produced 90% of the 1992 winter wheat crop.

SPRING WHEAT (Percent Headed)

	Current	Last Wk	1992	Avg.
ID	25	11	81	62
MN	64	31	69	82
MT	24	15	52	62
ND	39	15	59	67
SD	64	42	97	96
5 States	44	21	66	73

These 5 States produced 96% of the 1992 spring wheat crop.

RICE (Percent Headed)

	Current	Last Wk	1992	Avg.
AR	0	NA	0	0
CA	0	NA	0	0
LA	29	NA	50	33
MS	0	NA	11	9
TX	7	NA	26	33
5 States	7	NA	14	11

These 5 States produced 97% of the 1992 rice crop.

Crop Condition (Percent)

for the Week Ending July 4, 1993

RICE

State	VP	P	F	G	EX
AR	0	0	15	85	0
CA	0	0	20	80	0
LA	0	3	74	23	0
MS	0	0	85	15	0
TX	0	0	30	66	4
5 State	0	1	36	63	0
Prev Week	0	0	41	55	4
Prev Year	0	0	35	62	3

WINTER WHEAT

State	VP	P	F	G	EX
AR	0	4	33	63	0
CA	0	0	20	65	15
CO	2	4	12	65	17
GA	0	7	63	30	0
ID	1	5	17	68	9
IL	0	3	45	49	3
IN	0	3	26	65	6
KS	1	5	18	60	16
MI	2	8	30	45	15
MO	0	10	67	23	0
MT	2	7	29	45	17
NE	1	1	28	65	5
NC	0	2	40	56	2
OH	1	6	29	52	12
OK	0	0	56	44	0
OR	0	3	12	54	31
SD	0	2	8	65	25
TX	19	6	27	43	5
WA	0	0	9	91	0
19 State	3	4	29	55	9
Prev Week	2	3	28	56	11
Prev Year	7	15	38	36	4

CORN

State	VP	P	F	G	EX
CO	0	2	10	67	21
GA	8	15	47	30	0
IL	0	2	26	63	9
IN	0	1	31	61	7
IA	2	10	59	28	1
KS	0	5	14	49	32
KY	0	1	22	64	13
MI	2	8	25	45	20
MN	11	34	44	10	1
MO	0	6	46	47	1
NE	0	3	13	76	8
NC	8	26	45	21	0
OH	1	4	24	52	19
PA	0	5	22	51	22
SD	4	12	38	41	5
TX	0	2	17	61	20
WI	4	20	56	18	2
17 State	2	9	35	46	8
Prev Week	1	6	36	51	6
Prev Year	1	9	38	45	7

SPRING WHEAT

State	VP	P	F	G	EX
ID	1	3	15	74	7
MN	2	5	28	55	10
MT	1	10	25	54	10
ND	0	0	8	72	20
SD	1	1	8	64	26
5 State	1	3	14	65	17
Prev Week	0	2	10	75	13
Prev Year	4	8	30	49	9

SORGHUM

State	VP	P	F	G	EX
AR	0	0	33	67	0
CO	0	2	29	57	12
IL	0	4	26	68	2
KS	0	2	14	61	23
LA	0	3	69	28	0
MS	0	2	58	40	0
MO	0	6	57	34	3
NE	0	5	29	61	5
NM	10	26	32	32	0
OK	0	0	21	79	0
SD	2	10	32	50	6
TX	0	6	24	54	16
12 State	0	5	26	56	13
Prev Week	2	4	26	56	12
Prev Year	0	2	31	56	11

COTTON

State	VP	P	F	G	EX
AL	0	0	44	54	2
AZ	0	0	10	75	15
AR	0	0	6	89	5
CA	0	0	5	90	5
GA	0	7	61	31	1
LA	0	0	48	52	0
MS	0	2	77	21	0
MO	0	9	55	36	0
NM	0	1	31	68	0
NC	0	6	33	55	6
OK	0	0	27	73	0
SC	0	29	51	20	0
TN	0	0	10	84	6
TX	0	0	31	62	7
14 State	0	1	33	61	5
Prev Week	1	3	36	59	1
Prev Year	8	11	37	40	4

SOYBEANS

State	VP	P	F	G	EX
AL	0	4	49	47	0
AR	0	0	17	83	0
GA	0	10	50	40	0
IL	0	6	31	58	5
IN	1	2	35	56	6
IA	1	12	60	27	0
KS	0	1	8	65	26
KY	0	0	29	69	2
LA	0	11	53	36	0
MI	3	7	25	50	15
MN	10	37	44	8	1
MS	0	13	55	32	0
MO	0	7	59	32	2
NE	0	6	19	72	3
NC	2	10	62	26	0
OH	1	5	28	52	14
SC	1	38	40	21	0
SD	5	17	41	30	7
TN	0	0	8	82	10
19 State	2	10	39	45	4
Prev Week	1	7	38	50	4
Prev Year	1	6	41	48	4

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

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 3.03 in. north; 0.13 to 2.40 in. central; 0.34 to 3.10 in. south. Temperatures 2° below normal to 4° above normal north; normal to 4° above normal central; 1° below normal to 3° above normal south. Lows 63 to 69° north; 65 to 71° central; 66 to 73° south. Highs 92 to 97° north; 91 to 98° central; 95 to 99° south.

Days suitable for fieldwork 4.8. Soil moisture 37% short, 51% adequate, 12% surplus. Corn silked 59%, 75% 1992, 77% avg.; dented 12%, 19% 1992, 22% avg.; 10% very poor, 19% poor, 47% fair, 19% good, 5% excellent. Sorghum planted 73%, 97% 1992, 92% avg.; 3% very poor, 6% poor, 36% fair, 48% good, 7% excellent. Peanuts pegged 18%, 56% 1992, 53% avg.; 50% fair, 34% good, 16% excellent. Wheat harvested 80%, 88% 1992, 91% avg.; 11% poor, 33% fair, 55% good, 1% excellent. Hay harvested 94%, 95% 1992, 96% avg. Pasture 2% very poor, 17% poor, 54% fair, 27% good. Primary activities: Cultivating, spraying fields, harvesting vegetables, wheat, general care of livestock, poultry, catfish.

ALASKA: Scattered showers, cloudy skies pushed average daily temperatures down slightly last week. Cooler temperatures slowed crop growth in some areas, while continued droughty conditions held back crop progress in other parts of the State.

Day available for haying 5.5. First crop hay harvest was 25% complete compared to 30% in early July of 1992. Height of small grains averaged 16 inches, 4 inches ahead of last year. Barley 15% poor, 30% fair, 45% good, 10% excellent. Commercial potato heights averaged 9 inches. Pasture, range conditions 35% poor, 30% fair, 35% good. Topsoil 80% short, 20% adequate. Subsoil 75% short, 25% adequate.

ARIZONA: Sunny, hot. Precipitation limited with scattered thunderstorms 1st through 3rd, southeast. Temperatures 1° below to 6° above normal. Extremes 40°; 104° higher elevations; 61° to 119° deserts.

Cotton squaring 94%, 91% 1992, 94% avg.; setting bolls 57%, 45% 1992, 57% avg. Activities included: Irrigating, fertilizing, pesticide applications, pest monitoring, cultivating. Cotton 10% fair, 75% good, 15% excellent. Insects, weeds mostly light. Alfalfa good to excellent. Harvest active all areas. Weeds light to moderate, insects mostly light; disease light. Small grains harvested 98%, 96% 1992, 96% avg. Fields good to excellent. Grapes, squash, watermelons, honeydews, cantaloupes, harvested western areas. Watermelon, cantaloupe, honeydew, cabbage, carrots, sweet corn, chile peppers, green onions, dry onions, grapes, kale, mixed greens, grapefruit harvested central areas. Tomatoes, dry onions, harvested eastern. Cattle, calves good north, central; southeast. Soil moisture short north; mostly adequate, central; short, southeast. Stockwater adequate, north; mostly adequate, central; adequate, southeast. Range, feed supplies average north, southeast; average to above average central. Insect damage light.

ARKANSAS: Hot week, temperatures averaging slightly above normal. Scattered showers statewide first part of week, heaviest rain occurred in north region of State. Extremes 61°; 97°. Rainfall none to 2.02 in.

Days suitable for fieldwork 6. Moderate rate of crop growth. Soil moisture supplies 22% short, 66% adequate, 12% surplus. Wheat, oats harvests nearing completion. Fruit harvests were in full swing. Soybean, corn plantings continued. Sorghum, cotton, soybeans cultivation continued. Producers continued to spray cotton fields for weevils. Corn 8% poor, 10% fair, 74% good, 8% excellent. Producers continued to apply herbicides to rice, soybeans fields. Grape colaspis larvae reported in some soybeans, fields. Fruit, vegetable crops good condition. Livestock excellent condition, external parasites reported in some areas. Pastures good condition, hay cuttings continued.

CALIFORNIA: An upper level ridge off the west coast brought dry, hot conditions to most of State. No rain was reported. Record highs were set at some coastal locations in northern, central areas at the beginning of the week. Slightly cooler temperatures moved in by mid-week with a stronger sea breeze returning to the north coast.

Warm, dry weather prevailed. Wheat harvest progressed. Straw baling occurred. Rice water weevil treatment, fertilizer, herbicide applications, ongoing. Cotton development improved, treated mites, aphids, lygus. Seed alfalfa blooming. Over-wintered sugarbeets harvested, emerging crop irrigated, treated mildew. Corn planting winding down. Fields irrigated, sprayed weeds. Safflower blooming, drying for harvest scattered areas. Alfalfa hay harvest continuing, good quality reported later cuttings. Stone fruit harvest continued, steady pace. Quarter plum crop picked. Peach harvest over 40% complete. Nectarine harvest ongoing. Table grape harvest complete, Riverside. Wine grape development progressing, slow. Some sunburn, apples, walnuts. Almond hulls splitting, Kern County. Dates dusted. Lemon harvest winding down, south coast area. Forty percent Valencia crop picked. Asparagus harvest concluding San Joaquin delta region. Broccoli harvest moderate, Salinas-Watsonville, Santa Maria. Bell pepper harvest progressed; Merced, Kern, Fresno counties. Central coast cauliflower harvest light. Santa Maria celery harvest heavy, harvest in Salinas fairly heavy. Fresh market tomato harvesting continued Kern, Merced, Tulare counties, Coachella Valley of Riverside county, Westside of Fresno county. Processing tomato harvest winding down Imperial county. Sweet corn harvest commenced San Benito. Sweet corn harvested Fresno, Kern, Tulare counties. Riverside sweet corn harvest slowing. Garlic harvest in Tulare county increasing, harvest began in San Benito. Head lettuce harvest fairly heavy on the central coast. Harvest of romaine, leaf lettuce on the Central coast moderate. Onions harvested in Kern, San Joaquin counties. Honeydews, watermelons harvested in Riverside county. Watermelon harvest continued in Fresno county. Cantaloupes harvested in Kern, Imperial, Fresno counties. Other crops harvested included: Chili peppers, cucumbers, eggplant, garlic, green beans, green onions, okra, cherry, roma tomatoes, oriental vegetables. Range, pasture conditions good to excellent; few pockets poor to fair, lower elevations. Hot, dry weather increased fire threat, many areas. Cattle movement to summer pastures moderate to heavy. Water, feed supplies adequate; some supplemental feeding underway. Livestock good condition most areas.

COLORADO: June 28th, 29th were mostly dry, quite warm with isolated showers in the mountains, east. Temperatures cooled

somewhat on 30th, climbed into the 90s at lower elevations again on July 1st, 2nd as locally heavy rains, large hail affected parts of the northeast. On the 3rd, a strong cold front brought winds up to 94 miles an hour to portions of the Front Range, the Northeast with over 1.00 in. of rain at Karval in Lincoln County. The 4th was mostly dry with cool temperatures, a few showers in the north, warm, mostly dry conditions in the south. Temperatures mostly 2 to 5° above normal.

Days suitable for fieldwork 6.4. Soil moisture 7% very short, 40% short, 51% adequate, 2% surplus. Alfalfa 1st cutting 83%, 86% 1992, 80% avg.; 2nd cutting 6%, 13% 1992, 6% avg. Spring barley headed 74%, 87% 1992, 76% avg.; turning color 20%, 34% 1992, 30% avg. Oats headed 64%, 90% 1992, 75% avg.; turning color 30%, 20% 1992, 21% avg. Dry beans emerged 93%, 88% 1992, 92% avg. Sorghum emerged 89%, 85% 1992, 78% avg. Winter wheat ripe 19%, 56% 1992, 21% avg.; harvested 2%, 6% 1992, 6% avg.; 2% very poor, 4% poor, 12% fair, 65% good, 17% excellent. Fall potato 3% poor, 18% fair, 69% good, 10% excellent. Dry onion 1% poor, 10% fair, 78% good, 11% excellent. Corn 2% poor, 10% fair, 67% good, 21% excellent. Sugarbeets 1% very poor, 2% poor, 7% fair, 79% good, 11% excellent. Livestock mostly good to excellent. Pasture, range feed condition excellent.

FLORIDA: Most places in State had 3 to 5 days rain except south with 1 to 3 days. Rain generally 1.00 to 2.00 in., local areas less than 1.00 in. to over 3.00 in. Temperatures 1 to 3° above normal Panhandle, normal elsewhere. Highs; middle to upper 90s north; middle 90s central, south. Lows; upper 60s over State.

Soil moisture mostly short to adequate throughout State. Rain this past week improved soil moisture, more needed. Haying, tobacco harvest active. Condition cotton, peanut crop improved. Rains too late to help early corn crop. Sugarcane, other irrigated crops making good progress. Rain most citrus areas. Tree, new crop fruit progressing well. New growth most areas. New crop fruit making good progress, trees have adjusted to the size crop they can carry for next season. Valencia harvest nearly complete. Grapefruit harvest is down to last few thousand boxes. Caretakers cutting cover crops, herbiciding, spraying, fertilizing. Typical summer weather prevailed north, high temperatures, 2.00 to 3.00 in. rain many locations. Harvesting sweet corn, squash, tomatoes, watermelons north, tomatoes central. Supplies decreasing as season ends. State's pastures poor to excellent. Pasture ratings, 15% poor, 30% fair, 40% good, 15% excellent. Hay fields much improved. State's cattle herds poor to good condition.

GEORGIA: Scattered thunderstorms early in week. Rest of week hot, humid widely scattered showers. Rain under 0.50 in. to locally 1.00 to 3.00 in. Temperatures 3 to 5° above normal north to 1 to 3° above normal central, south. Hottest low 90s northeast mountains mid to upper 90s elsewhere, two reports 100° or above east central through southwestern areas. Coolest near 60° northeast mountains to mostly upper 60s to low 70s.

Days suitable for fieldwork 5.2. Soil moisture 18% very short, 39% short, 40% adequate, 3% surplus. Corn 46% dough, 65% 1992, 67% avg.; 17% dent, 27% 1992, 33% avg.; improved, rains too late for some dryland fields. Cotton improved from last week. Sorghum 7% poor, 63% fair, 30% good; 90% planted, 95% 1992, 94% avg. Peanuts 8% poor, 31% fair, 61% good; 82% blooming, 89% 1992, 88% avg.; 45% pegging, 46% 1992, 51% avg. Planting soybeans active, crop improved. Tobacco 56% fair, 44% good; 8% harvested, 14% 1992, 18% avg.; scattered storm damage. Wheat harvest virtually complete. Watermelons 36% poor, 35%

fair, 26% good, 3% excellent; 35% harvested, 46% 1992, 46% avg. Other vegetables 13% poor, 41% fair, 46% good. Apples 31% fair, 69% good. Peaches 13% very poor, 10% fair, 77% good; 67% harvested, 67% 1992, 73% avg. Hay, pasture improved, hay growth, pasture feed short. Cattle receiving supplemental feed, few reports light culling, fair to good. Hogs good.

HAWAII: Warm, sunny weather, occasional showers prevailed in State. Hawaii island got rain, others no appreciable levels of rain. In Honolulu, a 10% limit on water consumption for large commercial, industrial, government consumers requested. Temperatures mid 60s to high 80s. Rainfall none to 2.80 in.

Farming activities on normal schedules with increased irrigation, spraying efforts, dry areas. Banana production continued at last weeks level. Papaya picking heavy. Sweet corn, watermelon shipments increased for Independence Day celebration.

IDAHO: Temperatures 2 to 8° below normal. Teton County reported frost, set back potato growth. Precipitation 0.33 to 0.88 in. north; none to 0.26 in. southwest; none to 0.13 in. south central; none to 0.47 in. east.

Days suitable for fieldwork 6. Soil moisture 5% short, 94% adequate, 1% surplus. Winter wheat 7% turning color, 70% headed, 20% booted, 3% jointing. Spring wheat 14% not yet jointed, 38% jointed, 23% booted, 25% headed. Spring barley 14% not yet jointed, 35% jointed, 19% booted, 32% headed. Oats emerged 99%, 100% 1992, 100% avg. Potatoes emerged 94%, 100% 1992, 100% avg. Potatoes not yet 12" high 64%, 12" high 27%, closing middles 9%. Potatoes 3% poor, 15% fair, 73% good, 9% excellent. Sugarbeets thinned 93%, 100% 1992, 99% avg. Field corn emerged 100%, 100% 1992, 100% avg. Dry beans planted 99%, 100% 1992, 100% avg.; emerged 96%, 98% 1992, 99% avg. Alfalfa first cutting 82%, 95% 1992, 85% avg. Cherries harvested 18%, 86% 1992, 66% avg. Irrigation water supplies 1% poor, 3% fair, 75% good, 21% excellent. Activities: Haying, combine preparation, weed control, evaluation of pest problems, irrigation, cultivation of beans, sugarbeets. Pasture, range condition 97% of normal. Livestock reported in mostly good condition.

ILLINOIS: A lingering front triggered several thunderstorms last week, which aggravated flooding in some areas. These storms produced hail, heavy downpours, strong winds, precipitation 1.00 in. to over 2.00 in. Temperatures were slightly above normal. Highs lower 80s to around 90°. Lows 65 to 75°.

Rains, flooding continue to affect crops, wheat harvesting efforts across the State. Condition of crops declined slightly due to excess soil moisture, while wheat harvest made little progress due to an average of only 2.25 days suitable for fieldwork. Other farm activities included cutting hay, clover, spraying for weeds, insects, cultivating, some planting, tending livestock. Pasture condition was 97% normal.

INDIANA: Temperatures close to normal north, 2 to 6° above normal in the south. High temperatures upper 70s to lower 80s north to middle 80s to lower 90s south. Mean lows were mostly 60s. Most areas of the State received at least an inch of rain with some areas totalling 4.00 in. or more. Some areas of extreme northern, extreme southern areas had less than an inch.

Days suitable for fieldwork 2. Crop conditions decline as wet weather continues. Soybeans have started to bloom, corn has started to silk. Pastures 97% of normal, same as last week. Wheat crop ratings decreased slightly, 71% rated good to excellent. Topsoil 36% adequate, 64% surplus. Subsoil 47% adequate, 53% surplus.

Corn 31 in. high, 38 in. 1992, 40 in. avg. Soybean 10 in. high, 11 in. 1992, 11 in. avg. Oats headed 76%, 92% 1992, 92% 1992. Alfalfa hay 1st cutting 97%, 100% 1992, 100% avg.

IOWA: Temperatures near normal. Extremes 51°; 92°. Very heavy rains throughout week. Record flooding south, east. Rainfall 0.54 in. west central to 10.17 in. south central; State average 3.09 in. (normal 0.97 in.).

Days suitable for fieldwork 2.4. Topsoil 7% adequate, 93% surplus. Subsoil 6% adequate, 94% surplus. Corn cultivated for the first time 30, 96% 1992, 94% normal; corn average height 16 in.; tallest 30 in. Soybeans emerged 85%, 100% 1992, 100% normal; acreage cultivated for the first time 10%, 82% 1992, 78% normal. Oats headed 65%, 95% 1992, 99% normal. First crop alfalfa hay harvested 70%, 99% 1992, 98% normal. First crop clover hay harvested 45%, 90% 1992, 86% normal. Oat 2% very poor, 21% poor, 45% fair, 30% good, 2% excellent. Winter wheat 1% very poor, 11% poor, 44% fair, 41% good, 3% excellent. Pasture 1% very poor, 5% poor, 18% fair, 51% good, 25% excellent. Hay 1% very poor, 17% poor, 38% fair, 39% good, 5% excellent. Tremendous rainfall, late planting, saturated soils has caused stand reductions, uneven emergence, yellowing of plants. Conditions for livestock are good although the muddy conditions make it difficult to care for the livestock. Feed lots continue to be very muddy.

KANSAS: Weather data not available.

Days suitable for fieldwork 4.5. Topsoil 8% short to very short, 68% adequate, 24% surplus. Subsurface moisture 21% short to very short, 73% adequate, 6% surplus. Heavy rains east, halted harvest many areas. Scattered rains, muddy conditions kept machines out of fields, central. Hot, dry, few scattered showers west. Wheat harvested 40%, 55% 1992, 80% avg. Harvest just underway far northern counties, three fourths complete southwest, south central. Corn silking 5%, 15% 1992, 20% avg.; improved; 81% good to excellent, 14% fair, 5% poor to very poor. Sorghum planted 96%, 90% 1992, 96% avg.; 84% good to excellent, 14% fair, 2% poor to very poor. Soybeans planted 96%, 90% 1992, 96% avg.; blooming 3%, 5% 1992, 20% avg.; 91% good to excellent, 8% fair, 1% poor to very poor. Second cutting alfalfa 35%, 45% 1992, 60% avg. Wheat harvest, rains delaying second cutting. Pastures good to excellent.

KENTUCKY: Warm, dry conditions. High temperatures upper 80s to low 90s, 3 to 4° above normal. Low temperatures upper 60s, lower 70s, 4 to 6° above normal. Precipitation most areas 0.25 to 0.75 in., 0.50 to 0.75 in. below normal.

Days suitable fieldwork 4.1. Soil moisture, 18% short, 68% adequate, 14% surplus. Warm temperatures, moisture enhanced good crop growth. Tobacco 41% fair, 55% good, 4% excellent. Angular leaf spot, black shank, blue mold reported present on some tobacco. Wheat harvest 76%, 79% 1992, 82% avg. Pasture mostly good to excellent. Good apple, peach crop.

LOUISIANA: No weather data available.

Days suitable for fieldwork 2.7. Soil moisture 58% adequate, 42% surplus. Corn 2% poor, 58% fair, 32% good, 8% excellent; 93% silked, 99% 1992, 95% avg.; 52% dough stage, 75% 1992, 66% avg.; 5% mature, 5% 1992, 6% avg. Corn crop improved with the recent rains. Hay 92% first cutting, 89% 1992, 80% avg. Peaches 4% very poor, 10% poor, 60% fair, 26% good; 46% harvested, 66% 1992, 53% avg. Sorghum 99% emerged, 96% 1992, 96% avg. Planting hampered by wet conditions. Soybeans

89% emerged, 94% 1992, 83% avg. Soybean planting slowed, spraying active. Sweet potatoes 13% poor, 23% fair, 64% good; 74% planted, 83% 1992, 86% avg. Planting continued. Wheat 97% harvested, 99% 1992, 98% avg. Sugarcane 2% poor, 4% fair, 85% good, 9% excellent. Layby completed, land preparation for planting. Livestock 22% fair, 72% good, 6% excellent. Pastures 3% very poor, 1% poor, 4% fair, 89% good 3% excellent. Pastures looked good. Vegetables 73% fair, 27% good.

MARYLAND & DELAWARE: MARYLAND: Precipitation 0.87 in. Temperature 76.1°, normal 74.8°. Extremes 52°; 96°.

Days suitable for fieldwork 5.4. Topsoil 10% very short, 52% short, 38% adequate. Subsoil 5% very short, 14% short, 81% adequate. Small grains mostly good. Wheat 50% harvested, 26% 1992, 55% avg. Barley 96% harvested, 75% 1992, 88% avg. Rye 38% harvested, 30% 1992, 48% avg. Oats 31% turned, 38% 1992, 40% avg.; 7% harvested, 12% 1992, 10% avg. Corn, soybeans fair to good. Soybeans 81% planted, 78% 1992, 81% avg. Pasture good, needs rain; hay supplies adequate. Alfalfa hay 44% second cut, 36% 1992, 47% avg. Other hay 21% second cut, 13% 1992, 14% avg. Potatoes 4% harvested, 4% 1992, 8% avg. Peaches, apples fair to good.

DELAWARE: Precipitation 0.74 in. Temperature 76.6°, normal 75.4°. Extremes 63°; 93°.

Days suitable for fieldwork 7. Topsoil 43% very short, 57% short; subsoil 14% very short, 72% short, 14% adequate. Small grains mostly fair to good. Wheat 53% harvested, 50% 1992, 61% avg. Oats 32% harvested, 7% 1992, 9% avg. Corn, soybeans fair. Soybeans 76% planted, 84% 1992, 85% avg. Alfalfa hay 77% second cut, 36% 1992, 56% avg. Other hay 52% second cut, 6% 1992, 16% avg. Pasture fair; hay supplies adequate. Peach, apple crop fair to good.

MICHIGAN: Extremes 40°; 89°. Precipitation none to 2.41 in. across the State.

Days suitable for fieldwork 5.5. Soil moisture 60% adequate, 40% surplus. Dry beans 95% planted, 97% 1992, 90% avg.; 85% emerged, 90% 1992, 80% avg. Oats 40% headed, 60% 1992, 70% avg.; 5% turning, 0% 1992, 10% avg.; 3% very poor, 7% poor, 30% fair, 45% good, 15% excellent. Wheat 100% headed, 99% 1992, 100% avg.; 35% turning, 30% 1992, 60% avg.; 0% ripe, 0% 1992, 10% avg. Hay 75% first cutting, 80% 1992, 85% avg.; 5% second cutting, 15% 1992, 10% avg.; 2% very poor, 10% poor, 30% fair, 40% good, 18% excellent. Pasture condition 95% of normal. Major activities included: Cultivating, haying, mowing, spraying, repairing equipment.

MINNESOTA: Temperatures 2° below normal to 8° below normal for the State. Extremes 37°; 87°. Precipitation 5.00 in. above normal State. Precipitation 1.00 to 6.00 in. Greatest weekly precipitation 6.27 in.

Days suitable for fieldwork 2.3. Topsoil 15% adequate, 85% surplus. Spring wheat 64% heading, 59% 1992, 82% avg. Oats 63% heading, 89% 1992, 90% avg. Barley 72% heading, 70% 1992, 83% avg. Alfalfa 79% first cutting, 86% 1992, 91% avg. Corn 34% cultivated once, 88% 1992, 89% avg.; 15 in. height, 32 in., 1992, 35 in. avg.; 0% tasseled, 2% 1992, 15% avg. Soybeans 88% planted, 99% 1992, 99% avg.; 84% emerged, 99% 1992, 96% avg.; 13% cultivated once, 86% 1992, 79% avg.; 7 in. height, 10 in. 1992, 11 in. avg. Spring wheat 2% very poor, 5% poor, 28% fair, 55% good, 10% excellent. Oats 2% very poor, 7% poor, 30% fair, 52% good, 9% excellent. Barley 2% very poor, 5% poor, 26% fair, 54% good, 13% excellent. Corn 11% very poor, 34% poor, 44% fair, 10% good,

1% excellent. Soybeans 10% very poor, 37% poor, 44% fair, 8% good, 1% excellent.

MISSISSIPPI: Temperatures 81°, 1.2° above normal. Extremes 64°; 98°. Entire State received irregular amounts of rainfall in various areas. Rainfall 0.75 in., 0.24 in. below normal. Soil temperatures 84°.

Days suitable for fieldwork 2.6, 3.7 1992, 4.6 avg. Soil moisture 4% short, 60% adequate, 32% surplus, 4% excessive. Corn 45% silked, 74% 1992, 70% avg.; 13% dough, 27% 1992, 30% avg.; 7% poor, 47% fair, 45% good, 1% excellent. Cotton 76% squaring, 89% 1992, 82% avg.; 10% setting bolls, 26% 1992, 23% avg.; 2% poor, 77% fair, 21% good. Rice 0% heading, 11% 1992, 9% avg.; 85% fair, 15% good. Sorghum 98% emerged, 100% 1992, 97% avg.; 14% heading, 44% 1992, 26% avg.; 2% poor, 58% fair, 40% good. Soybeans 81% planted, 94% 1992, 88% avg.; 79% emerged, 87% 1992, 76% avg.; 2% blooming, 9% 1992, 8% avg.; 13% poor, 55% fair, 32% good. Sweet potatoes 93% planted, 95% 1992, 96% avg.; 13% poor, 47% fair, 40% good. Watermelons 12% harvested, 8% 1992, 7% avg.; 28% poor, 42% fair, 30% good. Wheat 88% harvested, 97% 1992, 96% avg.; 3% poor, 23% fair, 47% good, 27% excellent. Hay 58% harvested, 60% 1992, 50% avg. Peaches 51% harvested, 66% 1992, 64% avg.; 31% poor, 44% fair, 25% good. Livestock 4% fair, 87% good, 9% excellent. Pasture 91% of normal. Activities: Insect control.

MISSOURI: Temperatures normal to slightly above normal, warmest readings northwestern district, 3° above normal. Rainfall 2.70 in., ranging less than 1.00 in. southwest, southeast, up to over 4.00 in. west central, northern districts.

Days suitable for fieldwork 2.8. Topsoil 24% adequate, 76% surplus. Significant crop losses occurring along all major rivers, streams due to flooding. Corn tasseling 9%, 19% 1992, 29% avg. Corn silking mostly limited to southeastern district. Double-crop soybeans planted 40%, 57% 1992, 65% avg. Continued wet conditions on unplanted land will prevent some plantings of single-crop, double-crop soybeans. Sorghum planted 94%, 100% 1992, 98% avg. Wheat harvest by district ranges 3% or less in northern districts to 88% southeastern district. Oats harvested 7%, 15% 1992, 33% avg. Alfalfa second cutting 23%, 40% 1992, 49% avg. Other hay 64%, 76% 1992, 77% avg. Pasture 1% poor, 13% fair, 65% good, 21% excellent.

MONTANA: Temperatures about 3° below normal. Precipitation moderate to good statewide, each division averaged at least 1.00 in., south central, southeast 2.10 to 2.50 in., respectively.

Days suitable for fieldwork 5.3. Topsoil 22% short, 76% adequate, 2% surplus. Subsoil 29% short, 70% adequate, 1% surplus. Barley 1% very poor, 6% poor, 20% fair, 55% good, 18% excellent. Oats 7% poor, 24% fair, 55% good, 14% excellent. Sugarbeets 5% fair, 87% good, 8% excellent. First cutting alfalfa hay 35% complete, 47% 1992, 61% avg. Other hay 23% complete, 30% 1992, 43% avg. Pasture, range feed rated at 84% of normal.

NEBRASKA: Temperatures 2° below normal north to 2° above normal south. Precipitation throughout week varying from a trace to 1.00 in. northwest to 2.97 in. northeast.

Days suitable for fieldwork 3.9. Topsoil 5% short, 44% adequate, 51% surplus. Subsoil 1% short, 67% adequate, 32% surplus. Winter wheat 1% very poor, 1% poor, 28% fair, 65% good, 5% excellent; 97% turning, 100% 1992, 97% avg.; 14% ripe, 44% 1992, 58% avg. Corn 3% poor, 13% fair, 76% good, 8% excellent. Sorghum 5% poor, 29% fair, 61% good, 5% excellent.

Soybeans 6% poor, 19% fair, 72% good, 3% excellent. Alfalfa 13% fair, 65% good, 22% excellent; 99% first cutting, 100% 1992, 100% avg.; 14% second cutting, 44% 1992, 58% avg. Wild hay 1% fair, 63% good, 36% excellent. Pasture, range 103% of normal.

NEVADA: Storm fronts moved across State with gusty winds, showers limited to extreme north. Temperatures below normal northern third; above normal extreme south. Extremes 29°; 116°.

Irrigation water supplies mostly adequate. About 75% winter wheat, 65% barley, and 50% spring wheat headed. Potato crop starting to bloom. Alfalfa hay harvest slowed by cool weather, rain showers. Some hay damaged by rain. Range feed good, stockwater supplies generally adequate.

NEW ENGLAND: Precipitation 0.14 to 2.22 in. Maine; none to 1.18 in. rest of region. Temperatures 63 to 70° north; 67 to 73° south. Maximum temperatures 81 to 89° north; 82 to 92° south. Minimum temperatures 39 to 54° north; 41 to 61° south.

Days suitable for fieldwork 6.2. Soil moisture 16% very short, 54% short, 30% adequate. Available grazing 50% short, 45% adequate, 5% surplus. Fieldwork progress 2 days behind schedule most of region, 6 days behind in Vermont. Pasture condition 75%. Potatoes across the region good to fair. Maine oat good to fair. Field corn fair to good. First cutting hay 85% harvested, 85% 1992, 80% avg.; good to fair. Second cutting hay begun in south, good to fair. Shade, outdoor tobacco good. Sweet corn fair to good. Peach set average to light. Pear, highbush blueberry set average. Cranberry set heavy to average. Apple set, fruit drop average; scab infection light. Strawberry set average; harvested 70%. Major farm activities: Irrigating fields, applying herbicides, insecticides, top, side dressing. Nitrate tests on corn fields, tying up shade tobacco. Finishing first cutting of hay, starting second. Harvesting early season vegetables, strawberries. Dry: All farmers equipped to do so are irrigating.

NEW JERSEY: Temperatures above normal. Extremes 54°; 98°. Rainfall 0.72 in. north, 0.91 in. central, 0.21 in. south. Heaviest 24 hour total 1.14 in. on 2nd, 3rd. Estimated soil moisture, in percent field capacity, averaged 64% north, 53% central, 35% south. Four inch soil temperatures averaged 71° north, 73° central, 74° south.

Soil moisture content is very short. Rain needed in most areas. Irrigation of crops being widely used. Good, moderate volume of beans, cabbage, cucumbers, peppers, squash, tomatoes, sweet corn are available. Light, declining volume of spinach, endive, escarole, greens, lettuce available. Eggplant harvest expected soon. Blueberry harvest is nearing its peak. Early peach variety harvest is getting underway. Wheat harvest is well underway. Corn, soybeans need rain desperately.

NEW MEXICO: Most of State experienced dry, unseasonably warm weather during the week. Temperatures about 5° above normal statewide, with a number of locations reaching 100°. Thunderstorms produced some areas of rainfall in the east while the west remained dry. South central mountains picked up the highest precipitation totals with one location receiving 1.32 in.

Days suitable for fieldwork 6.8. Soil moisture 85% short, 15% adequate. Crop conditions: Alfalfa 3% poor, 29% fair, 60% good, 8% excellent. Corn 27% fair, 69% good, 4% excellent. Wheat very poor to excellent with 96% harvested. Chile 13% poor, 19% fair, 68% good. Onions 10% fair, 90% good; harvest continues. Apples very poor to good; light to average fruit set. Cattle, sheep poor to excellent. Range, pasture 67% of normal.

NEW YORK: Week began warm, humid with thunderstorms. Mid week was warm, dry. End of week cooler with showers. Weekend was dry, warmer. Temperatures 1 to 3° above normal. Extremes 46°; 92°. Rainfall was variable, most locations below normal. Amounts varied 0.03 to 1.15 in.

Days suitable for fieldwork 5.5. Soil moisture supplies mostly adequate. Pasture conditions 94% of normal. Corn showed good growth as temperatures warmed. Hay good condition. First cutting alfalfa 88% finished, 81% 1992, 77% avg. Clo-tim 75% harvested, 77% 1992, 72% avg. Second cuttings underway. Potatoes good. Early planted fields flowering. Dry bean planting near complete. Tree fruits good to excellent. Later varieties of sweet cherries being harvested. Irrigation active some areas. Strawberry harvest continued, excellent quality, normal yields. Tomato, sweet corn, snap bean planting finished. Cabbage transplanting continued. Orange County onions good. Lettuce planting continued.

NORTH CAROLINA: Temperatures 3 to 5° above normal. Precipitation 3.96 in. at Graham to no rain at several stations.

Days suitable for fieldwork 6.3. Soil moisture 30% very short, 58% short, 12% adequate. Crop condition: Pasture 12% very poor, 23% poor, 49% fair, 16% good. Winter wheat 2% poor, 40% fair, 56% good, 2% excellent. Field tobacco 12% poor, 57% fair, 27% good, 4% excellent. Irish potatoes 19% poor, 50% fair, 31% good. Corn 8% very poor, 26% poor, 45% fair, 21% good. Hay 7% very poor, 9% poor, 63% fair, 21% good. Peaches 7% poor, 40% fair, 53% good. Truck crops 23% poor, 48% fair, 29% good. Cotton 6% poor, 33% fair, 55% good, 6% excellent. Peanuts 38% fair, 57% good, 5% excellent. Soybeans 2% very poor, 10% poor, 62% fair, 26% good. Sweet potatoes 4% poor, 44% fair, 52% good. Apples 44% fair, 56% good. Hay, roughage supplies 4% very short, 2% short, 90% adequate, 4% surplus. Sorghum planted 93%, 85% 1992, 89% avg.; Soybeans planted 93%, 83% 1992, 89% avg. Sweet potatoes transplanted 97%, 96% 1992, 97% avg. Burley tobacco transplanted 98%, 97% 1992, 100% avg. Wheat harvested 94%, 64% 1992, 83% avg. Oats harvested 92%, 75% 1992, 85% avg. Barley harvested 94%, 61% 1992, 86% avg. Rye harvested 93%, 71% 1992, 84% avg. Irish potatoes harvested 64%, 61% 1992, 64% avg. Peaches harvested 34%, 62% 1992, 47% avg. Cotton squared 58%, 34% 1992, 50% avg. Cotton setting bolls 9%, 4% 1992, 8% avg. Corn silked 36%, 36% 1992, 47% avg. First cutting of the Hay crop 98% completed with second cutting 55% completed. Major activities: Irrigating crops; topping, spraying tobacco; harvesting small grains; planting double crop soybeans. Other activities included: Harvesting fruits, vegetables; cutting hay; tending livestock.

NORTH DAKOTA: Series of slow moving low pressure systems brought substantial rainfall Statewide last week. Some areas had heavy rain with some minor flooding. Some of the thunderstorms produced severe weather with numerous reports of small tornadoes, large hail. Rainfall 0.95 in. north central to 2.99 in. south central. Temperatures 6 to 8° below normal. Extremes 36° southwest; 83° northwest, central.

Days suitable for fieldwork 1.8. Topsoil 60% adequate, 40% surplus. Subsoil 11% short, 80% adequate, 9% surplus. Small grains mostly good, development behind last year, average due to lack of abundant sunshine, warm temperatures. Spring wheat 8% fair, 72% good, 20% excellent; durum 7% fair, 71% good, 22% excellent; barley 4% fair, 71% good, 25% excellent; Oats 16% fair, 72% good, 12% excellent; winter wheat 14% fair, 74% good, 12% excellent. Hard red spring wheat 4% milk and beyond, 12%

1992, 25% avg. Durum wheat 2% milk and beyond, 5% 1992, 15% avg. Barley 7% milk and beyond, 16% 1992, 34% avg. Oats 4% milk and beyond, 14% 1992, 27% avg. Winter wheat 1% turning and beyond; 8% 1992, 28% avg. Cool wet weather is effecting the conditions of late season crops, with the exception of sugarbeets. Corn 17% poor, 46% fair, 37% good; flax 20% fair, 72% good, 8% excellent; sugarbeets 5% fair, 93% good, 2% excellent; potatoes 42% fair, 58% good; dry beans 10% poor, 61% fair, 29% good; soybeans 13% poor, 64% fair, 23% good; sunflowers 10% poor, 39% fair, 47% good, 4% excellent. Dry beans 6 in. avg. height, 8 in. 1992, 10 in. avg.; flax 7 in. avg. height, 8 in. 1992, 9 in. avg.; soybeans 6 in. avg. height, 9 in. 1992, 11 in. avg.; sunflowers 9 in. avg. height, 10 in. 1992, 15 in. avg.; potatoes 20 in. avg. height, 10 in. 1992, 12 in. avg.; corn 11 in. avg. height, 15 in. 1992, 24 in. avg.; sugarbeets 12 in. avg. height, 12 in. 1992. Flax 4% blooming and beyond, 8% 1992, 15% avg.; dry beans 0% blooming and beyond, 1% 1992, 10% avg.; soybeans 0% blooming and beyond, 1% 1992, 10% avg.; potatoes 20% blooming and beyond, 5% 1992, 27% avg. Post emerged herbicide application for broadleaf control 91% complete, wild oats 97%. Range, pasture conditions 92% of normal. Hay 86% of normal. Alfalfa hay first cutting 34% complete, other hay 13%. Stockwater supplies 7% short, 82% adequate, 11% surplus.

OHIO: Weather conditions varied little from day to day. High pressure along the east coast brought southerly winds, abundant warmth, moisture. Meanwhile, a frontal boundary wavered over the State, setting off showers, thunderstorms most days. Flooding rains pounded central areas while little to no rain fell in the far northeast. Temperatures within 1° of normal in the far north to 3 to 5° above normal in the far south. Highs varied from the upper 70s to near 80° in the north to the mid 80s in the south with mean lows in the low to upper 60s. Torrential downpours flooded central, southwestern areas with totals of 2.00 to 3.00 in. falling in a relatively short time span; however, parts of the northeast escaped with just 0.25 in. of rain. Amounts of 3.00 to 4.40 in. fell from Dayton to east of Columbus; areas to the south received 1.00 to 2.00 in. Northwest saw around 0.75 in. while the northeast received about 0.50 in.

Days suitable for fieldwork 3.4. Topsoil 5% short, 60% adequate, 35% surplus. Strawberries harvested 90%; oats headed 83%. Alfalfa 1st cut harvested complete, 25% of the second cut, 4% poor, 23% fair, 60% good, and 13% excellent. Pasture 1% very poor, 3% poor, 27% fair, 58% good, 11% excellent. Sweet corn is tasseling in southern, central areas. Potatoes are flowering, rate excellent. Sugarbeets also rate excellent.

OKLAHOMA: Temperatures 2° above normal north central to 5° above normal northeast. Precipitation none in most districts to 0.20 in. north central.

Days suitable for fieldwork 5.7. Topsoil moisture 9% short, 82% adequate, 9% surplus. Subsoil moisture 7% short, 93% adequate. Wheat 80% harvested, 81% 1992, 95% avg. Oats 57% harvested, 64% 1992, 90% avg. Barley 58% harvested, 71% 1992, 90% avg. Corn 36% tasseling, 38% 1992, 34% avg.; 5% milk to soft, 7% 1992, 10% avg. Sorghum 21% fair, 79% good; 99% planted, 93% 1992, 96% avg.; 86% up to stand, 78% 1992, 79% avg.; 2% heading, 2% 1992, 2% avg. Soybeans 78% planted, 56% 1992, 92% avg.; 62% up to stand, 46% 1992, 71% avg.; 4% flowering, 4% 1992, 3% avg. Peanuts 13% fair, 87% good; 95% up to stand, 83% 1992, 81% avg.; 16% pegging, 26% 1992, 19% avg. Cotton 27% fair, 73% good; 98% up to stand, 79% 1992, 87% avg.; 47% squaring, 19% 1992, 20% avg. Alfalfa 75% 2nd cut, 49% 1992, 79% avg.; 16% 3rd cut, 0% 1992, 8% avg. Pastures 96% of normal. Prices for cattle mixed. Marketings average.

OREGON: Temperatures coastal region 3 to 5° above normal, elsewhere 1 to 8° below normal. Precipitation 0.10 to 0.20 in.

Soil moisture 6% short, 93% adequate, 1% surplus. Winter wheat 3% poor, 12% fair, 54% good, 31% excellent. Winter wheat headed 100%. Wheat, barley harvest have not yet begun, quickly approaching. Hay harvest continued, some over-maturity problems. Mint, grass seed harvest began, Willamette Valley. Willamette Valley sweet corn, snap beans, broccoli, cauliflower plantings continued. Potatoes growing well, statewide. Early variety potato harvest underway, Columbia Basin. Cranberry fruit set, sizing continued, some reports of less than uniform fruit set, girdler moths, black-headed fireworm larvae, black vine weevil active; southern coast. Strawberry harvest nearing completion, raspberry harvest underway, blackberries showing color harvest expected 20th, early variety blueberry harvest underway, sweet, tart cherry harvest continues; Willamette Valley. Royal Ann brine cherry harvest nearly complete, fresh market Bing cherry harvest underway, hand pruning Bartlett pears, apple trees, irrigation of trees underway; Hood River, The Dalles district. Livestock good to excellent. Ranges, pastures excellent. Summer range turn out continued. Western pasture regrowth still ahead of livestock. Range, pasture 110% of normal.

PENNSYLVANIA: Above normal temperatures, precipitation. Temperature 76°, 8° above normal. Extremes 48°; 94°. Precipitation 1.00 in., 0.07 in. above normal.

Days suitable for fieldwork 5. Soil moisture 54% short, 46% adequate. Corn height 23 in., 17 in. 1992, 20 in. avg.; 5% poor, 22% fair, 51% good, 22% excellent. Tobacco 100% transplanted, 99% 1992, 96% avg. Soybeans 98% planted, 94% 1992, 91% avg.; 6% very poor, 5% poor, 20% fair, 52% good, 17% excellent. Barley 81% turning yellow, 76% 1992; 57% ripe, 43% 1992; 39% harvested, 22% 1992. Wheat 74% turning yellow, 60% 1992; 19% ripe, 6% 1992; 4% very poor, 1% poor, 22% fair, 57% good, 16% excellent. Oats 11% turning yellow, 11% 1992; 1% very poor, 7% poor, 31% fair, 50% good, 11% excellent. Alfalfa first cutting 95% complete, 94% 1992. Second cutting alfalfa 38% complete, 16% 1992. Quality of hay made 7% poor, 30% fair, 63% good. First cutting of timothy clover 88% complete, 83% 1992. Feed from pastures poor to fair. Peach 30% below avg., 60% avg., 10% above avg. Apple 5% below avg., 55% avg., 40% above avg. Activities: Making hay, filling silos; harvesting barley; spraying, side dressing, cultivating corn; hauling manure; caring for livestock.

PUERTO RICO: Rainfall 0.52 in., 0.68 in. below normal. Rainfall 4.80 in. Maricao 2SSW, 1.63 in. Adjuntas Aes, 1.62 in. Gurabo Aes. Highest 24 hour total 2.75 in. at Maricao 2SSW on 29th. Island temperatures 81° coasts, 77 to 78° Interior with mean station temperature 84.3° Guayama to 65.4° Cerro Maravilla. Extremes 59°; 95°.

SOUTH CAROLINA: Rainfall 0.40 in. Temperatures 4 to 5° above normal.

Days suitable for fieldwork 6.3. Soil moisture 49% very short, 46% short, 5% adequate. Corn poor; 75% silked, 73% 1992, 79% avg.; 25% dough, 32% 1992, 34% avg.; 7% mature, 0% 1992, 0% avg. Sorghum poor to fair; 86% planted, 66% 1992, 73% avg. Tobacco poor to fair; 70% topped, 62% 1992, 64% avg.; 1% harvested, 7% 1992, 11% avg. Cantaloupes fair; 48% harvested, 47% 1992, 48% avg. Watermelons fair; 49% harvested, 43% 1992, 45% avg. Cucumbers fair; 73% harvested, 74% 1992, NA avg. Tomatoes fair to good; 91% harvested, 61% 1992, 66% avg. Oats

fair; 94% harvested, 84% 1992, 91% avg. Rye fair; 85% harvested, 70% 1992, 86% avg. Wheat fair; 98% harvested, 86% 1992, 93% avg. Fall Hay poor; 14% harvested, 4% 1992, 10% avg. Peaches fair; 27% harvested, 33% 1992, 36% avg. Pasture poor to fair.

SOUTH DAKOTA: Temperatures 2 to 8° below normal. Extremes 40°; 93°. Rainfall was well over an inch north, east while most stations in the far southwest reported less than an inch. Maximum 7.01 in.

Days suitable for fieldwork 2. Topsoil 38% adequate, 62% surplus. Subsoil 3% short, 54% adequate, 43% surplus. Rye 2% very poor, 10% fair, 63% good, 25% excellent. Oats 4% poor, 15% fair, 68% good, 13% excellent. Barley 1% very poor, 3% poor, 11% fair, 66% good, 19% excellent. Flax 2% very poor, 8% poor, 29% fair, 42% good, 19% excellent. Sunflowers 1% very poor, 3% poor, 34% fair, 53% good, 9% excellent. Rains across the State made fieldwork difficult. Cool weather is keeping crop progress behind normal. Disease were being reported in some small grain fields. Weeds continue to be a problem. Livestock 2% fair, 70% good, 28% excellent. Pasture conditions 100% of normal. Haying continues to be difficult due to the rains.

TENNESSEE: Temperatures well above normal for most of the State. Highest temperature recorded was 98°, the lowest 61°. Rainfall 0.75 to 1.00 in. below normal for the middle, eastern portions of the State, averaged 0.75 in. above normal in west. Jackson received the most rain with 1.61 in. while Bristol recorded no rainfall for the week.

Days suitable for fieldwork 4.7. Soil moisture 6% very short, 26% short, 59% adequate, 9% surplus. Corn 20% tasseling, 51% 1992, 35% avg.; 11% fair, 74% good, 15% excellent. Cotton 83% squaring, 65% 1992, 63% avg.; 0% setting bolls, 2% 1992, 4% avg.; 10% fair, 84% good, 6% excellent. Sorghum 0% headed, 7% 1992, 5% avg.; 8% fair, 85% good, 7% excellent. Soybeans 92% planted, 94% 1992, 89% avg.; 1% blooming, 6% 1992, 3% avg.; 8% fair, 82% good, 10% excellent. Tobacco 1% poor, 33% fair, 66% good. Wheat 98% ripe, 100% 1992, 99% avg.; 85% harvested, 92% 1992, 88% avg. Alfalfa hay 67% 2nd cutting harvested, 71% 1992, 66% avg. Cattle 2% poor, 10% fair, 79% good, 5% excellent. Scattered showers boosted growth of corn, soybeans in middle, west. Wheat harvest was delayed early in week because of the rain in west, made great progress overall. Increase in soil moisture levels facilitated planting of double crop soybeans. Above normal temperatures continued to promote excellent cotton growth. Boll weevil populations are still heavy. Still finding boll weevils after pin head square spray applications were made. Cotton condition keeps improving.

TEXAS: A dome of high pressure over Eastern Texas kept that portion of State dry last week. Stable warm air mass resisted formation of showers over eastern two thirds of State. Moist air, thunderstorms did circle edge of high pressure dome in West Texas. Storms most active over Trans Pecos, High Plains areas. Temperatures at or above normal most locations. Data show that only Southern High Plains had an overall above normal rainfall total. All other areas of State were from tenth to nearly an inch below normal. Usually active rice belt area was caught under stable air mass all week, had biggest departure from normal rainfall of 0.99 in. South Texas, Lower Valley had below normal temperature averages for week. Rest of State showed at or slightly above normal temperatures.

Crops: Corn stands made good progress in Blacklands, Edwards Plateau, East Texas, Plains. Irrigation continued in Plains. Statewide corn condition 88% normal, 91% 1992. Cotton producers

were spraying for boll weevils in Blacklands, Low Plains. Some fields in Central Texas, Coastal Bend, Upper Coast were stressed from recent heavy rains. Statewide cotton condition 82% normal, 47% 1992. Rice fields made good progress, more fields beginning to head but crop remained behind schedule. Upper Coast producers sprayed for weeds. Rice 82% normal, 89% 1992. Grain sorghum planting winding down in High Plains where emerged stands made good progress. Some producers in Blacklands treated for midge. Harvesting had begun in Coastal Bend, Rio Grande Valley. Sorghum condition 82% normal, 85% 1992. Small grain harvest winding down in parts of Plains last week. Producers continued to plow up harvested fields. Wheat 63% normal, 83% 1992. Peanut stands continued make good progress. Some young plants in Cross Timbers suffered from wind damage. Planting continued in Central Texas. Peanut 83% normal, 81% 1992. Soybean planting winding down. Upper Coast needs more dry weather.

Commercial Vegetables: Rio Grande Valley, farmers preparing soil, getting ready for fall planting. San Antonio Winter Garden, harvesting of cantaloupes, onions, watermelons continued. East Texas, producers received some much needed dry weather, many fields continued to suffer from excessive rainfall that was received during month of June. The excess moisture has reduced yields, increased insect, disease problems. High Plains, producers continued to irrigate. Harvesting of onions continued. Planting of pumpkins continued, potatoes were being harvested in Knox Haskell area. Trans Pecos, chilies had begun to bloom, harvesting of cantaloupes had started. Peach harvest active most areas of State with some good yields being reported in Edwards Plateau. Pecans are sizing, filling across State. Webworms increasing in Edwards Plateau.

Range and Livestock: Range, pasture condition remained good in most areas. Open weather conditions allowed for resumption of hay baling in most areas. Supplemental feeding continued in Trans Pecos, parts of High Plains.

UTAH: Temperature maximums 3 to 4° above normal, minimums were at normal. Light precipitation was reported in the Northern Mountains while all other divisions reported none.

Days suitable for fieldwork 6.7. Soil moisture 25% short, 75% adequate. Winter wheat ripe 7%, 49% 1992, 20% avg. Spring wheat headed or better 88%, 99% 1992. Barley headed or better 89%, 98% 1992; ripe 5%, 41% 1992. Oats jointed or better 81%; headed or better 51%, 82% 1992, 67% avg. Corn height 20 inches, 26 inches 1992, 20 inches avg. Alfalfa hay 1st cutting 98% complete; hay 2nd cutting 11% complete, 22% 1992. Other hay cut 42%, 45% 1992, 37% avg. Sweet cherries picked 47%. Pasture, range good to excellent.

VIRGINIA: Temperatures above normal except below normal in the north. Extremes 43°; 96°. Precipitation was below normal.

Days suitable for fieldwork 6.2. Topsoil 24% very short, 65% short, 11% adequate. Pasture 16% poor, 65% fair, 15% good, 4% excellent. Alfalfa 2% very poor, 41% poor, 49% fair, 8% good. Other hay 10% poor, 59% fair, 26% good, 5% excellent. Barley 96% harvested, 90% 1992, 94% avg. Oats 67% harvested, 60% 1992, 70% avg. Wheat 65% harvested, 30% 1992, 69% avg. Apple 12% poor, 25% fair, 50% good, 13% excellent. Potatoes 5% harvested. Corn silked 12%, 8% 1992, 16% avg.; dough stage 1%, 1% 1992, 2% avg.; 17% poor, 68% fair, 15% good. Peanut 40% fair, 60% good. Soybeans 78% planted, 80% 1992, 86% avg.; 6% poor, 93% fair, 1% good. All tobacco 13% poor, 63% fair, 24% good. Livestock 18% fair, 79% good, 3% excellent.

Harvesting hay, irrigating tobacco, spraying fruit, harvesting cucumbers.

WASHINGTON: Temperatures 2° below normal to 2° above normal west; 10° below normal to 1° below normal east. Precipitation 0.03 to 1.29 in. west; none to 0.49 in. east.

Days suitable for fieldwork 5.8. Soil moisture 33% short, 66% adequate, 1% surplus. Irrigation water supply 19% short, 81% adequate. Hay, other roughage 3% short, 95% adequate, 2% surplus. Range, pasture 37% fair, 51% good, 12% excellent. Winter wheat dryland 10% fair, 90% good; irrigated 100% good. Spring wheat dryland 20% fair, 80% good; irrigated 5% fair, 95% good. Barley dryland 40% fair, 60% good; irrigated 5% fair, 95% good. Cereal grains looked good in most areas as harvest nears. Reports of rain damage to the hay crops continued. Strawberry harvest is winding down. Cherry harvest continued with some areas starting to finish up. Most livestock were on summer ranges as grazing continued to look good due to the cool weather.

WEST VIRGINIA: Temperature 74°. Extremes 49°; 96°. Precipitation 1.21 in.

Days suitable for fieldwork 4.0. Soil moisture, 4% very short, 38% short, 54% adequate, 4% surplus. Wheat 100% good; 78% ripe, 5% harvested. Barley 92% fair, 8% good; 100% ripe, 90% harvested. Oats 4% poor, 15% fair, 81% good. Corn 5% poor, 5% fair, 90% good; 99% emerged. Soybeans 9% fair, 91% good; 95% planted, 90% emerged. Hay 6% poor, 13% fair, 81% good; 84% 1st cut, 10% 2nd cut. Apples good. Peaches good. Tobacco good; 100% set. Pastures 8% very poor, 8% poor, 12% fair, 69% good, 3% excellent; 82% of normal. Cattle 8% poor, 2% fair, 87% good, 3% excellent. Sheep 29% fair, 70% good, 1% excellent. Gardens 5% poor, 9% fair, 86% good; 98% planted, 97% emerged. Farm activities: General maintenance, moving livestock, planting gardens, soybeans, cutting hay, setting tobacco.

WISCONSIN: High humidity, precipitation primary weather conditions. Temperature 66°; 3° below normal. Extremes 39°; 93°. Precipitation 0.60 to 2.80 in.

Days suitable for fieldwork 3.7. Soil moisture 23% adequate, 77% surplus. Pasture 89% of normal, 55% 1992, 66% avg. General condition of crops: 1% very poor, 12% poor, 52% fair, 33% good, 2% excellent. Oats headed 33%, 70% 1992, 78% avg.; 4% very poor, 13% poor, 39% fair, 40% good, 4% excellent. Corn 4% very poor, 20% poor, 56% fair, 18% good, 2% excellent; height 12 in., 22 in. 1992, 30 in. avg. Soybean 13% poor, 58% fair, 27% good, 2% excellent. 1st cut alfalfa: 70% harvested, 91% 1992, 90% avg. Primary activities: Hay harvesting.

WYOMING: Temperatures generally 1 to 3° below normal. Above normal temperatures were reported in the southeast, south central sections. Precipitation was below normal, except in the northeast where precipitation was 0.25 to 1.50 in. above normal.

Days suitable for fieldwork 5.5. Topsoil 7% short, 89% adequate, 4% surplus. Spring wheat 4% turning color, 9% 1992, 11% avg. Oats 2% turning color, 6% 1992, 6% avg. Barley 7% turning color, 14% 1992, 12% avg. Winter wheat 20% turning color, 41% 1992, 39% avg. Sugarbeets 85% thinned, 95% 1992, 97% avg. Corn average height 17 in. Dry beans 95% emerged. Potatoes 86% emerged. Alfalfa 1st cutting completed 46%, 53% 1992, 63% avg. Other hay 1st cutting completed 18%, 15% 1992, 23% avg. Insect infestation mostly none to light. Hail damage mostly none to light. Percent of cattle, calves moved to summer ranges 93%. Percent of sheep, lambs moved to summer ranges 86%. Range, pastures good to excellent.

June 1993

MONTHLY DATA FROM SELECTED FOREIGN CITIES
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
*** = DATA NOT AVAILABLE

International Weather and Crop Summary
HIGHLIGHTS

June 27 - July 3, 1993

FSU: Cool, wet weather covered crops in Belarus, Russia, and Ukraine. In the New Lands, unseasonably warm weather promoted vegetative growth of spring grains.

EUROPE: Some beneficial rain fell in crop areas of Hungary and Denmark.

SOUTH ASIA: Expanding dryness in southern India reduced moisture for grains, oilseeds, and cotton.

SOUTHEAST ASIA: Scattered showers brought some relief to Thailand's rice and corn.

EASTERN ASIA: Rain favored summer crops across the North China Plain, but delayed winter wheat harvesting. Excessive moisture continued to plague portions of southern China.

AUSTRALIA: Rain is needed to alleviate dry topsoils across eastern Australia.

SOUTH AMERICA: Dry weather allowed fieldwork to progress in central Argentina and southern Brazil.

CANADA: Rain improved Prairie grain and oilseed prospects, but cool weather slowed crop growth.

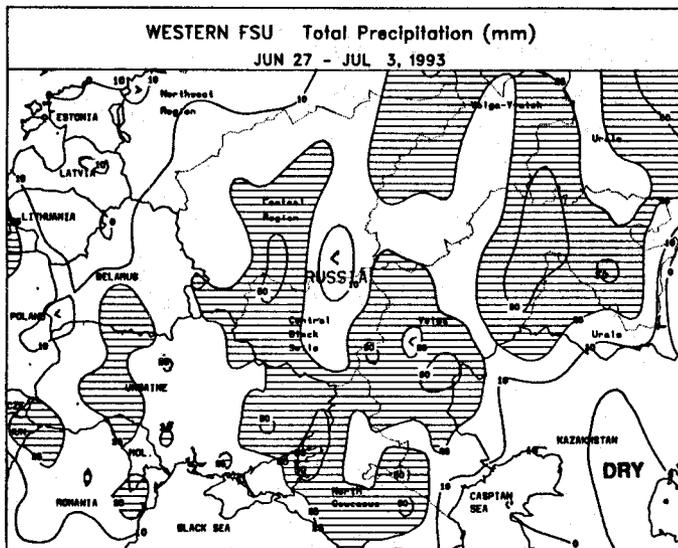
MEXICO: Widespread showers covered central and southern Mexico, favoring corn but causing local flooding.

COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL F/NRM	
NORWAY	OSLO	18	7	25	3	12	-1.7	11	-62
SWEDEN	STOCKHOLM	19	8	26	4	13	-2.3	77	30
FINLAND	HELSINKI	17	7	22	3	12	-2.6	50	6
UKING	GLASGOW	17	10	24	4	14	-0.4	43	-23
	EDINBURGH	17	9	24	5	13	0.0	75	25
	BIRMINGHAM	20	10	25	4	15	0.9	56	-1
	LONDON	21	11	27	7	16	1.6	50	-6
IRELAND	DUBLIN	18	11	23	6	14	0.7	146	90
ICELAND	REYKJAVIK	12	7	18	3	9	0.7	59	9
DENMARK	COPENHAGEN	19	10	26	5	15	-0.7	41	-6
LUXEMBOURG	LUXEMBOURG	22	12	29	7	17	1.5	42	-32
SWITZERLAND	ZURICH	22	13	29	9	17	1.9	127	0
	GENEVA	24	13	30	8	18	1.8	87	0
FRANCE	PARIS/ORLY	23	14	30	11	19	***	47	**
	STRASBOURG	24	13	32	8	18	1.3	51	-25
	BOURGES	23	13	30	9	18	1.4	82	24
	BORDEAUX	24	15	32	10	20	2.1	133	76
	TOULOUSE	25	15	32	11	20	1.6	120	61
	MARSEILLE	27	17	33	13	22	1.6	8	-21
SPAIN	VALLADOLID	26	12	33	6	19	1.0	52	17
	MADRID	28	14	35	9	21	0.1	40	14
	SEVILLE	31	17	38	13	24	-0.8	3	-6
PORTUGAL	LISBON	25	16	35	13	21	0.8	8	-14
GERMANY	HAMBURG	19	11	28	7	15	-0.6	101	27
	BERLIN	20	12	30	8	16	-1.1	81	6
	DUSSELDORF	23	12	31	6	17	0.2	33	-33
	LEIPZIG	21	12	29	5	16	-0.3	112	45
	DRESDEN	21	12	29	7	16	-0.1	70	2
	STUTTGART	22	12	29	7	17	0.5	82	-12
	NURNBERG	22	12	32	6	17	0.4	128	53
AUSTRIA	VIENNA	24	13	30	9	19	0.3	52	-10
	INNSBRUCK	23	12	33	7	17	1.1	99	-8
CZECH REPUBLIC	PRAGUE	21	11	30	5	16	0.0	81	8
POLAND	WARSAW	21	11	30	7	16	-1.0	50	-21
	LODZ	20	11	30	8	16	-0.1	62	-7
	KATOWICE	21	10	29	5	16	-0.2	88	0
	PRZEMYSL	21	11	28	8	16	-0.3	64	-33
HUNGARY	BUDAPEST	26	15	32	10	20	1.3	20	-44
YUGOSLAVIA	BELGRADE	27	16	36	11	22	1.7	51	-42
ROMANIA	BUCHAREST	27	13	35	7	20	-0.4	64	-24
BULGARIA	SOFIA	26	13	35	9	19	1.6	23	-61
ITALY	MILAN	28	17	32	12	23	2.1	38	-29
	VERONA	29	18	33	13	24	2.9	37	-50
	VENICE	26	18	29	11	22	1.4	58	-18
	GENOVA	25	19	28	16	22	0.5	20	-29
	ROME	27	16	33	12	22	0.8	2	-19
	NAPLES	28	18	32	14	23	1.7	41	7
GREECE	THESSALONIKA	30	18	37	14	24	-0.2	36	4
	LARISSA	32	17	40	14	24	-0.5	1	-23
	ATHENS	30	20	36	14	25	-0.1	6	-2
TURKEY	ISTANBUL	26	18	32	14	22	1.3	22	-2
	ANKARA	25	8	34	5	17	-3.7	9	-29
CYPRUS	LARNACA	30	19	38	16	24	-0.2	1	-5
ESTONIA	TALLINN	16	8	24	4	12	-2.4	68	18
FSU	ST. PETERSBURG	17	10	22	6	13	-2.4	75	21
LITHUANIA	KAUNAS	19	9	28	4	14	-1.8	45	-28
FSU	MINSK	20	10	26	6	15	-1.3	52	-26
	KAZAN	21	11	27	5	16	-1.1	56	-13
	MOSCOW	19	9	26	4	14	-2.7	130	53
	YEKATERINBURG	23	12	31	4	18	1.4	45	-26
	OMSK	25	13	32	6	19	0.8	50	-9
	KUSTANAY	24	14	36	8	19	0.2	55	15
	KRASNOYARSK	21	11	26	1	16	0.3	65	5
	NOVOSIBIRSK	22	12	28	6	17	1.2	64	10
	BARNAUL	22	13	27	6	18	-0.1	74	31
	KHABAROVSK	21	11	28	5	16	-1.5	71	-8
	VLADIVOSTOK	15	10	23	6	12	-0.7	165	53
	KIEV	22	12	27	9	17	-1.1	88	17
	LVOV	21	11	28	6	16	-0.2	79	-19
	KIROVOGRAD	22	12	28	1	17	-2.3	82	30

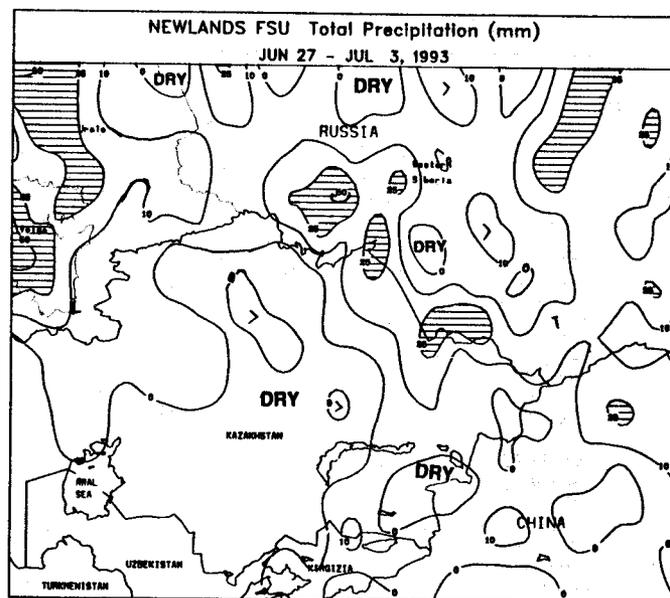
Based on Preliminary Reports

June 1993

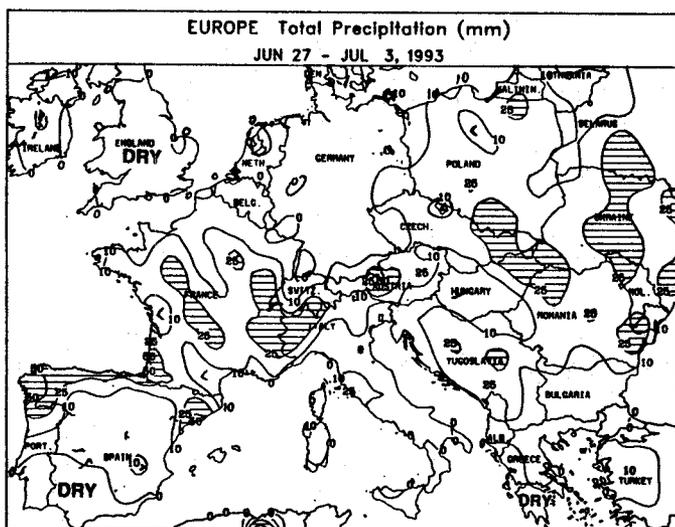
COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)			COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)			
		AVG	AVG	HI	LO	DPART	DPART	TOTAL	F/NRM			AVG	AVG	HI	LO	DPART	DPART	TOTAL	F/NRM	
		MAX	MIN	MAX	MIN	AVG	F/NRM	TOTAL	F/NRM			MAX	MIN	MAX	MIN	AVG	F/NRM	TOTAL	F/NRM	
USSR	ODESSA	23	15	28	12	19	-0.3	45	3	KENYA	NAIROBI	24	14	29	11	19	1.0	43	17	
FSU	YALTA	25	16	32	13	20	-0.5	38	-5	TANZAN	DAR ES SALAAM	29	20	30	17	24	0.3	8	-27	
	VORONEZH	21	11	27	5	16	-2.6	60	-9	GABON	LIBREVILLE	28	23	29	20	25	0.0	4	-15	
	SARATOV	22	14	28	9	18	-0.4	24	-20	TOGO	LOME	29	24	31	18	27	0.6	114	-165	
	KHARKOV	21	12	27	8	17	-2.1	79	20	B FASO	OUAGADOUGOU	35	25	38	20	30	0.6	112	4	
	VOLGOGRAD	24	14	30	9	19	-2.7	101	75	IVRY C	ABIDJAN	29	24	31	18	27	0.4	489	-79	
	ROSTOV	23	14	31	11	19	-2.1	80	21	MOZAMB	MAPUTO	26	14	29	9	20	0.7	13	-2	
	ASTRAKHAN	28	16	35	11	22	-0.7	47	25	ZAMBIA	LUSAKA	22	8	27	5	15	-1.6	0	-1	
	KRASNODAR	25	14	32	10	20	-1.5	102	25	ZIMBAB	HARARE	22	9	24	6	15	2.1	0	-2	
	ORENBURG	24	13	33	7	19	-1.1	61	23	S AFRI	PRETORIA	21	5	25	1	13	1.4	1	-6	
	TSELINOGRAD	24	14	30	8	19	0.9	61	29		JOHANNESBURG	17	2	21	-4	10	0.0	0	-9	
	KARAGANDA	24	13	31	7	18	-0.6	47	11		BETHAL	18	-1	22	-6	9	0.4	0	-8	
	TBILISI	26	16	33	12	21	-0.4	177	109		DURBAN	24	11	30	6	18	1.3	9	-19	
	TASHKENT	32	18	38	13	25	-0.6	13	6		CAPE TOWN	18	8	25	4	13	0.5	75	-18	
	ASHKHABAD	35	21	42	16	28	-0.6	28	24	CANADA	TORONTO	23	12	29	6	17	-0.2	135	66	
SYRIA	DAMASCUS	34	13	40	9	24	-0.9	0	0		MONTREAL	23	12	30	5	18	-0.3	94	11	
ISRAEL	JERUSALEM	29	16	37	12	23	0.6	0	0		WINNIPEG	21	10	30	1	15	-1.5	79	-2	
PAKIST	KARACHI	36	29	41	28	33	1.2	0	-5		REGINA	21	8	32	2	14	-2.0	87	21	
INDIA	AMRITSAR	40	26	45	21	33	0.8	76	20		SASKATOON	20	7	31	2	14	-2.5	58	-2	
	NEW DELHI	39	28	46	20	34	0.3	148	79		LETHBRIDGE	20	8	29	1	14	-1.6	132	65	
	AHMEDABAD	40	28	44	23	34	1.2	14	-87		CALGARY	19	7	27	1	13	-1.0	119	43	
	INDORE	37	25	45	21	31	1.2	152	16		EDMONTON	20	9	26	6	15	-0.9	78	-2	
	CALCUTTA	33	26	35	23	30	-0.3	294	44		VANCOUVER	20	12	23	9	16	0.8	73	27	
	VERAVAL	32	28	34	24	30	0.5	70	-129	MEXICO	GUADALAJARA	30	17	37	15	23	0.7	162	10	
	BOMBAY	32	27	35	23	30	0.7	370	-278		MEXICO CITY	**	14	31	12	**	**	105	1	
	POONA	33	23	41	20	28	0.5	135	11		ACAPULCO	33	25	36	22	29	0.1	267	21	
	BEGAMPET	36	25	41	21	31	1.6	88	-19		BERMUD	ST. GEORGES	27	22	29	19	24	-0.8	93	-44
	VISHAKHAPATNAM	33	27	36	21	30	**	114	**		BAHAMA	NASSAU	31	24	33	21	27	0.4	133	-87
	MADRAS	37	27	41	23	32	-0.1	64	1		CUBA	HAVANA	31	24	32	21	27	0.9	58	-104
	MANGALORE	30	24	34	22	27	0.6	783	-199		JAMAIC	KINGSTON	33	26	34	24	30	1.3	25	-40
H KONG	KINGS PEAK	30	26	32	24	28	**	459	**		P RICO	SAN JUAN	32	25	34	22	29	0.6	139	37
N KREA	PYONGYANG	23	15	28	8	19	0.4	343	186		GUADEL	RAIZET	32	25	33	22	28	1.2	36	-27
S KREA	SEOUL	26	18	29	14	22	1.1	196	27		MARTINQ	LAMENTIN	31	25	32	23	28	1.3	84	-85
JAPAN	SAPPORO	19	13	25	10	16	-0.1	74	6		BARBAD	BRIDGETOWN	31	26	32	22	28	0.6	55	-27
	NAGOYA	26	19	33	14	22	0.0	305	85		TRINID	PORT OF SPAIN	32	25	33	24	28	1.8	82	-154
	TOKYO	25	19	32	14	22	0.4	264	78		COLOMB	BOGOTA	19	10	20	5	14	0.8	28	-39
	YOKOHAMA	25	19	31	14	22	0.7	178	-38		VENEZU	CARACAS	32	24	34	20	28	1.1	54	-1
	KYOTO	27	19	34	12	23	0.8	301	54		F GUIA	CAYENNE	30	23	31	22	26	0.7	413	-39
	OSAKA	27	20	31	14	23	0.2	308	101	BRAZIL	FORTALEZA	**	**	30	22	**	**	44	-110	
THAILN	PHETCHABUN	35	25	38	22	30	1.9	81	-101		RECIFE	**	**	28	21	**	**	243	-120	
	BANGKOK	35	27	37	24	31	1.3	159	11		BELO HORIZONTE	23	15	27	12	19	0.3	11	-2	
MALAYS	KUALA LUMPUR	33	24	35	22	29	1.6	236	109		CAMPO GRANDE	**	**	30	10	**	**	**	**	
VIETNM	HANOI	34	28	39	25	31	1.5	170	-69		FRANCA	23	14	26	7	19	1.4	42	20	
CHINA	HARBIN	23	14	28	9	19	-1.2	167	99		LONDRINA	23	**	26	4	**	**	112	16	
	HAMI	31	16	36	10	23	-1.5	2	-4		SANTIA MARIA	**	**	25	1	**	**	**	**	
	LANCHOW	27	14	32	8	21	0.4	25	-12		PORTO ALEGRE	19	11	27	3	15	0.0	78	-62	
	BEIJING	31	20	35	13	25	1.0	35	-36		PERU	LIMA	22	18	26	16	20	2.2	0	-1
	TIENTSIN	30	19	35	13	25	0.3	61	-5		BOLIVI	LA PAZ	14	-3	18	-7	6	-1.1	9	6
	LHASA	22	9	27	1	16	-0.6	72	2		CHILE	SANTIAGO	15	4	22	-2	10	1.6	15	-51
	KUMMING	26	17	29	12	21	1.7	44	-126		ARGENT	IGUAZU	21	11	28	1	16	**	193	**
	CHENGCHOW	32	20	37	13	26	0.0	95	34		FORMOSA	23	13	32	3	18	1.2	33	-26	
	YECHANG	31	23	36	18	27	2.9	66	-85		CERES	19	6	25	-4	13	0.1	3	-19	
	HANKOW	31	23	36	18	27	1.4	137	-68		CORDOBA	18	4	27	-1	11	0.6	0	-11	
	CHUNGKING	30	22	36	18	26	**	142	**		RIO CUARTO	15	5	25	-3	10	0.3	1	-16	
	CHITKIANG	30	22	35	17	26	1.0	258	62		ROSARIO	16	6	20	-3	11	1.0	9	-28	
	WU HU	29	22	36	16	26	**	121	**		BUENOS AIRES	15	7	20	-2	11	1.1	115	65	
	SHANGHAI	28	22	36	17	25	**	140	**		SANTIA ROSA	14	3	21	-4	9	0.9	27	11	
	NANCHANG	29	23	34	18	26	0.5	301	19		TRES ARROYOS	13	5	16	-1	9	1.4	93	64	
	TAIPEI	31	25	35	21	28	1.4	366	50	N CALD	NOUMEA	24	18	28	16	21	0.1	45	-84	
	CANTON	32	25	35	22	28	0.8	595	338	FIJI	NAUSORI	27	21	29	17	24	0.5	96	-45	
	NANNING	33	26	36	24	29	1.2	167	-49	SAMOA	PAGO PAGO	29	25	36	22	27	0.2	108	-81	
CNRY I	LAS PALMAS	25	19	27	17	22	0.7	0	0	TAHITI	PAPEETE	30	22	33	20	26	1.1	216	157	
MOROCC	CASABLANCA	23	18	27	14	21	0.6	3	-3	N ZEAL	AUCKLAND	16	11	18	7	14	1.9	0	-121	
	MARRAKECH	32	17	36	15	24	1.2	0	-2		WELLINGTON	14	10	17	3	12	**	97	**	
ALGERI	ALGER	28	17	32	13	22	0.9	1	-20	PA N G	PORT MORESBY	29	23	31	22	26	0.0	1	-55	
	BATNA	32	**	37	**	**	**	0	-23	AUSTRL	DARWIN	31	21	33	17	26	0.9	0	-2	
TUNISI	TUNIS	30	18	37	14	24	1.1	1	-10		MOREE	18	5	22	-1	11	-0.4	37	11	
NIGER	NIAMEY	38	27	41	21	32	0.8	105	38		BRISBANE	21	10	24	5	16	-0.4	10	-64	
MALI	TIMBUKTU	42	29	47	23	36	1.3	35	19		PERTH	17	9	20	6	13	-0.8	82	-86	
	BAMAKO	36	24	41	21	30	1.2	158	31		CEDUNA	17	5	22	1	11	-1.3	13	-19	
MAURIT	NOUAKCHOTT	35	23	45	20	29	2.1	0	0		ADELAIDE	15	8	17	3	11	-0.5	32</		



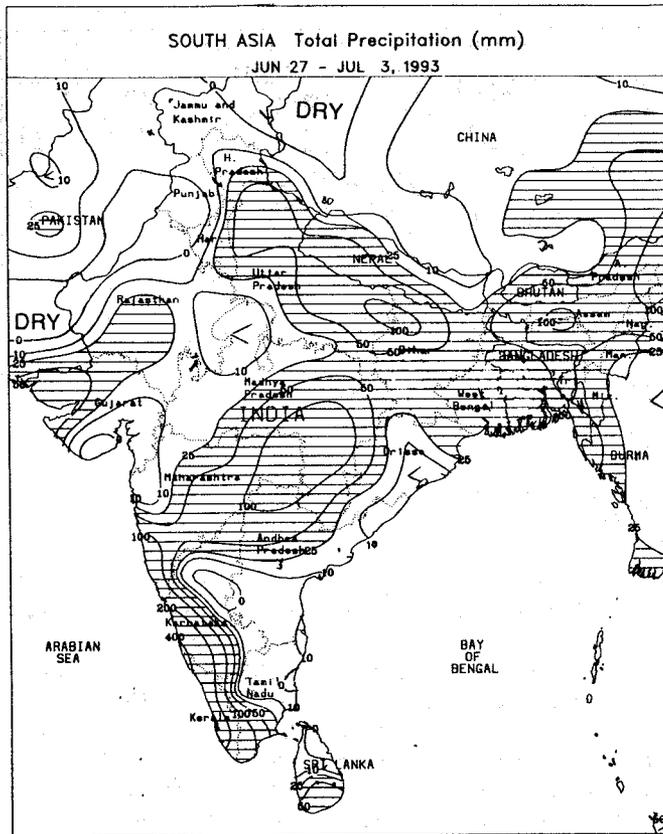
FSU-WESTERN: Showers and thunderstorms covered most of the region, producing variable amounts of precipitation. Precipitation amounts in Belarus, Ukraine, and Russia generally ranged from 10 to 30 mm, with local amounts in excess of 50 mm scattered throughout these areas. The rain provided favorable moisture for those winter grains in the filling stage, spring grains in the reproductive-filling stages, as well as corn, sunflowers, and sugar beets in the vegetative stage. However, some lodging in winter and spring grains occurred. Elsewhere, drier weather returned to the Baltic States, following last week's improved moisture. Weekly average temperatures were 3-6 degrees Celsius (C) below normal over the region, slowing crop development.



FSU-NEW LANDS: Unseasonably warm weather accompanied a drying trend over spring grain areas in Kazakhstan. Weekly average temperatures in Kazakhstan ranged from 3 to 5 degrees C above normal, with extreme maximum temperatures ranging from 31 to 36 degrees C. While the hot spell promoted the vegetative growth of spring grains, moisture reserves were adequate to meet increasing crop-water requirements. Kazakhstan's hot weather progressed northward into the eastern Urals and Siberia, where precipitation ranged from 8 to 20 mm, with local amounts in excess of 25 mm. By week's end, cooler weather and light, scattered showers lowered temperatures to more seasonable levels in Kazakhstan, the Urals, and Siberia.

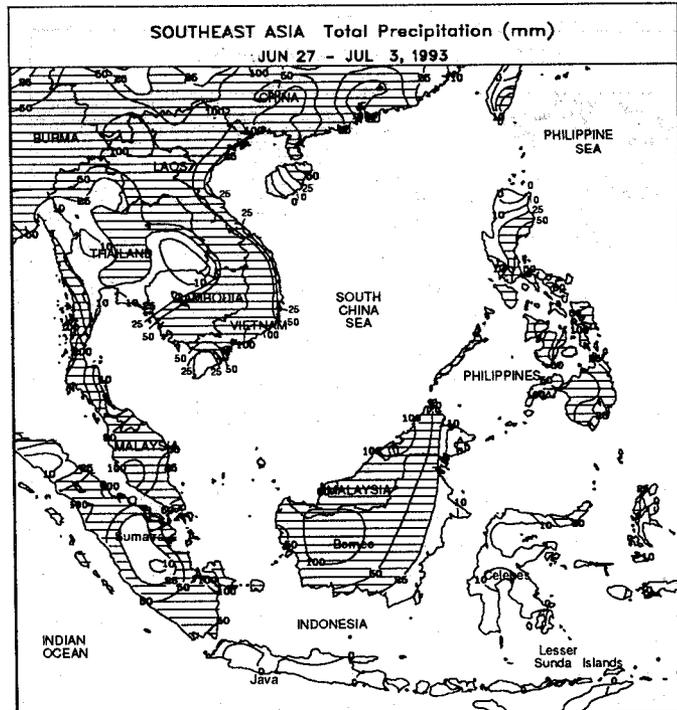


EUROPE: Mostly dry weather from England to Germany promoted winter grains maturity. Showers (15-45 mm) continued to favor corn and sugar beet growth from central France to Poland. Several dry days allowed winter grain harvesting to progress in France. Some beneficial rain (9-37 mm) fell in Italy's Po Valley, but rainfall has been limited in recent weeks. In eastern Europe, unfavorably dry weather continued to stress corn and other summer crops in western Hungary and southern Slovakia. However, beneficial showers (15-37 mm) provided some relief from drought conditions in eastern Hungary. Variable rain (6-31 mm) moistened corn areas in Romania, while only light rain fell in Bulgaria. Winter grains were in the filling stage in Poland and the Czech Republic. In Scandinavia, showers (5-20 mm) helped crops in Denmark, where soil moisture is limited for crop development. Scattered, mostly light showers fell in Finland and Sweden, where topsoil moisture has been generally adequate for crop growth.

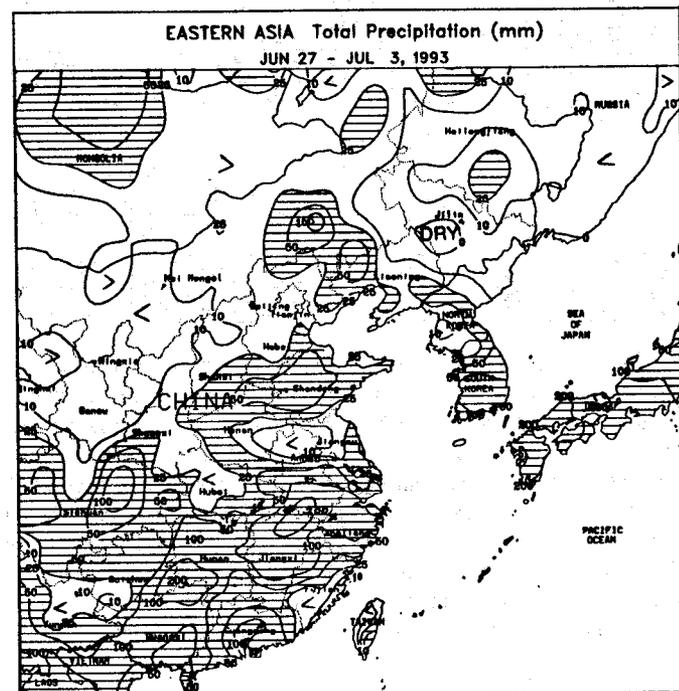


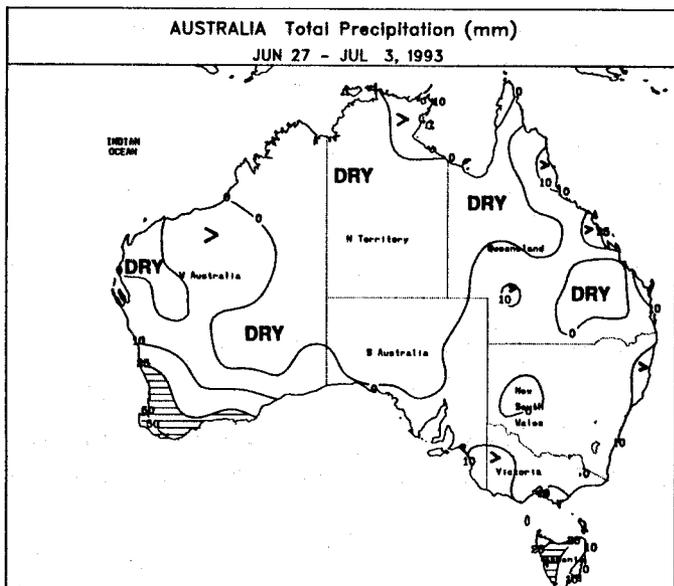
SOUTH ASIA: Dry, warm weather continued for the second week over southern India, reducing moisture for main-season grains, oilseeds, and cotton. The dryness expanded to cover many rice areas of Andhra Pradesh and Orissa. Rainfall also tapered off over primary rainfed cotton and oilseed areas of Gujarat and western Madhya Pradesh, with most areas receiving less than 25 mm. However, late-week rain (42-130 mm) brought some relief to Maharashtra's rainfed crops. Further east, moderate to heavy rain (50-100 mm or more) covered a large section of east-central India as well as portions of Bangladesh and India's eastern states, maintaining adequate to abundant irrigation reserves for rice and other crops, but preventing flood waters from subsiding.

EASTERN ASIA: Moderate to heavy rains (21-80 mm) covered the North China Plain, favoring irrigation supplies and rainfed corn, cotton, and soybeans, but delaying winter wheat harvesting. Widespread showers (30-125 mm with isolated amounts greater than 200 mm) kept irrigation supplies high for rice across southern China but caused some local flooding. The showers slowed early-double crop rice harvesting and late-double crop rice transplanting. Heavy showers (50-125 mm), primarily from the remnants of Typhoon Koryn, persisted across Guangdong, compounding flooding problems on already saturated fields. The excessive moisture occurred during early-double crop rice maturation and harvesting, causing some yield losses and damage to paddy fields. Moderate to heavy rains (20-100 mm) continued to bring relief to rainfed grains in central China (Sichuan and Hubei). Scattered rain (5-13 mm) fell across Manchuria, keeping topsoils moist for vegetative summer crops.

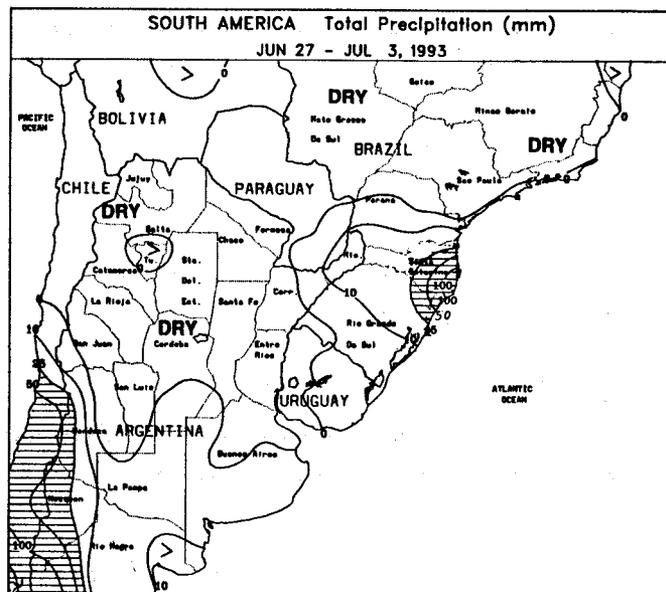


SOUTHEAST ASIA: Scattered showers (25-104 mm) brought some relief to Thailand's vegetative to reproductive rainfed rice and corn. However, dry pockets continued throughout primary crop regions, and temperatures were warmer than normal, maintaining high evapotranspiration rates. Showers (50-200 mm or more) increased over the Malay Peninsula, with some flooding likely along the west coast of Thailand. In the Philippines, dry weather returned to the sections of Luzon hardest hit by Typhoon Koryn. Moderate to heavy showers (25-153 mm) over southern crop areas benefited drought-stricken rice and corn areas.

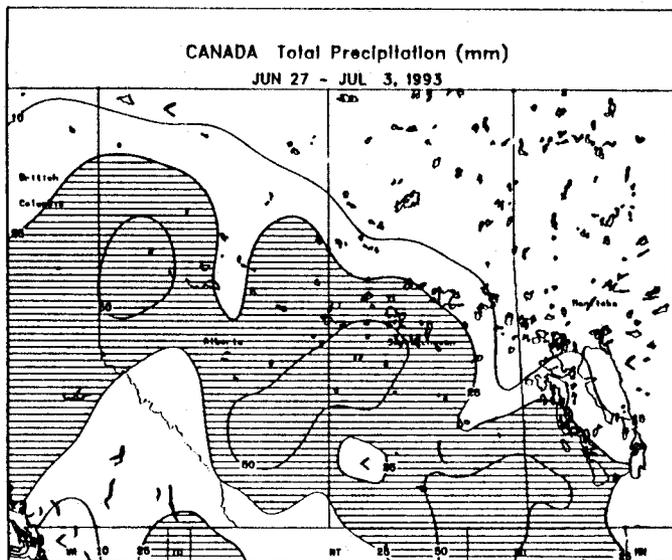




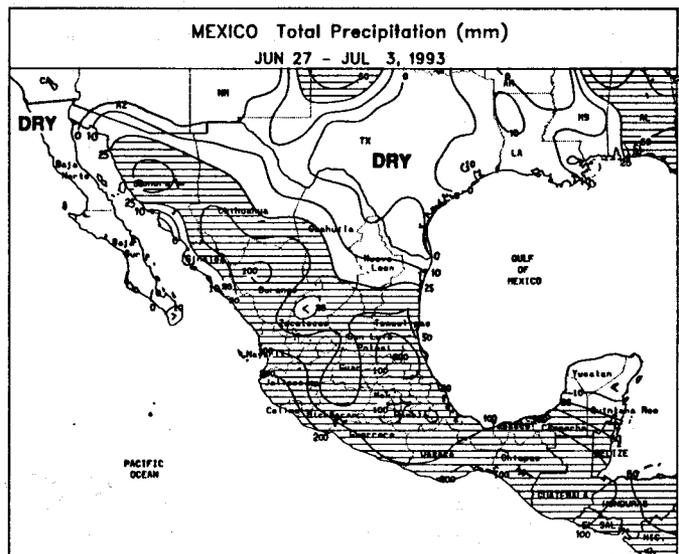
AUSTRALIA: Scattered light rain (less than 5 mm) provided little relief for dry topsoils across southern Queensland. Light rain (2-16 mm) fell across eastern South Australia and Victoria, favoring germinating winter wheat. Western Australia received light to moderate rain (9-30 mm), keeping topsoils moist for germinating wheat. Scattered showers (7-30 mm) slowed sugarcane fieldwork in northeastern Queensland.



SOUTH AMERICA: Dry weather prevailed across central Argentina, allowing winter wheat planting and late soybean harvesting to progress. Winter wheat planting is about 10-20 percent completed. Temperatures averaged 1-2 degrees C above normal, increasing drying rates in flooded fields. In southern Brazil, light rain (3-20 mm) fell across Santa Catarina, favoring vegetative winter wheat. Elsewhere, seasonal dryness allowed citrus, coffee, and sugarcane harvesting to continue. Temperatures averaged 3-6 degrees C above normal across southern Brazil. Central Chile received moderate to heavy rain (20-90 mm), benefiting irrigation supplies and rainfed winter grains.



CANADA: Widespread, beneficial showers (15-116 mm) continued across the Prairies, improving spring grain and oilseed prospects. Rainfall ranged from 20 to 73 mm across southern Saskatchewan, which had been trending dry and needed rain for normal crop development. Cooler-than-normal temperatures (1-5 degrees C below normal) accompanied the rain, slowing crop growth. Spring grains and oilseeds across the southern Prairies were entering the heading and flowering stages. In Ontario, drier and cooler weather developed over the primary crop areas. Periods of sunny weather benefited reproductive winter wheat and vegetative corn.



MEXICO: Heavy tropical showers (100-225 mm) covered southern Mexico (from Colima through southern Guerrero and into Chiapas), causing flooding. Widespread moderate-to-heavy showers (30-125 mm) fell across the southern Plateau corn belt, keeping soils well watered for vegetative corn but causing local flooding. Variable showers (9-60 mm) dotted the northwest, aiding reservoir levels.

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(Continued from front cover)

fieldwork and normal crop development, and winter wheat harvest activities were slowed by sporadic downpours in **Kansas** and the **lower Ohio Valley**. On the **Mississippi River**, water levels began to drop along the **Minnesota-Wisconsin border**, allowing some locks to re-open, but barge traffic remained essentially halted due to flooding from **Dubuque, IA** downstream to **St. Louis, MO**. By week's end, a broad crest at 7 feet above flood stage reached the Quad Cities (**Davenport, IA** area). In addition, flooding developed during the week along the **lower Missouri River**, halting river traffic downstream from **Jefferson City, MO**. Late in the week, heat spread into the **Southeast**, pushing temperatures above 100°F in piedmont sections of **South Carolina** and **Georgia**. Meanwhile, cool air filtered into the **West**, allowing the mercury to reach 33°F in **Elko, NV**, and resulting in up to 3 inches of snow in the **central Rockies**.

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