

WEEKLY WEATHER AND CROP BULLETIN

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

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

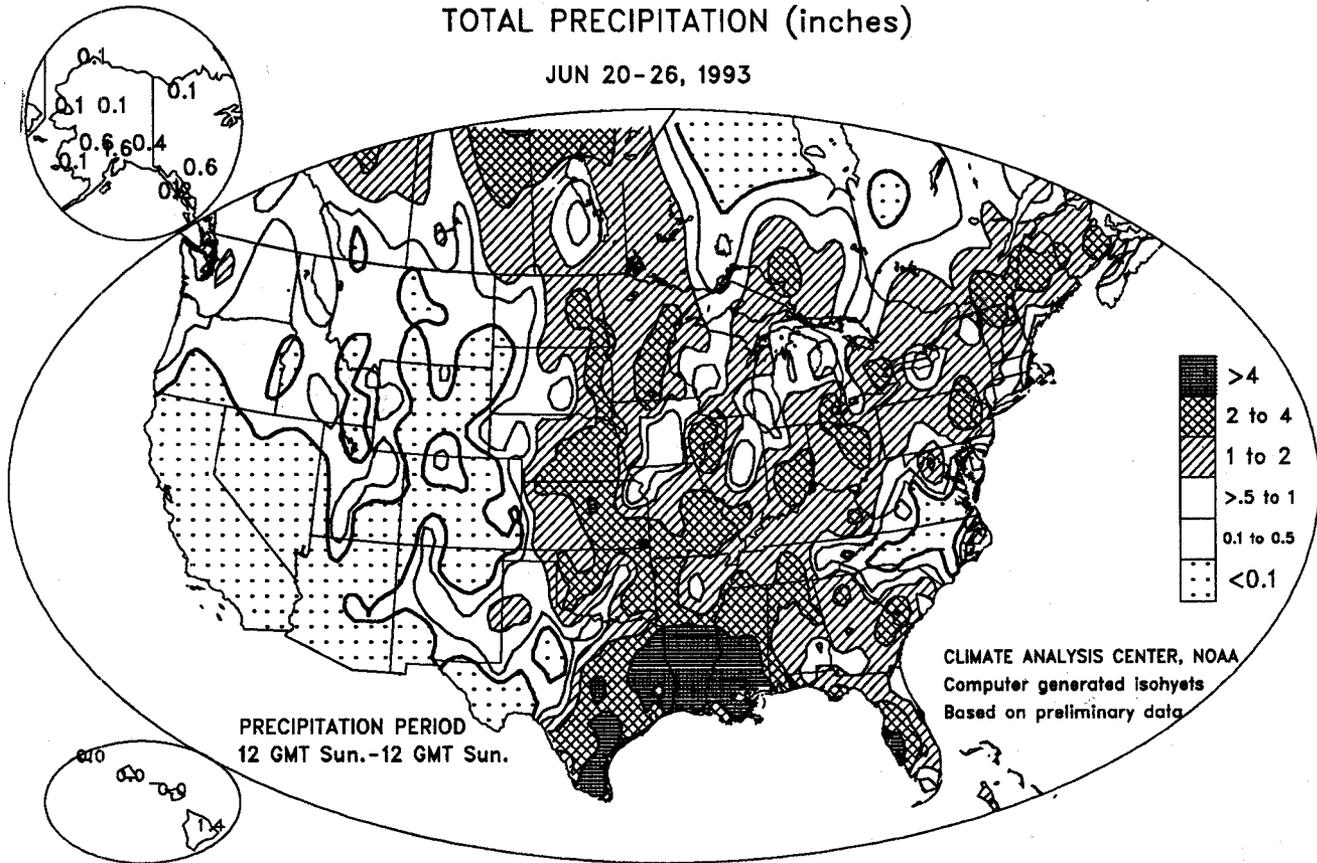
Volume 80, No. 26

Washington, D.C.

June 29, 1993

TOTAL PRECIPITATION (inches)

JUN 20-26, 1993



PRECIPITATION PERIOD
12 GMT Sun.-12 GMT Sun.

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

HIGHLIGHTS

June 20 - 26, 1993

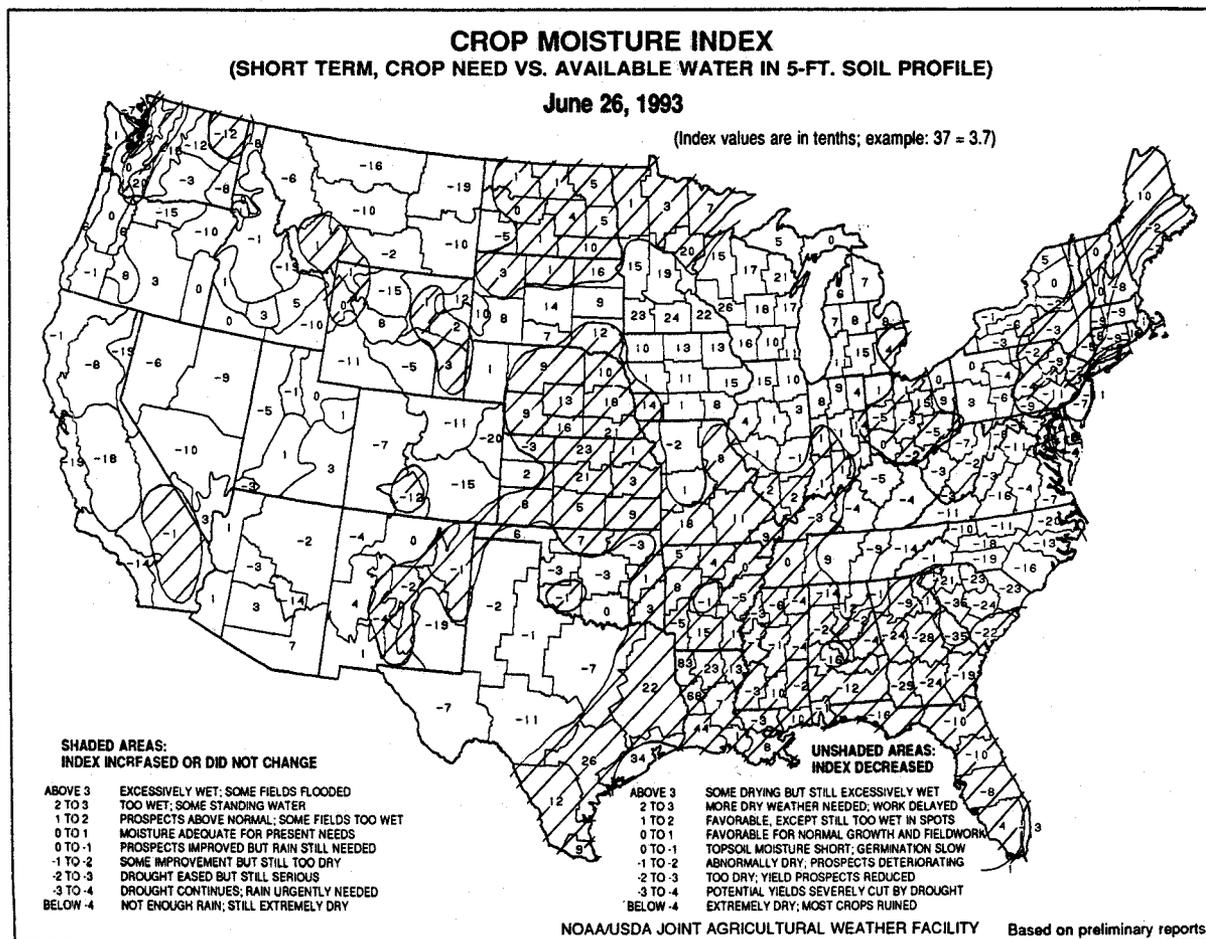
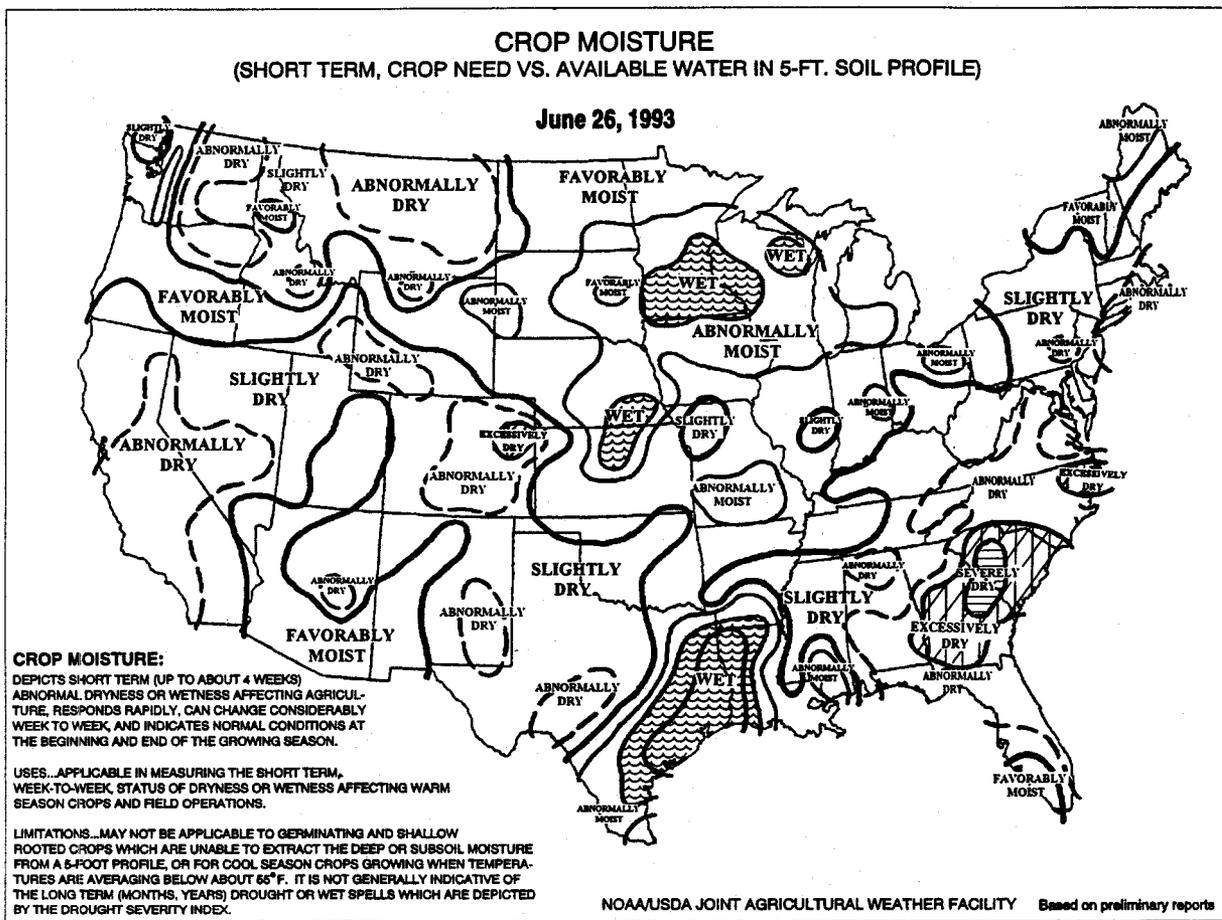
Heavy rains deterred fieldwork in the western Corn Belt and delayed the central Plains' wheat harvest. Runoff from previous rainfall reached the Mississippi River, raising river levels and halting barge traffic between St. Paul, MN and St. Louis, MO. Farther south, Tropical Storm Arlene and its remnant moisture dealt excessive rainfall and flooding to the western Gulf Coast States early in the week. Arlene made landfall before dawn on Sunday in southern Texas between Brownsville and Corpus Christi. Selected rainfall maxima during the 36-hour period after landfall include 15.07 inches at Henderson in eastern Texas, 13.04 inches at Greenwood near Shreveport, LA, and 10.70 inches at San Manuel, TX in the lower Rio Grande Valley. Meanwhile, warm air surged northward through the High Plains in advance of a strong storm system crossing the Pacific Northwest.

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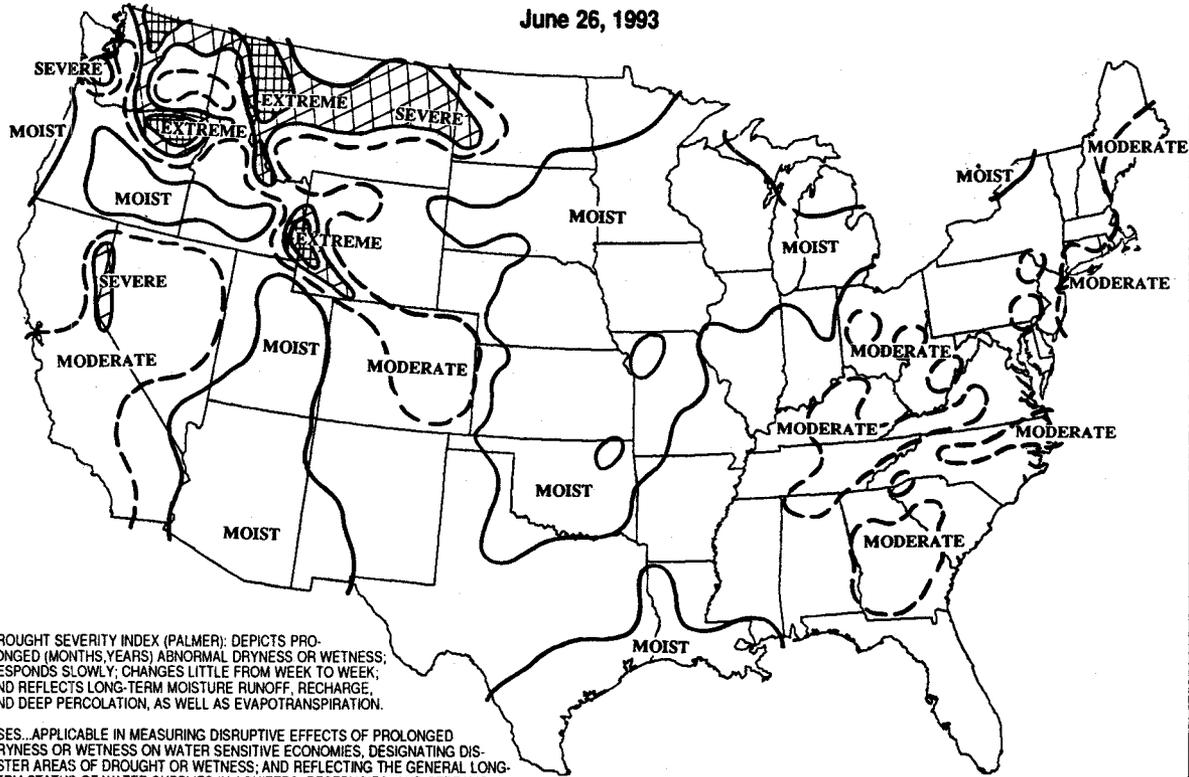
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DROUGHT SEVERITY
(LONG TERM, PALMER)

June 26, 1993



DROUGHT SEVERITY INDEX (PALMER): DEPICTS PROLONGED (MONTHS/YEARS) ABNORMAL DRYNESS OR WETNESS; RESPONDS SLOWLY; CHANGES LITTLE FROM WEEK TO WEEK; AND REFLECTS LONG-TERM MOISTURE RUNOFF, RECHARGE, AND DEEP PERCOLATION, AS WELL AS EVAPOTRANSPIRATION.

USES... APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER SENSITIVE ECONOMIES, DESIGNATING DISASTER AREAS OF DROUGHT OR WETNESS; AND REFLECTING THE GENERAL LONG-TERM STATUS OF WATER SUPPLIES IN AQUIFERS, RESERVOIRS, AND STREAMS.

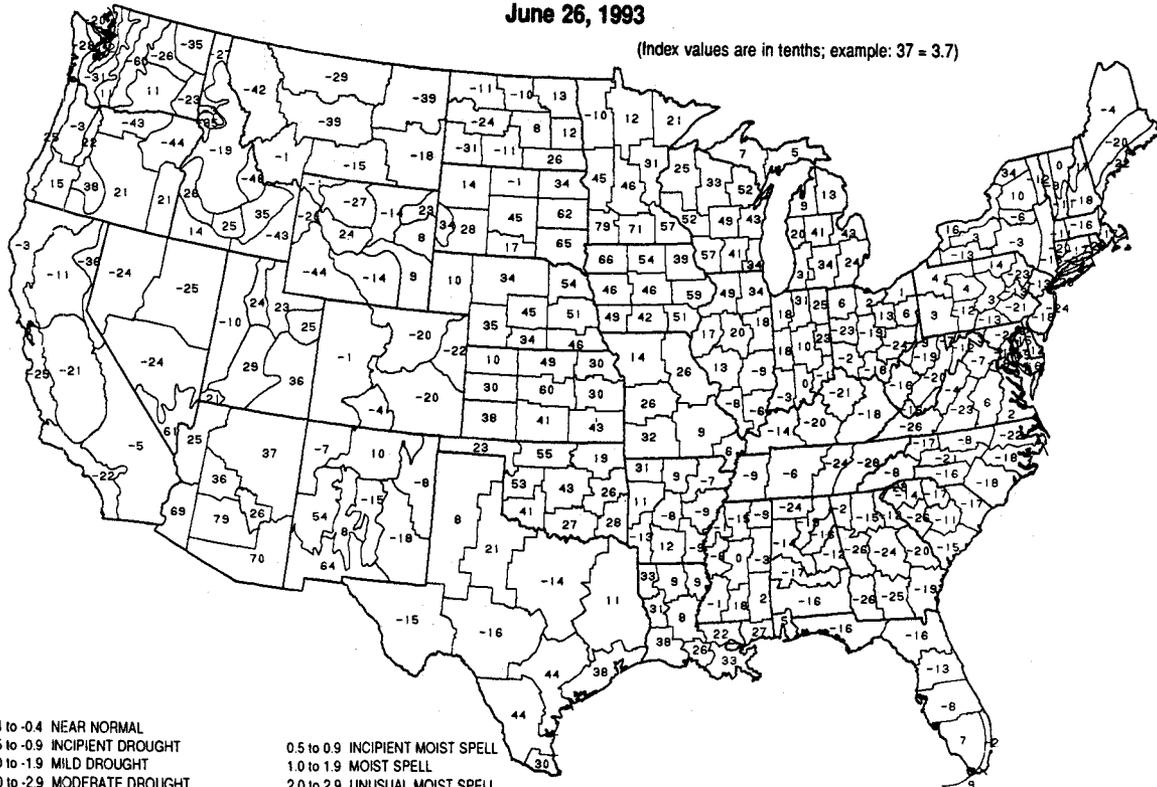
LIMITATIONS... IS NOT GENERALLY INDICATIVE OF SHORT-TERM (FEW WEEKS) STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS CROPS AND FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX).

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

DROUGHT SEVERITY INDEX BY DIVISION
(LONG TERM, PALMER)

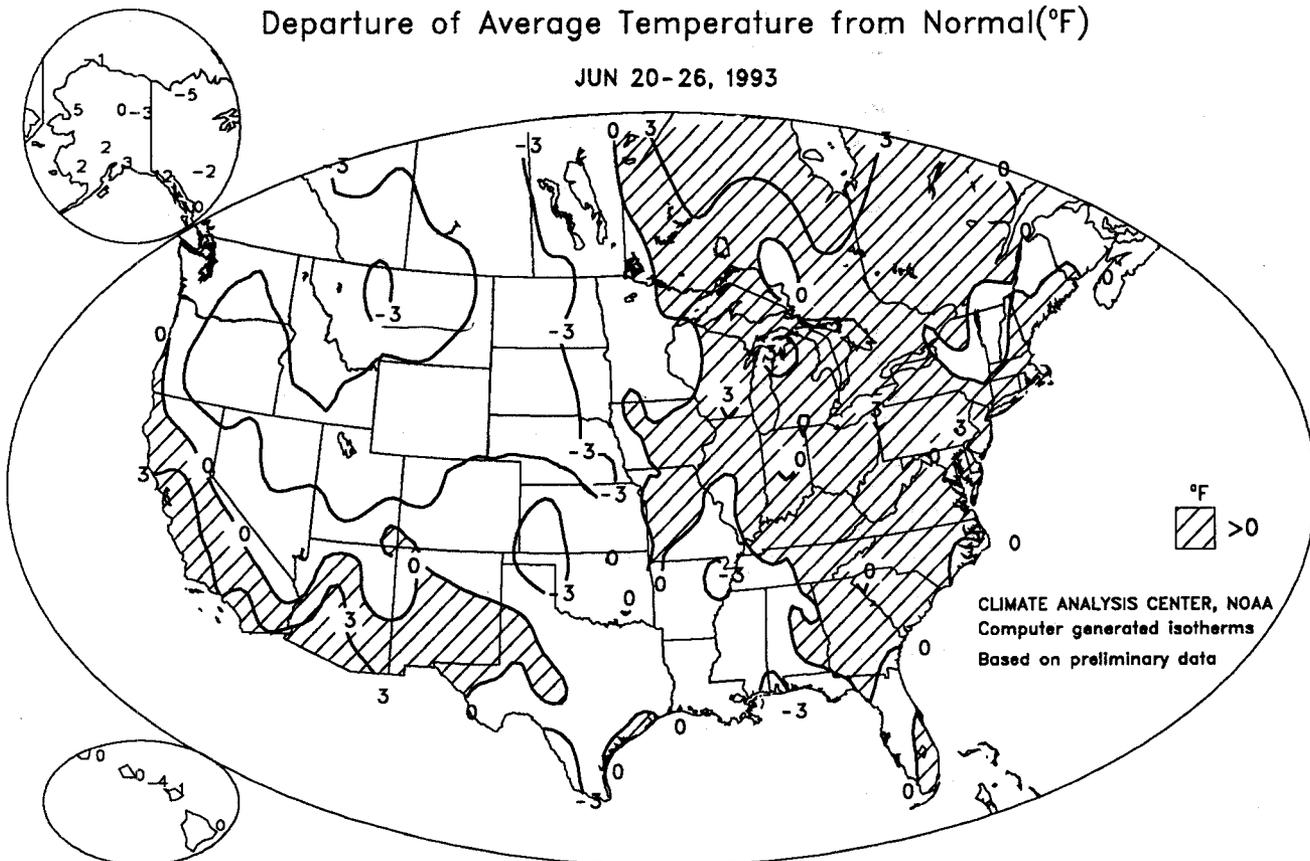
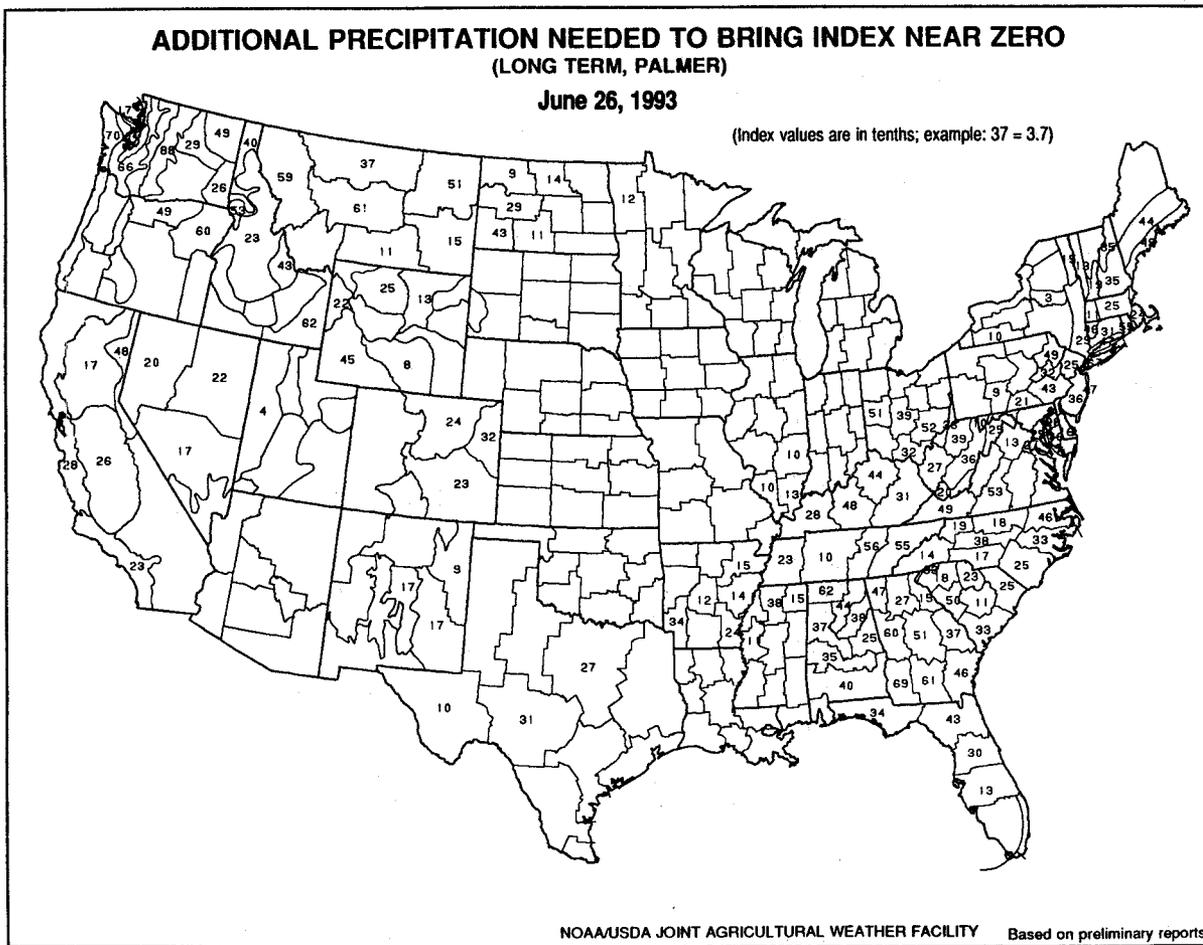
June 26, 1993

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



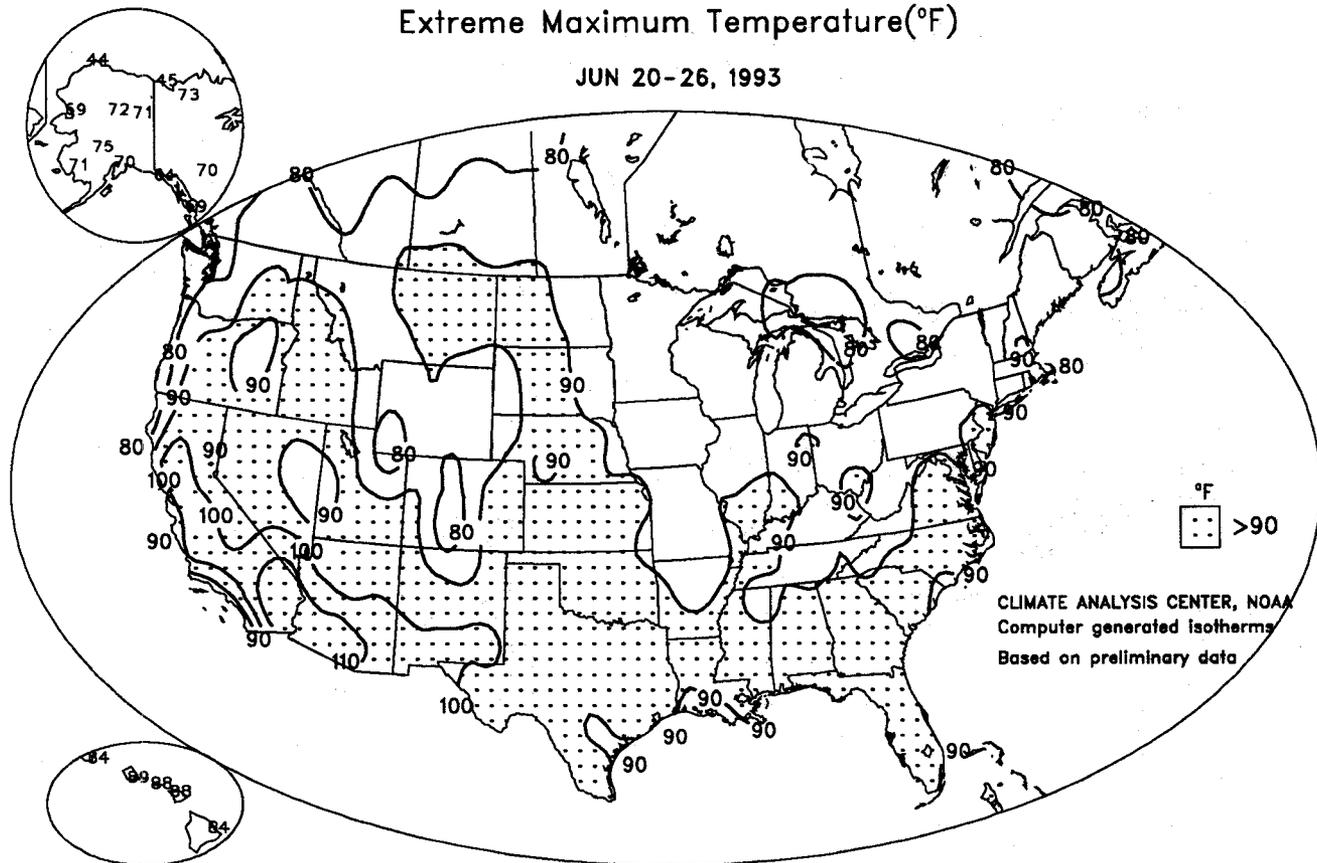
- | | |
|-------------------------------|---------------------------------|
| 0.4 to -0.4 NEAR NORMAL | 0.5 to 0.9 INCIDENT MOIST SPELL |
| -0.5 to -0.9 INCIDENT DROUGHT | 1.0 to 1.9 MOIST SPELL |
| -1.0 to -1.9 MILD DROUGHT | 2.0 to 2.9 UNUSUAL MOIST SPELL |
| -2.0 to -2.9 MODERATE DROUGHT | 3.0 to 3.9 VERY MOIST SPELL |
| -3.0 to -3.9 SEVERE DROUGHT | ABOVE 4.0 EXTREME MOIST SPELL |
| BELOW -4.0 EXTREME DROUGHT | |

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports



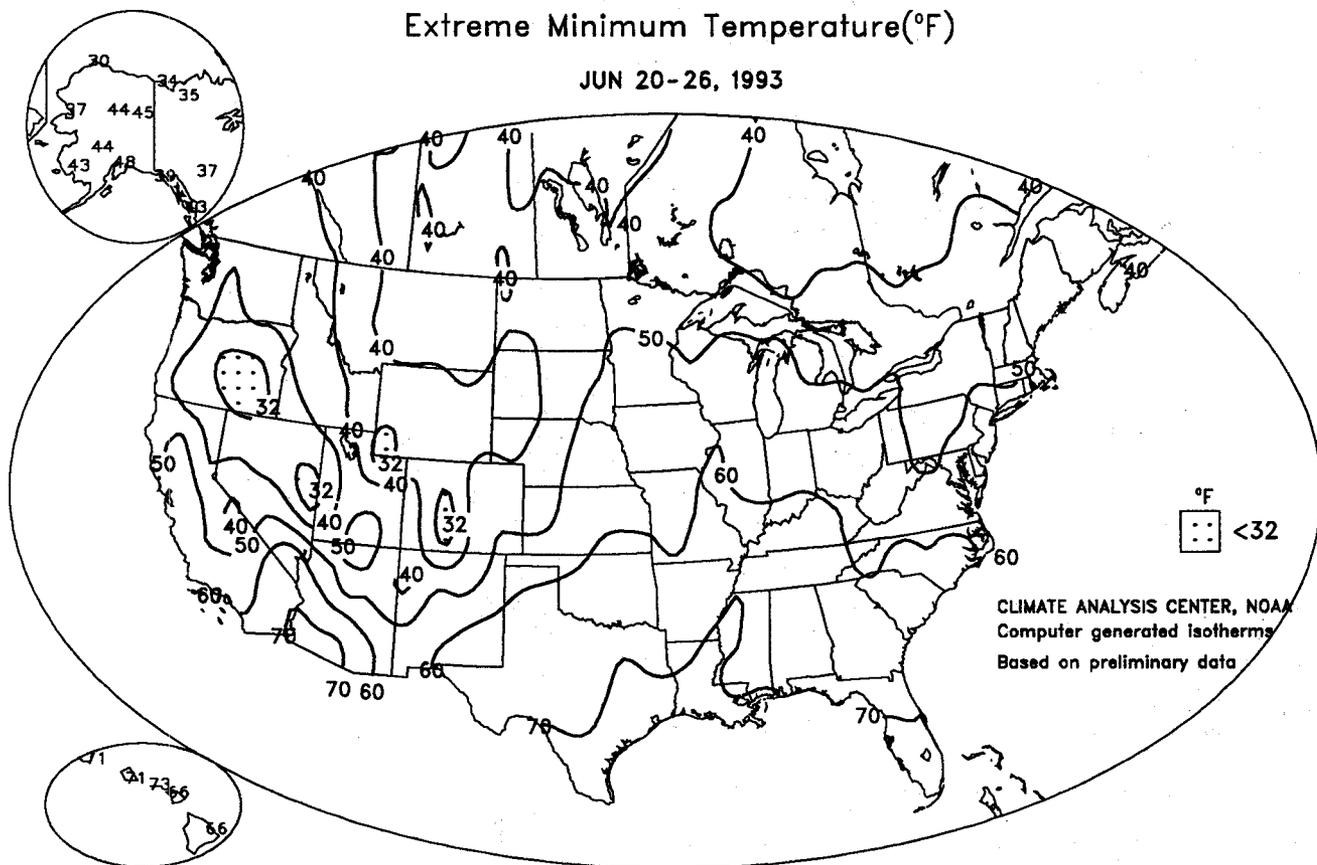
Extreme Maximum Temperature(°F)

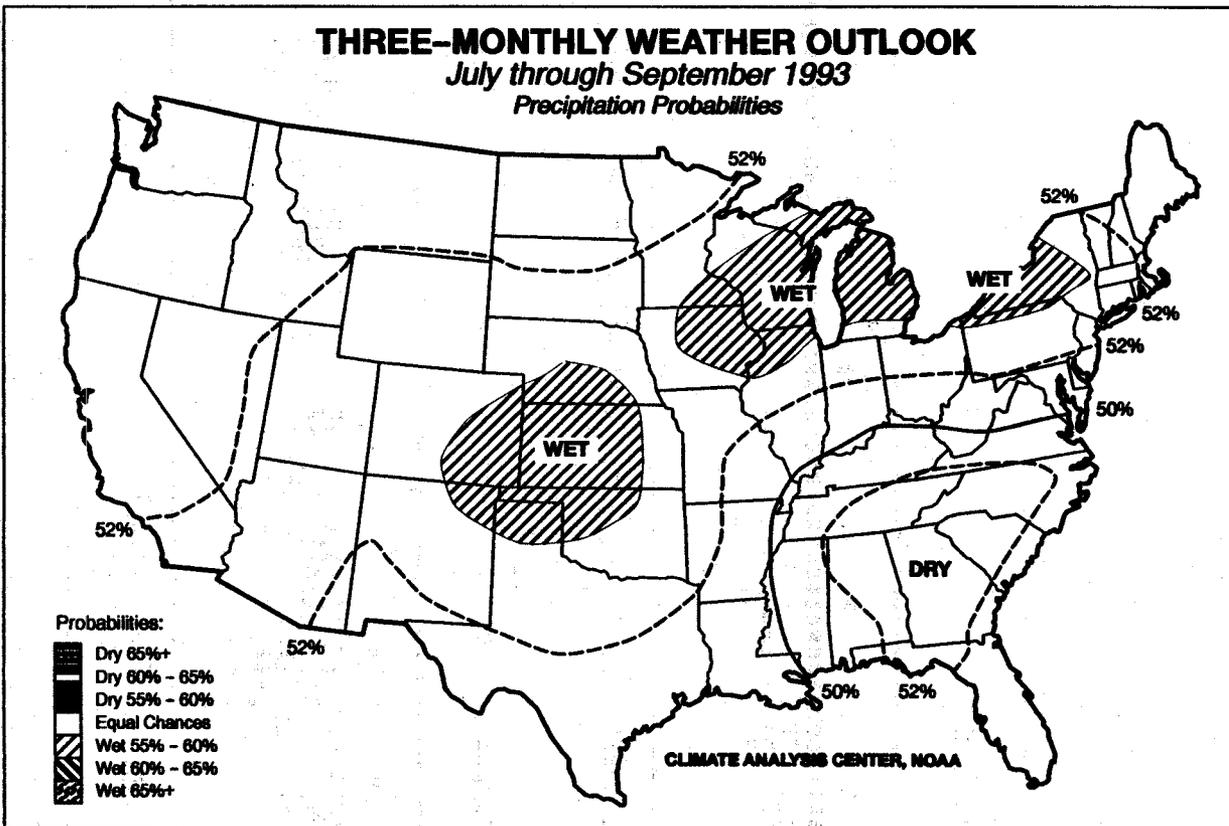
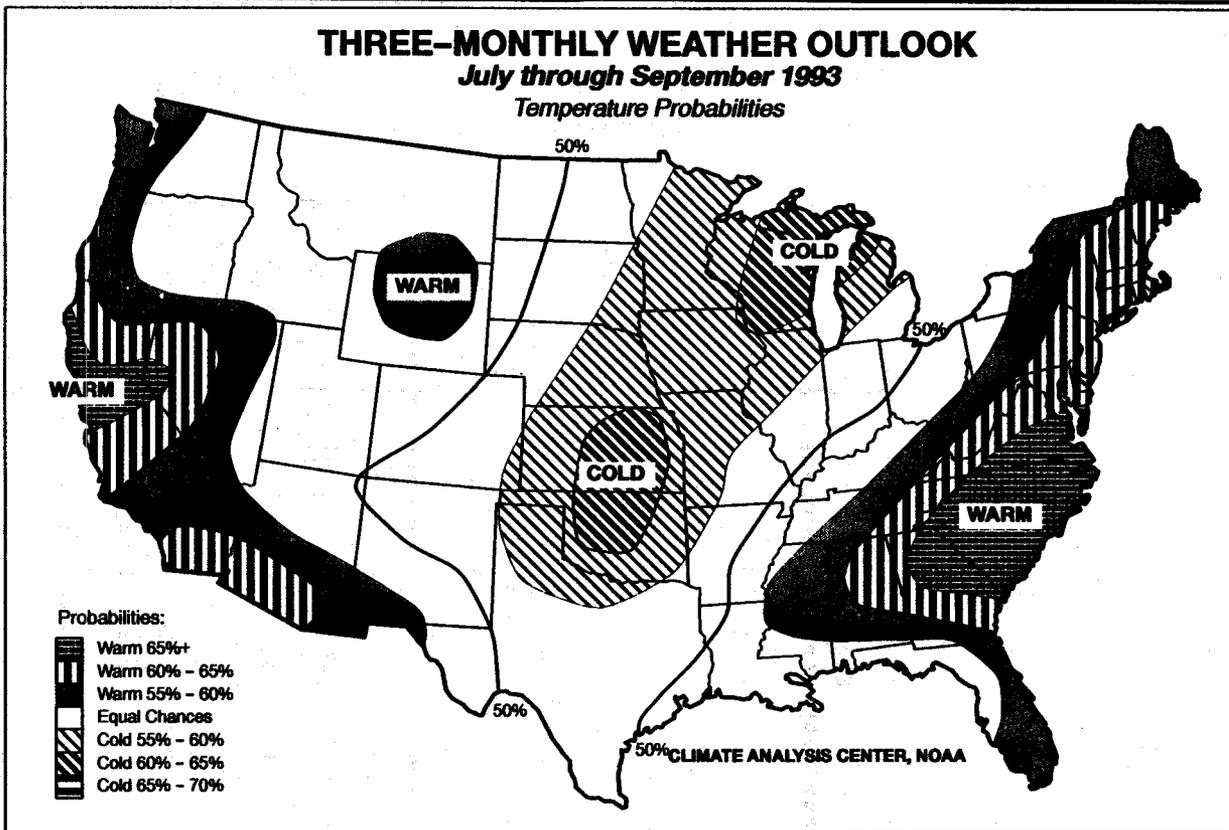
JUN 20-26, 1993



Extreme Minimum Temperature(°F)

JUN 20-26, 1993





For information on the techniques that the Climate Analysis Center's Prediction Branch uses to prepare the long-range outlooks, see the article by A. J. Wagner entitled "Medium- and Long-Range Forecasting," published by the American Meteorological Society in its journal, *Weather and Forecasting*, Sept. 1989, pp. 413-426. For information on subscribing to their 30- and 90-day outlooks, write to: Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

CUMULATIVE GROWING DEGREE DAYS (CORN) April 1 - June 26, 1993

STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL
AL ANNISTON	1603	- 61	TOPEKA	1176	- 140	OK ALTUS	1635	- 97
BIRMINGHAM	1618	- 73	WICHITA	1241	- 197	GAGE	1360	- 90
MOBILE	1804	- 205	LEXINGTON	1263	- 17	HOBART	1495	- 108
MONTGOMERY	1734	- 36	BOWLING GREEN	1399	- 24	MCALISTER	1673	- 1
MUSCLE SHOALS	1594	- 23	PADUCAH	1480	- 19	PONCA CITY	1466	- 63
OZARK	1786	- 85	LA LAFAYETTE	1905	- 130	TULSA	1444	- 181
TUSCALOOSA	1696	- 72	LAKE CHARLES	1953	- 104	OR BAKER	714	+ 18
AZ DOUGLAS	1672	+ 150	MONROE	1795	- 73	EUGENE	773	+ 39
FLAGSTAFF	884	+ 161	NEW ORLEANS	1860	- 172	NORTH BEND	595	+ 168
PHOENIX	2372	+ 417	SHREVEPORT	1762	- 83	PENDLETON	929	+ 37
TUCSON	1960	+ 169	ME AUGUSTA	722	+ 73	REDMOND	682	- 23
YUMA	2391	+ 355	CARIBOU	549	+ 67	PORTLAND	870	+ 134
AR EL DORADO	1211	+ 184	HOULTON	585	+ 38	SALEM	878	+ 155
FAIRBTEVILLE	1656	- 100	PORTLAND	666	+ 74	SEXTON SUMMIT	376	- 89
FORT SMITH	1340	- 78	MD SALLISBURY	1274	+ 73	PA ALLENTOWN	1120	+ 117
JONESBORO	1558	- 86	MA WORCESTER	778	+ 44	PHILADELPHIA	1324	+ 243
LITTLE ROCK	1545	- 118	MI BATTLE CREEK	881	- 53	WILLIAMSPORT	1113	+ 137
TEXARKANA	1602	- 90	JACKSON	878	- 37	SC BEAUFORT	1873	+ 17
CA BAKERSFIELD	1704	- 121	LANING	879	- 67	CHARLESTON	1816	+ 25
BLUE CANYON	1639	+ 25	MUSKOGON	778	+ 9	COLUMBIA	1731	- 11
DAGGETT	457	- 94	PELLSTON	581	- 43	FLORENCE	1786	+ 52
EUREKA	1852	+ 121	SAULT STE. MARIE	399	- 82	SUMTER/SHAW AFB	1698	- 51
KUREKA	659	+ 360	TRAVERSE CITY	706	- 9	SD ABERDEEN	843	+ 29
PRESNO	1574	+ 145	MN DULUTH	421	- 81	HURON	818	- 97
MARYSVILLE	1434	+ 38	INT'L FALLS	570	- 38	PIERRE	829	- 99
MERCED	1473	+ 79	ALEXANDRIA	675	- 69	RAPID CITY	718	- 90
MT SHASTA	598	- 120	WARROAD	508	- 119	SIOUX FALLS	805	- 143
PASO ROBLES	1327	+ 159	MS BILOXI	1942	- 109	WATERTOWN	653	- 124
RED BLUFF	1333	- 81	COLUMBUS	1647	- 72	TN BRISTOL	1309	+ 17
RIVERSIDE	1578	+ 252	JACKSON	1759	- 20	CHATTANOOGA	1588	+ 53
SANTA ANA	1666	+ 433	MERIDIAN	1739	- 50	CROSSVILLE	1284	+ 118
SAN DIEGO	1406	+ 276	GREENWOOD	1722	- 94	MEMPHIS	1670	- 60
SACRAMENTO	1305	+ 41	MO COLUMBIA	1212	- 40	NASHVILLE	1484	- 59
THERMAL	2123	+ 111	JOPLIN	1349	- 109	TX ABILENE	1802	- 22
CO ALAMOSA	714	- 35	SPRINGFIELD	1251	- 99	AMARILLO	1359	- 8
DENVER	947	+ 27	VICHI	1268	- 67	AUSTIN	2000	- 37
EAGLE	678	- 110	MT BOZEMAN	647	+ 289	BROWNSVILLE	2348	- 20
GRAND JUNCTION	1111	- 96	HELENA	682	+ 52	COLLEGE STATION	1925	+ 5
LA JUNTA	1215	- 27	KALISPELL	683	+ 19	DALHART	1284	+ 0
DOVER	1184	- 79	MILES CITY	826	- 17	DALLAS/FT WORTH	1860	+ 5
WILMINGTON	1248	+ 120	NE GRAND ISLAND	965	- 127	GALVESTON	2132	- 13
FL DAYTONA BEACH	1928	- 119	NORFOLK	964	- 86	HOUSTON	1997	- 3
FORT MYERS	2233	+ 6	NORTH PLATTE	914	- 63	KINGSVILLE	2290	+ 27
GAINESVILLE	1840	- 192	VALENTINE	841	- 160	LAREDO	2355	+ 23
JACKSONVILLE	1862	- 126	SCOTTSBLUFF	886	- 39	LUBBOCK	1671	+ 97
FORT LAUDERDALE	2465	+ 161	SIDNEY	821	- 9	MCALEEN	2402	+ 93
MILAMI	2449	+ 67	NV ELKO	706	- 69	MIDLAND	1772	- 27
MILTON	1864	- 57	ELY	728	+ 20	PALACIOS	2047	- 117
PENSACOLA	1894	- 134	LAS VEGAS	1996	+ 231	SAN ANTONIO	2032	- 49
ST PETERSBURG	2170	- 145	RENO	916	+ 1	VICTORIA	2076	- 28
TALLAHASSEE	1841	- 96	WINNEMUCCA	912	+ 23	WACO	1882	- 94
TAMPA	2080	- 106	NH CONCORD	902	+ 100	WICHITA FALLS	1633	- 123
VERO BEACH	2115	- 34	NJ NEWARK	1365	+ 274	WINK	1844	+ 32
W. PALM BEACH	2292	+ 4	NM ALBUQUERQUE	1459	+ 180	UT CEDAR CITY	954	+ 27
GA ATHENS	1639	+ 27	CARLSBAD	1820	+ 90	VT BARRRE-MONTPELIER	678	+ 43
AUGUSTA	1783	+ 67	CLOVIS	1444	+ 80	BURLINGTON	809	+ 68
BRUNSWICK	1838	- 130	GALLUP	1103	+ 88	VA CHARLOTTESVILLE	1387	+ 50
COLUMBUS	1787	- 19	TRUTH OR CONSEQ.	1620	+ 117	HAMPTON/LANGLEY	1492	+ 117
MACON	1755	- 67	NY ALBANY	952	+ 77	Lynchburg	1435	+ 150
SAVANNAH	1882	+ 13	ELMIRA	923	+ 81	NORFOLK	1499	+ 99
ID BOISE	934	+ 41	GLENS FALLS	856	+ 69	RICHMOND	1446	+ 43
BURLEY	831	+ 54	POUGHKEEPSIE	986	+ 57	WA BELLINGHAM	667	+ 159
IDAHO FALLS	646	- 45	ROCHESTER	850	+ 14	HOQUIAM	587	+ 146
POCATELLO	708	- 31	SYRACUSE	874	+ 43	SEATTLE-TACOMA	728	+ 143
IL BELLEVILLE	1295	- 70	UTICA	784	+ 21	SPOKANE	761	+ 85
CHICAGO/MIDWAY	992	- 37	WATERTOWN	736	- 6	TACOMA	762	+ 105
DECATUR	1161	- 110	NC ASHVILLE	1225	- 10	WALLA WALLA	978	+ 49
PEORIA	1165	+ 50	FAYETTEVILLE	1630	+ 34	WENATCHEE	1031	+ 22
ROCKFORD	999	+ 29	GREENSBORO	1535	+ 109	YAKIMA	999	+ 58
SPRINGFIELD	1217	- 20	HICKORY	1445	+ 23	WV HUNTINGTON	1313	+ 111
QUINCY	1151	- 46	RALMIGH	1555	+ 68	MARTINSBURG	1142	- 6
IN INDIANAPOLIS	1165	- 9	WILMINGTON	1704	+ 40	MORGANTOWN	1163	+ 36
SOUTH BEND	982	+ 13	NEW BERN	1630	+ 6	WI EAU CLAIRE	734	- 107
TERRE HAUTE	1217	+ 8	ND BISMARK	727	- 29	GREEN BAY	726	- 17
IA DES MOINES	999	- 174	DICKINSON	616	- 69	LACROSSE	852	- 93
MASON CITY	802	- 196	JAMESTOWN	674	- 66	MADISON	931	+ 8
OTTUMMA	1084	- 58	MINOT	635	- 42	WAUSAU	659	+ 92
CHANUTE	1247	- 156	GRAND FORKS	746	+ 22	NY CASPER	727	- 10
DODGE CITY	1163	- 121	OR AKRON-CANTON	967	+ 17	LANDER	667	+ 10
GARDEN CITY	1125	- 142	COLUMBUS	1108	+ 6	SHERIDAN	702	+ 7
GOODLAND	947	- 81	DAYTON	1088	- 43	WORLAND	878	+ 48
MEDICINE LODGE	1343	- 134	FINDLAY	925	- 67			
RUSSELL	1155	- 97	YOUNGSTOWN	938	+ 55			
SALINA	1216	- 100	ZANESVILLE	1073	+ 8			

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 June 26, 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	88	68	92	66	78	0	2.3	-1.6	2	4	14	20.1	69	93	52	2	0	4	0	
MOBILE	84	71	91	70	78	1	2.5	-1.3	1.4	2.8	65	115	96	73	1	0	5	1		
MONTGOMERY	92	69	96	64	80	1	4	-1.9	2	10	22.7	78	88	52	6	0	2	0		
AK ANCHORAGE	66	53	70	49	59	5	4	-3	4	17	3.8	83	79	55	0	0	0	0		
BARRROW	39	32	44	31	35	1	1	-1	1	215	1.3	140	96	74	0	0	2	0		
FAIRBANKS	73	48	76	45	61	1	1	-1	1.2	104	4.8	142	82	31	0	0	3	0		
JUNEAU	62	46	68	43	54	4	4	-4	3.6	134	27.4	134	94	49	0	0	1	0		
KODIAK	60	50	65	46	55	4	4	-4	80	80	35.4	113	89	56	0	0	1	0		
NOME	61	45	71	36	53	5	5	-3	34	50	5.0	120	83	55	0	0	2	0		
AZ PHOENIX	108	79	114	76	94	4	4	-1	12	9.7	324	34	83	24	7	0	0	0		
PRESCOTT	93	56	99	53	75	5	5	-2	39	12.0	184	40	11	5	5	0	0	0		
TUCSON	108	69	113	66	88	3	3	-1	0	7.4	256	33	9	0	0	0	0	0		
YUMA	109	79	116	76	94	4	4	-1	0	3.3	341	37	11	7	7	0	0	0		
AR FORT SMITH	87	69	92	68	78	0	0	-1	0	0	0	37	11	7	7	0	0	0		
LITTLE ROCK	85	70	89	68	77	1	1	1.2	1.9	5.0	164	26.6	129	93	63	2	2	1		
CA BAKERSFIELD	98	67	110	58	83	3	3	-3	1.9	51	23.3	94	89	66	0	0	2	0		
BURBAK	64	51	71	47	57	2	2	-1	1.3	470	6.6	172	34	14	5	5	0	0		
FRESNO	97	65	108	56	81	0	0	-1	1.6	267	29.5	141	86	52	0	0	0	0		
LOS ANGELES	76	64	81	63	70	4	4	-1	1.6	>1000	18.5	238	85	64	6	6	0	0		
REDDING	94	64	102	58	79	1	1	-1	7	119	35.2	188	55	15	5	0	0	0		
SACRAMENTO	92	59	102	50	75	2	2	-1	1.3	>1000	19.1	178	72	22	4	4	0	0		
SAN DIEGO	75	65	78	64	70	3	3	-1	4	456	15.5	250	87	68	0	0	0	0		
SAN FRANCISCO	78	55	96	52	67	4	4	-1	2	160	19.4	158	80	36	2	2	0	0		
CO DENVER	86	52	91	46	69	0	0	-4	1.7	107	6.9	86	69	23	2	2	0	0		
GRAND JUNCTION	89	56	96	46	72	3	3	-2	5	5	7.5	157	46	11	3	3	0	0		
PUEBLO	90	52	95	48	71	2	2	-3	1.3	129	7.0	154	79	21	4	4	0	0		
CT BRIDGEPORT	82	63	87	59	72	3	3	-4	1.3	44	17.3	84	75	45	0	0	2	0		
HARTFORD	84	58	90	51	71	1	1	-5	2.6	79	21.5	100	82	38	1	1	2	1		
DC WASHINGTON	89	68	92	61	78	1	1	-8	1.7	59	20.7	116	83	44	2	2	0	0		
FL APALACHICOLA	89	71	92	69	80	0	0	-1	1.7	43	19.2	91	83	44	3	3	0	0		
DAYTONA BEACH	88	70	92	69	79	0	0	-3	1.3	26	15.2	77	96	59	2	2	3	1		
JACKSONVILLE	92	69	96	64	80	0	0	0	1.5	32	16.7	78	98	56	6	6	4	1		
KEY WEST	89	78	90	73	83	0	0	-1	1.7	38	17.6	116	80	65	2	2	3	1		
MIAMI	88	76	91	72	82	0	0	-1.4	3.2	40	21.7	92	81	62	2	2	4	0		
ORLANDO	90	72	93	70	81	-1	-1	-1.0	3.1	49	19.8	98	90	54	4	4	5	1		
TALLAHASSEE	93	68	96	65	80	0	0	-1	2.7	46	25.9	84	86	49	6	6	3	1		
TAMPA	91	72	92	71	81	0	0	-1	2.7	58	16.7	99	90	56	5	5	3	2		
WEST PALM BEACH	88	74	90	72	81	0	0	-6	1.5	22	27.3	109	84	60	1	1	2	1		
GA ATLANTA	87	69	93	68	78	1	1	1.2	1.1	136	25.9	96	88	55	2	2	4	2		
AUGUSTA	94	68	97	63	81	2	2	-6	2	26	20.5	87	89	44	7	7	2	0		
MACON	91	70	95	67	80	1	1	-3	2.2	71	26.8	111	91	49	6	6	5	1		
SAVANNAH	91	70	95	67	81	1	1	-2	2.2	45	23.5	104	87	49	5	5	4	0		
HI HILO	83	68	85	66	76	0	0	-1	1.4	6	4.5	85	59	67	0	0	6	1		
HONOLULU	88	73	89	71	80	1	1	-1	1	1	1.7	15	76	45	0	0	0	0		
KAHULUI	87	71	88	67	79	0	0	-1	0	0	5.4	43	70	47	0	0	0	0		
LIHUE	83	74	85	71	79	0	0	-4	2	14	6.4	30	79	61	0	0	0	0		
ID BOISE	82	50	99	39	66	-2	-2	-1	2.1	288	10.2	148	76	23	2	2	1	0		
LEWISTON	80	53	93	47	67	-3	-3	-2	1.4	126	8.8	129	68	28	2	2	2	0		
POCATELLO	76	45	90	37	61	-4	-4	-1	3.0	324	12.4	187	83	33	1	1	3	0		
IL CHICAGO	83	60	87	56	72	-1	-1	1.3	1.2	8.6	263	24.1	153	91	53	0	0	2	1	
MOLINE	86	64	91	61	75	2	2	2.6	3.6	10.3	280	27.1	154	91	49	2	2	1		
PRORIA	85	63	89	58	74	1	1	-4	3	4.5	130	21.9	131	89	50	0	0	2	0	
QUINCY	84	65	87	61	74	0	0	-6	5.1	155	15.8	89	86	50	0	0	2	2		
ROCKFORD	84	62	90	57	73	2	2	-2	8	20.0	256	26.3	163	92	47	1	1	4	1	
SPRINGFIELD	85	64	89	59	74	0	0	-5	5.3	178	19.9	119	87	46	0	0	2	0		
IN EVANSVILLE	88	68	92	61	78	1	1	-8	1.3	4.1	129	22.1	95	91	52	4	4	3	1	
FORT WAYNE	84	61	91	55	72	0	0	-2	3	4.2	136	23.2	140	91	52	1	1	3	0	
INDIANAPOLIS	83	63	89	57	73	0	0	-4	4.4	147	20.3	105	90	52	0	0	4	0		
SOUTH BEND	82	62	89	58	72	1	1	-2	8.9	250	23.0	129	87	52	0	0	4	0		
IA DES MOINES	83	62	88	54	72	0	0	-1	6.0	151	22.8	144	87	48	0	0	2	0		
SIOUX CITY	83	60	89	54	72	-1	-1	1.4	3.6	111	14.0	112	90	42	0	0	2	1		
WATERLOO	83	61	90	55	72	2	2	-3	8	1	208	23.7	154	91	46	1	1	2	0	
KS CONCORDIA	85	62	90	54	73	-3	-3	2.7	2.2	8.2	209	18.9	134	94	50	1	1	3	2	
DODGE CITY	87	61	94	53	74	-3	-3	-2	3.5	131	13.9	133	86	40	1	1	0	1		
GOODLAND	87	54	91	44	70	-1	-1	-3	5	67	7.4	78	89	29	4	4	2	2		
TOPEKA	85	63	92	54	74	-2	-2	-1	1.3	27	19.8	117	93	49	1	1	2	0		
WICHITA	85	65	90	60	75	-2	-2	-7	1.8	3.8	78	19.4	116	95	50	1	1	2	1	
KY BOWLING GREEN	86	68	88	65	77	1	1	-1	2.3	64	17.5	67	96	55	0	0	2	0		
LEXINGTON	85	65	88	61	75	1	1	-3	5.1	163	22.4	98	90	51	0	0	3	0		
LOUISVILLE	87	68	92	65	78	3	3	-1	3.4	113	100	88	88	48	2	2	3	1		
LA BATON ROUGE	86	72	91	70	79	-2	-2	1.1	2.8	75	22.7	130	99	72	3	3	7	2		
LAKE CHARLES	85	74	88	73	80	-1	-1	5.1	4.0	2.1	9.7	224	94	79	0	0	5	4		
NEW ORLEANS	88	73	93	71	80	-1	-1	2.5	1.0	9	4.5	90	97	70	3	3	5	3		
SERRVSPORT	86	71	92	68	79	-1	-1	13.4	12.5	7.3	15.7	423	99	80	3	3	6	4		

Based on 1961-90 normals.

Weather Data for the Week Ending June 26, 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 Jun 1	PCT. NORMAL SINCE Jun 1	AVERAGE	MAXIMUM	MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE		
ME CARIBOU	74	51	85	44	63	0	1.3	.6	1.1	3.6	144	16.6	112	79	49	0	0	0	3	1		
PORTLAND	78	56	86	49	67	2	.9	.7	.7	2.8	94	22.6	106	83	47	0	0	0	3	1		
MD BALTIMORE	88	61	92	52	75	0	.2	-.1	.2	2.5	79	23.5	120	85	40	2	0	0	3	0		
SALISBURY	87	63	90	52	75	1	.2	-.7	.2	1.5	49	25.0	118	95	57	1	0	0	0	0		
MA BOSTON	83	61	93	58	72	2	.2	-.5	.1	1.6	58	22.2	109	78	41	1	0	1	2	0		
CHATHAM	71	59	75	56	65	2	T	-.7	T	1.6	57	19.6	90	89	50	0	0	0	0	0		
MI ALPENA	78	52	81	40	65	1	1.8	1.1	1.0	3.9	148	12.1	95	98	49	0	0	0	3	2		
DETROIT	82	61	86	55	72	2	3.0	2.1	2.2	5.5	177	17.4	116	89	52	0	0	0	3	2		
FLINT	81	59	88	51	70	2	1.2	.5	.7	5.2	187	16.7	127	87	48	0	0	0	4	1		
GRAND RAPIDS	80	60	88	54	70	1	.7	-.2	.4	6.0	186	20.8	133	89	54	0	0	0	3	0		
HOUGHTON LAKE	78	57	85	47	68	3	1.9	1.2	1.2	4.7	180	13.4	111	89	51	0	0	0	3	2		
LANSING	80	59	88	49	69	1	1.1	.3	.8	6.4	217	18.7	137	96	56	0	0	0	4	0		
MARQUETTE	77	54	87	50	66	4	1.4	.6	.8	2.4	79	15.2	99	87	45	0	0	0	3	1		
MUSKOGON	79	60	89	57	70	3	.5	-.1	.4	4.3	210	16.5	118	89	57	0	0	0	4	0		
SAULT ST. MARIE	71	51	74	45	61	1	.9	-.2	.6	3.8	138	14.9	104	92	52	0	0	0	2	1		
MN ALEXANDRIA	77	57	88	53	67	-1	.8	-.2	.5	3.5	98	13.4	115	91	48	0	0	0	4	0		
DULUTH	72	52	87	50	62	1	2.8	1.9	1.7	6.7	201	16.5	131	84	45	0	0	0	4	2		
INT'L FALLS	74	52	87	46	63	0	.6	-.4	.4	1.9	57	7.5	75	85	43	0	0	0	4	0		
MINNEAPOLIS	79	58	85	54	69	-2	1.6	.7	1.1	5.2	148	14.1	108	90	47	0	0	0	3	1		
ROCHESTER	78	58	84	54	68	-1	1.1	-.8	.0	6.3	196	20.1	159	90	47	0	0	0	3	0		
MS GREENWOOD	86	72	91	70	79	-2	1.3	.3	.9	1.3	35	25.4	87	99	69	1	0	0	3	1		
JACKSON	87	71	94	69	79	0	3.6	2.9	1.3	3.8	136	24.2	81	96	70	3	0	0	6	3		
MERIDIAN	86	70	92	67	78	-1	3.5	2.6	1.3	3.5	113	32.4	107	95	67	2	0	0	6	3		
MO CAPE GIRARDEAU	86	69	92	63	78	0	1.5	.8	1.0	4.5	148	25.2	105	94	52	2	0	0	3	1		
COLUMBIA	86	65	91	59	76	2	2.5	1.6	2.0	6.4	187	23.2	127	98	54	1	0	0	2	2		
KANSAS CITY	86	65	91	56	75	0	.4	-.7	.3	3.5	84	21.8	128	91	52	1	0	0	2	0		
SAINTE LOUIS	86	69	91	65	78	1	2.0	1.1	1.1	5.8	180	25.5	140	85	50	1	0	0	2	2		
SPRINGFIELD	84	65	87	58	74	0	3.0	1.8	1.6	8.7	190	24.3	117	97	62	0	0	0	3	2		
MT BILLINGS	79	53	94	44	66	-1	.2	-.2	.2	1.6	88	5.2	58	65	26	2	0	0	1	0		
GLASGOW	78	53	96	47	66	-1	.3	-.2	.2	.8	46	3.1	59	72	26	2	0	0	3	0		
GREAT FALLS	73	46	89	39	59	-4	.3	-.2	.1	2.2	104	11.1	129	85	35	0	0	0	3	0		
HAVRE	76	50	93	45	63	-3	T	-.4	T	.2	11	3.0	52	81	31	1	0	0	1	0		
HELENA	75	50	89	44	62	-2	.1	-.3	.0	2.2	132	7.9	127	74	30	0	0	0	3	0		
KALISPELL	70	44	86	38	57	-2	.9	.4	.5	2.9	145	9.9	116	94	45	0	0	0	5	0		
MILES CITY	78	54	95	47	66	-3	.3	-.3	.2	3.6	147	8.5	111	80	36	2	0	0	3	0		
MISSOULA	74	46	93	40	60	-2	.2	-.2	.1	1.4	89	7.5	101	89	42	2	0	0	4	0		
NE GRAND ISLAND	84	58	91	54	71	-2	1.6	.8	.7	4.5	132	13.1	102	92	45	1	0	0	4	1		
LINCOLN	83	59	88	52	71	-4	2.1	1.2	1.3	5.3	156	15.8	118	97	47	0	0	0	3	2		
NORFOLK	34	59	91	54	72	-1	2.2	1.2	1.5	5.5	141	15.8	121	90	41	1	0	0	2	2		
NORTH PLATTE	84	52	88	45	68	-2	1.3	.5	.6	6.0	206	13.1	126	93	40	0	0	0	3	1		
OMAHA	83	62	88	57	73	-1	.9	.0	.8	7.9	230	19.4	138	83	49	0	0	0	2	1		
SCOTTSBLUFF	82	49	88	39	65	-5	1.5	.9	1.0	5.6	240	11.9	137	91	29	0	0	0	2	2		
VALENTINE	83	49	93	41	66	-5	.8	.0	.6	3.5	116	10.3	94	90	31	1	0	0	2	1		
NV ELY	78	36	86	26	57	-5	.2	.0	.1	1.2	155	7.0	132	72	14	0	2	2	0	0		
LAS VEGAS	102	72	109	68	87	-1	T	.0	T	.1	80	4.4	226	23	8	7	0	0	0	0		
RENO	83	49	94	42	66	-2	T	-.1	T	.4	85	4.9	114	65	16	2	0	0	1	0		
WINNEMUCCA	84	45	96	33	65	-2	T	-.1	T	1.0	134	6.0	130	70	15	3	0	0	1	0		
NH CONCORD	82	53	91	43	68	1	.8	.0	.3	1.9	67	12.8	77	88	43	-2	0	0	4	0		
NJ ATLANTIC CITY	84	60	87	51	72	1	.3	-.4	.3	.6	28	19.0	98	86	44	0	0	0	1	0		
NM ALBUQUERQUE	93	60	97	56	76	0	.4	.3	.3	.4	92	3.4	116	61	19	6	0	0	2	0		
CLOVIS	90	62	98	60	76	1	1.8	1.1	1.1	2.1	85	4.2	63	82	28	4	0	0	3	2		
ROSWELL	96	66	102	63	81	1	.6	.2	.4	.6	41	3.1	75	83	22	7	0	0	2	0		
NY ALBANY	81	57	88	47	69	0	1.2	.4	.6	2.6	83	19.5	114	88	45	0	0	0	3	1		
BINGHAMTON	77	56	83	47	66	0	1.1	.2	.6	3.3	104	20.9	122	81	47	0	0	0	3	1		
BUFFALO	81	60	89	50	71	3	1.1	.3	.6	4.9	158	18.5	110	83	44	0	0	0	4	1		
NEW YORK	85	67	87	63	76	3	.5	-.4	.4	1.3	41	19.8	98	75	36	0	0	0	2	0		
ROCHESTER	81	58	91	49	70	3	.2	-.5	.1	2.3	88	12.9	90	87	43	1	0	0	2	0		
SYRACUSE	79	56	90	47	67	0	.5	-.4	.4	2.4	74	20.5	119	88	44	1	0	0	3	0		
NC ASHEVILLE	82	61	85	56	71	0	T	-.1	T	.7	16	20.5	76	95	49	0	0	0	1	0		
CHARLOTTE	90	69	93	66	80	2	T	-.8	T	.1	4	21.2	99	77	40	6	0	0	0	0		
GREENSBORO	87	65	89	60	76	1	T	-.9	T	3.1	95	26.8	132	78	48	0	0	0	0	0		
HATTERAS	84	67	87	57	75	0	1.1	.1	.9	3.1	87	25.4	102	86	57	0	0	0	2	1		
NEW BERN	87	67	90	60	77	-1	1.4	.1	.8	4.0	88	25.7	103	93	49	1	0	0	2	2		
RALEIGH	88	65	91	60	77	1	T	-.9	T	.3	9	21.3	103	85	47	2	0	0	0	0		
WILMINGTON	88	67	90	64	77	0	.1	-.2	.0	2.3	56	26.0	105	96	52	2	0	0	2	0		
ND BISMARCK	79	50	93	40	65	-2	.9	.3	.5	2.7	115	7.4	93	88	39	2	0	0	3	1		
FARGO	78	57	89	50	67	0	1.6	.9	1.2	2.8	116	8.1	91	90	42	0	0	0	4	1		
GRAND FORKS	76	56	92	48	66	0	1.4	.7	.7	3.4	138	6.1	76	87	49	1	0	0	4	2		
WILLISTON	77	50	92	39	63	-4	.4	-.1	.3	3.3	169	5.9	85	85	37	1	0	0	3	0		
OH AKRON-CANTON	82	61	86	53	71	1	1.8	1.1	.9	4.8	175	20.0	116	91	49	0	0	0	3	2		
CINCINNATI	84	64	89	58	74	2	.6	-.3	.5	4.5	135	20.8	100	90	50	0	0	0	4	1		
CLEVELAND	82	63	88	54	73	3	1.1	.2	.5	4.3	134	19.9	117	93	48	0	0	0	3	1		
COLUMBUS	85	63	90	58	74	3	1.1	.2	.5	2.2	66	18.6	102	87	46	1	0	0	5	1		
DAYTON	83	63	89	56	73	1	1.4	.5	.8	3.7	111	25.0	136	91	50	0	0	0	4	1		

Based on 1961-90 normals.

Weather Data for the Week Ending June 26, 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		
OH TOLEDO	83	62	91	55	73	3	2.1	1.2	1.3	4.4	137	17.0	111	92	55	1	0	2	2			
OH YOUNGSTOWN	82	59	86	48	71	3	1.3	1.4	1.5	3.6	106	17.2	100	90	45	0	0	4	0			
OK OKLAHOMA CITY	86	69	89	66	78	-1	1.5	1.6	1.9	3.6	67	23.4	136	96	62	0	0	3	0			
OK TULSA	86	70	90	68	78	-2	1.6	1.3	1.5	96	22.9	114	95	62	0	0	4	0				
OR ASTORIA	65	49	71	45	57	-1	1.0	1.5	1.5	3.5	163	31.7	92	97	50	0	0	4	0			
OR BURNS	75	39	87	29	57	-3	1.0	1.0	1.0	1.6	81	7.2	140	88	25	2	2	0	0			
OR MEDFORD	83	49	97	40	66	-3	1.0	1.1	1.2	1.2	232	11.0	120	84	26	2	2	0	0			
OR PENDLETON	80	50	91	43	65	-3	1.1	1.0	1.1	1.7	125	8.2	126	74	28	1	1	2	1			
OR PORTLAND	75	52	86	48	64	-1	1.1	1.5	1.6	1.7	124	19.5	105	94	43	0	0	2	1			
OR SALEM	76	49	88	42	63	0	1.1	1.2	1.1	3.2	265	23.9	119	87	37	0	0	1	0			
PA ALLENTOWN	85	61	88	53	73	2	2.1	1.2	1.0	4.1	125	23.7	116	85	44	0	0	3	2			
PA ERIE	81	65	91	57	73	5	1.1	1.1	1.5	3.7	103	16.3	92	91	50	1	0	2	1			
PA HARRISBURG	87	64	90	52	75	3	1.1	1.2	1.1	2.4	71	21.8	109	85	41	1	0	4	0			
PA PHILADELPHIA	88	67	94	62	78	6	1.2	1.3	1.5	1.3	36	19.6	90	76	38	2	0	2	1			
PA PITTSBURGH	83	62	88	56	73	3	1.7	1.3	1.7	3.3	103	19.9	109	83	43	0	0	3	1			
PA SCRANTON	85	58	89	48	71	3	1.0	1.3	1.6	1.8	52	17.7	105	81	42	0	0	3	1			
RI PROVIDENCE	84	60	89	54	72	3	1.1	1.7	1.1	1.0	35	21.7	97	79	40	0	0	1	0			
SC CHARLESTON	89	71	92	67	80	0	1.1	1.5	1.0	2.7	50	25.9	111	89	60	2	0	3	1			
SC COLUMBIA	92	68	96	62	80	1	1.4	1.8	1.4	5.5	13	21.9	90	84	42	6	0	1	0			
SC FLORENCE	92	69	94	64	81	2	1.3	1.2	1.7	1.4	37	16.6	79	90	40	7	0	3	2			
SC GREENVILLE	88	65	91	63	77	1	1.1	1.0	1.1	1.1	3	27.1	103	85	48	4	0	2	0			
SD ABERDEEN	80	54	87	46	67	-2	1.9	1.1	1.6	3.8	130	9.9	100	90	46	0	0	3	1			
SD HURON	81	56	87	50	69	-2	1.9	1.1	1.3	4.8	165	13.9	130	88	45	0	0	3	0			
SD RAPID CITY	79	48	87	36	64	-3	1.7	1.7	1.7	3.3	122	10.7	116	82	41	0	0	1	0			
SD SIOUX FALLS	81	58	88	54	70	-1	1.4	1.6	1.8	3.9	130	18.3	162	87	43	0	0	2	2			
TN CHATTANOOGA	88	69	92	66	78	1	1.3	1.6	1.1	1.3	43	24.3	88	94	60	3	0	2	0			
TN KNOXVILLE	87	66	91	63	77	2	1.1	1.8	1.1	1.7	21	19.5	79	95	52	3	0	2	0			
TN MEMPHIS	86	71	90	70	78	-2	1.9	1.1	1.6	2.9	93	22.8	84	95	66	1	0	4	1			
TN NASHVILLE	86	68	89	65	77	0	1.7	1.9	1.3	5.1	165	24.3	99	91	59	0	0	3	1			
TX ABILENE	90	69	94	66	80	-2	2.2	1.4	1.2	3.8	151	9.8	90	89	48	5	0	1	0			
TX AMARILLO	87	63	95	60	75	-1	1.9	1.0	1.6	2.7	84	7.4	85	90	42	2	0	2	1			
TX AUSTIN	89	74	92	69	81	-1	3.1	2.3	2.2	4.0	120	20.9	127	95	65	4	0	6	2			
TX BEAUMONT	88	74	91	72	81	0	4.6	3.3	1.4	9.1	187	39.7	156	97	75	3	0	6	4			
TX BROWNSVILLE	87	77	90	74	82	-1	1.5	1.9	1.4	6.7	277	17.0	169	95	73	3	0	5	0			
TX CORPUS CHRISTI	88	77	89	74	82	0	6.8	6.1	3.3	12.0	403	28.4	224	96	69	0	0	4	3			
TX DEL RIO	90	74	93	71	82	0	2.7	1.4	1.2	4.8	191	8.6	74	87	56	6	0	2	0			
TX EL PASO	100	69	104	64	85	3	1.2	1.5	1.7	1.5	277	3.3	153	63	19	7	0	2	1			
TX FORT WORTH	91	72	95	68	82	1	2.2	1.5	2.2	3.8	127	19.5	102	93	58	5	0	1	1			
TX GALVESTON	89	79	90	75	84	2	1.1	1.9	1.1	3.3	85	29.9	170	83	69	2	0	2	0			
TX HOUSTON	88	75	94	72	81	0	6.7	5.4	2.2	11.6	217	42.9	174	94	73	3	0	5	3			
TX LUBBOCK	93	69	96	65	81	2	1.5	1.1	1.4	1.8	31	5.8	75	86	32	7	0	3	0			
TX MIDLAND	92	68	95	64	80	0	1.7	1.3	1.1	3.1	253	7.5	132	89	36	6	0	0	0			
TX SAN ANGELO	93	71	97	67	82	1	1.7	1.5	1.1	1.9	45	8.3	87	88	45	5	0	0	0			
TX SAN ANTONIO	89	73	91	68	81	-2	4.0	3.1	1.3	6.5	192	27.4	181	92	68	4	0	5	4			
TX VICTORIA	88	76	91	73	82	0	5.3	4.2	2.9	11.4	285	40.1	204	97	69	3	0	5	3			
TX WACO	92	72	95	69	82	-1	1.5	1.2	1.2	2.2	73	18.5	110	93	61	5	0	4	0			
TX WICHITA FALLS	90	69	93	66	80	-1	1.2	1.4	1.2	3.2	93	19.0	115	97	53	5	0	1	1			
UT CEDAR CITY	85	48	93	39	67	-3	1.7	1.1	1.1	1.7	206	7.5	144	45	12	1	0	0	0			
UT SALT LAKE CITY	81	53	92	43	67	-5	1.1	1.1	1.1	1.2	139	12.6	140	67	23	2	0	2	0			
VT BURLINGTON	79	56	88	47	68	1	1.9	1.7	1.7	3.4	113	14.9	103	82	46	0	0	4	1			
VA NORFOLK	88	67	96	58	78	2	1.7	1.9	1.7	2.6	78	22.2	105	81	42	3	0	0	0			
VA RICHMOND	89	63	95	54	76	1	1.1	1.8	1.1	1.8	57	24.2	122	82	33	2	0	1	0			
VA ROANOKE	85	62	89	57	73	0	2.2	1.6	1.2	2.5	89	22.8	119	83	45	0	0	1	0			
WA QUILLAYUTE	64	48	71	43	56	0	1.5	1.1	1.3	3.4	122	42.2	78	96	46	0	0	6	0			
WA SEATTLE-TACOMA	70	51	80	48	60	-2	1.5	1.1	1.5	2.2	166	18.9	103	86	42	0	0	1	0			
WA SPOKANE	77	47	90	39	62	-2	1.7	1.2	1.1	1.4	33	7.0	81	83	29	2	0	3	0			
WA YAKIMA	80	45	91	38	62	-4	1.7	1.1	1.7	1.5	7	150	95	81	27	1	0	1	0			
WV BECKLEY	79	60	83	53	69	2	1.4	1.5	1.4	2.1	64	19.9	98	89	50	0	0	2	2			
WV CHARLESTON	85	64	91	59	74	1	1.6	1.1	1.1	3.9	127	19.2	97	94	48	3	0	2	2			
WV HUNTINGTON	86	65	91	61	75	4	1.4	1.4	1.2	3.9	134	20.1	99	93	49	1	0	3	1			
WV PARKERSBURG	84	63	90	58	74	1	1.2	1.3	1.8	2.4	73	19.9	98	91	50	1	0	2	1			
WI GREEN BAY	80	58	86	55	69	3	1.9	1.1	1.8	6.8	232	17.6	142	85	47	0	0	3	1			
WI LACROSSE	81	60	88	57	70	0	1.3	1.7	1.3	5.4	161	22.3	167	93	47	0	0	1	0			
WI MADISON	83	62	89	56	73	3	1.8	1.2	1.8	5.7	177	20.9	150	83	50	0	0	1	1			
WI MILWAUKEE	79	61	85	56	70	3	1.1	1.6	1.1	5.7	204	20.7	139	86	52	0	0	3	0			
WI WAUSAU	78	58	86	55	68	2	1.2	1.3	1.9	8.2	237	21.2	155	93	53	0	0	2	1			
WY CASPER	80	47	87	38	63	-2	1.7	1.3	1.9	2.8	215	10.2	144	75	22	0	0	0	0			
WY CHEYENNE	78	46	83	39	62	-2	1.7	1.5	1.7	3.3	182	9.5	129	71	24	0	0	0	0			
WY LANDER	76	47	85	38	62	-4	1.7	1.3	1.7	4.6	349	11.1	140	66	25	0	0	0	0			
WY SHERIDAN	74	47	85	39	60	-4	1.3	1.2	1.2	3.5	173	10.0	118	80	39	0	0	2	0			

Based on 1961-90 normals.

National Agricultural Summary

June 21 - 27, 1993

HIGHLIGHTS: Heavy rainfall over the Central Plains and into the western Gulf Coast caused flooding, damaged crops, and delayed farm activity. Tropical storm Arlene made landfall into south Texas early in the week and lingered until Wednesday or Thursday. Heavy rains in the upper Midwest caused the Mississippi River to overflow. Scattered showers in the Southeast provided some relief to crops in that region. Temperatures across the country averaged near normal in the Atlantic Coast region to slightly below normal across the Great Plains and Rockies. Higher-than-normal readings were recorded across the Southwest.

SMALL GRAINS: In the 19 major winter wheat-producing States, harvest was 24 percent(%) complete, compared with 31% in 1992 at this time and 43% average. Harvest progress continued to be delayed by rains. Foliar disease activities remained moderate to severe in Kansas. Below-normal temperatures in the Dakota's continued to increase tan spot problems. Warmer conditions in the upper Rockies and Northwest allowed grain to develop at a greater pace than in previous weeks. Nationally, winter wheat was rated in fair to excellent condition. Heading of spring wheat for the five major producing States was 21% headed, compared with 51% last year and the 53% 5-year average.

CORN: Corn silking in the 17 major producing States was 2%, compared with 2% a year ago and 3% average. Condition of the crop remained fair to good. Heavy rains in the Mississippi Valley caused crop damage. Elsewhere, warm weather and adequate moisture increased crop development. In the Southeast, farmers saw their crops improve as scattered showers fell. Corn earworms were reported in some parts of the Texas High Plains.

SOYBEANS: Soybean planting progress in the 19 major producing States reached 89% complete, compared with 95% last year and 94% average. Soybeans blooming only averaged 1%, compared with 2% last year and 4% average. Condition of the crop was rated fair to good. Areas in the South, such as Louisiana where planting had been delayed by lack of moisture, experienced delays due to excessive moisture. Wet conditions continued to hamper planting progress across the Ohio and Mississippi Valleys.

COTTON: Cotton squaring in the 14 major producing States stood at 43%, compared with 46% last year and 44% average. Cotton setting bolls was 2%, compared with 2% last year and 3% average. Reports of boll weevils and insect pressures in Tennessee and other southern locations prompted growers to spray. Condition of crops in Georgia and Louisiana improved as scattered showers fell. Central Texas and Blackland areas needed hot, dry weather as cotton in the Coastal Bend showed stress from standing water. Fields in the Rio Grande were flooded.

SORGHUM: Planting progress for the 12 major producing States was 93%, compared with 92% last year and 94% average. Planting progress in many areas has been limited due to wet weather. Condition of the crop was rated fair to good.

RICE: Rice condition remained fair to good in the five major producing States. All rice fields in Texas were nearly emerged as

controlled flooding continued. Crop remains extremely late, reducing expectations of the second crop. Fertilizer, herbicide application, and treatment for water weevil were active in California.

OTHER FIELD CROPS: Excessive moisture in the Ohio and Tennessee Valleys caused delays in transplanting tobacco. Other problems tobacco farmers reported were black shank, blue mold, and angular leaf on some plants. Flue-cured tobacco was topped in North Carolina. Cutting of hay continued where conditions allowed. Progress was behind normal in the central parts of the Nation where wet weather and wet fields caused problems for producers. Peanut fields in the Texas Low Plains showed improvement from recent rains. Peanut stands were reported as making good progress.

FRUIT AND NUTS: Florida citrus groves, trees, and new crop fruit improved with recent rains. Some irrigation discontinued. New crop fruit progressed normally. Valencia harvest was almost complete for the season. In California, harvest of Valencia oranges was over 30% complete. Grapefruit harvest was down to the last few thousand boxes. Freestone peaches were harvested at a good rate. In South Carolina, peaches were in fair condition. Crop harvest had reached 21% complete. New York apples were reported to have good fruit set. Irrigation was needed in some areas. Sweet and tart cherries showed heavy crop. Scab and web worm problems were present in Texas pecan orchards. California almond groves were treated for mites.

VEGETABLES: Vegetable harvest continued in Arizona, California, New England, and New Jersey. Sweet corn, squash, tomato, and watermelons were harvested in Florida. The season was complete for other vegetable crops in the State. In California, asparagus harvest declined in the San Joaquin Delta region. Broccoli harvest was moderate in Salinas-Watsonville, and Santa Maria regions. Fresh market tomato harvesting continued in Merced and Tulare Counties. Other vegetables being harvested include sweet corn, lettuce, onion, and green beans.

PASTURE AND LIVESTOCK: Pasture conditions ranged from fair to excellent across the Nation. Parts of the Southeast received some relief from drought conditions as scattered showers fell. Texas feeding conditions improved from recent rains. Livestock showed improvements except for the Trans-Pecos area where supplemental feeding was heavy. Livestock in California was reported in good condition as water and feed supplies were plentiful. This was also true in other parts of the west. Livestock conditions remained generally good across the Nation.

Crop Progress

for the Week Ending June 27, 1993

COTTON (Percent Squaring)

	Current	Last Wk	1992	Avg.
AL	42	20	68	71
AZ	88	75	85	88
AR	57	24	67	58
CA	41	25	65	58
GA	55	40	45	63
LA	54	33	87	65
MS	44	27	80	66
MO	50	16	43	47
NM	35	20	51	56
NC	36	16	23	36
OK	26	6	16	7
SC	45	25	30	39
TN	55	19	44	41
TX	35	25	23	27
14 States	43	26	46	44

These 14 States produced 99 of the 1992 cotton crop.

COTTON (Percent Setting Bolls)

	Current	Last Wk	1992	Avg.
AL	2	NA	3	8
AZ	41	NA	22	42
AR	0	NA	0	1
CA	0	NA	0	0
GA	3	NA	5	9
LA	4	NA	13	7
MS	1	NA	9	6
MO	0	NA	0	0
NM	0	NA	0	1
NC	1	NA	2	2
OK	0	NA	0	0
SC	4	NA	0	9
TN	0	NA	0	0
TX	12	NA	8	10
14 States	7	NA	6	8

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

GRAIN SORGHUM (Percent Planted)

	Current	Last Wk	1992	Avg.
AR	100	97	100	98
CO	85	78	90	89
IL	86	73	98	93
KS	90	80	85	90
LA	99	97	100	97
MS	100	98	100	100
MO	91	81	100	94
NE	98	95	100	100
NM	56	49	86	85
OK	95	89	88	88
SD	83	72	91	92
TX	95	90	92	94
12 States	93	86	92	94

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

SOYBEANS (Percent Planted)

	Current	Last Wk	1992	Avg.
AL	84	78	92	84
AR	82	70	81	80
GA	81	76	84	85
IL	95	89	100	99
IN	99	95	100	95
IA	88	80	100	100
KS	90	85	85	90
KY	77	64	82	80
LA	90	88	93	82
MI	99	98	100	98
MN	85	80	99	99
MS	76	73	87	80
MO	82	73	92	86
NE	98	95	100	100
NC	87	80	75	80
OH	100	100	100	100
SC	80	72	75	83
SD	74	65	100	100
TN	85	76	85	80
19 States	89	83	95	94

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

SOYBEANS (Percent Blooming)

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

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

WINTER WHEAT (Percent Harvested)

	Current	Last Wk	1992	Avg.
AR	75	44	81	88
CA	45	35	60	54
CO	1	0	1	1
GA	96	86	91	94
ID	0	0	0	0
IL	6	0	16	41
IN	8	0	8	26
KS	10	0	35	55
MI	0	0	0	0
MO	14	5	24	58
MT	0	0	0	0
NE	0	0	1	10
NC	78	48	50	70
OH	0	0	0	0
OK	64	26	71	85
OR	0	0	2	0
SD	0	0	0	0
TX	66	53	51	64
WA	0	0	0	0
19 States	24	12	31	43

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

SPRING WHEAT (Percent Headed)

	Current	Last Wk	1992	Avg.
ID	11	6	64	39
MN	31	13	54	64
MT	15	5	44	42
ND	15	3	41	44
SD	42	8	88	84
5 States	21	6	51	53

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

CORN (Percent Silking)

	Current	Last Wk	1992	Avg.
CO	0	NA	0	0
GA	0	NA	0	0
IL	0	NA	1	3
IN	0	NA	0	0
IA	0	NA	0	0
KS	1	NA	5	5
KY	1	NA	3	5
MI	0	NA	0	0
MN	0	NA	0	0
MO	0	NA	0	0
NE	0	NA	0	0
NC	25	NA	22	30
OH	0	NA	0	0
PA	0	NA	0	0
SD	0	NA	0	0
TX	52	NA	56	63
WI	0	NA	0	0
17 States	2	NA	2	3

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

Crop Condition (Percent)

for the Week Ending June 27, 1993

RICE

State	VP	P	F	G	EX
AR	0	0	26	69	5
CA	0	0	15	80	5
LA	0	1	74	25	0
MS	0	0	95	5	0
TX	0	0	27	66	7
5 State	0	0	41	55	4
Prev Week	0	0	39	59	2
Prev Year	0	2	31	64	3

WINTER WHEAT

State	VP	P	F	G	EX
AR	0	4	42	54	0
CA	0	0	15	65	20
CO	2	5	16	55	22
GA	0	9	33	58	0
ID	1	3	19	67	10
IL	0	3	36	59	2
IN	0	2	25	66	7
KS	1	5	18	60	16
MI	3	12	25	45	15
MO	0	10	67	23	0
MT	2	3	14	55	26
NE	0	0	26	72	2
NC	0	2	38	59	1
OH	1	7	28	50	14
OK	0	0	33	67	0
OR	0	3	15	51	31
SD	2	4	5	60	29
TX	3	4	42	44	7
WA	0	0	9	91	0
19 State	2	3	28	56	11
Prev Week	1	3	26	57	13
Prev Year	6	16	40	33	5

CORN

State	VP	P	F	G	EX
CO	0	1	11	64	24
GA	21	27	38	14	0
IL	0	0	21	74	5
IN	0	1	27	66	6
IA	0	9	57	33	1
KS	0	6	24	42	28
KY	0	1	29	59	11
MI	2	8	25	50	15
MN	4	20	59	16	1
MO	0	2	51	46	1
NE	0	2	21	71	6
NC	1	12	55	32	0
OH	0	4	24	57	15
PA	1	4	21	53	21
SD	2	5	34	56	3
TX	5	3	22	53	17
WI	3	15	50	30	2
17 States	1	6	36	51	6
Prev Week	1	7	35	52	5
Prev Year	2	6	37	48	7

SPRING WHEAT

State	VP	P	F	G	EX
ID	1	1	13	72	13
MN	2	9	25	53	11
MT	1	10	22	48	19
ND	0	0	5	85	10
SD	0	1	9	64	26
5 State	0	2	10	75	13
Prev Week	0	3	13	70	14
Prev Year	3	11	33	46	7

SORGHUM

State	VP	P	F	G	EX
AR	0	0	33	67	0
CO	0	1	24	68	7
IL	0	0	23	74	3
KS	0	4	17	60	19
LA	0	6	56	38	0
MS	0	0	77	23	0
MO	0	6	50	40	4
NE	0	4	20	73	3
NM	21	8	38	32	1
OK	0	0	18	82	0
SD	0	2	37	51	10
TX	5	6	27	47	15
12 State	2	4	26	56	12
Prev Week	0	5	27	56	12
Prev Year	0	5	35	52	8

COTTON

State	VP	P	F	G	EX
AL	1	6	63	30	0
AZ	0	0	10	75	15
AR	0	0	26	74	0
CA	0	0	10	90	0
GA	25	10	50	15	0
LA	0	0	45	55	0
MS	0	0	85	15	0
MO	0	0	56	44	0
NM	3	5	46	42	4
NC	0	2	23	75	0
OK	0	0	2	98	0
SC	0	15	72	13	0
TN	0	0	18	82	0
TX	0	4	30	64	2
14 State	1	3	36	59	1
Prev Week	0	5	40	53	2
Prev Year	8	14	42	32	4

SOYBEANS

State	VP	P	F	G	EX
AL	0	15	59	26	0
AR	0	0	35	65	0
GA	17	16	55	12	0
IL	0	0	27	69	4
IN	0	1	30	66	3
IA	0	10	50	39	1
KS	0	4	3	65	28
KY	0	0	35	58	7
LA	0	8	48	44	0
MI	1	4	25	50	20
MN	4	23	59	13	1
MS	0	18	49	33	0
MO	0	6	50	42	2
NE	0	5	16	76	3
NC	0	7	46	47	0
OH	1	5	27	54	13
SC	0	28	65	7	0
SD	4	5	43	41	7
TN	0	0	12	86	2
19 State	1	7	38	50	4
Prev Week	1	7	38	50	4
Prev Year	1	5	41	49	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 0.35 to 4.30 in. north; 0.23 to 4.08 in. central; 0.50 to 2.60 in. south. Temperatures 4° below normal to normal north; 3° below normal to 2° above normal central; 4° below normal to 2° above normal south. Lows 61 to 67° north; 62 to 68° central; 61 to 70° south. Highs 86 to 92° north; 87 to 95° central; 90 to 95° south.

Days suitable for fieldwork 6.0. Soil moisture 89% short, 11% adequate. Corn silked 41%, 58% 1992, 70% avg.; dented 7%, 10% 1992, 10% avg.; 28% very poor, 35% poor, 34% fair, 3% good. Sorghum planted 71%, 90% 1992, 88% avg.; 10% very poor, 9% poor, 58% fair, 23% good. Peanuts pegged 11%, 37% 1992, 39% avg.; 100% fair. Wheat harvested 76%, 83% 1992, 86% avg.; 15% poor, 31% fair, 54% good. Hay harvested 91%, 92% 1992, 92% avg. Pasture 18% very poor, 22% poor, 56% fair, 4% good. Primary activities: Cultivating, spraying fields, harvesting vegetables, wheat, general care of livestock, poultry, catfish.

ALASKA: Partly cloudy skies, light showers were prevalent across State. A few areas received enough rainfall to replenish much needed soil moisture supplies.

Days suitable for haying 3.5. Hay harvest 15% complete; by late June 1992 very little hay had been harvested. Crop growth was 50% slow, 45% moderate, 5% rapid. Heights of small grains averaged 12 in. depending upon locality, conditions. Barley 20% poor, 20% fair, 50% good, 10% excellent. Commercial potato heights 3 to 10 in. Topsoil 70% short, 30% adequate. Subsoil moisture 65% short, 35% adequate, 2% surplus.

ARIZONA: Sunny, hot. Precipitation limited with light scattered showers 20th northwest, 26th far southwest. Temperatures 1° below to 4° above normal. Extremes 38°; 104° higher elevations; 55°; 121° deserts.

Cotton squaring 88%, 85% 1992, 88% avg.; setting bolls 41%, 22% 1992, 42% avg. Activities included: Irrigating, pesticide applications, pest monitoring, cultivating. Cotton 10% fair, 75% good, 15% excellent. Insects, weeds mostly light. Alfalfa good to excellent. Harvest active central, east, west; moderate south central. Weeds light to moderate, insects mostly light; disease light. Small grains harvested 95%, 90% 1992, 91% avg. Fields in good to excellent condition. Grapes, watermelons, honeydews, cantaloupes, harvested in western Arizona. Cabbage, carrots, sweet corn, chile peppers, green onions, dry onions, grapes, kale, mixed greens, squash, grapefruit harvested central areas. Tomatoes, dry onions, harvested eastern.

ARKANSAS: Mild week, temperatures averaging a little below normal. Heavy rains occurred south region of State the first part of week; scattered showers occurred statewide the latter part of week. Extremes 58°; 92°. Rainfall 0.06 to 6.45 in.

Days suitable for fieldwork 5. Rapid rate of crop growth. Soil moisture 12% short, 57% adequate, 31% surplus. Wheat poor to good. Wheat, oats harvests continued. Soybeans, corn, sorghum plantings continued. Corn, sorghum, cotton, soybeans cultivation continued. Corn, cotton irrigation continued. Producers sprayed cotton fields for weevils. Corn 4% poor, 42% fair, 54% good. Producers continued to apply herbicides to rice fields. Nematodes infestation reported in some soybeans fields. Fruit, vegetable crops good. Livestock excellent condition, external parasite problems in some areas. Pastures good condition, hay cuttings continued.

CALIFORNIA: High pressure at the beginning, at the end of the week took temperatures to over 100° at many locations. An upper level trough moved through the area midweek, cooled temperatures back to near normal. Santa Maria recorded 0.05 in. rain, was the only measurable rainfall for the week.

Wheat harvest continued. Barley harvest winding down. Rice fertilizer, herbicide application, water weevil treatment ongoing. Cotton development improved, setting bolls southern areas, treated

mites, aphids, lygus. Harvest over wintered sugarbeets continued, emerging crop irrigated, treated mildew. Corn planted, irrigated, sprayed weeds. Most safflower blooming, drying for harvest scattered areas. Alfalfa hay harvest continuing. Stone fruit harvest continued. Freestone peach, nectarine, plum harvests progressed. Table grape picking wound down in Coachella Valley; began in Kern County. Vineyards treated for mildew, leafhoppers. Date crop progressed. Valencia oranges one third picked. South coast lemon harvest 90% complete. Almond orchards fertilized; walnuts treated for codling moth. Asparagus harvest declining San Joaquin Delta region. Broccoli harvest moderate Salinas Watsonville, Santa Maria regions. Bell pepper harvest progressed Merced, Kern, Fresno counties. Central coast cauliflower harvest moderate, variable quality. Santa Maria celery harvest fairly heavy; Salinas area moderate. Fresh market tomato harvesting continued Merced, Tulare counties, Coachella Valley of Riverside County, Westside of Fresno County. Imperial Valley fresh market tomato harvest slowing. Processing tomato harvest winding down Imperial County. Sweet corn harvested Fresno, Kern, Tulare counties. Riverside sweet corn harvest slowing. Garlic harvest Tulare County, increasing. Head lettuce harvest moderate central coast. Harvest of Romaine, leaf lettuce central coast moderate. Onions harvested Kern, San Joaquin counties. Honeydews, watermelons harvested Riverside. Watermelon harvest began Fresno County. Cantaloupes harvested Kern County. Squash harvested Riverside, Stanislaus, Tulare counties. Other crops harvested included: Chili peppers, cucumbers, eggplant, garlic, green beans, green onions, okra, cherry, Roma tomatoes, oriental vegetables. Rangelands fair to good condition. Higher elevation grasses starting to dry. Livestock good condition. Water, feed supplies plentiful mountain areas.

COLORADO: A strong weather disturbance moved across the State with severe weather over the northeast on the 23rd. System was accompanied by large hail in some locations. Temperatures seasonally warm during most of the week except for the 23rd when the cold front moved through bringing cooler air, rain. Temperatures generally 3° below normal for the period in most locations.

Days suitable for fieldwork 6.1. Soil moisture 3% very short, 24% short, 70% adequate, 3% surplus. Alfalfa 1st cutting 68%, 76% 1992, 66% avg. Spring barley headed 58%, 48% 1992, 53% avg.; turning color 14%, 18% 1992, 16% avg. Oats headed 53%, 65% 1992, 56% avg.; turning color 11%, 8% 1992, 7% avg. Sugarbeets thinned 96%, 99% 1992, 92% avg. Dry beans planted 95%, 91% 1992, 93% avg.; emerged 72%, 73% 1992, 72% avg. Fall potatoes are 95% emerged, 100% 1992, 84% avg. Sorghum planted 85%, 90% 1992, 89% avg.; emerged 74%, 80% 1992, 68% avg. Winter wheat turning color 74%, 83% 1992, 67% avg.; 2% very poor, 5% poor, 16% fair, 55% good, 22% excellent. Dry onion 1% very poor, 3% poor, 15% fair, 70% good, 11% excellent. Corn 1% poor, 11% fair, 64% good, 24% excellent. Sugarbeets 1% very poor, 6% poor, 15% fair, 64% good, 14% excellent. Livestock mostly good to excellent. Pasture, range feed condition excellent.

FLORIDA: Temperatures near normal over the State. Extreme highs; low to middle 90s. Coolest lows; low, middle 60s across north, upper 60s elsewhere. Rainfall 2 to 5 days over the State. Most places recorded at least 1.00 in., some local areas reporting 2.00 to 3.00 in.

Soil moisture mostly short throughout State with scattered areas adequate moisture northern Peninsula, lower east coast. Haying, tobacco harvest active. Dry land crops under stress from drought. Cotton, peanuts need rain. Sugarcane, other irrigated crops making good progress. Citrus groves, trees, new crop fruit improved due to recent rains. Some irrigation discontinued. New crop fruit progressing normally. New growth trees of all ages. Valencia harvest almost complete for season. Grapefruit harvest down to the last few thousand boxes. Caretakers cutting cover crops, spraying, fertilizing. One to 3.00 in. rain northern areas vegetable producing areas. Sweet corn, squash, tomato, watermelon harvest continued. Season complete for

other vegetable crops. Available: Watermelon, sweet corn, tomato, squash, cherry tomatoes. State's pastures very poor to excellent. Pasture 25% very poor, 20% poor, 45% fair, 5% good, 5% excellent. Hay being fed, western areas. State's cattle herds poor to good.

GEORGIA: After several weeks of below normal rain, weather pattern changed allowing scattered to numerous showers, thunderstorms. Rainfall varied considerably, most locations at least 0.50 in., local totals to near 3.00 in. Temperatures lowered to near normal levels. Hottest mid to upper 80s mountains to mostly low or mid 90s elsewhere. Coolest mid to upper 50s mountains, 65 to 70° over most remainder of State.

Days suitable for fieldwork 6.0. Soil moisture 41% very short, 44% short, 15% adequate. Corn 71% silked, 88% 1992, 86% avg.; 29% dough, 41% 1992, 50% avg.; 9% dent, 10% 1992, 19% avg.; some corn already abandoned. Cotton insects increasing. Sorghum 2% very poor, 14% poor, 76% fair, 8% good; 84% planted, 92% 1992, 91% avg.; scattered showers allowing planting to resume. Peanuts 11% very poor, 5% poor, 66% fair, 18% good; 79% blooming, 78% 1992, 79% avg.; 29% pegging, 29% 1992, 37% avg.; irrigating heavily, insects on the increase. Tobacco 6% poor, 64% fair, 30% good; 3% harvested, 7% 1992, 11% avg.; topping, sucker control active. Few fields black shank reported. Other small grains 8% poor, 63% fair, 29% good. Watermelons 17% very poor, 44% poor, 33% fair, 6% good; 6% harvested, 19% 1992, 24% avg.; dry weather hurting melons, harvest late. Other vegetables 7% very poor, 3% poor, 52% fair, 38% good. Apples 13% fair, 87% good. Peaches 17% fair, 83% good; 50% harvested, 62% 1992, 65% avg.; Harvest very active. Hay 18% very poor, 31% poor, 37% fair, 14% good. Pasture 23% very poor, 32% poor, 31% fair, 14% good; Some cattle producers feeding hay. Cattle 2% very poor, 6% poor, 55% fair, 36% good, 1% excellent. Hogs 3% poor, 36% fair, 58% good, 3% excellent. Activities: Irrigating, insect, weed control in row crops, peach, hay harvest.

HAWAII: Weather warm, sunny mixed with light rains windward sections. Rains brought some relief dry areas Hawaii island. Trade winds brisk weekend, cooler. Temperatures mid 60s to high 80s. Rainfall none to 2.40 in.

Sunny weather beneficial to farming activities, orchard fruit development. Irrigation, spraying efforts moderate to heavy. Banana production moderate. Papaya output higher. Watermelon picking heavy.

IDAHO: Temperatures 1° above to 3° below normal. Eastern areas mornings reached below freezing levels. Isolated hail damage in Elmore County. Precipitation 0.08 to 0.76 in. north; none to 0.14 in. southwest; none to 0.43 in. south central; none to 0.39 in. east.

Days suitable for fieldwork 6. Soil moisture 2% short, 92% adequate, 6% surplus. Winter wheat 62% headed, 18% booted, 18% jointing, 2% not yet jointed. Spring wheat emerged 99%, 100% 1992, 100% avg.; 31% not yet jointed, 40% jointed, 18% booted, 11% headed. Spring barley emerged 99%, 100% 1992, 100% avg.; 31% not yet jointed, 36% jointed, 22% booted, 11% headed. Oats planted 99%, 100% 1992, 100% avg.; emerged 98%, 100% 1992, 100% avg. Potatoes planted 100%, 100% 1992, 100% avg.; emerged 93%, 100% 1992, 95% avg. Potatoes not yet 12" high 78%, 12" high 20%, closing middles 2%. Potatoes 1% poor, 15% fair, 80% good, 4% excellent. Sugarbeets thinned 88%, 99% 1992, 98% avg. Field corn emerged 99%, 100% 1992, 98% avg. Dry beans planted 96%, 100% 1992, 99% avg.; emerged 73%, 93% 1992, 92% avg. Alfalfa first cutting 69%, 90% 1992, 72% avg. Cherries harvested 5%, 72% 1992, 36% avg. Irrigation water supplies 1% poor, 4% fair, 73% good, 22% excellent. Activities: Cultivation, irrigation, weed, insect control, hay harvest, thinning sugarbeets, seeding dry beans. Pasture, range condition 98% of normal. Livestock mostly good.

ILLINOIS: A frontal system produced strong thunderstorms 25th, over the weekend. Highs in mid 80s; lows averaged in the lower 60s to around 70. Extremes upper 80s; mid 90s. Rainfall 0.50 to 2.00 in. across the State.

Days suitable for fieldwork 4.25. Farmers were busy last week planting, replanting soybeans, as 95% of the crops were planted as of

27th. Rains, flooding continued to hamper northern farmers, while southern farmers got off to a good start harvesting wheat. Crops continue to be reported mostly good condition.

INDIANA: Temperatures 1 to 3° above normal north, 0 to 2° above normal in south. High temperatures 81 to 89°. Mean lows 61 to 68°. Rainfall northern third of State 1.25 to 2.25 in., while southern sections totalled around 1.50 in. with some area in central, west central areas receiving only 0.10 in.

Days suitable for fieldwork 4. Growing conditions for corn, soybeans remain good. Wheat harvest has begun in southern areas. Pastures 97% of normal, same as last week. Wheat decreased slightly, 73% rated good to excellent. Topsoil 5% short, 74% adequate, 21% surplus. Subsoil 2% short, 78% adequate, 20% surplus. Corn 22 in. high, 27 in. 1992, 30 in. avg. Soybeans 95% emerged, 100% 1992, 94% avg.; 7 in. high, 8 in. 1992, 8 in. avg. Oats headed 50%, 83% 1992, 82% avg. Alfalfa hay 1st cutting 95%, 100% 1992, 96% avg.

IOWA: Temperatures near normal northwest, 2° above normal southeast. Extremes 47°; 91°. Precipitation 0.07 in. north central to 5.31 in. east central; average 1.11 in. (normal 1.03 in.). Continued widespread flooding. Wettest November through June period ever recorded since State records began in 1873.

Days suitable for fieldwork 3.0. Topsoil 23% adequate, 77% surplus. Subsoil 15% adequate, 85% surplus. Corn emerged 98%, 100% 1992, 100% normal; cultivated for the first time 18%, 89% 1992, 83% normal; height 9 in.; tallest 18 inches. Soybean acreage replanted or to be replanted 6%; emerged 75%, 100% 1992, 98% normal. Oats headed 35%, 92% 1992, 93% normal. First crop alfalfa hay harvested 48%, 98% 1992, 93% normal. First crop clover hay harvested 26%, 79% 1992, 74% normal. Oat 2% very poor, 18% poor, 46% fair, 32% good, 2% excellent. Winter wheat 1% very poor, 10% poor, 43% fair, 45% good, 1% excellent. Pasture 2% very poor, 3% poor, 16% fair, 54% good, 25% excellent. Hay 1% very poor, 14% poor, 37% fair, 42% good, 6% excellent. Conditions for livestock are good although the wetness, muddy lots continues to be a nuisance.

KANSAS: Temperatures 1 to 5° below normal. Precipitation was received in all districts. Rainfall moderate to heavy, averages ranging from 0.52 in. west central to 3.27 in. central.

Days suitable for fieldwork 4.0. All districts experienced at least 2.0 days suitable. Heavy rains, flooding central. Topsoil moisture 13% short to very short, 48% adequate, 39% surplus. Subsurface moisture 4% short to very short, 76% adequate, 20% surplus. Wheat turning color 100%; ripe 45%, 85% 1992, 90% avg.; harvested 10%, 35% 1992, 55% avg. Harvest full swing southwest, south central. Just underway southeast. Test cutting west central. Take-All appearing central. Infestations isolated, severe. Wheat 76% good to excellent, 18% fair, 6% poor to very poor. Corn 70% good to excellent, 24% fair, 6% poor to very poor. Sorghum planted 90%, 85% 1992, 90% avg.; 79% good to excellent, 17% fair, 4% poor to very poor. Soybeans planted 90%, 85% 1992, 90% avg.; beginning to bloom south central; 93% good to excellent, 3% fair, 4% poor to very poor. Second cutting alfalfa 15%, 30% 1992, 40% avg. Pastures good.

KENTUCKY: Normal temperatures, precipitation. High temperatures mid 80s, low temperatures mid 60s. Precipitation 0.75 in.

Days suitable fieldwork 5.1. Soil moisture 1% very short, 26% short, 68% adequate, 5% surplus. Emerged soybeans 35% fair, 58% good, 7% excellent. Corn making good growth, earliest fields tasseling. Tobacco 2% poor, 30% fair, 62% good, 6% excellent. Minimum blue mold, angular leaf reported on tobacco plants. Wheat harvested 55%, 57% 1992, 59% avg. Pastures mostly good.

LOUISIANA: Temperatures 0.8 to 2.2° below normal. Extremes 60°; 94°. Rainfall 2.99 in. south central to 8.91 in. northwest.

Days suitable for fieldwork 1.4. Soil moisture 17% adequate, 83% surplus. Corn 12% poor, 35% fair, 46% good, 7% excellent; 78% silked, 97% 1992, 89% avg.; 28% dough stage, 57% 1992, 47% avg. Corn crop received needed rain. Hay 88% first cutting, 88% 1992, 76% avg. Peaches 7% poor, 66% fair, 27% good; 35% harvested, 59% 1992, 43% avg. Sorghum 98% emerged, 95% 1992, 93% avg.; 3% headed, 34% 1992, 21% avg.; good. Soybeans 86% emerged, 87% 1992, 73%

avg. Farmers await drier weather to complete planting. Sweet potatoes 13% poor, 31% fair, 56% good; 67% planted, 80% 1992, 81% avg. Planting to resume upon drier conditions. Wheat 97% harvested, 98% 1992, 96% avg. Sugarcane 2% poor, 4% fair, 85% good, 9% excellent. Livestock 22% fair, 70% good, 8% excellent. Pastures 5% very poor, 1% poor, 3% fair, 91% good. Vegetables 5% poor, 61% fair, 28% good, 6% excellent; harvest active.

MARYLAND & DELAWARE: MARYLAND: Precipitation 0.67 in. Temperature 76.0°, normal 73.8°. Extremes 45°; 97°.

Days suitable for fieldwork 6.3. Topsoil 13% very short, 44% short, 43% adequate. Subsoil 4% very short, 18% short, 74% adequate, 4% surplus. Small grains mostly good. Wheat 98% turned, 82% 1992, 93% avg.; 20% harvested, 4% 1992, 25% avg. Barley 78% harvested, 56% 1992, 71% avg. Rye 20% harvested, 22% 1992, 38% avg. Oats 21% turned, 22% 1992, 30% avg. Corn for grain, sweet corn plantings virtually complete. Soybeans 76% planted, 77% 1992, 75% avg. Sorghum 89% planted, 96% 1992, N/A avg. Pasture good, needs rain; hay supplies adequate. Alfalfa hay 23% second cut, 21% 1992, 29% avg. Other hay 7% second cut, 7% 1992, 8% avg. Strawberries 95% harvested, 93% 1992, 98% avg. Tobacco 95% transplanted, 92% 1992, 93% avg. Potatoes 7% harvested, 1% 1992, 5% avg. Peaches, apples fair to good; fruit set average or above.

DELAWARE: Precipitation 0.20 in. Temperature 76.0°, normal 74.4°. Extremes 55°; 94°.

Days suitable for fieldwork 6.9. Topsoil 16% very short, 84% short. Subsoil 67% short, 33% adequate. Small grains mostly fair to good. Wheat 18% harvested, 6% 1992, 22% avg. Barley 93% harvested, 78% 1992, 74% avg. Rye 65% turned, 95% 1992, 94% avg.; 12% harvested, 10% 1992, 22% avg. Soybeans 72% planted, 74% 1992, 81% avg. Sorghum 94% planted, 100% 1992, N/A avg. Snap bean 7% harvested, 0% 1992, 5% avg. Alfalfa hay 28% second cut, 26% 1992, 34% avg. Other hay 5% second cut, 4% 1992, 6% avg. Pasture fair; hay supplies adequate. Peach, apple crop fair to good, fruit set average.

MICHIGAN: Extremes 40°; 91°. Precipitation 0.12 to 2.45 in. across the State.

Days suitable for fieldwork 4.5. Soil moisture 50% adequate, 50% surplus. Dry beans 80% planted, 95% 1992, 80% avg.; 70% emerged, 80% 1992, 65% avg. Oats 25% headed, 25% 1992, 50% avg.; 4% very poor, 6% poor, 30% fair, 45% good, 15% excellent. Soybeans 98% emerged, 98% 1992, 90% avg. Hay 60% first cutting, 65% 1992, 70% avg.; 5% very poor, 10% poor, 25% fair, 45% good, 15% excellent. Pasture condition 90% of normal. Major activities included: Haying, weed spraying, picking strawberries, cultivating, sidedressing.

MINNESOTA: Temperatures near normal 1 to 2° below normal for State. Extremes 30°; 90°. Precipitation 0.64 in. below normal for southeast, 0.26 to 1.22 in. above normal elsewhere. Precipitation 0.32 to 2.23 in. Greatest weekly precipitation 2.92 in.

Days suitable for fieldwork 1.5. Topsoil 19% adequate, 81% surplus. Spring wheat 96% jointing, 86% 1992, 92% avg.; 31% heading, 54% 1992, 64% avg. Oats 84% jointing, 97% 1992, 97% avg.; 26% heading, 84% 1992, 77% avg. Barley 98% jointing, 83% 1992, 86% avg.; 39% heading, 50% 1992, 65% avg. Sweet corn 82% planted, 99% 1992, 98% avg. Alfalfa 67% first cutting, 83% 1992, 84% avg. Corn 20% cultivated once, 81% 1992, 81% avg.; 11 in. height, 23 in., 1992, 24 in. avg. Soybeans 85% planted, 99% 1992, 99% avg.; 80% emerged, 99% 1992, 96% avg.; 9% cultivated once, 66% 1992, 62% avg.; 5 in. height, 8 in. 1992, 8 in. avg. Spring wheat 2% very poor, 9% poor, 25% fair, 53% good, 11% excellent. Oats 1% very poor, 8% poor, 31% fair, 50% good, 10% excellent. Barley 2% very poor, 6% poor, 24% fair, 55% good, 13% excellent. Corn 4% very poor, 20% poor, 59% fair, 16% good, 1% excellent. Soybeans 4% very poor, 23% poor, 59% fair, 13% good, 1% excellent.

MISSISSIPPI: Temperatures 77°, 2.1° below normal. Extremes 60°; 96°. Entire State received over 1.00 in. Rainfall 3.02 in., 2.11 in., above normal. Soil temperatures 80°.

Days suitable for fieldwork 2.2, 5.5 1992, 5.2 avg. Soil moisture 67% adequate, 33% surplus. Corn 98% emerged, 100% 1992, 100%

avg.; 40% silked, 64% 1992, 57% avg.; 8% dough, 23% 1992, 18% avg.; 5% poor, 66% fair, 28% good, 1% excellent. Cotton 44% squaring, 80% 1992, 66% avg.; 1% setting bolls, 9% 1992, 6% avg.; 85% fair, 15% good. Rice 99% emerged, 100% 1992, 98% avg.; 95% fair, 5% good. Sorghum 95% emerged, 99% 1992, 95% avg.; 1% heading, 28% 1992, 14% avg.; 77% fair, 23% good. Soybeans 76% planted, 87% 1992, 80% avg.; 71% emerged, 80% 1992, 69% avg.; 0% blooming, 0% 1992, 0% avg.; 18% poor, 49% fair, 33% good. Sweet potatoes 90% planted, 80% 1992, 90% avg.; 15% poor, 20% fair, 65% good. Watermelons 63% fair, 37% good. Wheat 96% mature, 98% 1992, 99% avg.; 65% harvested, 83% 1992, 90% avg.; 5% very poor, 6% poor, 75% fair, 14% good. Hay 52% harvested, 55% 1992, 46% avg. Peaches 38% harvested, 63% 1992, 49% avg.; 7% very poor, 27% poor, 43% fair, 23% good. Livestock 15% fair, 73% good, 12% excellent. Pasture 85% of normal. Activities: Planting soybeans, insect control.

MISSOURI: Temperatures normal to slightly above normal, warmest in eastern areas. Rainfall 1.53 in., by district 0.57 in. northwest to over 2.00 in. central, east central, southwest, southeast. Rivers remain high, Mississippi River at flood stage.

Days suitable for fieldwork 4.0. Topsoil 2% short, 53% adequate, 45% surplus. Single crop soybean planting 89%, ranging from 63% southwestern district to 95% southeast, all other districts 85 to 90%. Double crop soybean planting 23%, 36% 1992, 41% avg., mostly confined to southeastern district at 45%. Sorghum planting by area ranges 73% southwest to 98% southeast. Wheat turning color 97%, 98% 1992, 100% avg. Wheat harvesting southeastern district 64%, all other major cropping districts less than 5%. Alfalfa first cutting 92%, 98% 1992, 96% avg.; second cutting 9%, 23% 1992, 32% avg. Other hay cut 60%, 69% 1992, 69% avg. Pasture 7% fair, 70% good, 23% avg., above normal all areas.

MONTANA: Temperatures at or slightly above normal. Precipitation most areas, light.

Days suitable for fieldwork 4.1. Topsoil 16% short, 80% adequate, 4% surplus. Subsoil 19% short, 78% adequate, 3% surplus. Barley 6% poor, 23% fair, 47% good, 24% excellent. Oats 8% poor, 24% fair, 51% good, 17% excellent. Sugarbeets 1% poor, 9% fair, 63% good, 27% excellent. Pasture, range feed rated at 90% of normal.

NEBRASKA: Temperatures 1 to 4° below normals. Precipitation occurred throughout the week varying from 0.78 to 2.50 in.

Days suitable for fieldwork 3.1. Topsoil 2% short, 47% adequate, 51% surplus. Subsoil 70% adequate, 30% surplus. Winter wheat 26% fair, 72% good, 2% excellent; 68% turning, 88% 1992, 86% avg.; 2% ripe, 13% 1992, 28% avg. Corn 2% poor, 21% fair, 71% good, 6% excellent. Sorghum 4% poor, 20% fair, 73% good, 3% excellent. Soybeans 5% poor, 16% fair, 76% good, 3% excellent. Drybeans 100% planted, 96% emerged. Alfalfa 6% fair, 70% good, 24% excellent; 1st cutting 94% harvested, 100% 1992, 97% avg.; 2nd cutting 5% harvested, 8% 1992, 7% avg. Wild hay 3% fair, 61% good, 36% excellent. Pasture, range 104% of normal.

NEVADA: High pressure dominated most of week. Few thundershowers over northern areas 21st, 22nd, precipitation generally light. Temperatures dipped below freezing parts of northeast morning of 23rd to 24th. Temperatures near normal. Extremes 26°; 109°.

First cutting alfalfa hay nearly completed northern areas, some rain damage occurred. Second cutting well along. Potato crop growing well. Range good, stockwater generally adequate. Livestock good.

NEW ENGLAND: Precipitation 0.36 to 3.26 in. north; 0.10 to 1.54 in. south. Temperatures 63 to 69° north; 65 to 72° south. Maximum temperatures 85 to 91° north; 85 to 92° south. Minimum temperatures 38 to 50° north; 42 to 59° south.

Days suitable for fieldwork 6.1. Soil moisture 7% very short, 45% short, 41% adequate, 7% surplus. Available grazing 36% short, 59% adequate, 5% surplus. Fieldwork progress 2 to 3 days behind schedule. Pasture condition 80%. Maine potatoes emerged 100%, 100% 1992, 100% avg.; good. Connecticut River Valley potatoes good. Rhode Island potatoes good. Maine oats emerged 100%; good to excellent. Field corn 100% planted, 100% 1992, 100% avg. Field corn emerged

95%, 95% 1992, 95% avg.; good to fair. First cutting hay 75% harvested, 70% 1992, 70% avg.; good. Shade tobacco 100% planted; good. Outdoor tobacco 100% planted; good. Sweet corn 95% planted, 95% 1992, 95% avg. Sweet corn emerged 95%, 90% 1992, 90% avg.; good. Peach, pear, highbush blueberry set average. Cranberry set average to heavy. Apple set, fruit drop average; scab infection light. Strawberry set average; harvested 60% south, 10% north. Major farm activities: Irrigating fields, applying herbicides, insecticides, top, side dressing, manure spreading. Tying up shade tobacco. Cutting first stand of hay. Harvesting early season vegetables, strawberries.

NEW JERSEY: Temperatures near normal. Extremes 44°, 92°. Rainfall 0.48 in. north, 0.41 in. central, 0.85 in. south. Heaviest 24 hour total 1.20 in. on 21st, 22nd. Estimated soil moisture, in percent field capacity, 74% north, 57% central, 44% south. Four inch soil temperatures 72° north, 73° central, 74° south.

Soil moisture content short. Rain needed in most areas for grain crops. Light harvest of peppers, sweet corn are just beginning. Eggplant harvest expected to begin within the week. Asparagus harvest almost completed. Squash of all types available in good supply. Cabbage, beans, cucumbers, tomatoes, beets, leafy greens, green onions, leeks, parsley, turnips available in moderate supply. Blueberry harvest increasing. Strawberry harvest, mostly completed. Light harvest of peaches expected in a few weeks. Barley combining is almost completed. Wheat harvest expected to begin shortly. Early planted soybeans up 8 to 10 in., early planted "knee high".

NEW MEXICO: After a cool beginning, a rather intense high pressure system in the upper atmosphere caused the second half of the week to be hot statewide. Overall, temperatures 2° above normal for the State. Extremes 30° northwest; 105° southwest. Highest rainfall afternoon thunderstorms were in the east, with several locations reporting over 1.00 in.

Days suitable for fieldwork 6.4. Soil moisture 81% short, 19% adequate. Some light to moderate hail damage in the north to eastern parts of the State. Damage to apples, corn, cotton, wheat. Crop conditions: Alfalfa 6% poor, 24% fair, 67% good, 3% excellent. Corn 5% poor, 15% fair, 80% good. Irrigated wheat 5% poor, 19% fair, 71% good, 5% excellent. Dryland wheat 33% very poor, 10% poor, 49% fair, 8% good. Wheat harvest 71% complete. Chile 6% poor, 38% fair, 56% good. Onions 18% fair, 80% good, 2% excellent; harvest continues. Apples 29% fair, 64% good, 7% excellent; fruit set light to average. Cattle, sheep poor to good. Range, pasture 66% of normal.

NEW YORK: Week began with humid weather, widespread showers, thunderstorms. Cooler, drier air gained control on 22nd. Warm weather returned on 25th. Temperatures dropped to well down in the 30s in a few areas on the 24th. Warm weather continued into the weekend with scattered showers, thunderstorms returning. Temperatures fluctuated a lot, averages were near normal.

Days suitable for fieldwork 5.7. Soil moisture mostly adequate. Pasture condition 90% of normal. Corn planting virtually complete. Hay good. First cutting alfalfa 77% finished, 68% 1992, 64% avg. Clo-tim 61% harvested, 66% 1992, 56% avg. Oats good. Potatoes beginning to flower. Dry beans 93% planted. Tree fruits good to excellent in Hudson Valley. Apples have good fruit set. Irrigation needed in some areas. Peaches exhibit short crop, little hand thinning needed. Sweet cherries show heavy crop. Harvest under way. Tart cherries show heavy crop. Strawberry harvest gaining momentum. Early planted sweet corn fields in tassel. Lettuce harvest active. Orange County onions good. Asparagus harvest continued.

NORTH CAROLINA: Temperatures 1° below normal to 2° above normal. Precipitation 1.81 in. at Cherry Point Marine Naval Air Station to no rain at several stations.

Days suitable for fieldwork 6.3. Soil moisture 24% very short, 60% short, 16% adequate; Crop condition: Pasture 3% very poor, 12% poor, 56% fair, 28% good, 1% excellent; winter wheat 2% poor, 38% fair, 59% good, 1% excellent; field tobacco 1% poor, 43% fair, 53% good, 3% excellent; irish potatoes 5% poor, 40% fair, 55% good; corn 1% very poor, 12% poor, 55% fair, 32% good; Hay 7% poor,

51% fair, 37% good, 5% excellent; peaches 14% fair, 86% good; truck crops 5% poor, 54% fair, 41% good; cotton 44% fair, 51% good, 5% excellent. Peanuts 50% fair, 46% good, 4% excellent; soybeans 7% poor, 46% fair, 47% good; sweet potatoes 7% poor, 50% fair, 43% good; apples 26% fair, 74% good; hay, roughage supplies 8% short, 86% adequate, 6% surplus. Sorghum planted 90%, 77% 1992, 82% avg.; soybeans planted 87%, 75% 1992, 80% avg. Sweet potatoes transplanted 95%, 95% 1992, 93% avg. Burley tobacco transplanted 94%, 96% 1992, 98% avg. Wheat harvested 78%, 50% 1992, 70% avg.; oats harvested 80%, 48% 1992, 72% avg.; barley harvested 80%, 46% 1992, 74% avg.; rye harvested 74%, 57% 1992, 71% avg.; irish potatoes harvested 30%, 58% 1992, 50% avg.; peaches harvested 23%, 34% 1992, 37% avg. Cotton squared 36%, 23% 1992, 36% avg.; corn silked 25%, 22% 1992, 30% avg.; first cutting of the hay crop 95% completed with second cutting 50% completed. Major activities: Planting double crop soybeans; cutting hay; harvesting small grains; irrigating tobacco. Other activities: Topping tobacco; applying nitrogen to corn; harvesting cucumbers; tending livestock; general farm maintenance.

NORTH DAKOTA: Warm temperatures early in the week ended by midweek as a strong low pressure system, cold front moved across the State. Low pressure system, cold front generated scattered thunderstorms. Some of these thunderstorms produced heavy rain, strong winds, hail. Precipitation 0.49 in. southwest to 1.70 in. northeast. Temperatures 1 to 3° below normal. Extremes 36° south central, northwest; 94° south central.

Days suitable for fieldwork 4.0. Topsoil 4% short, 78% adequate, 18% surplus. Subsoil 29% short, 66% adequate, 5% surplus. Small grains mostly good, development behind last year, average due to lack of abundant sunshine, warm temperatures. Spring wheat 5% fair, 85% good, 10% excellent; durum 4% fair, 88% good, 8% excellent; barley 2% fair, 86% good, 12% excellent; oats 7% fair, 86% good, 7% excellent; winter wheat 17% fair, 77% good, 6% excellent. Hard red spring wheat 15% heading and beyond, 41% 1992, 44% avg. Durum wheat 5% heading and beyond, 17% 1992, 24% avg. Barley 25% heading and beyond, 43% 1992, 49% avg. Oats 15% heading and beyond, 45% 1992, 42% avg. Winter wheat 12% milk and beyond; 34% 1992, 48% avg. Cool wet weather beginning to effect the conditions of late season crops. Corn 12% poor, 39% fair, 49% good; flax 11% fair, 85% good, 4% excellent; sugarbeets 5% fair, 95% good; potatoes 42% poor, 0% fair, 58% good; dry beans 3% poor, 42% fair, 55% good; soybeans 11% poor, 33% fair, 56% good; sunflowers 4% poor, 27% fair, 66% good, 3% excellent. Dry beans 5 in. avg. height, 6 in. 1992, 7 in. avg.; flax 5 in. avg. height, 6 in. 1992, 7 in. avg.; soybeans 5 in. avg. height, 7 in. 1992, 8 in. avg.; sunflowers 6 in. avg. height, 6 in. 1992, 9 in. avg.; potatoes 7 in. avg. height, 8 in. 1992, 9 in. avg.; corn 8 in. avg. height, 12 in. 1992, 16 in. avg.; sugarbeets 8 in. avg. height, 9 in. 1992. Post emerged herbicide application for broadleaf control 85% complete, wild oats 93%. Range, pasture conditions 87% of normal. Hay crop condition 85% of normal. Alfalfa hay first cutting 26% complete, other hay 10%. Stockwater supplies 8% short, 86% adequate, 6% surplus.

OHIO: Weather systems tended to stall near State bringing ample rains. Atmospheric moisture was high, with strong storms, locally heavy downpours on some areas. Temperatures 1 to 3° above normal. Mean maximums 80 to 87°, with the average lows 60 to the mid 60s. Precipitation was slightly greater in the east than west. Most rainfall was between 0.75 to 1.75 in. throughout the State.

Days suitable for fieldwork 5.3. Topsoil 17% short, 76% adequate, 7% surplus. Strawberries harvested 70%, excellent quality; oats headed 65%, considerable behind normal, a few poor stands reported; alfalfa 1st cut harvested complete, 20 of the second cut, best drying weather this season, 2% poor, 24% fair, 63% good, 11% excellent. Fruit, vegetable conditions excellent, well as fruit set. Limited reports of wheat ripe in southern counties. Corn making good growth, knee high in most sections of the State. Soybeans fields requiring cultivation, a few fields blooming. Pastures improved from a week ago, 1% very poor, 4% poor, 27% fair, 58% good, 10% excellent. Some livestock have shown stress from the heat.

OKLAHOMA: Temperatures 3° below normal Panhandle to 2° above normal northeast. Precipitation 0.26 in. west central to 1.87 in. north central.

Days suitable for fieldwork 5.0. Topsoil 6% short, 83% adequate, 11% surplus. Subsoil 6% short, 94% adequate. Wheat 64% harvested, 71% 1992, 85% avg. Oats 27% harvested, 39% 1992, 68% avg. Barley 28% harvested, 51% 1992, 68% avg. Corn 34% tasselling, 19% 1992, 20% avg.; 2% milk to soft, 2% 1992, 6% avg. Sorghum 18% fair, 82% good; 95% planted, 88% 1992, 88% avg.; 80% up to stand, 74% 1992, 72% avg.; 1% heading, 0% 1992, 1% avg. Soybeans 67% planted, 55% 1992, 81% avg.; 50% up to stand, 42% 1992, 57% avg. Peanuts 34% fair, 66% good; 98% planted, 86% 1992, 89% avg.; 92% up to stand, 70% 1992, 71% avg. Cotton 2% fair, 98% good; 99% planted, 80% 1992, 90% avg.; 93% up to stand, 69% 1992, 78% avg.; 26% squaring, 16% 1992, 7% avg. Alfalfa 53% 2nd cut, 39% 1992, 62% avg.; 12% 3rd cut, 0% 1992, 2% avg. Pastures 98% of normal. Prices for feeder cattle steady to \$2.00 per cwt. higher. Marketings average.

OREGON: Temperatures generally normal to slightly above normal, exception southeastern areas 5 to 7° below normal. Eastern area experienced light frosts. Spotty precipitation. No rainfall to 1.00 in.

Soil moisture 3% short, 88% adequate, 9% surplus. Winter wheat 3% poor, 15% fair, 51% good, 31% excellent, some disease problems throughout the State. Winter wheat headed 99%. Wheat, barley harvest have not yet begun. Light frost damage in grain crops, Klamath Basin. Hay harvest continued, rains early in week caused some problems. Potato planting complete. Willamette Valley vegetable plantings continued, late harvest expected. Cranberry bloom at peak in McFarlin, Crowley, Pilgrim beds, fruit sizing in Stevens beds, growers applying fertilizer; southern coast. Willamette Valley strawberry harvest nearing completion, raspberry harvest underway, blackberries showing color. Hood River Valley, The Dalles district Bing, Royal Ann cherry harvest underway, moderate crop good quality. Hood River orchardists hand pruning Bartlett pears, apple trees; irrigation of trees underway. Livestock excellent. Ranges, pastures excellent. Summer range turn out continued. Western pasture regrowth still ahead of livestock. Range, pasture 10% of normal.

PENNSYLVANIA: Above normal temperatures, near normal precipitation. Temperature 76°, 9° above normal. Extremes 40°; 94°. Precipitation 0.97 in., 0.03 in. above normal.

Days suitable for fieldwork 6. Soil moisture 48% short, 52% adequate. Corn height 15 in., 11 in. 1992, 14 in. avg. Tobacco 98% transplanted, 94% 1992, 88% avg. Soybeans 97% planted, 89% 1992, 85% avg.; 8% very poor, 5% poor, 24% fair, 44% good, 19% excellent. Barley 67% turning yellow, 57% 1992; 30% ripe, 21% 1992; 14% harvested, 3% 1992. Wheat 40% turning yellow, 26% 1992; 4% ripe, 2% 1992; 6% very poor, 2% poor, 19% fair, 52% good, 21% excellent. Oats 7% turning yellow, 5% 1992; 2% very poor, 7% poor, 24% fair, 55% good, 12% excellent. Alfalfa first cutting 88% complete, 88% 1992. Second cutting alfalfa 19% complete, 4% 1992. Quality of hay made 24% fair, 76% good. First cutting of timothy clover 74% complete, 70% 1992. Feed from pastures poor to fair. Peach 16% below avg., 70% avg., 14% above avg. Apple 10% below avg., 70% avg., 20% above avg. Activities: Making hay, filling silos; harvesting barley; spraying, side dressing corn; hauling manure; caring for livestock.

PUERTO RICO: Island rainfall 3.12 in., 1.22 in. above normal. Highest rainfall 5.98 in. at Guayama, 5.64 in. San Lorenzo 3S, 5.36 in. Maunabo. Highest 24 hour 3.32 in. San Lorenzo 3S. Island temperatures 81° Coast, 75 to 77° in the Interior with mean station temperature 86° Guayama to 64.3° at Cerro Maravilla. Extremes 56°; 96°.

SOUTH CAROLINA: Statewide rainfall 0.60 in., mostly in east. Temperatures 1 to 2° above normal.

Days suitable for fieldwork 6.4. Soil moisture 60% very short, 35% short, 5% adequate. Corn poor; 55% silked, 67% 1992, 65% avg.; 7% dough, 16% 1992, 19% avg. Sorghum fair; 76% planted, 57% 1992, 67% avg. Tobacco fair; 60% topped, 47% 1992, 48% avg. Cantaloupes fair; 35% harvested, 28% 1992, 30% avg. Watermelons poor to fair; 31% harvested, 19% 1992, 27% avg. Cucumbers fair; 64% harvested, 70% 1992, N/A avg. Tomatoes fair to good; 45%

harvested, 23% 1992, 43% avg. Oats fair; 85% harvested, 70% 1992, 84% avg. Rye fair; 75% harvested, 56% 1992, 77% avg. Wheat fair; 89% harvested, 67% 1992, 85% avg. Grain hay fair; 95% harvested, 89% 1992, 93% avg. Peaches fair; 21% harvested, 24% 1992, 29% avg. Pasture poor to fair.

SOUTH DAKOTA: Temperatures 2 to 8° below normal. Extremes 24°; 92°. Rainfall was generally less than 2.00 in. with the east receiving the most. Maximum 2.68 in.

Days suitable for fieldwork 2.2. Topsoil 3% short, 42% adequate, 55% surplus. Subsoil 1% very short, 7% short, 53% adequate, 39% surplus. Rye 3% poor, 11% fair, 54% good, 32% excellent. Oats 4% poor, 15% fair, 68% good, 13% excellent. Barley 2% poor, 7% fair, 71% good, 20% excellent. Flax 8% poor, 21% fair, 53% good, 18% excellent. Sunflowers 5% poor, 14% fair, 68% good, 13% excellent. Corn 93% planted, 100% 1992, 100% avg. Continued rains, wet conditions kept most farmers out of the fields. Crop progress remained behind normal last week. Tan spot, lodging was reported to be in some wheat fields. Weeds are becoming a big problem in most area. Livestock 3% fair, 71% good, 26% excellent. Pasture conditions 98% of normal. Haying continues to be difficult as hay cut was being rained on, what was left to be cut was getting to mature.

TENNESSEE: Temperatures near normal except over the Cumberland Plateau temperatures 4° below normal. Extremes 54°; 93°. East 0.54 in. below normal in rainfall while Middle recorded 0.81 in. above normal, west near normal.

Days suitable for fieldwork 5.1. Soil moisture 3% very short, 40% short, 52% adequate, 5% surplus. Corn 9% tasseling, 29% 1992, 19% avg.; 17% fair, 78% good, 5% excellent. Cotton 55% squaring, 44% 1992, 41% avg.; 18% fair, 82% good. Sorghum 2% poor, 11% fair, 83% good, 4% excellent. Soybeans 85% planted, 85% 1992, 80% avg.; 12% fair, 86% good, 2% excellent. Tobacco 3% poor, 23% fair, 74% good. Wheat 93% ripe, 98% 1992, 95% avg.; 50% harvested, 73% 1992, 70% avg. Alfalfa hay 35% 2nd cutting harvested, 52% 1992, 50% avg. Pastures 3% poor, 27% fair, 58% good, 12% excellent. Cattle 2% poor, 7% fair, 80% good, 11% excellent. Cotton continued to show rapid growth. Spraying for boll weevils is very active now that a good portion of the crop is squaring. Wheat harvest is progressing well, growers are pleased with above average yields. Some late planted corn, sorghum could use replenishing rains to encourage growth, development. Late transplanted tobacco is also in need of rain in eastern areas as growth has been dismal in recent weeks. Black shank is present in many burley tobacco fields. The second cutting of hay is resulting in good yields. Pasture growth has come to a standstill in areas that have been without rain during the past two weeks.

TEXAS: Tropical Storm Arlene came ashore along the Lower Texas coast this week, triggered numerous heavy rains in South Texas. Storm circulation continued well into the week, caused large amounts of tropical moisture to move across the State. Result was heavy rain in many agricultural areas. Cloud cover kept temperatures at normal levels or below. Data reflect this pattern. West Texas rain amounts were slightly below average with greatest departure of 0.24 in. South Plains. Further east, in the tropical air mass, area averages were 1.00 to 3.00 in. above normal totals. East Texas had greatest positive departure with 3.04 in. Temperature at or below normal. Only exception was in High Plains where area averages were 1° above normal.

Crops: Corn stands were in good shape in High Plains, where some fields continued to have ear worm problems. Recent moisture helped corn in most areas except where excessive rain flooded fields. Corn rated 81% normal, 92% 1992. Cotton planting winding down in Plains. Central Texas & Blacklands area, crop needs some hot dry weather. Some fields heavily infested with boll weevils. Cotton was stressed in Coastal Bend from standing water. In Rio Grande many fields were flooded, all may not be lost if they drain in next few days. Cotton 79% normal, 45% 1992. Rice fields were nearly all emerged, permanent flooding continued. Crop remained extremely late & second crop will be reduced. Rice 83% normal, 88% 1992. Grain sorghum planting active High & Low Plains. Blacklands producers were checking & treating for midge. Some fields in Central Texas & Rio Grande were heavily flooded from Arlene & yields may be reduced. Sorghum 77% normal, 82% 1992. Small grain harvest active High Plains & winding

down in Low Plains. Cross Timbers harvesting winding down & some producers were plowing harvested ground. Wheat 74% normal, 76% 1992. Peanut stands across State made good progress. Some fields Cross Timbers & Edwards Plateau had problems with heavy thrip infestations. Peanut 88% normal, 81% 1992. Soybean planting neared completion most areas State. Some fields in Blacklands had problems with leaf spot.

Commercial Vegetables: Rio Grande Valley, heavy rain from Tropical Storm Arlene curtailed harvest of most remaining vegetables. San Antonio-Winter Garden, some late onions still in field. Cucumbers, cantaloupes, watermelons were harvested where conditions allowed. East Texas, blossom end rot a problem in many tomato fields. Producers for most part needed dry, sunny conditions to promote growth of vegetables. Some watermelons were splitting from excessive moisture. High Plains, irrigation continued to be main activity. Harvesting of onions continued, vegetables made good progress. Trans-Pecos, chili peppers, cantaloupes progressed well, watermelons beginning to size. Peach producers spraying for disease, insect control in Edwards Plateau. Brown rot a problem for some producers in Cross Timbers, Blacklands & East Texas. Pecan producers sprayed for scab in Cross Timbers. Some trees in Edwards Plateau affected by phylloxera. Central Texas needed dry open weather to help crop progress.

Range and Livestock: Ranges, pasture grasses improved from recent rains across most of State. Haying operations curtailed due to excessive moisture in most places. Livestock conditions continued to improve except for Trans-Pecos area where supplemental feeding was heavy.

UTAH: Temperatures 3° below normal. Precipitation was light to moderate in north central, light throughout the rest of the State, except Dixie, Southeast which received no precipitation.

Days suitable for fieldwork 6.6. Soil moisture 22% short, 78% adequate. Spring wheat headed or better 70%, 96% 1992, 73% avg. Barley headed or better 73%, 95% 1992, 78% avg. Oats jointed or better 74%, 95% 1992; headed or better 42%, 62% 1992, 50% avg. Corn height 15 in., 20 in. 1992, 13 in. avg. Alfalfa hay 1st cutting 90% complete, 96% 1992, 87% avg. Other hay cut 29%, 40% 1992, 30% avg. Sweet cherries picked 26%, 96% 1992. Cattle moved to summer range 98%, 100% 1992. Sheep moved to summer range 95%, 92% 1992. Pasture, range good to excellent.

VIRGINIA: Temperatures above normal first of week, below normal the last half. Extremes 45°; 98°. Precipitation below normal except Bluefield, Winchester.

Days suitable for fieldwork 6.1. Topsoil 13% very short, 65% short, 22% adequate. Pasture 25% poor, 34% fair, 34% good, 7% excellent. Alfalfa 33% fair, 67% good. Other hay 8% poor, 39% fair, 46% good, 7% excellent. Barley 82% harvested, 75% 1992, 83% avg. Oats 40% harvested, 50% 1992, 44% avg. Wheat 36% harvested, 13% 1992, 45% avg. Apple 36% fair, 50% good, 14% excellent. Potato harvest just beginning with 1% harvested. Corn silked 2%, 3% 1992, 6% avg.; 17% poor, 46% fair, 32% good, 5% excellent. Peanut 20% fair, 80% good. Soybeans 74% planted, 67% 1992, 77% avg.; 10% poor, 64% fair, 26% good. All tobacco 26% poor, 43% fair, 31% good. Livestock 15% fair, 78% good, 7% excellent. Harvesting hay, cultivating, laying by, irrigating tobacco, spraying fruit, harvesting snaps, cucumbers, irrigating vegetables, spraying peanuts for thrips.

WASHINGTON: Temperatures 3° below normal to normal west; 8° below normal to 3° above normal east. Precipitation 0.06 to 1.28 in. west; 0.01 to 0.45 in. east.

Days suitable for fieldwork 5.8. Soil moisture 36% short, 64% adequate. Irrigation water supply 16% short, 84% adequate. Hay, other roughage 6% short, 92% adequate, 2% surplus. Range, pasture 4% poor, 26% fair, 69% good, 1% excellent. Winter wheat dryland 10% fair, 90% good; irrigated 100% good. Spring wheat dryland 5% poor, 15% fair, 80% good; irrigated 5% fair, 95% good. Barley dryland 5% poor, 35% fair, 60% good; irrigated 5% fair, 95% good. Winter wheat mostly milk to dough stages with harvest expected to begin as early as next week. Extensive damage was reported in first cutting of alfalfa due to the rains earlier in the month. Grass seed harvest began. Strawberry, raspberry harvest continued. Cherry harvest continued in the central part of the State with few reports of rain damage.

WEST VIRGINIA: Temperature 71°. Extremes 44°; 93°. Precipitation 0.53 in.

Days suitable for fieldwork 5.5. Soil moisture 5% very short, 63% short, 32% adequate. Wheat 15% fair, 85% good; 50% ripe. Barley 95% fair, 5% good; 90% ripe, 30% harvested. Oats 29% fair, 71% good. Corn 11% fair, 89% good; 95% planted, 90% emerged. Soybeans 9% fair, 91% good; 90% planted, 85% emerged. Hay 39% fair, 61% good; 74% 1st cut, 8% 2nd cut. Apples good. Peaches good. Tobacco fair; 85% set. Pastures 5% poor, 45% fair, 50% good; 93% of normal. Cattle 99% good, 1% excellent. Sheep good. Gardens 28% fair, 72% good; 85% planted, 75% emerged. Farm activities: General maintenance, moving livestock, planting gardens, soybeans, cutting hay, setting tobacco.

WISCONSIN: Warm, sunny days were offset by scattered rain. Temperature 68°; 2° above normal. Extremes 43°; 91°. Precipitation 0.60 to 1.50 in.

Days suitable for fieldwork 5.1. Soil moisture 15% adequate, 85% surplus. Pasture 89% of normal, 62% 1992, 68% avg. General condition of crops: 1% very poor, 11% poor, 46% fair, 39% good, 3% excellent. Oats headed 10%, 43% 1992, 57% avg.; 2% very poor, 9% poor, 34% fair, 49% good, 6% excellent. Corn 3% very poor, 15% poor, 50% fair, 30% good, 2% excellent; height 8 in.; 15 in. 1992; 21 in. avg. Soybeans 85% planted, 100% 1992, 100% avg.; 1% very poor, 8% poor, 47% fair, 40% good, 4% excellent. 1st cut alfalfa: 45% harvested, 79% 1992, 79% avg. Primary activities: Hay harvesting, soybean planting.

WYOMING: Temperatures generally 3 to 5° below normal. Precipitation about one to three tenths of an inch below normal across State.

Days suitable for fieldwork 5.9. Topsoil 3% short, 90% adequate, 7% surplus. Subsoil 7% short, 93% adequate. Spring wheat 4% turning color, 3% 1992; 22% headed, 42% 1992, 33% avg. Oats 2% turning color, 1% 1992; 24% headed, 38% 1992, 23% avg. Barley 4% turning color, 4% 1992; 45% headed, 71% 1992, 53% avg. Winter wheat 6% turning color, 17% 1992; 88% headed, 90% 1992, 78% avg. Sugarbeets 81% thinned, 88% 1992, 89% avg. Corn height 13 in. Dry beans 75% emerged, 87% 1992. Alfalfa 1st cutting completed 30%, 40% 1992, 41% avg. Other hay 1st cutting completed 10%, 8% 1992, 12% avg. All crops mostly good. Irrigation water supplies mostly adequate. Percent of cattle, calves moved to summer ranges 88%. Percent of sheep, lambs moved to summer ranges 80%. Stockwater supplies mostly adequate.

(Continued from front cover)

Temperatures as high as 96°F (at Glasgow) in Montana on Monday were replaced by readings as low as 38°F (in Great Falls) on Friday. Farther west, an inch of snow fell in the Cascades at 3,960-foot Stampede Pass, and a post-storm chill allowed midweek temperatures to fall below freezing at some valley locations, including Burns, OR (29°F), Bend, OR (31°F), and Ely, NV (26°F). Thunderstorms erupted in the northern Plains on Tuesday and reached the central Plains and the western Corn Belt by midweek. Thunderstorms subsided over the upper Midwest by Thursday after

producing local rainfall of 2 to 4 inches and additional flooding. Late in the week, rainfall became more scattered as it progressed eastward. Nevertheless, showers were welcomed in the Southeast, which has suffered from a 2-month dry spell. But farther west, rainfall caused additional flooding in the western Gulf Coast States, where 5 inches of rain deluged Shreveport, LA (pushing the weekly total to 13.39 inches). Meanwhile, a heatwave seized the Southwest, sending temperatures to 108°F in Fresno, CA and to 110°F in Bakersfield, CA. On Saturday, Coolidge, AZ was the Nation's hot spot at 121°F.

Typhoon Koryn Hits the Philippines and Southern China

Typhoon Koryn, the first major storm of the season in the western Pacific, rolled across the northern Philippines and is dissipating over southern China. While the storm caused some flooding and crop damage over drought-afflicted areas of the island of Luzon in the Philippines, southern China had already experienced flooding over an expanding area along the southern coast and is threatened with even more unwelcomed rain.

Koryn first made landfall near Palanan Bay on Luzon Island with sustained winds of about 115 knots. The storm trekked westward across the southern Cagayan Valley, an important rice and corn producer, before entering the South China Sea near the town of Vigan. Rainfall in excess of 200 mm was reported along the west coast of Luzon near San Fernando and Baguio. Given the terrain of the region, it is common for tropical systems passing in the vicinity to produce heavy upslope showers. Landslides (and mudslides) are also a hazard, especially in the area near Mt. Pinatubo. Luzon's corn and rice is planted from April to July, and due to this season's dryness, was likely poorly established and behind schedule. Minor sugarcane areas in the Cagayan Valley likely suffered some wind damage. However, residual

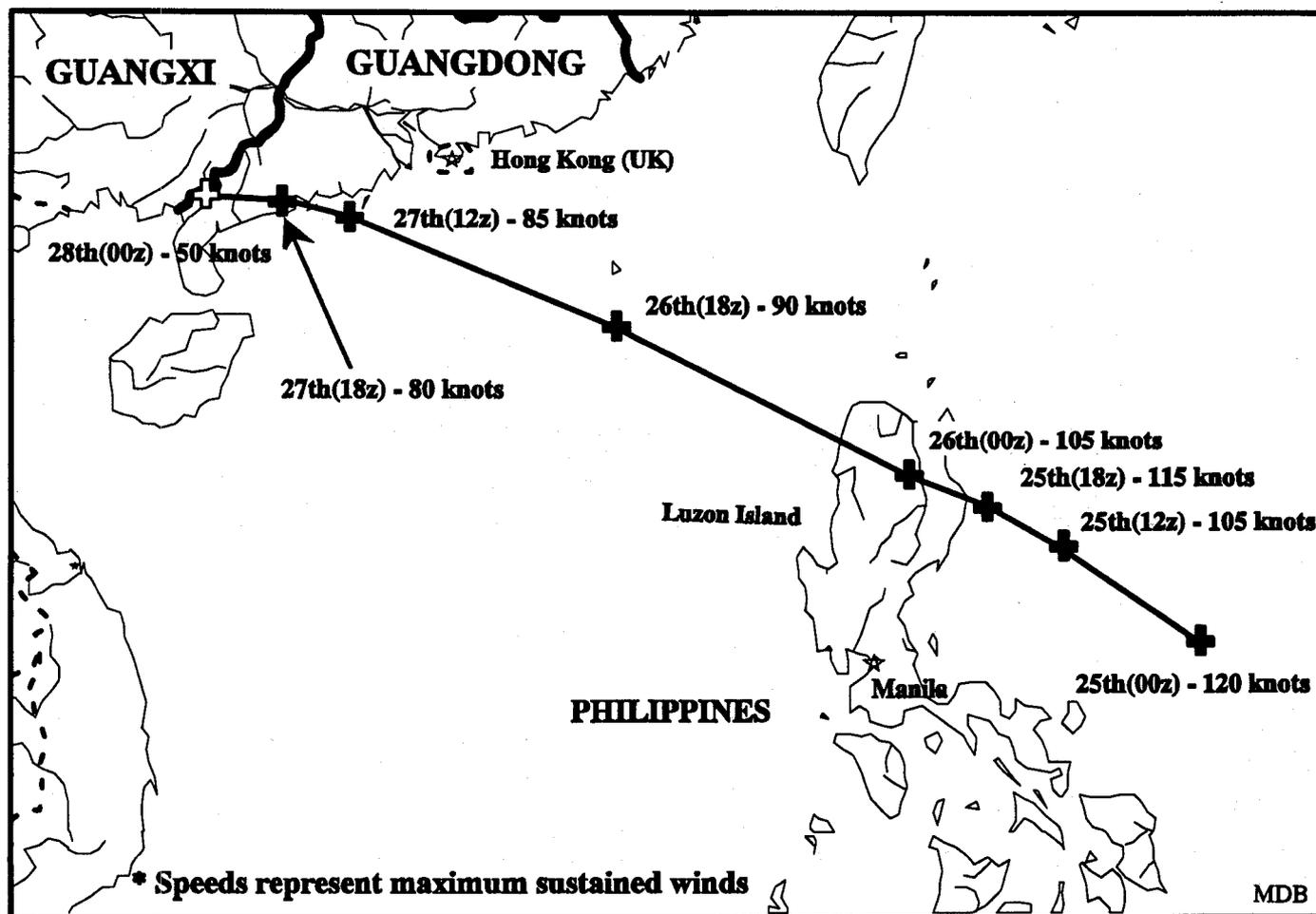
moisture from the storm, as well as the more moderate rainfall that fell further south, will aid late grain plantings.

Koryn hit southern China's Guangdong province with sustained winds of 80 knots, passing over Hailing Island about 25 km south of Yangjiang. Unlike the Philippines, southern China has been reeling from recent weeks of inundating rains, with some locations in Guangdong reporting more than 500 mm since June 1. Across southern China, early double-crop rice harvests are usually beginning at this time with late double-crop rice plantings underway from mid-June to mid-July. Sugarcane, grown in Guangxi and eastern Guangdong, may also be suffering from excessive moisture but appears to have missed the full brunt of Koryn's strongest winds.

As of 00z June 28, Koryn was moving slowly westward across southern Guangxi with sustained winds of 50 knots and bringing more heavy rain to the flood-stricken southern provinces. Next week's Eastern Asia crop summary will provide more detail with respect to rainfall totals from the storm and crop impact.

Mark Brusberg

Typhoon "KORYN" June 25th to 28th



International Weather and Crop Summary HIGHLIGHTS

June 20 - 26, 1993

FSU: Rain continued over the Baltic States, improving moisture conditions for crops. Dry weather in North Caucasus favored winter grain maturation. In the New Lands, light to moderate rain continued to benefit vegetative spring grains.

EUROPE: Light rain in Hungary provided little relief to stressed crops. Substantial rain helped crop development from southern France to Poland.

SOUTH ASIA: The monsoon intensified over central and eastern crop areas but weakened over southern India.

SOUTHEAST ASIA: Typhoon Koryn caused local flooding and crop damage in the northern Philippines. Hot, dry weather stressed Thailand's corn.

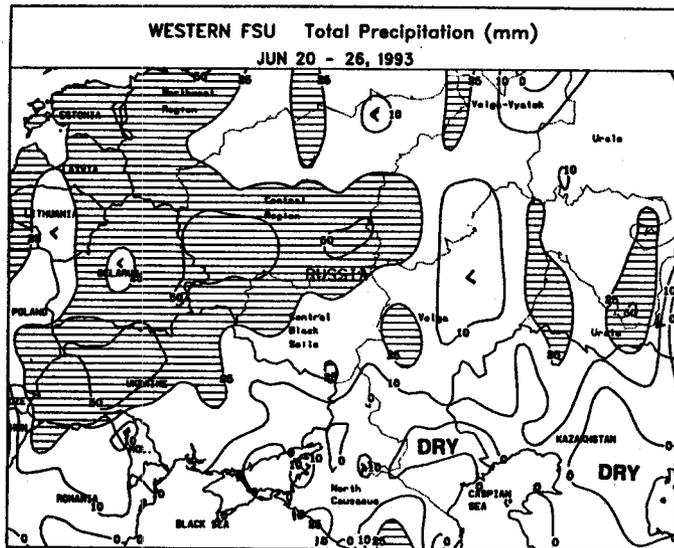
EASTERN ASIA: Tropical Storm Koryn threatened southern China with more flooding.

AUSTRALIA: Dry, cool weather in the east favored winter wheat planting but slowed germination. Conditions remained favorable in Western Australia.

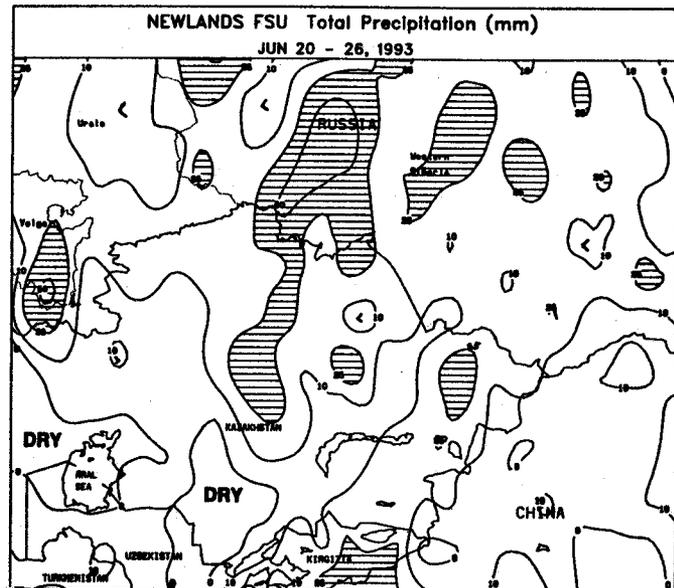
SOUTH AMERICA: Mostly dry weather favored corn and soybean harvesting in Argentina and coffee, citrus, and sugarcane harvesting in Brazil.

CANADA: Much-needed rain helped Prairie spring grain and oilseed establishment.

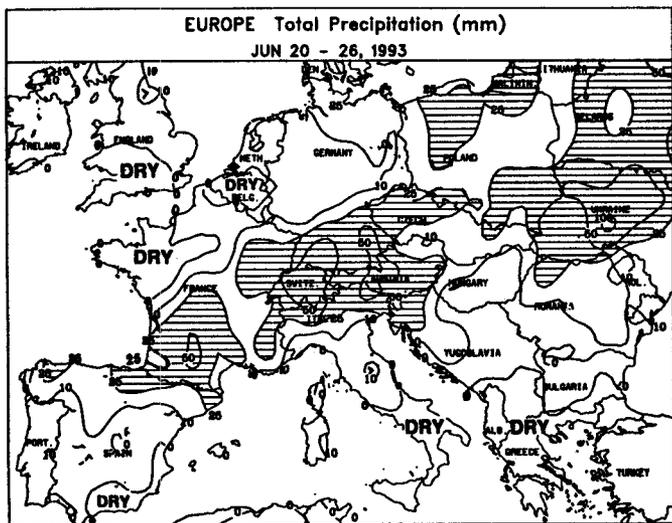
MEXICO: Torrential rain soaked the Southern Plateau corn belt and northeastern grain areas.



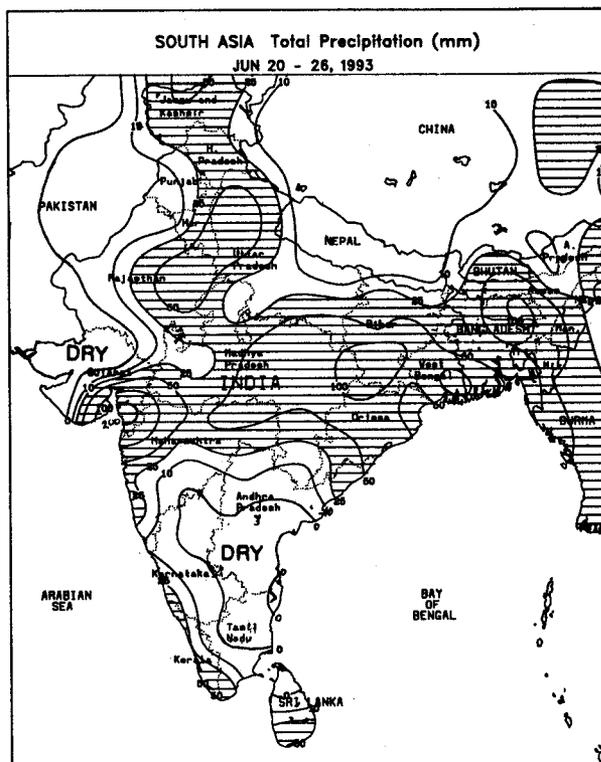
FSU-WESTERN: Winter grains were maturing in the extreme south and filling over the remainder of the region. Crop progress for spring barley ranged from filling in the south to jointing in the north. Corn, sunflowers, and sugar beets were in the vegetative growth stage. Widespread light to moderate rain (10-45 mm, with local amounts in excess of 50 mm) covered most areas, except in the southern Ukraine and North Caucasus, where little, if any, rain fell. The rain which covered the Baltic States (13-41 mm) continued to improve moisture conditions for crops. Welcomed drier weather over North Caucasus favored winter grain maturation. Weekly average temperatures were near normal in North Caucasus and southern Ukraine. Unseasonably cool weather (weekly average temperature 2-3 degrees Celsius (C) below normal) over the remainder of the region slowed crop development.



FSU-NEW LANDS: Widespread light to moderate rain continued to benefit spring grains in the jointing stage. Greatest amounts of rain (25-50 mm) were scattered throughout the region, with most areas receiving rainfall that ranged from 10 to 25 mm. Weekly average temperatures were 2-4 degrees C above normal over central spring grain areas, accelerating crop growth. Weekly average temperatures were near normal over the remainder of the region.

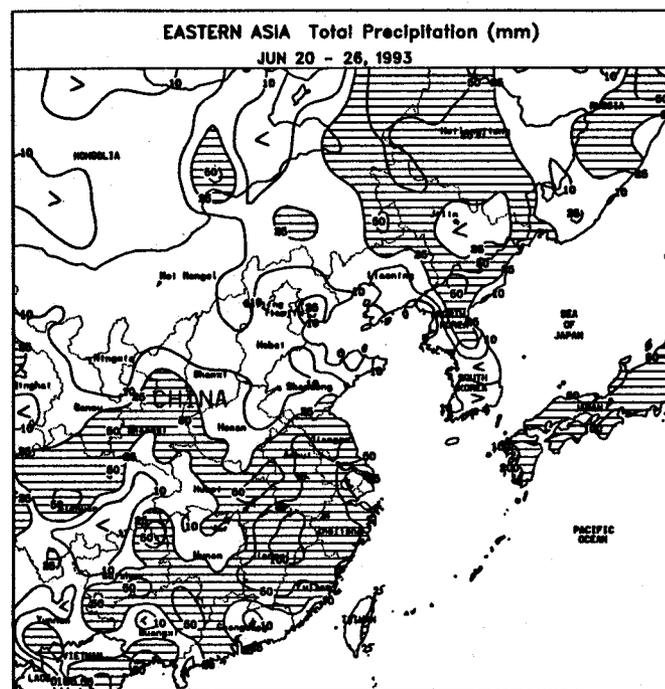


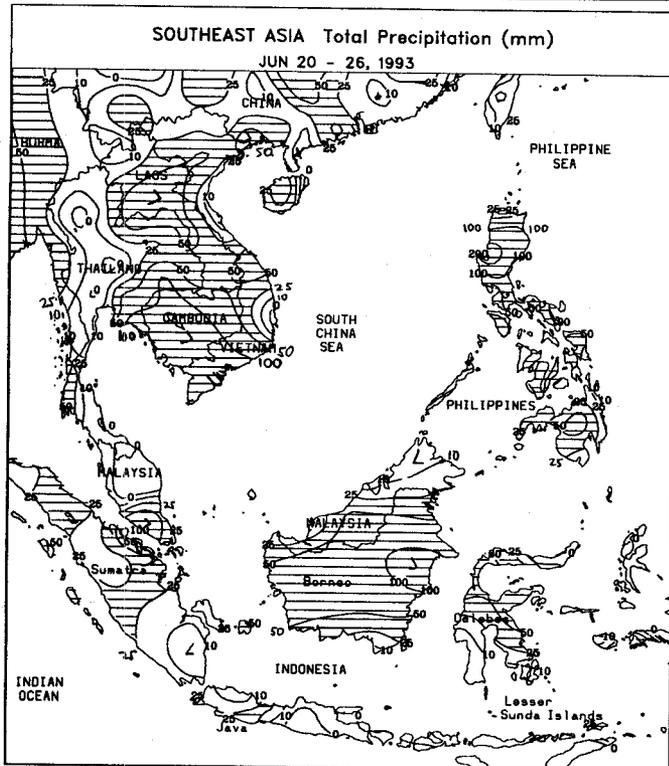
EUROPE: Substantial rain (10-35 mm, with scattered 35-75 mm amounts) maintained adequate moisture supplies for corn, sunflower, and sugar beet development from southern France across central Europe to the Czech Republic and Poland. The moisture also benefited filling winter grains in the northeast. Dry weather in southern England and northern France promoted summer crop development and wheat maturity. However, light showers (less than 10 mm), with daytime high temperatures reaching 30-32 degrees C, brought little drought relief to stressed crops in Hungary and Slovakia. Weekly temperatures averaged 2-4 degrees C below normal across Germany and Poland, and 2-4 degrees C above normal in Romania and Bulgaria. Typically dry, summer weather prevailed across the Mediterranean region. In Scandinavia, significant rain (10-40 mm) covered much of southern Sweden and southwestern Finland, promoting grain development, but mostly dry weather prevailed in Denmark where rainfall has trended below average this spring.



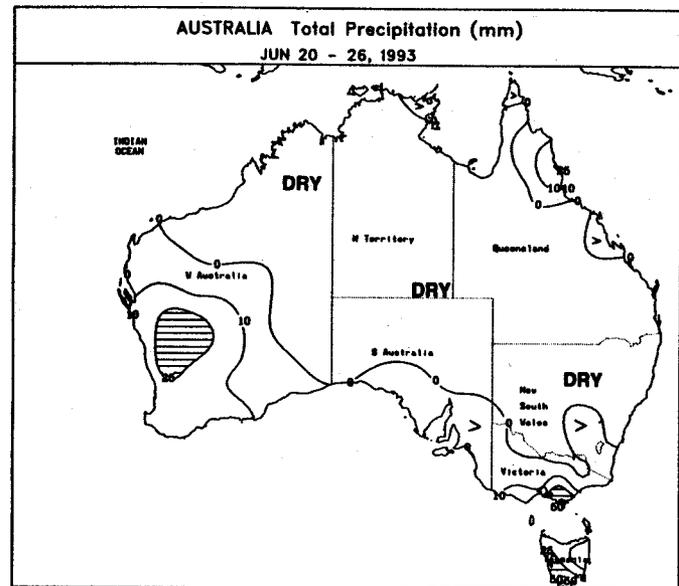
SOUTH ASIA: Rainfall increased from central to eastern India, improving planting prospects for main-season grains, oilseeds, and cotton. Amounts typically ranged from 25 to 100 mm, but rainfall exceeding 100 mm in eastern India and Bangladesh caused additional flooding. In contrast, dry, warm weather developed over southern India, reducing moisture for vegetative summer crops. The below-normal rainfall (7-56 mm) over rice areas along the southwest coast brought some relief from the recent flooding. In the north, scattered showers associated with westerly storm activity reduced irrigation demand for reproductive cotton.

EASTERN ASIA: Typhoon Koryn struck southern China on the 27th with sustained winds of 85 knots (94 mph). The storm made landfall in central Guangdong and is presently (as of 00Z, 28 June) moving westward at tropical storm strength (sustained winds of 50 knots) through Guangxi, pumping heavy showers into already flooded coastal rice areas. Prior to the storm, weekly rainfall ranged from 10 to 86 mm from Guangxi to Fujian. However, the area of heaviest rain (50-100 mm or more) shifted to the lower Yangtze Valley, likely causing some localized flooding. Moderate showers (10-68 mm) brought some relief to rainfed grains in central China suffering from recent heat and moisture stress. Further north, warmer and drier weather in the North China Plain favored winter wheat harvests. Widespread rain (10-50 mm or more) benefited vegetative spring crops across Manchuria.

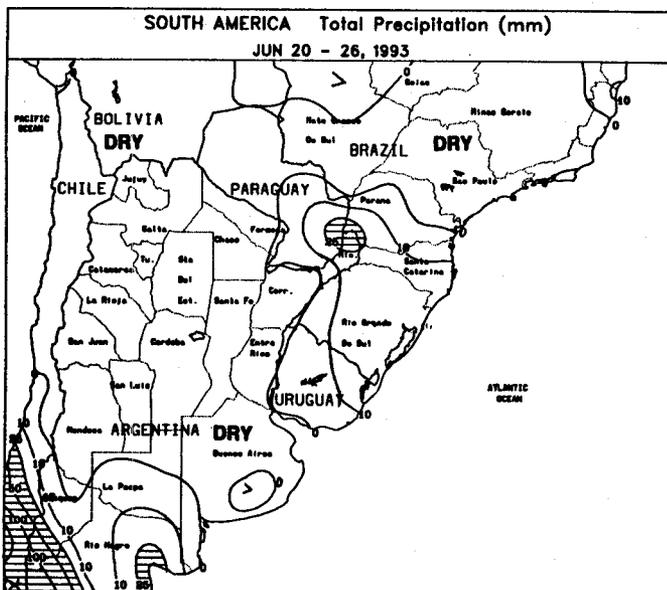




SOUTHEAST ASIA: Typhoon Koryn passed through northern Luzon, Philippines, with sustained winds of about 105 knots (115 mph), likely bringing wind damage and flooding to rice, corn, and minor sugarcane areas. Rainfall exceeded 200 mm along Luzon's west coast, causing flooding and possibly landslides. Moderate showers (20-91 mm) elsewhere benefited main-season rice and corn. In Thailand, moderate to heavy rain (23-130 mm) returned to rainfed rice areas in the northeast region. Hot, dry weather continued, however, over primary corn areas, stressing crops in or nearing reproduction. Heavy rain (100-160 mm) fell over the Mekong Delta, increasing moisture reserves for rice. Further south, the drying trend continued over peninsular Thailand and Malaysia, with only one isolated heavy shower (126 mm) reported in Malaysia's oil palm areas. Other primary rice and oilseed areas received 10 mm or less.



AUSTRALIA: Dry, cool weather dominated Australia's eastern winter wheat areas, favoring planting activities. However, the unseasonable coolness (minimum temperatures from -1 to 3 degrees C) in wheat areas of Queensland and New South Wales delayed germination. Moisture is needed in southern Queensland for proper establishment. In Western Australia, moderate rain (10-24 mm) maintained favorable conditions for wheat germination and establishment.



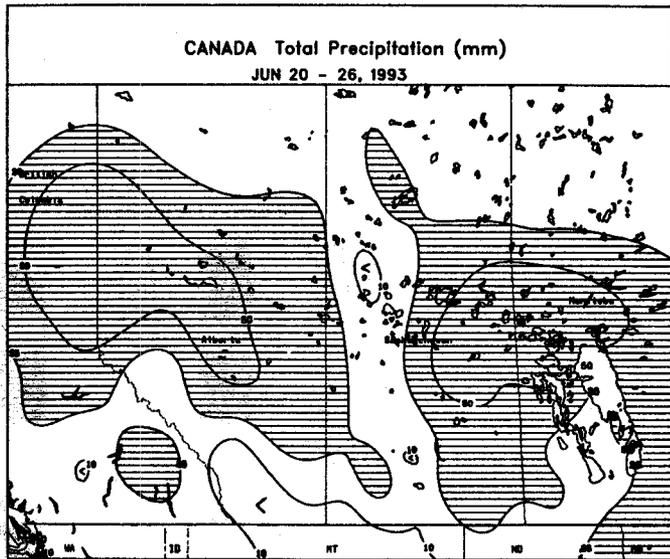
SOUTH AMERICA: In Argentina, drier weather prevailed across the primary summer crop and winter wheat growing areas. The improved field conditions promoted soybean and late-corn harvesting, and winter wheat planting in both Buenos Aires and Santa Fe provinces. Weekly temperatures generally averaged 2 degrees C above normal, favoring fieldwork. In south-central Brazil, showers were confined mostly to Rio Grande do Sul, Santa Catarina, and southwestern Parana, favoring early winter wheat growth. Dry weather in Sao Paulo and Minas Gerais promoted coffee, citrus, and sugarcane harvesting.

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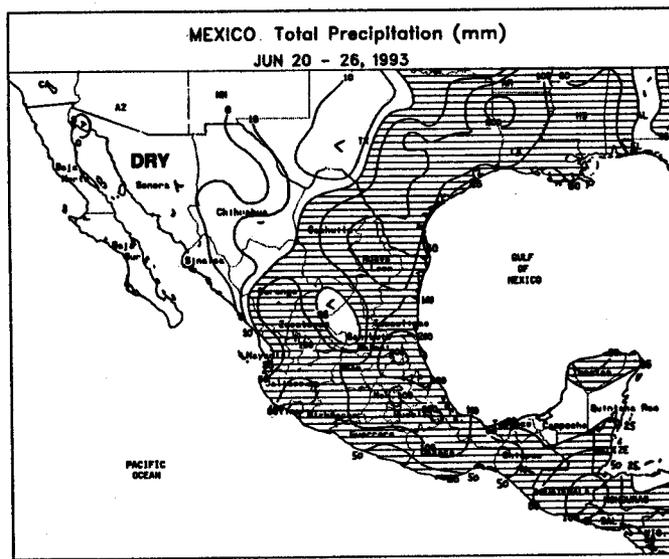
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CANADA: Showery weather continued across the Prairies, bringing much-needed rain (20-43 mm) to spring grain and oilseed areas of northern Alberta and portions of southern Saskatchewan. Heavy rain (50-62 mm) fell in the Peace River Valley. These had been the driest Prairie crop areas, receiving only light rain the past few weeks, while the rest of the Prairies enjoyed near- to above-normal rainfall. Light rain (10 mm or less) covered southern Alberta and much of southwestern Saskatchewan, but rainfall generally totaled 15-46 mm elsewhere. The moisture was beneficial for spring crop establishment. In Ontario, wet (rainfall totaling 20-91 mm), seasonably warm weather increased moisture for vegetative to heading winter wheat and establishing corn.



MEXICO: Locally heavy rain soaked much of southern and eastern Mexico, leaving only the northwestern states of Sinaloa, Sonora, and Chihuahua mostly dry. The Southern Plateau corn belt was drenched with weekly rainfall averaging 75-200 mm, with locally heavier amounts in the east-coastal states. While moisture was needed for corn and other summer crop development, especially in western portions of the Southern Plateau, the torrential downpours flooded newly emerging crops. Moisture from the remnants of Tropical Storm Arlene continued to soak northeastern Mexico with 50-160 mm of weekly rainfall, providing ample moisture for grains and reservoirs but causing some flooding.

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