

WEEKLY WEATHER AND CROP BULLETIN

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

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

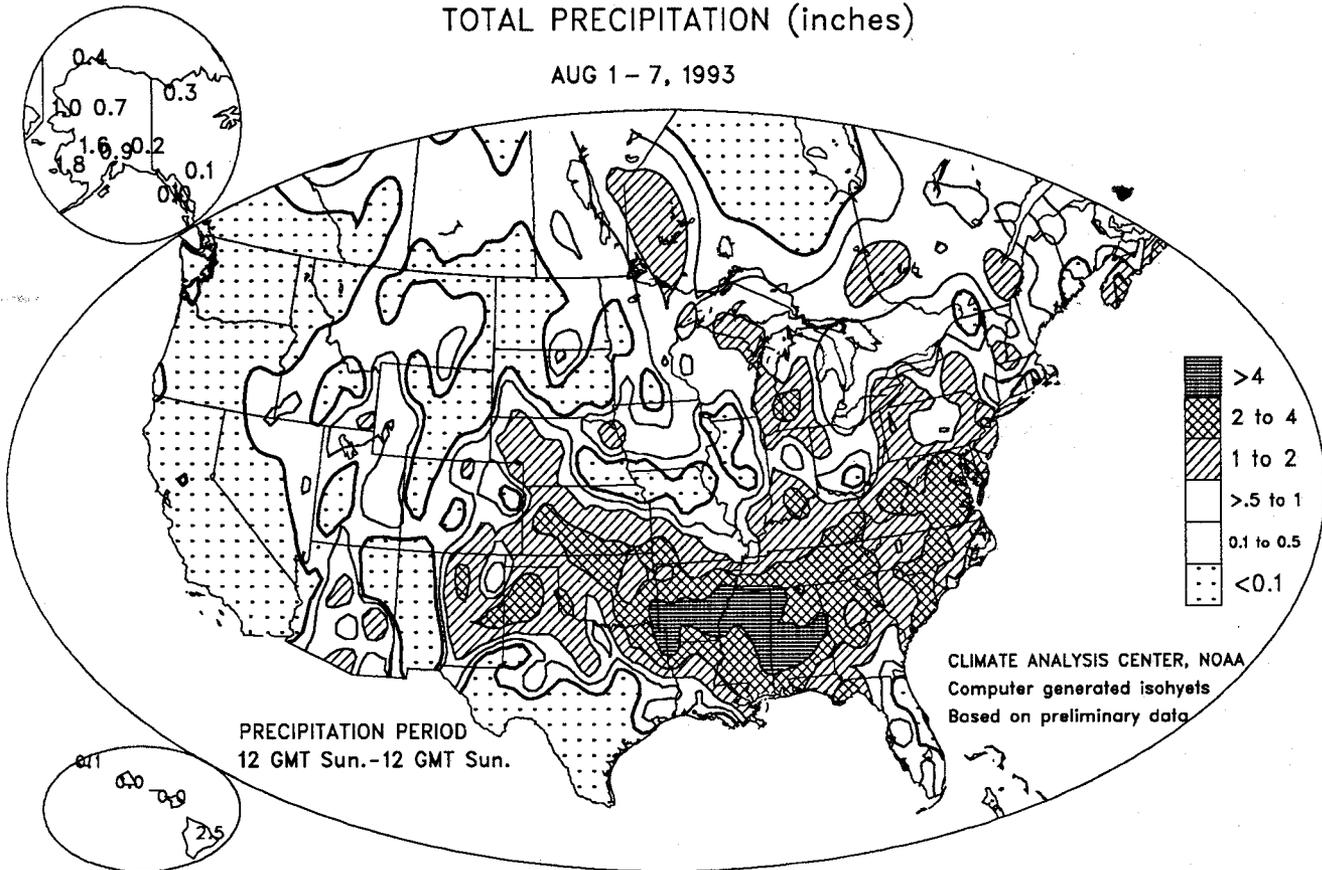
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August 10, 1993

TOTAL PRECIPITATION (inches)

AUG 1 - 7, 1993



HIGHLIGHTS

August 1 - 7, 1993

Heavy rainfall and cooler weather assuaged drought in the **Gulf Coast and Middle Atlantic States**, while beneficial dryness covered the **western Corn Belt and northern Plains**. Elsewhere, acute dryness persisted in **south-central Texas**, while a short spell of intense heat hit the **West** early in the week. **Tucson, AZ** established an all-time August record with a 112°F reading on Sunday. Also on August 1, temperatures soared to 113°F in **Redding, CA** and to 100°F in **Reno, NV**. Farther east, a month-long dry spell culminated with 104°F heat in **Dallas-Ft. Worth, TX**. But by midweek, the approach and passage of a cold front brought widespread showers and much cooler air to the **Gulf Coast States** except southern Texas. More than 4 inches of rain deluged areas from **southern Arkansas to central Alabama**. **Waco, TX** received its first measurable rainfall in 42 days on Friday. Farther

(Continued to P. 10)

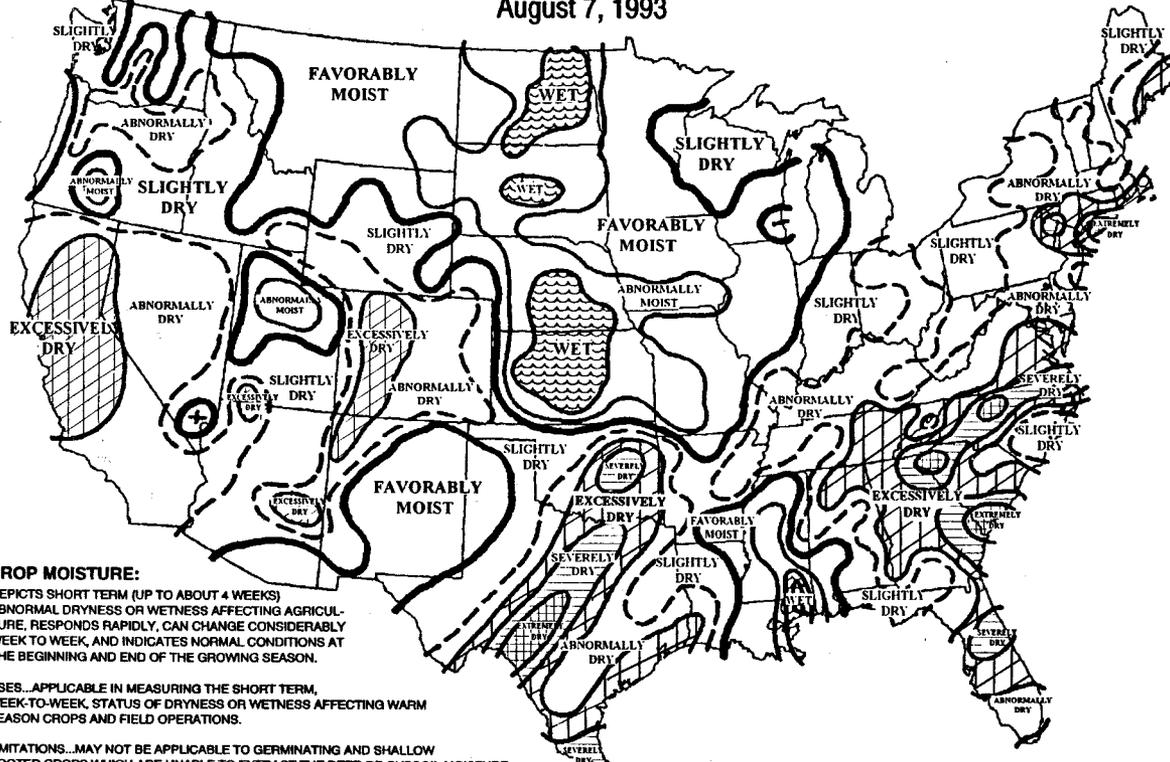
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CROP MOISTURE (SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)

August 7, 1993



CROP MOISTURE:

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

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

LIMITATIONS...MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A 5-FOOT PROFILE, OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 66°F. IT IS NOT GENERALLY INDICATIVE OF THE LONG TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX.

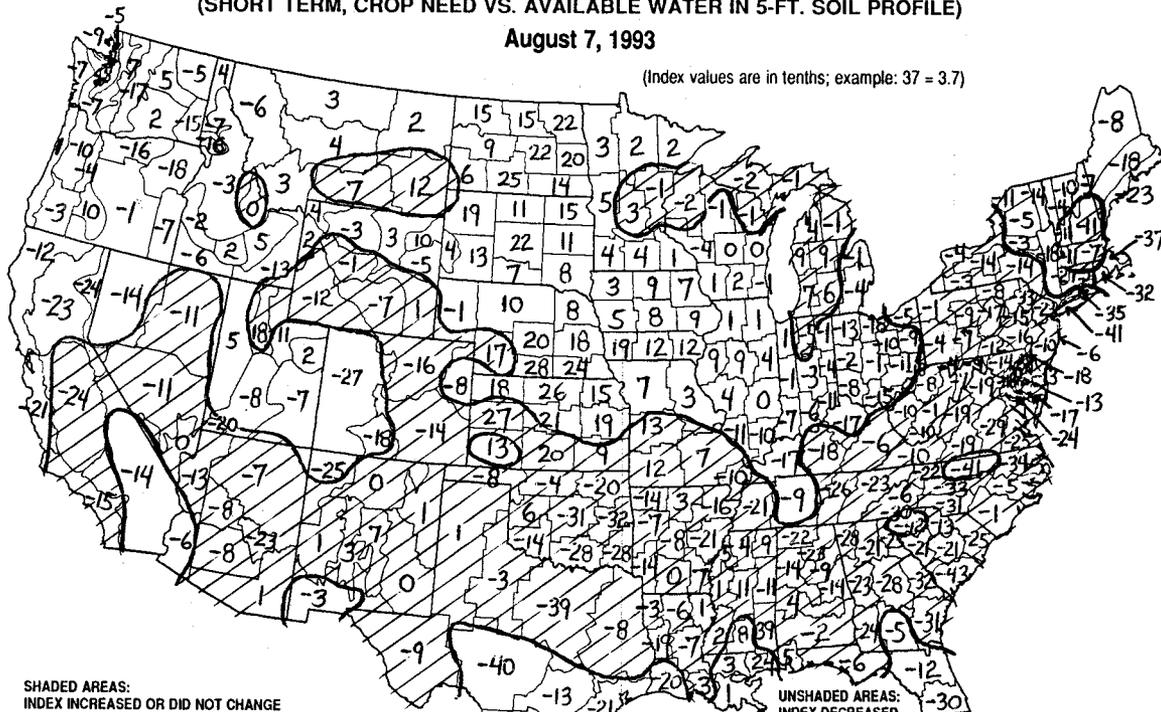
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

CROP MOISTURE INDEX

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

August 7, 1993

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



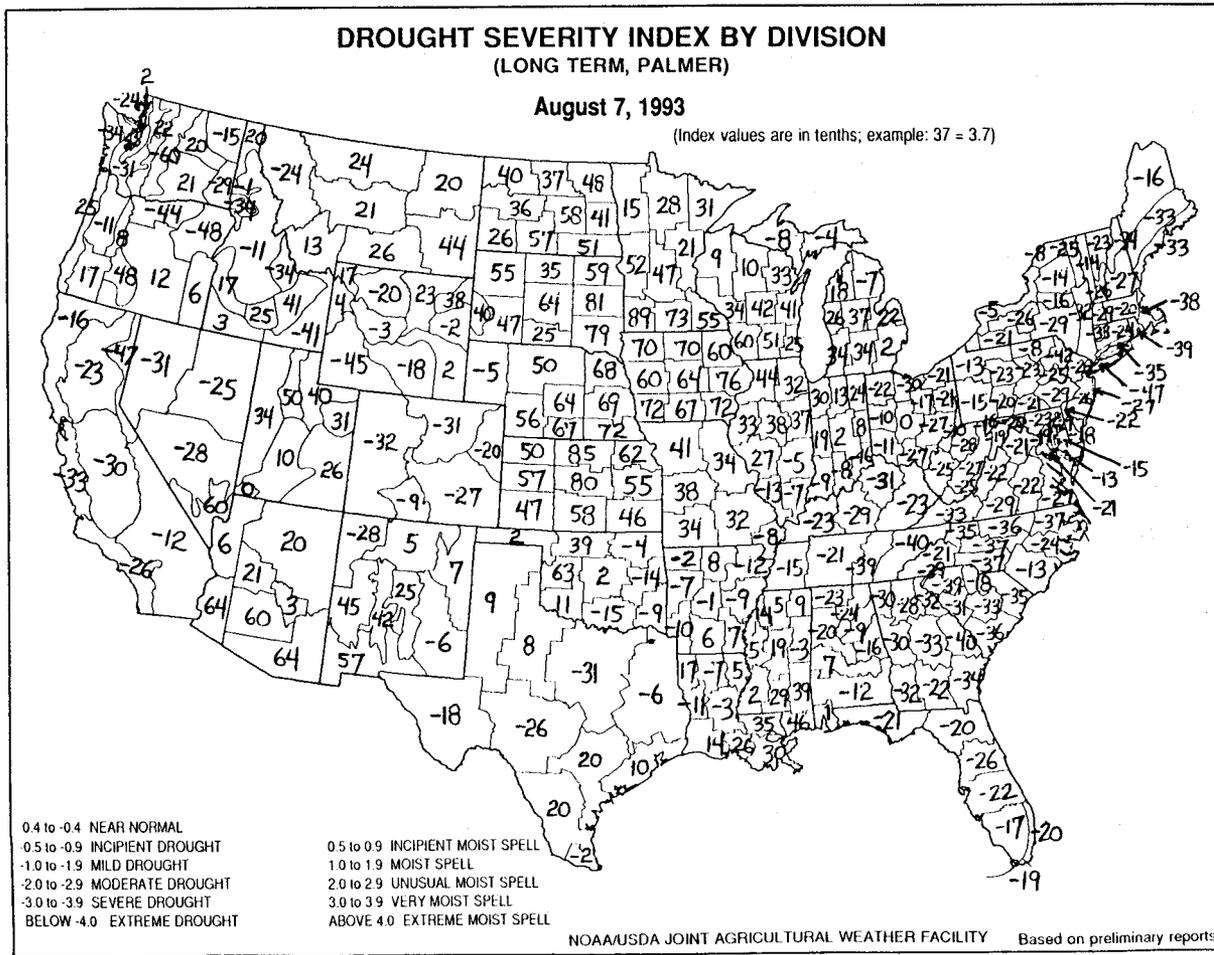
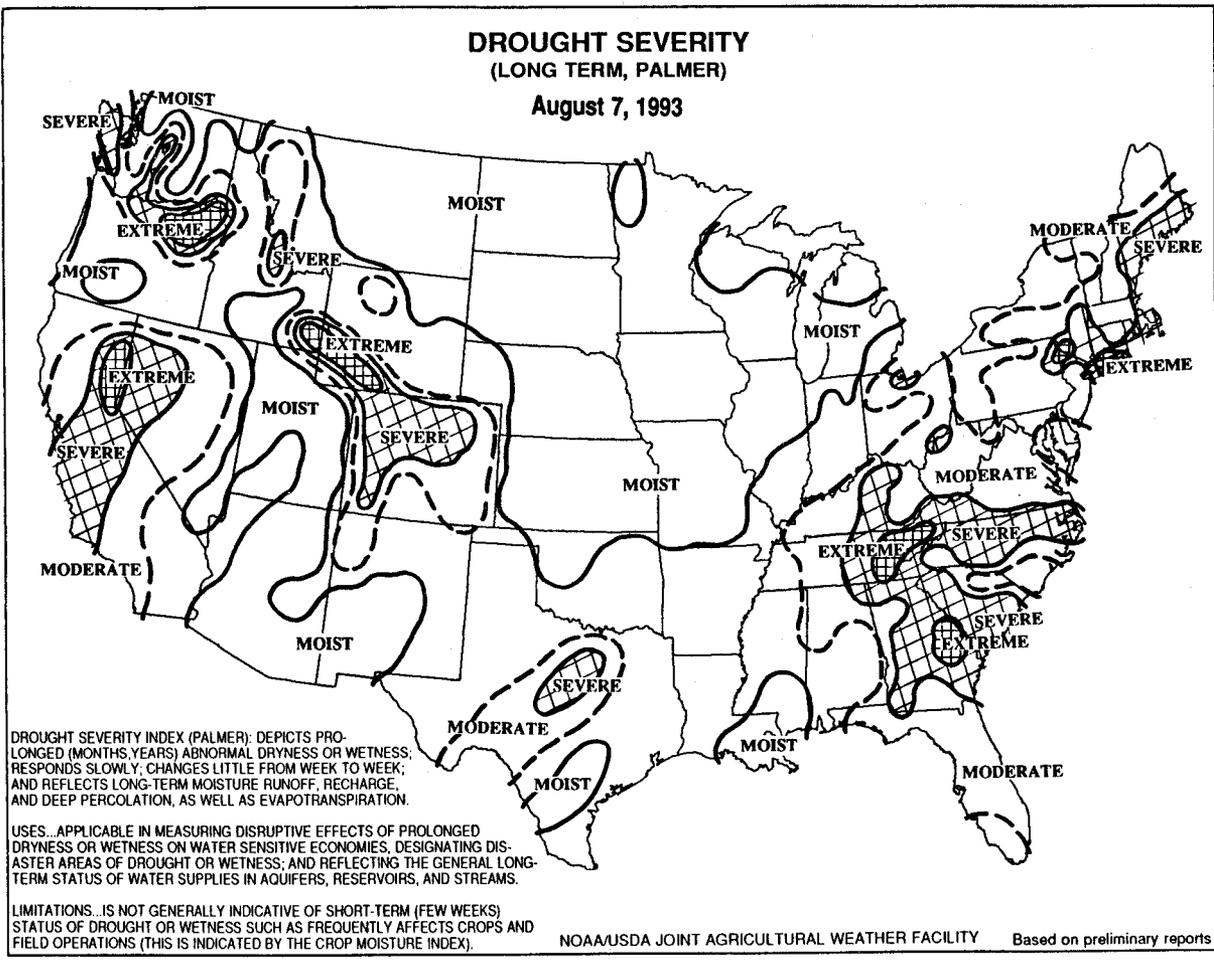
SHADED AREAS: INDEX INCREASED OR DID NOT CHANGE

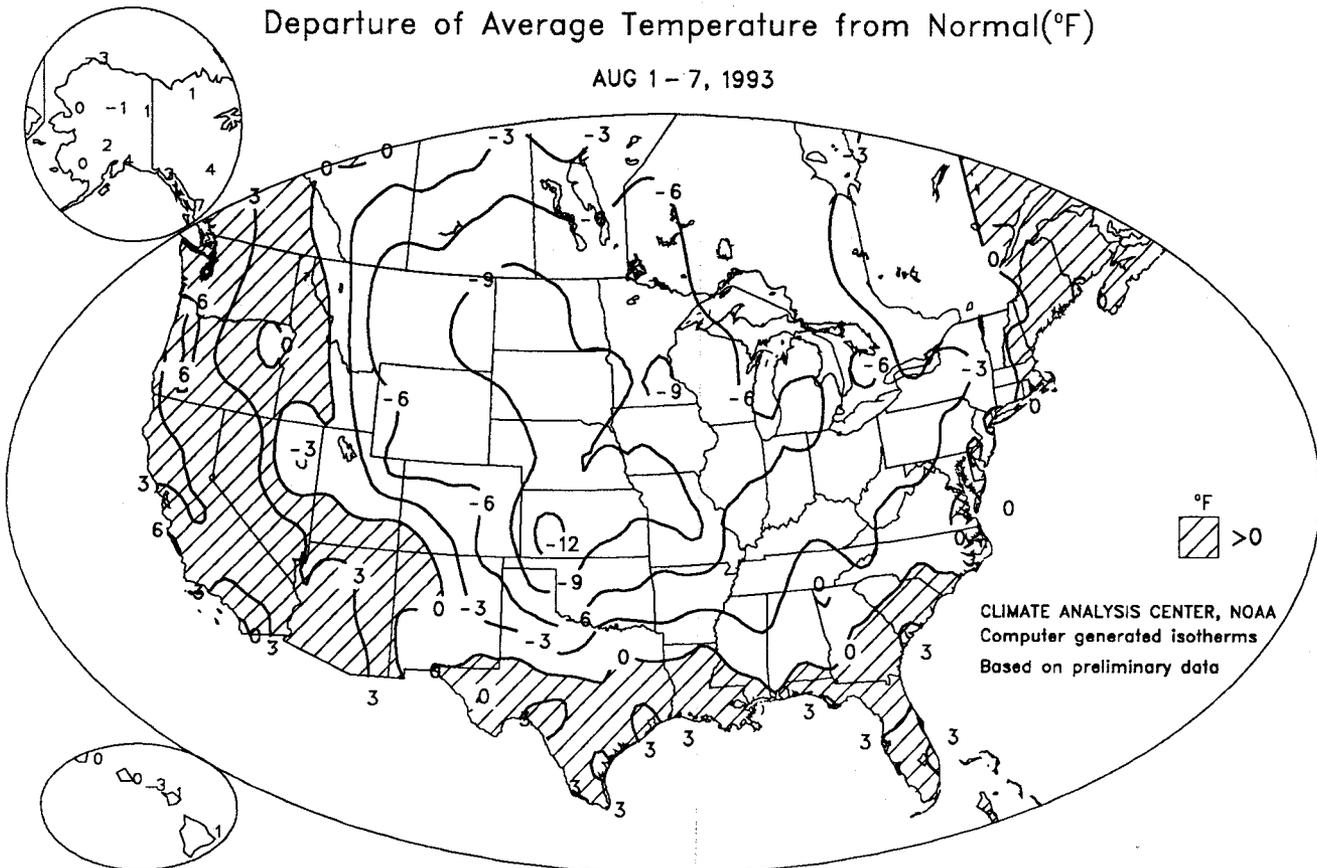
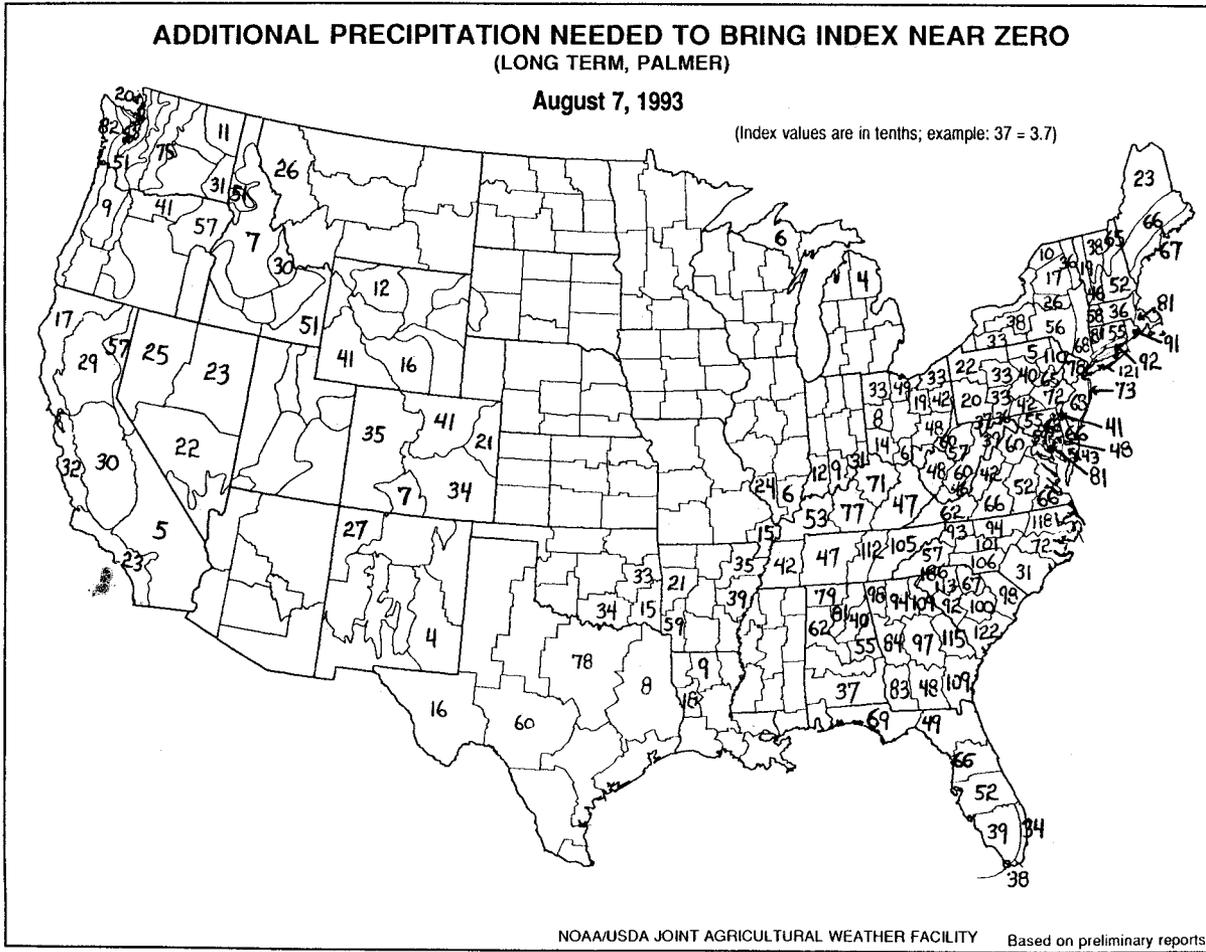
- ABOVE 3 EXCESSIVELY WET; SOME FIELDS FLOODED
- 2 TO 3 TOO WET; SOME STANDING WATER
- 1 TO 2 PROSPECTS ABOVE NORMAL; SOME FIELDS TOO WET
- 0 TO 1 MOISTURE ADEQUATE FOR PRESENT NEEDS
- 0 TO -1 PROSPECTS IMPROVED BUT RAIN STILL NEEDED
- 1 TO -2 SOME IMPROVEMENT BUT STILL TOO DRY
- 2 TO -3 DROUGHT EASED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

UNSHADED AREAS: INDEX DECREASED

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

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports





CUMULATIVE GROWING DEGREE DAYS (CORN*) April 1 - August 7, 1993

STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL
AL ANNISTON	2786	0	SALINA	2315	- 124	OK ALTUS	2879	- 35
BIRMINGHAM	2819	- 23	TOPEKA/BILLARD	2270	- 129	GAGE	2515	- 55
MOBILE	3061	- 170	WICHITA	2408	- 152	HOBART	2727	- 61
MONTGOMERY	2961	+ 52	KY LEXINGTON	2371	+ 59	MCALESTER	2954	+ 94
MUSCLE SHOALS	2823	+ 70	BOWLING GREEN	2545	+ 41	PONCA CITY	2719	+ 13
OZARK	3020	+ 1	PADUCAH	2683	+ 80	TULSA	2691	- 139
TUSCALOOSA	2931	- 10	LA LAFAYETTE	3188	- 67	OR BAKER	1239	- 147
AZ DOUGLAS	2757	+ 174	LAKE CHARLES	3251	- 60	EUGENE	1385	- 24
FLAGSTAFF	1611	+ 197	MONROE	3061	- 10	NORTH BEND	1039	+ 238
PHOENIX	3804	+ 493	NEW ORLEANS	3136	- 126	PENDELTON	1625	- 132
TUCSON	3253	+ 221	SHREVEPORT	3024	+ 32	REDMOND	1222	- 159
YUMA	3817	+ 405	ME AUGUSTA	1567	+ 132	PORTLAND	1536	+ 97
PRESCOTT	2200	+ 293	CARIBOU	1227	+ 116	SALEM	1519	+ 133
AR EL DORADO	2889	- 43	HOULTON	1261	+ 38	SEXTON SUMMIT	803	- 253
FAYETTEVILLE	2533	+ 44	PORTLAND	1496	+ 167	PA ALLENTOWN	2174	+ 226
FORT SMITH	2818	+ 8	MD SALISBURY	2414	+ 167	PHILADELPHIA	2514	+ 460
JONESBORO	2779	- 58	MA WORCESTER	1607	+ 63	WILLIAMSPORT	2100	+ 221
LITTLE ROCK	2875	+ 40	MI JACKSON	1729	- 65	SC BEAUFORT	3197	+ 146
TEXARKANA	2965	- 74	LANSING	1716	- 97	CHARLESTON	3109	+ 126
CA BAKERSFIELD	2769	- 7	MUSKEGON	1641	+ 44	COLUMBIA	2967	+ 66
BLUE CANYON	1145	- 157	PELLSTON	1274	- 26	FLORENCE	3065	+ 166
DAGGETT	3056	+ 100	SAULT STE. MARIE	971	- 99	SD SUMTER/SHAW AFB	2943	+ 52
EUREKA	1006	+ 464	TRaverse CITY	1522	+ 33	ABERDEEN	1587	- 66
FRESNO	2671	+ 209	MN DULUTH	943	- 195	HURON	1609	- 221
MARYSVILLE	2508	+ 147	INT'L FALLS	1136	- 144	PIERRE	1613	- 214
MERCED	2512	+ 170	MINNEAPOLIS	1586	---	RAPID CITY	1368	- 306
MT SHASTA	1224	- 211	ROCHESTER	1449	---	SIOUX FALLS	1647	- 233
PASO ROBLES	2124	+ 149	ALEXANDRIA	1353	- 218	WATERTOWN	1337	- 286
RED BLUFF	2408	- 91	MS BILOXI	3255	- 53	TN BRISTOL	2389	+ 96
RIVERSIDE	2560	+ 283	COLUMBUS	2875	+ 19	CHATTANOOGA	2804	+ 162
SANTA ANA	2662	+ 521	JACKSON	2999	+ 76	CROSSVILLE	2370	+ 288
SAN DIEGO	2256	+ 239	MERIDIAN	2975	+ 26	MEMPHIS	2961	+ 22
SACRAMENTO	2240	+ 83	GREENWOOD	2989	- 22	NASHVILLE	2698	+ 28
THERMAL	3328	+ 8	MO COLUMBIA	2302	+ 8	TX ABILENE	3062	+ 19
ALAMOSA	1391	- 31	JOPLIN	2523	- 74	AMARILLO	2427	- 9
DENVER	1815	+ 3	SPRINGFIELD	2400	- 17	AUSTIN	3308	+ 22
EAGLE	1358	- 145	VICHY	2403	- 13	BROWNSVILLE	3673	+ 21
GRAND JUNCTION	2115	- 121	MT HELENA	1169	- 174	COLLEGE STATION	3208	- 31
LA JUNTA	2211	- 46	KALISPELL	1121	- 228	DALHART	2315	+ 21
DE DOVER	2345	+ 24	MILES CITY	1463	- 288	DALLAS/FT WORTH	3182	+ 108
WILMINGTON	2388	+ 227	NE GRAND ISLAND	1906	- 193	GALVESTON	3569	+ 78
FL DAYTONA BEACH	3175	- 86	NORFOLK	1891	- 147	HOUSTON/INTCNTL	3307	+ 99
FORT MYERS	3529	+ 49	NORTH PLATTE	1777	- 122	KINGSVILLE/NAS	3629	+ 110
GAINESVILLE	3054	- 164	VALENTINE	1643	- 315	LAREDO	3698	+ 87
JACKSONVILLE	3107	- 100	SCOTTSSBLUFF	1689	- 136	LUBBOCK	2837	+ 166
FORT LAUDERDALE	3843	+ 280	SIDNEY	1634	- 39	MCALLEN	3725	+ 177
MIAMI	3804	+ 123	NV ELKO	1351	- 196	MIDLAND	2980	+ 48
MILTON	3111	+ 18	ELY	1416	- 28	PALACIOS	3433	- 40
PENSACOLA	3187	- 96	LAS VEGAS	3332	+ 282	SAN ANTONIO	3356	+ 18
ST PETERSBURG	3512	- 94	RENO	1712	+ 49	VICTORIA	3385	+ 31
TALLAHASSEE	3047	- 82	WINNEMUCCA	1668	- 12	WACO	3187	- 60
TAMPA	3376	- 64	NH CONCORD	1763	+ 170	WICHITA FALLS	2899	- 72
VERO BEACH	3365	- 4	NJ NEWARK	2575	+ 429	WINK	3057	+ 72
W. PALM BEACH	3588	+ 67	NM ALBUQUERQUE	2552	+ 335	UT CEDAR CITY	1813	- 9
GA ATHENS	2845	+ 112	CARLSBAD	3024	+ 154	VT BARRE-MONTEPELIER	1425	+ 99
AUGUSTA	3006	+ 140	CLOVIS	2511	+ 144	BURLINGTON	1697	+ 162
BRUNSWICK	3129	- 84	GALLUP	1907	+ 80	VA CHARLOTTESVILLE	2503	+ 118
COLUMBUS/METRO	3053	+ 70	TRUTH OR CONSEQ.	2739	+ 163	HAMPTON/LANGLEY	2754	+ 242
MACON	2996	+ 5	NY ALBANY	1865	+ 134	LYNCHBURG	2572	+ 273
SAVANNAH	3170	+ 105	ELMIRA	1791	+ 149	NORFOLK	2746	+ 227
ID BOISE	1651	- 133	GLENS FALLS	1693	+ 108	RICHMOND	2622	+ 143
BURLEY	1503	- 58	ROCHESTER	1720	+ 27	WA BELLINGHAM	1177	+ 166
IDAHO FALLS	1205	- 228	SYRACUSE	1750	+ 73	HOQUIAM	1061	+ 201
POCATELLO	1317	- 220	UTICA	1590	+ 20	SEATTLE-TACOMA	1272	+ 93
IL BELLEVILLE	2462	+ 36	WATERTOWN	1543	- 30	SPOKANE	1295	- 141
CHICAGO/MIDWAY	1980	- 39	ASHEVILLE	2276	+ 124	TACOMA	1320	+ 56
DECATUR	2230	- 69	FAYETTEVILLE	2855	+ 142	WALLA WALLA	1752	- 85
PEORIA	2188	+ 86	GREENSBORO	2708	+ 213	WENATCHEE	1798	- 97
ROCKFORD	1931	+ 36	HICKORY	2594	+ 118	YAKIMA	1648	- 61
SPRINGFIELD	2280	+ 10	RALEIGH	2741	+ 176	WV HUNTINGTON	2414	+ 259
QUINCY	2179	- 52	WILMINGTON	2975	+ 123	MARTINSBURG	2176	+ 48
IN INDIANAPOLIS	2215	+ 41	NEW BERN	2870	+ 100	MORGANTOWN	2132	+ 72
SOUTH BEND	1925	+ 46	ND BISMARCK	1328	- 229	WI EAU CLAIRE	1499	- 171
TERRE HAUTE	2296	+ 82	DICKINSON	1124	- 331	GREEN BAY	1519	- 23
DES MOINES	1947	- 219	JAMESTOWN	1272	- 257	LACROSSE	1697	- 161
MASON CITY	1632	- 282	MINOT	1158	- 285	MADISON	1789	- 17
OTTUMWA	2073	- 93	GRAND FORKS	1372	- 115	WAUSAU	1362	- 175
KS CHANUTE	2385	- 131	OH AKRON-CANTON	1903	+ 72	CASPER	1425	- 102
DODGE CITY	2200	- 173	COLUMBUS	2110	+ 85	LANDER	1334	- 164
GARDEN CITY	2118	- 218	DAYTON	2112	- 1	SHERIDAN	1265	- 199
GOODLAND	1822	- 152	FINDLAY	1842	- 72	WORLAND	1547	- 90
MEDICINE LODGE	2524	- 65	YOUNGSTOWN	1819	+ 111			
RUSSELL	2193	- 148	ZANESVILLE	2048	+ 75			

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 August 7, 1993

STATES AND STATIONS	TEMPERATURE °F							PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	
																		.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	87	69	94	64	78	-2	1.7	.8	1.2	4.3	44	24.0	67	92	60	4	0	3	2
MOBILE	91	73	96	72	82	0	1.2	-.4	.8	9.8	73	42.8	106	92	68	4	0	6	1
MONTGOMERY	91	70	97	62	80	0	4.5	3.5	2.1	10.4	89	32.6	89	94	66	3	0	7	2
AK ANCHORAGE	68	57	73	55	62	4	1.1	-.4	.1	1.9	26	4.6	65	82	62	0	0	3	0
BARROW	40	32	46	29	36	-3	1.4	-.1	.1	1.5	103	2.4	108	95	80	0	0	5	0
FAIRBANKS	69	55	78	50	62	-2	1.3	-.2	.1	1.9	51	5.5	93	87	50	0	0	4	0
JUNEAU	71	51	75	49	61	5	1.1	-.1	.1	4.9	58	28.7	110	86	54	0	0	0	0
KODIAK	66	53	74	45	59	4	1.0	-.1	.1	5.7	60	37.7	103	89	68	0	0	2	0
NOME	58	50	67	48	54	3	1.4	-.2	.1	2.7	69	7.4	103	96	77	0	0	0	0
AZ PHOENIX	108	84	114	79	96	3	1.4	-.2	.1	1.1	16	12.6	117	68	32	3	0	1	0
PRESCOTT	92	65	99	58	78	6	1.0	-.1	.1	1.0	30	8.3	141	60	29	7	0	3	0
TUCSON	103	77	112	71	90	4	1.0	-.1	.1	1.0	30	8.3	141	60	29	7	0	3	0
YUMA	109	88	118	85	99	5	1.0	-.1	.1	1.0	30	8.3	141	60	29	7	0	3	0
AR FORT SMITH	87	71	102	62	79	-3	1.0	-.4	.1	6.2	89	27.9	113	86	44	2	0	0	1
LITTLE ROCK	87	71	98	64	79	-3	2.5	1.9	1.6	7.2	90	28.6	98	81	50	2	0	3	2
CA BAKERSFIELD	103	72	108	66	88	4	1.0	-.1	.1	1.6	225	29.8	141	89	57	0	0	2	0
EUREKA	65	55	69	54	60	3	1.0	-.1	.1	1.6	400	6.6	172	41	16	7	0	0	0
FRESNO	101	69	107	64	85	4	1.0	-.1	.1	1.6	225	29.8	141	89	57	0	0	2	0
LOS ANGELES	77	65	79	64	71	1	1.0	-.1	.1	1.6	>1000	11.5	165	67	20	7	0	0	0
REDDING	103	67	113	62	85	4	1.0	-.1	.1	1.6	>1000	18.5	237	95	62	0	0	0	0
SACRAMENTO	94	61	106	57	78	2	1.0	-.1	.1	1.6	82	35.3	185	67	15	7	0	0	0
SAN DIEGO	76	66	78	64	71	-1	1.0	-.1	.1	1.3	833	19.1	178	81	30	5	0	0	0
SAN FRANCISCO	77	60	100	57	68	5	1.0	-.1	.1	1.4	478	15.5	250	90	61	0	0	0	0
CO DENVER	80	56	91	52	68	-5	1.2	-.2	.2	2.8	133	19.4	158	85	50	1	0	0	0
GRAND JUNCTION	91	62	97	56	77	-2	1.0	-.2	.2	1.1	6	7.6	76	87	35	1	0	1	0
PUEBLO	85	57	92	51	71	-6	1.2	-.7	.4	4.1	106	9.8	133	90	41	2	0	1	0
CT BRIDGEPORT	84	67	91	59	76	1	1.1	-.7	.1	3.1	38	19.1	74	79	45	3	0	1	0
HARTFORD	85	61	92	51	73	-1	1.0	-.8	.1	7.6	98	26.4	102	89	45	2	0	1	0
DC WASHINGTON	88	69	96	65	78	-2	2.0	1.0	1.9	5.0	62	24.0	104	89	49	4	0	2	1
FL APALACHICOLA	94	74	98	69	84	2	1.0	-.7	.0	3.3	24	24.4	79	79	49	7	0	0	0
DAYTONA BEACH	95	74	97	71	84	3	1.0	-.3	.1	7.2	57	21.1	78	94	51	7	0	0	0
JACKSONVILLE	95	72	96	72	84	2	1.0	-.4	.4	8.8	71	24.0	82	91	51	7	0	3	0
KEY WEST	91	83	92	78	87	3	1.0	-.8	.8	2.9	30	18.8	92	75	59	7	0	2	1
MIAMI	92	81	93	77	87	4	1.0	-.5	.1	10.9	66	29.4	92	75	55	7	0	0	0
ORLANDO	95	76	96	74	85	3	1.0	-.4	.2	11.1	69	27.9	93	90	47	7	0	2	0
TALLAHASSEE	95	69	100	64	82	0	3.3	1.4	1.6	14.3	81	37.5	88	95	45	7	0	4	2
TAMPA	95	76	97	72	86	3	1.0	-.9	.7	7.0	51	21.0	80	82	48	7	0	2	1
WEST PALM BEACH	91	78	92	75	85	2	1.0	-.4	.1	8.3	54	34.1	102	81	59	7	0	0	0
GA ATLANTA	88	70	96	68	79	0	2.9	2.0	1.2	12.0	126	33.8	101	86	58	2	0	5	3
AUGUSTA	94	70	101	62	82	2	2.4	1.4	.8	6.5	68	26.0	88	87	49	6	0	4	3
MACON	92	70	101	62	81	0	5.3	4.4	2.3	10.8	123	35.4	118	89	55	6	0	5	3
SAVANNAH	96	74	98	72	85	3	1.6	-.2	.4	7.4	54	28.8	91	86	39	7	0	2	0
HI HILO	85	71	87	68	78	2	2.5	.3	1.3	27.5	152	60.9	79	91	68	0	0	6	2
HONOLULU	88	74	90	72	81	0	1.0	-.1	.1	8	67	2.4	20	77	55	2	0	0	0
KAHULUI	90	71	93	70	81	1	1.0	-.1	.1	1.3	171	6.7	51	75	58	5	0	0	0
LIHUE	85	74	86	70	80	0	1.1	-.3	.1	2.4	57	8.6	35	81	66	0	0	1	0
ID BOISE	92	60	96	50	76	1	1.1	-.1	.1	2.7	222	10.8	147	74	21	5	0	1	0
LEWISTON	93	61	96	56	77	2	1.0	-.2	.0	2.8	135	10.2	131	57	18	6	0	0	0
POCATELLO	86	50	89	46	68	-3	1.1	-.1	.0	4.1	227	13.6	179	85	25	0	0	2	0
IL CHICAGO	78	57	85	52	68	-6	1.0	-.6	.3	14.8	178	30.3	145	92	48	0	0	2	0
MOLINE	78	57	86	53	68	-7	1.1	-.9	.1	19.2	187	36.0	149	96	50	0	0	1	0
PEORIA	79	58	85	52	68	-6	1.1	-.7	.0	15.9	179	33.4	150	95	49	0	0	2	0
QUINCY	77	60	84	56	69	-7	1.1	-.8	.1	12.1	131	22.8	97	86	53	0	0	2	0
ROCKFORD	77	56	86	50	67	-6	1.1	-.8	.1	15.7	164	32.0	147	95	46	0	0	2	0
SPRINGFIELD	79	59	85	52	69	-7	1.1	-.6	.1	16.8	218	31.4	146	94	48	0	0	2	0
IN EVANSVILLE	84	65	89	62	74	-5	1.3	-.6	.1	7.3	80	25.3	86	93	45	0	0	3	0
FORT WAYNE	80	55	86	49	68	-6	1.0	-.7	.4	10.5	134	29.5	138	95	45	0	0	2	0
INDIANAPOLIS	80	59	87	52	70	-5	1.3	-.6	.2	10.4	118	26.3	105	93	48	0	0	5	0
SOUTH BEND	77	58	85	51	67	-5	1.5	-.3	.3	12.9	147	27.0	117	91	47	0	0	2	0
IA DES MOINES	77	57	83	53	67	-7	1.6	-.3	.5	18.0	193	34.8	164	96	49	0	0	2	1
SIoux CITY	78	55	83	50	67	-8	1.9	-.2	.5	11.8	154	22.2	132	93	48	0	0	2	0
WATERLOO	77	56	82	51	66	-6	1.6	-.6	.5	21.9	215	37.6	173	97	51	0	0	2	0
KS CONCORDIA	79	58	86	51	69	-11	1.4	-.4	.3	23.8	266	34.4	181	98	51	0	0	2	0
DODGE CITY	77	58	87	55	68	-12	1.3	-.6	.8	10.9	155	21.2	144	98	58	0	0	5	1
GOODLAND	77	54	85	50	65	-10	1.1	-.4	.0	5.6	86	11.1	84	97	47	0	0	3	0
TOPEKA	79	60	88	54	70	-9	1.0	-.5	.4	13.5	136	32.0	146	96	50	0	0	2	0
WICHITA	81	63	90	60	72	-8	1.3	-.5	1.2	11.9	120	27.5	126	91	45	1	0	2	1
KY BOWLING GREEN	84	62	90	58	73	-5	1.4	-.5	.2	6.6	67	21.7	68	98	50	1	0	3	0
LEXINGTON	82	60	91	58	71	-5	1.0	-.2	.4	9.6	100	26.0	91	89	49	1	0	4	0
LOUISVILLE	84	64	90	62	74	-3	1.6	-.7	1.3	10.2	115	29.5	103	87	47	1	0	3	1
LA BATON ROUGE	92	74	95	72	83	0	1.0	-.7	.5	8.3	65	43.5	114	97	61	6	0	4	0
LAKE CHARLES	93	75	95	74	84	2	1.0	-.1	.2	11.8	104	42.4	134	93	59	7	0	2	0
NEW ORLEANS	92	75	96	72	84	2	1.0	-.5	.4	11.6	87	39.9	104	94	62	7	0	6	0
SHREVEPORT	93	73	100	71	83	1	4.0	3.4	2.4	20.1	233	42.9	140	93	55	6	0	5	2

Based on 1961-90 normals.

Weather Data for the Week Ending August 7, 1993

STATES AND STATIONS	TEMPERATURE °F							PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE		.50 INCH OR MORE	
																			90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME CARIBOU	80	57	87	46	69	3	.4	-6	.3	7.4	94	20.4	101	91	44	0	0	0	2	0		
PORTLAND	80	60	87	54	70	1	.6	-1	.2	6.2	86	25.9	102	90	47	0	0	3	0			
MD BALTIMORE	86	64	95	61	75	-2	2.0	1.1	1.5	6.2	76	27.2	111	95	45	4	0	3	1			
SALISBURY	87	67	96	62	77	0	2.4	1.2	2.3	5.2	57	28.7	105	98	56	3	0	3	1			
MA BOSTON	82	67	92	62	74	1	.2	-5	.2	3.7	55	24.3	100	87	52	1	0	1	0			
CHATHAM	77	60	79	57	68	0	.2	-5	.2	5.1	71	23.1	88	95	44	0	0	3	0			
MI ALPENA	74	50	80	42	62	-4	.3	-4	.3	6.0	89	14.1	84	98	52	0	0	3	0			
DETROIT	78	57	84	51	68	-5	.2	-6	.1	8.4	111	20.3	104	88	46	0	0	3	0			
FLINT	75	53	82	47	64	-6	.4	-4	.2	7.9	119	19.4	114	94	48	0	0	3	0			
GRAND RAPIDS	74	55	79	47	64	-7	2.4	1.7	1.3	10.3	135	25.1	125	95	52	0	0	5	2			
HOUGHTON LAKE	72	55	82	45	63	-4	1.3	.6	.9	7.4	118	16.1	102	93	56	0	0	2	1			
LANSING	74	53	82	46	64	-6	1.1	.3	.5	10.5	157	22.9	132	99	54	0	0	3	1			
MARQUETTE	69	49	82	43	59	-5	.8	.1	.4	5.2	73	17.9	92	92	51	0	0	3	0			
MUSKOGON	74	57	79	48	66	-5	2.1	1.5	1.1	10.4	204	22.6	133	97	55	0	0	4	1			
SAULT ST. MARIE	70	49	76	42	60	-5	.8	.1	.4	7.9	119	19.0	105	98	51	0	0	3	0			
MN ALEXANDRIA	71	54	75	50	62	-9	.2	-6	.1	10.4	130	20.3	126	93	49	0	0	2	0			
DULUTH	68	51	73	45	60	-7	.1	-8	.1	12.8	155	22.6	129	88	50	0	0	4	0			
INT'L FALLS	69	49	75	42	59	-7	.8	.0	.5	8.8	107	14.4	97	95	48	0	0	4	1			
MINNEAPOLIS	74	54	79	49	64	-9	.8	.0	.5	11.9	142	20.8	116	92	47	0	0	1	0			
ROCHESTER	73	51	79	47	62	-8	.8	.0	.5	12.4	141	26.3	144	96	48	0	0	0	0			
MS GREENWOOD	89	72	99	71	81	1	1.1	.5	.4	5.8	63	29.9	86	97	59	3	0	6	0			
JACKSON	89	72	95	71	81	1	1.6	.8	.9	12.5	154	32.9	93	100	64	3	0	5	1			
MERIDIAN	92	72	97	70	82	0	3.0	2.1	1.5	9.3	96	36.2	103	95	59	5	0	5	2			
MO CAPE GIRARDEAU	84	65	92	59	75	-4	.3	-5	.2	8.1	104	28.8	100	91	47	1	0	5	0			
COLUMBIA	78	59	88	55	69	-8	.4	-3	.4	17.9	215	34.7	150	93	51	0	0	2	0			
KANSAS CITY	79	59	88	54	69	-8	.4	-7	.2	16.8	168	35.1	154	91	51	0	0	2	0			
SAINT LOUIS	83	66	91	62	74	-4	2.3	-4	-2	12.4	151	32.2	138	87	46	1	0	2	0			
SPRINGFIELD	81	62	89	57	72	-5	2.0	-4	-2	14.9	168	30.6	121	92	49	0	0	3	1			
MT BILLINGS	78	54	86	50	66	-6	.2	.0	.2	7.3	235	10.9	107	87	36	0	0	2	0			
GLASGOW	76	50	85	45	63	-7	.2	-3	.1	6.9	167	10.3	132	84	37	0	0	1	0			
GREAT FALLS	76	47	83	43	62	-7	.1	-3	.1	7.1	179	16.0	153	90	35	0	0	1	0			
HAVRE	76	49	83	44	62	-6	.4	-3	.1	7.6	222	10.4	137	90	39	0	0	0	0			
HELENA	78	49	82	45	63	-6	.4	-1	.4	8.3	257	13.9	180	90	37	0	0	2	0			
KALISPELL	79	49	82	43	64	0	.1	-2	.1	9.6	266	16.7	163	92	35	0	0	1	0			
MILES CITY	77	53	87	48	65	-10	.1	-2	.0	11.1	241	16.1	163	86	44	0	0	2	0			
MISSOULA	84	50	87	43	67	-1	.1	-1	.1	3.6	122	9.7	111	89	29	0	0	2	0			
NE GRAND ISLAND	78	56	84	50	67	-9	.8	-6	.1	15.6	212	24.1	144	93	46	0	0	0	0			
LINCOLN	78	57	83	51	67	-10	.8	-7	.1	8.1	104	18.7	104	97	49	0	0	0	0			
NORFOLK	79	56	84	49	67	-7	.5	-1	.5	15.9	191	26.1	150	92	42	0	0	1	1			
NORTH PLATTE	78	54	84	48	66	-8	1.5	1.1	.6	13.1	190	20.2	141	94	46	0	0	5	2			
OMAHA	77	58	82	51	67	-9	.1	-6	.1	17.9	227	29.4	159	92	50	0	0	1	0			
SCOTT'S BLUFF	78	54	84	52	66	-8	1.2	.9	.6	9.8	196	16.2	142	91	42	0	0	4	1			
VALENTINE	79	49	82	42	64	-12	.5	-2	.3	7.6	102	14.4	94	90	37	0	0	4	0			
NV ELY	85	48	93	43	67	-4	.5	-3	.3	2.0	112	7.7	124	76	19	1	0	4	0			
LAS VEGAS	107	81	114	74	94	4	.3	-2	.2	.3	59	4.6	192	36	18	7	0	3	0			
RENO	95	59	100	54	77	5	.7	-1	.1	.4	45	4.9	105	72	15	6	0	0	0			
WINNEMUCCA	95	60	99	51	77	5	.0	-1	.0	1.2	100	6.2	122	67	14	6	0	0	0			
NH CONCORD	84	58	90	47	71	2	.7	.0	.5	4.8	67	15.7	75	97	42	1	0	2	0			
NJ ATLANTIC CITY	84	63	92	58	74	-1	.7	-2	.6	3.9	52	22.2	91	95	47	2	0	3	1			
NM ALBUQUERQUE	91	65	97	61	78	0	.8	.4	.6	1.5	64	4.5	93	79	34	5	0	3	1			
CLOVIS	83	64	93	62	73	-3	3.0	2.3	1.1	9.5	155	11.6	113	87	50	1	0	5	2			
ROSWELL	90	66	101	61	78	-2	1.7	1.1	1.3	5.6	145	8.1	124	90	38	4	0	6	1			
NY ALBANY	80	58	88	48	69	-3	.5	-3	.5	9.9	130	26.8	124	94	52	0	0	3	0			
BINGHAMTON	74	56	80	50	65	-4	1.2	.5	.8	7.5	95	25.1	115	95	51	0	0	4	1			
BUFFALO	78	60	83	53	69	-2	1.0	.2	.5	7.8	104	21.5	101	87	46	0	0	5	1			
NEW YORK	85	71	95	64	78	1	.5	-4	.4	3.9	46	22.5	88	79	46	3	0	2	0			
ROCHESTER	78	57	84	51	68	-2	.5	-3	.3	4.9	75	15.5	85	91	47	0	0	2	0			
SYRACUSE	77	58	86	51	67	-3	1.1	.3	.8	8.8	104	26.8	120	95	53	0	0	4	1			
NC ASHEVILLE	82	61	87	52	72	-2	3.7	2.4	2.0	6.9	63	26.7	79	95	54	0	0	4	2			
CHARLOTTE	88	69	94	65	79	-1	1.9	1.0	1.1	3.6	44	24.7	93	89	52	3	0	4	1			
GREENSBORO	88	66	92	62	77	0	.5	-5	.3	6.9	74	30.5	116	92	52	3	0	4	0			
HATTERAS	86	72	90	67	79	0	1.2	-1	1.0	6.4	62	28.7	91	88	69	2	0	3	1			
NEW BERN	88	70	93	67	79	0	.9	-7	.7	10.5	75	32.2	94	95	57	3	0	2	1			
RALEIGH	88	67	93	63	78	-1	1.1	.2	.9	3.6	41	24.6	94	91	54	3	0	3	1			
WILMINGTON	90	72	92	68	81	1	1.0	-6	.7	11.7	87	35.5	104	94	56	5	0	5	1			
ND BISMARCK	73	51	79	42	62	-9	.1	-3	.1	18.4	351	23.1	214	88	43	0	0	1	0			
FARGO	74	54	78	51	64	-7	.1	-4	.1	12.2	199	17.4	138	91	44	0	0	3	0			
GRAND FORKS	73	53	78	50	63	-6	.3	-3	.2	11.9	194	14.6	125	91	46	0	0	3	0			
WILLISTON	72	50	79	45	61	-10	.1	-2	.1	10.2	217	12.7	132	87	44	0	0	3	0			
OH AKRON-CANTON	79	58	85	54	69	-3	.3	-5	.2	7.6	95	22.9	101	91	42	0	0	3	0			
CINCINNATI	83	59	91	53	71	-3	.2	-6	.1	6.3	71	22.6	85	88	40	1	0	4	0			
CLEVELAND	78	59	84	56	69	-3	1.1	.3	.4	8.8	111	24.5	113	90	48	0	0	5	0			
COLUMBUS	80	58	86	53	69	-3	.4	-4	.3	9.7	115	26.1	112	91	44	0	0	2	0			
DAYTON	81	58	89	51	69	-4	.3	-5	.3	11.3	138	32.5	140	87	43	0	0	2	0			

Based on 1961-90 normals.

Weather Data for the Week Ending August 7, 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
TOLEDO	81	54	88	49	68	-4	.3	-.5	.3	6.5	84	19.1	96	94	46	0	0	0	0	
YOUNGSTOWN	78	55	82	50	66	-4	.3	-.4	.3	7.9	90	21.5	95	92	49	0	0	3	0	
OK OKLAHOMA CITY	87	68	95	57	78	-5	.5	-.6	.5	4.4	59	25.2	121	82	45	2	0	0	0	
TULSA	85	67	100	58	76	-7	.4	-.6	.4	6.2	76	25.4	104	89	45	2	0	0	0	
OR ASTORIA	71	57	86	53	64	3	.3	-.2	.3	5.5	145	33.7	93	93	50	0	0	0	0	
BURNS	88	48	93	44	68	2	.2	-.1	.2	1.1	82	7.7	134	67	19	3	0	1	0	
MEDFORD	99	61	104	56	80	0	.0	-.1	.0	1.9	208	11.7	122	83	19	0	0	0	0	
PENDELTON	92	60	95	54	76	2	.2	-.1	.2	2.2	195	9.6	137	72	19	6	0	0	0	
PORTLAND	88	62	97	58	75	2	.6	-.1	.6	4.1	178	22.0	112	89	39	3	0	0	0	
SALM	91	59	100	54	75	7	.0	-.1	.0	4.2	207	24.9	119	85	33	5	0	0	0	
PA ALLENTOWN	84	63	91	56	73	-1	1.1	-.1	1.1	7.9	90	27.6	106	89	44	4	0	2	4	
ERIE	78	62	85	57	70	-1	2.0	1.1	2.0	8.7	104	21.3	94	88	49	0	0	4	1	
HARRISBURG	83	65	90	61	74	-2	.9	-.2	.9	7.1	87	26.6	108	93	46	1	0	2	1	
PHILADELPHIA	88	69	96	63	78	4	1.7	-.8	1.5	5.2	53	23.4	84	83	41	4	0	2	1	
PITTSBURGH	80	60	85	58	70	4	.5	-.3	.4	6.7	81	23.2	100	86	48	0	0	2	0	
SCRANTON	81	59	88	53	70	-2	.4	-.4	.2	3.2	38	19.2	87	90	44	0	0	4	0	
RI PROVIDENCE	85	64	92	55	74	-1	1.1	-.8	1.1	3.6	49	24.3	91	89	47	1	0	0	0	
SC CHARLESTON	93	73	96	69	83	2	4.0	2.3	3.3	11.9	79	35.1	107	86	50	7	0	3	2	
COLUMBIA	92	70	99	63	81	1	1.5	-.1	.9	4.3	36	25.6	80	91	50	4	0	4	2	
FLORENCE	92	72	96	65	82	1	.9	-.4	.5	6.2	56	21.4	76	90	45	6	0	3	0	
GREENVILLE	87	66	93	60	77	-1	.3	-.6	.2	1.3	12	28.3	87	94	54	3	0	4	0	
SD ABERDEEN	76	54	82	50	65	-7	1.1	-.6	.1	13.7	188	19.8	139	86	45	0	0	3	0	
HURON	76	52	80	47	64	-10	.2	-.3	.1	14.0	215	23.0	162	94	46	0	0	3	0	
RAPID CITY	77	51	86	47	64	-9	.3	-.3	.1	7.9	142	15.2	127	92	39	0	0	1	0	
STOUX FALLS	76	54	81	50	65	-9	.3	-.4	.3	14.5	218	29.0	193	92	49	0	0	1	0	
TN CHATTANOOGA	88	69	97	63	79	0	1.6	-.7	.9	4.5	49	27.5	82	87	57	2	0	3	1	
KNOXVILLE	86	67	93	59	76	-1	2.4	1.6	1.7	5.4	57	24.1	79	95	50	1	0	4	2	
MEMPHIS	86	71	92	69	79	-4	3.6	2.8	2.4	8.7	107	28.6	89	90	60	2	0	5	1	
NASHVILLE	85	67	91	62	76	-3	.5	-.3	.5	9.5	113	28.7	96	86	51	1	0	3	1	
TX ABILENE	92	72	102	69	82	-2	1.0	-.4	.7	5.0	91	11.0	79	79	42	4	0	4	1	
AMARILLO	81	61	91	58	71	-7	1.2	-.4	.6	7.3	103	12.0	95	94	52	1	0	4	1	
AUSTIN	99	76	100	74	88	2	.0	-.4	.0	4.0	65	20.9	109	80	34	7	0	0	0	
BEAUMONT	95	75	97	74	85	2	1.1	-.1	1.0	15.8	130	46.4	141	98	55	7	0	2	1	
BROWNSVILLE	95	76	96	75	86	1	.0	-.4	.0	6.7	133	17.1	134	91	49	7	0	0	0	
CORPUS CHRISTI	95	74	96	73	84	0	.0	-.6	.0	12.0	189	28.4	177	96	52	7	0	0	0	
DEL RIO	100	77	101	74	89	5	.0	-.6	.0	6.3	118	10.1	70	63	43	7	0	0	0	
EL PASO	95	70	104	66	82	1	.8	-.4	.6	3.2	125	5.0	120	77	33	5	0	3	1	
FORT WORTH	94	75	104	70	85	1	.7	-.3	.7	4.5	76	20.2	92	78	45	5	0	3	1	
GALVESTON	92	83	93	81	87	3	.0	-.9	.0	3.4	37	30.1	130	76	65	7	0	0	0	
HOUSTON	99	76	100	74	87	4	.0	-.8	.0	12.6	110	43.8	143	88	44	7	0	0	0	
LUBBOCK	88	67	99	65	78	-2	1.3	-.8	.5	5.9	104	10.9	100	91	42	3	0	4	1	
MIDLAND	94	70	99	67	82	1	.3	-.1	.2	4.3	126	8.7	110	79	33	6	0	2	0	
SAN ANGELO	95	72	103	69	83	0	.3	-.0	.3	2.1	56	9.5	85	76	35	4	0	2	0	
SAN ANTONIO	99	77	99	76	88	2	.0	-.5	.0	6.4	99	27.3	150	85	34	7	0	0	0	
VICTORIA	96	75	99	73	86	2	.0	-.7	.0	12.5	131	41.2	164	92	44	7	0	0	0	
WACO	98	75	100	72	86	0	.8	-.5	.8	3.0	53	19.3	99	79	39	7	0	1	1	
WICHITA FALLS	90	70	101	65	80	-4	.4	-.1	.4	4.3	71	20.1	105	85	51	3	0	1	0	
UT CEDAR CITY	92	57	98	52	75	1	1.1	-.3	.1	1.1	59	7.8	117	60	20	5	0	1	0	
SALT LAKE CITY	89	61	92	56	75	-3	.0	-.1	.0	2.6	132	14.1	139	79	29	5	0	3	0	
VT BURLINGTON	81	58	88	52	70	-1	.3	-.6	.3	7.0	87	18.6	95	94	50	0	0	3	0	
VA NORFOLK	88	70	97	68	79	1	1.4	-.3	1.0	4.6	46	24.2	87	85	51	4	0	3	1	
RICHMOND	89	67	99	62	78	0	1.9	-.8	1.8	5.5	57	28.0	105	88	42	4	0	2	1	
ROANOKE	86	63	93	56	74	-2	.7	-.3	.6	4.4	55	24.7	101	89	41	2	0	3	1	
WA QUILLAYUTE	77	56	94	52	67	7	.0	-.5	.0	4.7	75	43.5	76	91	48	1	0	2	0	
SEATTLE-TACOMA	83	60	95	56	72	6	.0	-.2	.0	3.8	152	20.4	105	86	40	1	0	0	0	
SPOKANE	86	55	90	49	70	0	.0	-.2	.0	2.6	121	9.2	95	82	24	1	0	0	0	
YAKIMA	93	54	97	48	73	3	.0	-.1	.0	1.3	171	4.5	102	86	23	6	0	0	0	
WV BECKLEY	77	58	83	54	68	-2	1.9	1.0	.9	6.7	71	24.1	93	94	49	0	0	3	2	
CHARLESTON	83	62	92	58	72	-3	1.1	-.1	.7	8.1	84	23.4	88	95	48	1	0	4	1	
HUNTINGTON	81	61	88	57	71	-3	.6	-.4	.3	9.1	95	25.2	94	95	46	0	0	4	0	
PARKERSBURG	82	60	88	57	71	-4	.4	-.6	.3	5.4	59	23.0	87	97	44	0	0	2	0	
WI GREEN BAY	74	56	84	50	65	-4	.9	-.1	.8	14.5	201	25.3	152	94	47	0	0	3	1	
LACROSSE	75	55	83	50	65	-8	.3	-.6	.2	14.8	173	31.7	171	98	44	0	0	2	0	
MADISON	76	55	85	50	66	-5	-.2	-.6	.1	16.2	191	31.4	163	90	48	0	0	2	0	
MILWAUKEE	78	61	88	55	69	-2	.2	-.6	.2	10.8	144	25.9	132	88	47	0	0	2	0	
WAUSAU	71	52	79	47	62	-8	.8	-.2	.5	11.3	128	24.2	128	97	50	0	0	3	1	
WY CASPER	80	52	87	47	66	-5	.1	-.1	.0	3.7	127	11.1	128	85	29	0	0	3	0	
CHEYENNE	74	50	82	44	62	-7	1.0	-.6	.5	4.9	108	11.1	110	90	41	0	0	4	0	
LANDER	78	51	85	47	65	-7	.2	-.1	.1	6.0	251	12.5	139	77	29	0	0	3	0	
SHERRIDAN	78	48	89	42	63	-8	.4	-.3	.3	7.3	223	13.9	142	88	33	0	0	2	0	

Based on 1961-90 normals.

July Weather in Historical Perspective

The weather of July 1993 was characterized by extremes, rendering national rankings less useful than regional values. For example, the Nation as a whole experienced its 16th coldest July on record despite record heat in the Southeast (table 1). In fact, the Southeast's average temperature surpassed the normal by more than 3.5°F, and exceeded the former record, set in 1986, by more than 1.0°F (fig. 1). The crop-withering heat was accompanied by scant rainfall, which totaled less than 60 percent of normal. Only in 1983 was a July drier in the Southeast (fig. 2).

In the opposite quadrant of the Nation, records for coldness (table 2) and wetness (table 3) were obliterated. July temperatures were 3°F lower in the Northwest than ever before measured, and 7°F below normal (fig. 3). July rainfall in the

West North Central region was nearly 250 percent of normal (fig. 4).

Rain continued to fall at near-record levels during July in the upper Mississippi River Valley (table 4), putting the finishing touches on the worst summer flooding on record in the upper and middle Mississippi Basins. Major flooding was already underway north of St. Louis, MO by the end of June, and near-record or record July rainfall in key drainage States (including IL, IA, KS, MN, MO, NE, and SD) resulted in either multiple crests or prolonged high river levels. Since the beginning of 1993, precipitation has fallen in unprecedented quantities in the upper Mississippi Valley (fig. 5), and at near-record proportions in the Missouri River Basin (fig. 6).

TABLE 1. TEMPERATURE AND PRECIPITATION RANKINGS FOR JULY 1993, BASED ON THE PERIOD 1895-1993. 1 = DRIEST/COLDEST, 99 = WETTEST/HOTTEST.

REGION	PRECIPITATION	TEMPERATURE
NORTHEAST	7	87
EAST NORTH CENTRAL	98	26
CENTRAL	85	89
SOUTHEAST	2	99
WEST NORTH CENTRAL	99	2
SOUTH	27	92
SOUTHWEST	1	29
NORTHWEST	97	1
WEST	26	2
NATIONAL	78	16

TABLE 2. TEMPERATURE RANKINGS FOR JULY 1993, BASED ON THE PERIOD 1895 TO 1993. 1 = COLDEST, 99 = WARMEST.

STATE RANK	STATE RANK	STATE RANK	STATE RANK
AL 99	IA 22	NE 14	RI 94
AZ 46	KS 35	NV 2	SC 99
AR 95	KY 98	NH 72	SD 4
CA 15	LA 94	NJ 97	TN 99
CO 22	ME 40	NM 88	TX 89
CT 77	MD 96	NY 86	UT 1
DE 94	MA 57	NC 99	VT 84
FL 98	MI 69	ND 3	VA 99
GA 99	MN 14	OH 87	WA 1
ID 1	MS 95	OK 93	WV 96
IL 68	MO 84	OR 1	WI 27
IN 81	MT 1	PA 89	WY 2

Figure 1

SOUTHEAST REGION TEMPERATURE
JULY, 1895-1993

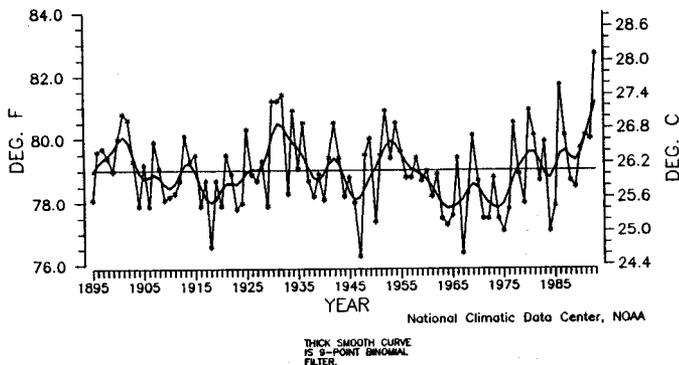


TABLE 3. PRECIPITATION RANKINGS FOR JULY 1993, BASED ON THE PERIOD 1895 TO 1993. 1 = DRIEST, 99 = WETTEST. THESE RANKS ARE BASED ON PRELIMINARY ESTIMATES AND SHOULD BE USED WITH CONSIDERABLE CAUTION.

STATE RANK	STATE RANK	STATE RANK	STATE RANK
AL 5	IA 99	NE 97	RI 27
AZ 1	KS 98	NV 12	SC 6
AR 4	KY 20	NH 7	SD 99
CA 66	LA 10	NJ 23	TN 7
CO 2	ME 8	NM 7	TX 8
CT 78	MD 4	NY 11	UT 4
DE 31	MA 28	NC 8	VT 27
FL 10	MI 27	ND 99	VA 2
GA 6	MN 98	OH 51	WA 93
ID 98	MS 48	OK 22	WV 3
IL 98	MO 97	OR 88	WI 74
IN 52	MT 99	PA 20	WY 82

Figure 2

SOUTHEAST REGION PRECIPITATION
JULY, 1895-1993

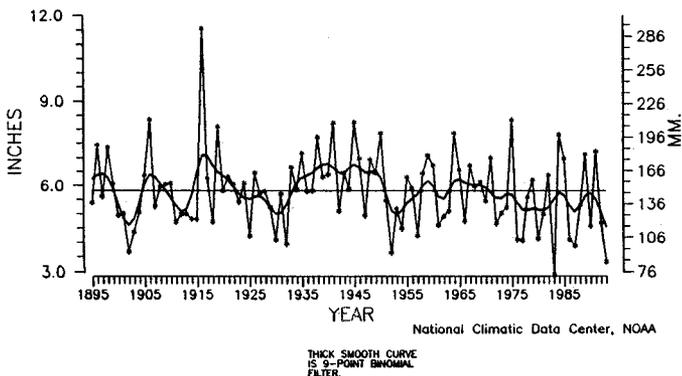


Figure 3

NORTHWEST REGION TEMPERATURE
JULY, 1895-1993

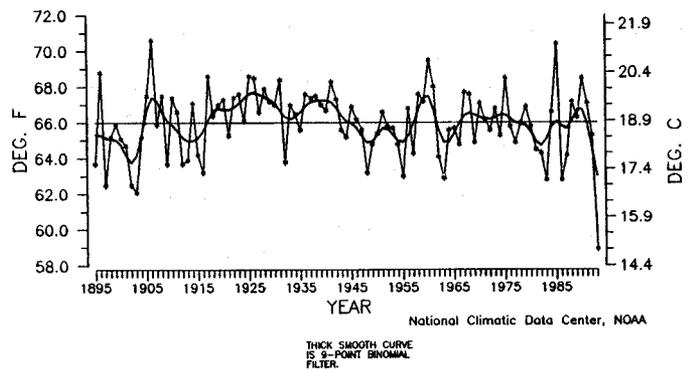


Figure 4

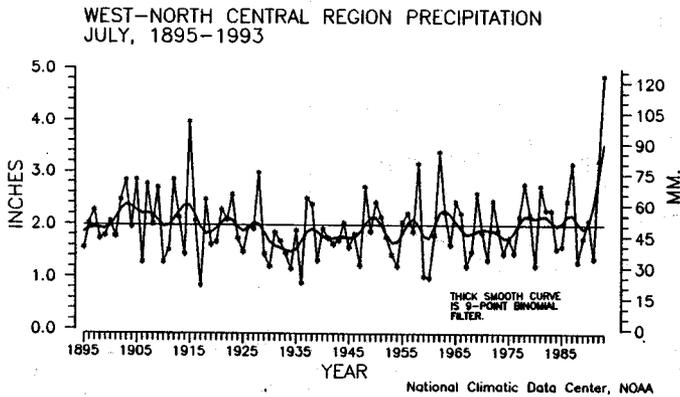


Figure 5

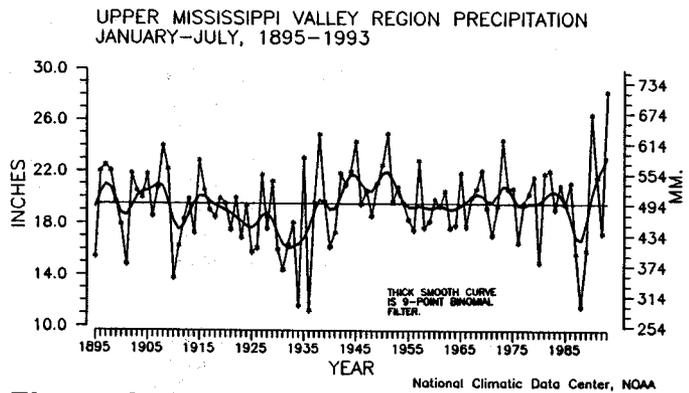
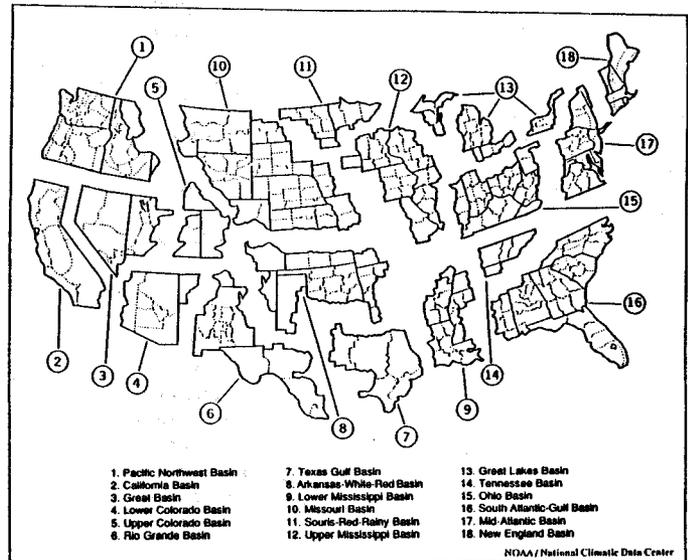
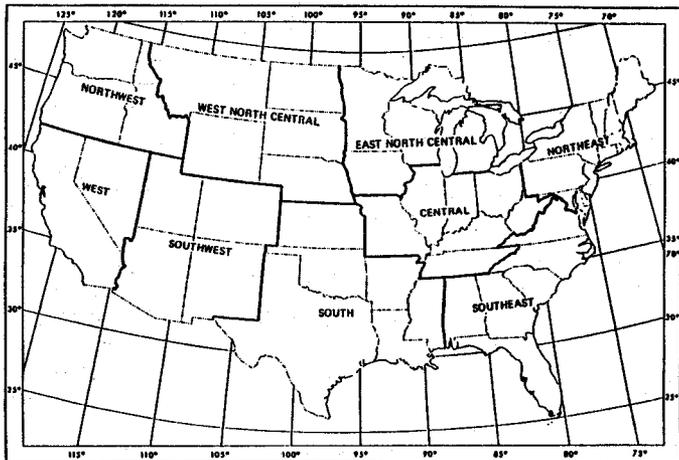
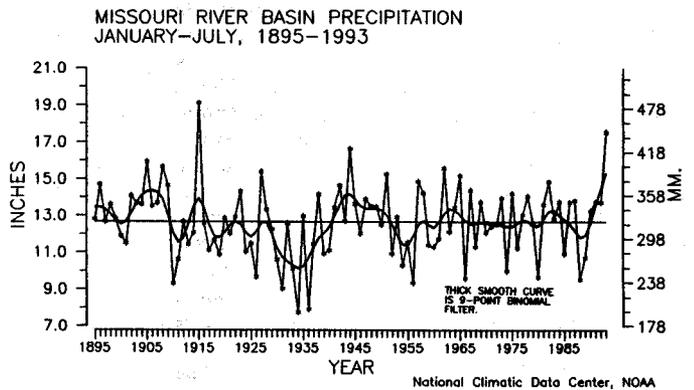


TABLE 4. 1993 STATISTICS FOR SELECTED RIVER BASINS: PRECIPITATION RANKINGS, WHERE RANK OF 1 = DRIEST, 99 = WETTEST, BASED ON THE PERIOD 1895 TO 1993; RIVER BASIN REGIONS AS DEFINED BY THE U.S. WATER RESOURCES COUNCIL.

RIVER BASIN	PRECIP. RANK	PRECIP. RANK	PRECIP. RANK
	JAN-JUL	APR-JUL	JUN-JUL
MISSOURI BASIN	98	98	98
PACIFIC NORTHWEST BASIN	84	98	95
CALIFORNIA RIVER BASIN	86	80	99
GREAT BASIN	87	31	50
UPPER COLORADO BASIN	85	22	2
LOWER COLORADO BASIN	95	1	1
RIO GRANDE BASIN	54	29	29
ARKANSAS-WHITE-RED BASIN	84	74	66
TEXAS GULF COAST BASIN	69	49	44
SOURIS-RED-RAINY BASIN	97	99	99
UPPER MISSISSIPPI BASIN	99	99	99
LOWER MISSISSIPPI BASIN	43	49	16
GREAT LAKES BASIN	63	76	65
OHIO RIVER BASIN	54	52	69
TENNESSEE RIVER BASIN	23	32	23
NEW ENGLAND BASIN	39	34	24
MID-ATLANTIC BASIN	64	25	2
SOUTH ATLANTIC-GULF BASIN	30	5	2

Figure 6



(Continued from front cover)

north, generally dry weather covered the Midwest, allowing the Mississippi River's record crest to proceed downstream undisturbed. The crest passed St. Louis, MO on Sunday at 19.4 feet above flood stage, more than 6 feet higher than at any other time on record. The crest worked downstream to Chester, IL by Friday, and to Cape Girardeau, MO (16 feet above flood stage) by Sunday (August 8). Numerous levees succumbed to the crest's advance south of St. Louis, submerging additional flood-plain land and riverside communities, including Valmeyer, IL. At week's end, the river was nearly 6 feet above stage at its confluence

with the Ohio River, the southernmost point at which significant flooding is expected due to the widening and deepening of the basin from that point southward. The level of the lower Missouri River fell steadily during the week, dropping below flood stage at Kansas City, MO by late in the week. Elsewhere, cool weather overspread much of the Nation east of the Rockies. Maximum temperatures reached only 64°F in Topeka, KS on Thursday, and 75°F in Birmingham, AL and Knoxville, TN on Friday. Also on August 6, Bismarck, ND recorded a daily record low of 42°F.

National Agricultural Summary

August 2 - 8, 1993

HIGHLIGHTS: Scattered rains fell across the South and along the East Coast, bringing some relief to previous dry areas. The central part of the Nation was mostly dry, allowing water levels in swollen rivers to decline and fields to dry. Dry conditions stressed crops in the Ohio Valley. Temperatures were below normal except west of the Rockies and along the Gulf coast. The cool weather reduced stress to livestock. However, higher temperatures and continued sunny weather will be needed in the central part of the Nation to allow late-planted crops to mature.

SMALL GRAINS: Winter wheat harvest in the 19 major wheat-producing States reached 85 percent (%) complete, compared with 89% by this time in 1992 and 92% average. Continued dry conditions across the central Great Plains allowed harvest activity to accelerate. However, quality of the remaining wheat in Kansas and Missouri declined. Drier conditions across the Northwest allowed increased harvest activities. Early harvested wheat in Washington had good yields and quality. The spring wheat harvest began with 3% of the crop harvested, compared with 3% last year and 38% average. Muddy fields hindered the harvest in South Dakota. Continued coolness as well as reports of scabbing and other diseases contributed to the decline of the spring wheat condition. About 70% of the crop rated good to excellent, compared with 74% last week. Reports were received of very poor spring wheat in South Dakota as well as an increase of very poor wheat in Minnesota. Harvests of oats, barley, and rye advanced across the Nation, but progress in many areas was behind normal. Rust problems were widespread across some oat fields in South Dakota. Oats harvest in Wisconsin was slow and behind normal.

CORN: Corn silking progress in the 17 major producing States advanced to 74%, compared with 86% a year ago and 90% average. Corn in the dough stage was at 18%, compared with 28% last year and 37% average. Sunny and dry conditions allowed the crop to improve in many areas of the Midwest. However, cooler conditions slowed development in Illinois. Warmer conditions are needed in the Midwest to promote crop development. Harvest advanced in the South. Rains in the Southeast came too late to help some fields and slowed harvest in other fields. Corn condition was 52% good to excellent, down slightly from the previous week.

SOYBEANS: Soybean blooming progress reached 73%, compared with 81% last year and 82% average. Setting pods averaged 35%, compared with 51% a year ago and 56% average. Soybean bloom made good progress in Iowa, Nebraska, and Kansas, while Ohio and Indiana crops made good progress setting pods. The below normal temperatures slowed development of the crop in Illinois. In Tennessee, lower temperatures and rain aided pod set and fill, although double-cropped soybeans needed more rain. The condition of the crop declined slightly with less acreage rated excellent, and more rated very poor than the week before.

COTTON: Cotton setting bolls in the 14 major producing States was 85%, compared with 74% last year and 82% average. Boll opening was reported on 6% of the acreage, compared with 5% last year and 7% average. The crop's condition improved as 57% was rated good to excellent, compared with 54% last week. Scattered showers, although too late to help some fields, benefited other fields in the Southeast and Texas. Boll retention remained excellent in most Texas fields, but some Blackland fields were stressed by the hot, dry conditions. Insect problems occurred in some fields of Tennessee, Arizona, and Texas.

SORGHUM: Grain sorghum headed in the 12 major producing States (excluding New Mexico) was 50%, compared with 68% last

year and 53% average. Grain sorghum coloring averaged 27%, compared with 30% last year and average. Heading progress advanced rapidly in the central part of the Nation and New Mexico. Lower temperatures slowed the progress of some fields in Texas. Light to moderate insect infestations occurred in some south central and southeastern fields of Kansas. About 58% of the crop was rated good to excellent, up from 57% last week.

RICE: Rice heading progress in the five major producing States reached 45%, compared with 68% last year and 53% average. Progress of the rice harvest reached 4%, compared with 9% last year and 7% average. Early harvest began in Louisiana, with good yields reported. Cooler weather reduced heat stress to the crop in California. Rice condition increased with 74% good to excellent, compared with 70% last week.

OTHER FIELD CROPS: Lower temperatures and scattered showers benefited the Georgia peanut crop. Peanuts growing in the Texas Cross Plains region also benefited from rain. Dry conditions slowed peanut growth in the Blackland and Central regions of Texas. Condition of the burley tobacco crop in Kentucky declined due to dry weather and black shank disease. In Tennessee, the previous week's weather caused June-set tobacco to be short and uneven. Tobacco prospects in Tennessee deteriorated due to black shank and early bloom problems. The New England cranberry crop is in good to excellent condition and has medium-sized fruit. Fruit from the Oregon crop sized normal to above normal. The chile pepper harvest began in New Mexico and the safflower harvest began in California. Brown spot and hollow heart problems occurred in some potatoes in Idaho. Warm weather improved potato and onion crop prospects in the Malheur County area of Oregon. Nationally, hay harvest continued with first, second, and third crops all being harvested.

FRUIT AND NUTS: Non-irrigated trees showed stress as hot, dry conditions prevailed over the Florida citrus area. In Texas, pecan trees also showed stress from the dry and hot conditions, although a good nut crop was still expected. The California fruit crop progressed normally. Summer fruit harvest remained active in California.

VEGETABLES: Fall planting activities remained active in Florida and Texas. Vegetable harvests continued nationally, but rains delayed harvest on the Texas High Plains. Dry conditions slowed harvests in east Texas and northern Ohio. Rot occurred in some tomatoes in Ohio.

PASTURE AND LIVESTOCK: Pasture conditions were fair to poor in the Southeast, good to excellent in the Great Plains, and fair to good in the West. Improved weather conditions allowed feedlots to dry in Iowa. Supplemental feeding remained active where pasture grasses were short. Feed supplies were adequate. Cooler weather relieved stress to poultry and livestock, especially in the South. Livestock condition across the Nation was generally good, but some fly and parasite problems were reported in Texas and Arkansas.

Crop Progress

for the Week Ending August 8, 1993

COTTON
(Percent Setting Bolls)

	Current	Last Wk	1992	Avg.
AL	85	74	96	97
AZ	100	99	100	99
AR	95	83	98	97
CA	90	85	100	96
GA	100	89	98	98
LA	94	89	99	92
MS	92	76	98	94
MO	100	90	100	98
NM	93	79	80	85
NC	88	83	67	81
OK	86	80	26	62
SC	90	87	86	85
TN	99	93	97	92
TX	73	63	47	67
14 States	85	75	74	82

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

COTTON
(Percent Bolls Opening)

	Current	Last Wk	1992	Avg.
AL	4	NA	2	8
AZ	28	NA	23	25
AR	0	NA	0	0
CA	3	NA	5	2
GA	3	NA	1	2
LA	1	NA	2	3
MS	1	NA	1	2
MO	0	NA	0	0
NM	0	NA	0	0
NC	0	NA	1	0
OK	0	NA	0	15
SC	1	NA	0	0
TN	0	NA	1	1
TX	11	NA	9	12
14 States	6	NA	5	7

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

GRAIN SORGHUM
(Percent Headed)

	Current	Last Wk	1992	Avg.
AR	71	57	96	77
CO	38	30	7	18
IL	62	28	70	63
KS	25	10	25	40
LA	93	82	100	87
MS	74	71	95	89
MO	56	34	78	67
NE	18	0	31	55
NM	49	18	28	NA
OK	46	33	36	50
SD	10	3	16	42
TX	79	74	76	78
12 States	50	38	53	NA

Excl. States with NA 50 39 53 61
These 12 States produced 99% of the 1992 grain sorghum crop.

SOYBEANS
(Percent Blooming)

	Current	Last Wk	1992	Avg.
AL	60	52	69	70
AR	50	37	63	46
GA	60	48	72	75
IL	87	79	93	93
IN	93	79	93	90
IA	74	54	93	95
KS	80	45	75	75
KY	68	62	69	69
LA	75	61	90	68
MI	85	60	60	80
MN	58	50	56	88
MS	59	49	81	65
MO	69	59	83	75
NE	78	52	83	95
NC	50	34	47	47
OH	96	89	91	84
SC	55	45	56	51
SD	40	34	78	87
TN	65	44	72	57
19 States	73	60	81	82

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

SOYBEANS
(Percent Setting Pods)

	Current	Last Wk	1992	Avg.
AL	36	29	43	42
AR	19	12	39	21
GA	28	22	48	41
IL	46	27	66	74
IN	44	21	50	50
IA	33	15	66	75
KS	40	10	45	50
KY	25	19	26	26
LA	49	31	67	42
MI	30	10	20	30
MN	21	12	43	68
MS	26	15	56	38
MO	36	16	56	46
NE	25	9	45	53
NC	19	13	19	21
OH	60	30	48	60
SC	25	15	24	19
SD	23	10	46	60
TN	25	10	37	24
19 States	35	18	51	56

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

GRAIN SORGHUM
(Percent Coloring)

	Current	Last Wk	1992	Avg.
AR	20	12	54	28
CO	0	0	0	0
IL	3	0	23	14
KS	1	0	2	4
LA	38	24	74	53
MS	39	25	61	48
MO	7	2	22	19
NE	0	0	0	3
NM	3	0	0	NA
OK	9	7	8	17
SD	0	0	0	5
TX	66	60	64	64
12 States	27	23	30	NA

Excl. States with NA 27 24 30 30
These 12 States produced 99% of the 1992 grain sorghum crop.

CORN
(Percent Silking)

	Current	Last Wk	1992	Avg.
CO	75	40	63	71
GA	100	100	100	100
IL	94	85	100	97
IN	96	80	92	91
IA	55	24	94	95
KS	96	85	90	97
KY	98	92	99	95
MI	80	45	60	80
MN	45	20	71	82
MO	79	64	96	94
NE	84	61	92	96
NC	97	95	97	98
OH	93	70	88	86
PA	71	44	53	60
SD	36	16	63	79
TX	98	91	95	98
WI	40	10	59	77
17 States	74	53	86	90

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

CORN
(Percent Dough)

	Current	Last Wk	1992	Avg.
CO	11	4	7	13
GA	99	98	99	99
IL	33	16	59	61
IN	25	9	36	44
IA	0	0	12	24
KS	40	25	45	65
KY	62	27	67	49
MI	0	0	0	4
MN	0	0	1	13
MO	36	21	62	66
NE	13	4	22	35
NC	79	74	76	82
OH	25	8	25	36
PA	11	0	2	11
SD	1	0	7	32
TX	80	73	73	84
WI	3	0	5	20
17 States	18	10	28	37

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

WINTER WHEAT
(Percent Harvested)

	Current	Last Wk	1992	Avg.
AR	100	100	100	100
CA	99	99	99	99
CO	94	85	94	94
GA	100	100	100	100
ID	6	3	53	33
IL	97	95	97	99
IN	100	99	93	98
KS	96	90	100	100
MI	97	85	80	96
MO	95	87	97	100
MT	2	0	10	48
NE	91	62	90	99
NC	100	100	100	100
OH	100	99	90	96
OK	100	100	100	100
OR	37	18	88	63
SD	60	22	51	90
TX	100	100	100	100
WA	39	11	76	55
19 States	85	77	89	92

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

**SPRING WHEAT
(Percent Harvested)**

	Current	Last Wk	1992	Avg.
ID	1	0	32	20
MN	4	0	1	40
MT	0	0	0	24
ND	0	0	1	36
SD	13	0	11	64
5 States	3	0	3	38

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

**RICE
(Percent Headed)**

	Current	Last Wk	1992	Avg.
AR	35	20	68	40
CA	15	5	15	14
LA	73	67	86	78
MS	45	25	79	65
TX	72	58	83	93
5 States	45	33	68	53

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

**RICE
(Percent Harvested)**

	Current	Last Wk	1992	Avg.
AR	0	0	0	0
CA	0	0	0	0
LA	15	7	29	21
MS	1	0	0	0
TX	8	4	22	24
5 States	4	2	9	7

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

**Crop Condition
(Percent)**

for the Week Ending August 8, 1993

RICE

State	VP	P	F	G	EX
AR	0	0	7	93	0
CA	0	0	15	85	0
LA	0	0	56	44	0
MS	0	16	47	37	0
TX	0	0	39	58	3
5 State	0	1	25	74	0
Prev Week	0	1	29	70	0
Prev Year	0	1	25	70	4

SPRING WHEAT

State	VP	P	F	G	EX
ID	0	2	12	73	13
MN	6	16	46	31	1
MT	1	3	13	51	32
ND	0	0	22	66	12
SD	1	2	36	51	10
5 State	1	3	26	57	13
Prev Week	0	3	23	61	13
Prev Year	1	5	23	60	11

CORN

State	VP	P	F	G	EX
CO	1	3	12	60	24
GA	17	23	37	18	5
IL	0	1	12	65	22
IN	0	3	20	68	9
IA	2	26	49	22	1
KS	0	0	17	53	30
KY	0	6	57	36	1
MI	2	8	20	50	20
MN	20	44	27	8	1
MO	0	16	43	41	0
NE	0	8	22	64	6
NC	16	44	33	7	0
OH	1	5	24	49	21
PA	4	10	35	36	15
SD	4	19	43	30	4
TX	0	4	21	55	20
WI	2	13	53	29	3
17 State	3	15	30	43	9
Prev Week	3	13	31	44	9
Prev Year	1	3	18	57	21

SORGHUM

State	VP	P	F	G	EX
AR	0	19	46	35	0
CO	5	7	25	58	5
IL	0	0	27	69	4
KS	0	2	32	36	30
LA	0	5	48	39	8
MS	0	12	47	41	0
MO	0	17	57	24	2
NE	0	16	41	41	2
NM	1	11	49	39	0
OK	0	0	20	80	0
SD	6	7	48	30	9
TX	0	7	27	57	9
12 State	0	8	34	46	12
Prev Week	1	8	34	46	11
Prev Year	0	2	20	59	19

COTTON

State	VP	P	F	G	EX
AL	0	16	38	46	0
AZ	0	0	10	85	5
AR	0	0	44	56	0
CA	0	0	0	95	5
GA	4	24	54	9	9
LA	0	0	49	51	0
MS	0	12	79	9	0
MO	0	9	73	18	0
NM	0	0	38	62	0
NC	2	9	57	26	6
OK	0	0	4	69	27
SC	4	63	33	0	0
TN	0	0	34	66	0
TX	0	2	34	51	13
14 State	0	5	38	50	7
Prev Week	2	6	38	47	7
Prev Year	3	9	37	45	6

SOYBEANS

State	VP	P	F	G	EX
AL	0	14	52	34	0
AR	4	8	68	20	0
GA	14	43	29	14	0
IL	0	1	18	73	8
IN	0	2	19	71	8
IA	2	17	58	22	1
KS	0	4	27	47	22
KY	0	2	48	49	1
LA	0	5	53	37	5
MI	1	4	25	50	20
MN	13	42	38	6	1
MS	0	15	65	20	0
MO	2	15	49	33	1
NE	0	2	32	65	1
NC	3	15	62	19	1
OH	1	5	24	49	21
SC	10	39	45	6	0
SD	3	27	43	26	1
TN	0	3	57	38	2
19 State	3	13	39	40	5
Prev Week	2	14	39	39	6
Prev Year	0	2	24	61	13

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 1.21 to 5.66 in. north; 1.00 to 5.44 in. central; 0.90 to 4.60 in. south. Temperatures 1 to 5° below normal north; 4° below normal to 1° above normal central; 3° below normal to 2° above normal south. Lows 60 to 68° north; 63 to 70° central; 66 to 73° south. Highs 88 to 95° north, central; 90 to 95° south.

Days suitable for fieldwork 4.9. Soil moisture 43% short, 55% adequate, 2% surplus. Corn dented 76%, 90% 1992, 91% avg.; mature 42%, 64% 1992, 67% avg.; harvested 12%, 21% 1992, 34% avg.; 18% very poor, 31% poor, 37% fair, 14% good. Sorghum harvested 6%, 2% 1992, 12% avg.; 10% poor, 57% fair, 33% good. Peanuts pegged 91%, 100% 1992, 100% avg.; 69% fair, 31% good. Pasture 6% very poor, 24% poor, 56% fair, 14% good. Primary activities: Cultivating, spraying fields, harvesting vegetables, corn, general care of livestock, poultry, catfish.

ALASKA: Warm weather with light scattered showers blanketed most of the State.

Days suitable for fieldwork 3. Topsoil 70% short, 30% adequate. Subsoil 80% short, 20% adequate. Most barley, oats 65% turned color, some small grains beginning to ripen. Barley 10% poor, 30% fair, 50% good, 10% excellent. Potatoes 10% fair, 80% good, 10% excellent.

ARIZONA: Thunderstorms 1st, central, southeast; 2nd, central; 3rd, north, east; 4th, north, central; 5th central, east; 6th south, central; 7th, south central. Temperatures 1 to 5° above normal. Extremes 48°; 104° higher elevations; 66°; 119° deserts.

Cotton setting bolls 100%, 100% 1992, 99% avg.; open bolls 28%, 23% 1992, 25% avg. Activities included: Irrigating, pesticide applications, pest monitoring, defoliating. Cotton 10% fair, 85% good, 5% excellent. Weeds mostly light, insects moderate. Whitefly, aphids increasing west. Alfalfa mostly good. Harvest active west, central; moderate south central, east. Weeds light to moderate, insects moderate; disease light. Cantaloupe, honeydews, watermelons, harvested. Cabbage, apples, peaches harvested eastern areas.

ARKANSAS: Cool week, temperatures little below normal. Scattered showers, thunderstorms occurred, heaviest in southern region of State. Extremes 53°; 101°. Rainfall 0.56 to 7.76 in.

Days suitable for fieldwork 6. Moderate crop growth. Soil moisture 62% short, 35% adequate, 3% surplus. Cotton, soybeans cultivations continued. Boll weevil, aphids in cotton fields. Earworm infestation reported in soybeans. Sheath blast reported in rice. Corn, cotton, soybeans irrigation continued. Corn 2% very poor, 55% fair, 43% good. Temperatures eased stress in poultry. Hay cuttings continued. Producers fertilized to pastures. Pastures good, some producers continued to feed hay. Livestock good, external parasites some areas.

CALIFORNIA: Strong high pressure brought very warm weather, but weakened by middle of week for return to cooler temperatures.

Field activities progressed rapidly. Small grain harvest complete most areas. Producers baling straw, preparing ground second crop seedings. Corn silage planted on harvested small grain acres scattered areas. Early varieties rice heading out, top dressing finishing up. Cooler temperatures reduced heat stress rice crop. Cotton good development, irrigated, sprayed lygus, mites. Seed alfalfa harvested southern areas. Corn irrigated, treated mites. Safflower harvest underway. Sugarbeets harvested, new crop thinned, weeded, sprayed worms, leaf hoppers some areas. Alfalfa, sudan cut hay. Picking summer fruit active. Nectarine harvest 72% complete, freestone peaches 77% complete, plums 57%. Cling peach harvest active Modesto, Yuba City\Marysville. Grape Growers treating vines for mildew, mites, leaf hoppers, worms. Wine grape harvest starting. Table grape harvest active. Bartlett pear harvest active Sacramento Valley, 46% harvested. Good fruit quality. Asian pears, Gala apples being harvested, packed. Growers preparing fig, almond orchards for harvest, some early almond varieties being harvested. Walnuts

progressing normally. Orchards being sprayed to control mites, codling moth, navel orange worm. Prune harvest underway. Broccoli harvest moderate; cauliflower harvest light; central coast. Celery harvest fairly heavy to heavy central coast. Sweet corn harvest continued Fresno, Tulare counties. San Benito garlic harvest mid-season. Harvest of head lettuce moderate, central coast; fairly light, San Benito. Fresh market tomato harvest progressed central valleys, central coast areas. Processing tomato harvest increased. Harvest of watermelons, cantaloupe, honeydew, other melons active central valleys, central westside area. Red onion harvest ending in San Benito county, yellow onion harvest in full swing. Bell pepper harvest continued Fresno, Merced counties. San Benito bell pepper harvest began. Other crops harvested included cucumbers, eggplant, green beans, squash, other miscellaneous vegetables. Range, pasture conditions still fair to good. Upper elevations drying rapidly, hot weather. Water supply normal. Some livestock moved irrigated pastures. Bees still active melon fields, pulled from seed fields in preparation for harvest.

COLORADO: Southwest flow aloft continued which brought moisture to all areas of State. Scattered afternoon showers, thunderstorms were found over all river basins. Arkansas River Basin received the most precipitation 9.43 in. Temperatures below normal for all of the basins. The Kansas River Basin, which was the coolest basin, about 6° below normal.

Days suitable for fieldwork 5.3. Soil moisture 17% very short, 43% short, 33% adequate, 7% surplus. Alfalfa 2nd cutting 67%, 47% 1992, 54% avg. Spring barley harvested 41%, 36% 1992, 44% avg. Oats harvested 34%, 50% 1992, 47% avg. Dry beans flowering 74%, 54% 1992, 64% avg. Corn silking 75%, 63% 1992, 71% avg. Sorghum headed 38%, 7% 1992, 18% avg. Winter wheat harvested 94%, 94% 1992, 94% avg. Summer potatoes harvested 21%, 11% 1992, 10% avg. Dry onion harvested 8%, 2% 1992, 3% avg. Summer potato 10% fair, 49% good, 41% excellent. Fall potato 10% poor, 20% fair, 47% good, 23% excellent. Dry onion 1% very poor, 3% poor, 14% fair, 64% good, 18% excellent. Corn 1% very poor, 3% poor, 12% fair, 60% good, 24% excellent. Sugarbeets 5% poor, 9% fair, 58% good, 28% excellent. Livestock mostly good to excellent. Pasture, range feed condition remained the same as last week, mostly fair.

FLORIDA: Temperatures 1 to 2° above normal northern areas, 2 to 5° above normal, Peninsula. Highs mostly mid or upper 90s, except low 90s lower southeast coast. Lows generally upper 60s to low 70s, except mid 70s to near 80° lower southeast coast. Rain over Panhandle, widespread, frequent 1.00 to locally 3.00 in. common, rain 3 to 5 days. Showers, thunderstorms more scattered remainder of State. Most rain amounts under 1.00 in., isolated totals exceeding 1.00 in.

Soil levels short several Panhandle counties, adequate elsewhere. Tobacco harvesting, marketing active. Corn silage cutting active. Cutting, bailing hay active, behind schedule. Cotton, peanuts, soybeans, sugarcane making good progress. Green peanuts being harvested. Citrus groves, trees hot, dry. Irrigation active many areas, some non-irrigated trees showing wilt. Fruit in irrigated, well cared for groves good. Abundant new growth. Caretakers cutting cover crops, few sprays, fertilizations continue. Soil moisture short to adequate Peninsula, short to surplus north. Growers continued land preparation, laying plastic for fall crop north, central, coastal vegetable production areas. Planting active north. East coast transplanting eggplant, peppers, tomatoes. Transplanting fall tomatoes continued north. Pastures fair to excellent. Scattered showers covering some areas. Pasture 55% fair, 30% good, 15% excellent. Cattle herds fair to excellent.

GEORGIA: Temperatures 2 to 4° above normal east central, southeast sections, 1 to 3° below normal over rest of State. Augusta, high of 101° on 2nd, only 100° plus temperature. Extreme highs low to mid 90s, some upper 90s southeast, 101° at Augusta. Lows from lower 60s to near 70°. Rainfall most numerous north although many parts of

south beneficial rainfall. Generally 1.00 to 5.00 in., with Byron 5.03 in., Macon 5.34 in. Rain 2 to 4 days south, 4 to 6 days north.

Days suitable for fieldwork 5.4. Soil moisture 28% very short, 47% short, 22% adequate, 3% surplus. Corn 92% dent, 95% 1992, 93% avg.; 54% mature, 74% 1992, 72% avg.; 2% harvested for grain, 7% 1992, 14% avg.; rains slowed harvest, too late for improvement. Cotton slight improvement, too late for some. Sorghum 4% very poor, 46% poor, 41% fair, 9% good. Peanuts 3% very poor, 22% poor, 56% fair, 19% good; 99% pegging, 100% 1992, 100% avg.; cooler temperatures, improved moisture should help. Tobacco 4% very poor, 10% poor, 32% fair, 54% good; 51% harvested, 77% 1992, 70% avg.; showers more scattered, harvest active. Watermelons 96% harvested, 96% 1992, 95% avg. Other vegetables 3% very poor, 27% poor, 64% fair, 6% good. Apples 8% poor, 29% fair, 63% good; 7% harvested, 9% 1992, 18% avg. Peaches 16% very poor, 5% poor, 18% fair, 61% good; 94% harvested, 94% 1992, 96% avg. Pecans 2% very poor, 6% poor, 21% fair, 71% good. Hay 29% very poor, 51% poor, 17% fair, 3% good. Pasture 23% very poor, 40% poor, 29% fair, 8% good. Cattle 2% very poor, 5% poor, 73% fair, 19% good, 1% excellent. Hogs 4% very poor, 4% poor, 37% fair, 52% good, 3% excellent. Activities: Irrigating, spraying cotton, peanuts, harvesting tobacco, fruits, vegetables, caring for livestock, poultry.

HAWAII: Warm, sunny weather. Fog conditions prompted no-burning ban for areas of island. Rainfall none to 2.10 in. Temperature low 60s to high 90s.

Weather favorable for orchard crops. Soil moisture levels ample; other areas irrigated. Spraying controls for pest increased with warm summer. Banana orchards on Oahu, Kauai that were hit by Iniki have experienced slow recovery, light production. Papaya picking still at seasonally high levels. Molokai watermelon supply moderate.

IDAHO: Temperatures 3° above to 7° below normal. Precipitation none to 0.33 in. north; none southwest; none south central; none to 0.50 in. east.

Days suitable for fieldwork 7. Soil moisture 5% short, 93% adequate, 2% surplus. Winter wheat 6% harvested, 82% turning color, 12% headed. Spring wheat 1% not yet booted, 1% booted, 51% headed, 46% turning color, 1% harvested. Spring barley 1% not yet booted, 1% booted, 45% headed, 51% turning color, 2% harvested. Oats harvested 9%, 46% 1992, 29% avg. Potatoes not yet 12" high 2%, 12" high 21%, closing middles 76%, turning 1%. Potatoes 2% poor, 21% fair, 68% good, 9% excellent. Alfalfa first cutting 99%, 100% 1992, 100% avg. Alfalfa second cutting 47%, 78% 1992, 68% avg. Cherries harvested 100%, 100% 1992, 100% avg. Peaches harvested 20%, 77% 1992, NA avg. Mint first cutting 54%, 85% 1992, 63% avg. Irrigation water supplies 9% fair, 70% good, 21% excellent. Activities: Haying, winter wheat, rapeseed harvest, fertilizing sugarbeets, spraying potatoes for blight, preparation for Shepody potato harvest southwest. Landslides around Bliss forced irrigation repair from Bliss to Bruneau. Bingham, Power, Minidoka counties reported a large amount of brown spot, hollow heart in potatoes. Pasture, range 93% of normal. Livestock good to excellent.

ILLINOIS: Cool, dry weather, temperatures 4 to 8° below normal. Highs mid 70s; mid 80s. Lows low 50s; low 60s. Precipitation was lightest west, greatest east, where 0.50 to 0.75 in. were noted.

Days suitable for fieldwork 4.75. Cooler weather slowed development of both corn, beans, while other crops still good condition. Levee breaks along the Mississippi, Illinois Rivers resulted in increasing flooded acreages. Soil moisture as of 6th 2% short, 62% adequate, 36% surplus. Farmers harvested oats, baled hay, straw, sprayed, mowed, sandbagged, tended livestock.

INDIANA: Temperatures upper 70s to lower 80s north to around 80° south. Temperatures mostly 3 to 7° below normal. Lows 50s except near 60° far southwest. Lows mostly 4 to 9° below normal. Rainfall mostly under 0.50 in. except up to 0.90 in. far northwest.

Days suitable for fieldwork 6. Dry conditions continue. Pastures 87% of normal, 90% last week. Topsoil 49% short, 50% adequate, 1% surplus. Subsoil 24% short, 74% adequate, 2% surplus. Oats harvested 89%, 69% 1992, 84% avg. Alfalfa hay 2nd cutting 92%, 77% 1992, 75% avg.

IOWA: Temperatures 6 to 8° below normal southeast. Extremes 46°, 85°. Precipitation none northwest to 1.44 in. west central; average 0.45 in. (normal 0.94 in.). Coolest week in 9 weeks, driest in 19 weeks.

Days suitable for fieldwork 4.5. Topsoil 1% short, 46% adequate, 53% surplus. Subsoil 14% adequate, 86% surplus. Corn tasseled 72%, 100% 1992, 100% normal; in or past milk stage 8%, 42% 1992, 60% normal. Soybean cultivated for the first time 72%, 100% 1992, 100% normal. Oat harvested 69%, 83% 1992, 95% normal. Second crop alfalfa hay harvested 57%, 81% 1992, 94% normal. First crop clover hay harvested 92%, 100% 1992, 100% normal. Second crop clover hay harvested 22%, 59% 1992, 77% normal. Winter wheat harvested 70%, 86% 1992, 97% normal. Oat 19% very poor, 46% poor, 31% fair, 4% good. Pasture 2% very poor, 6% poor, 30% fair, 50% good, 12% excellent. Hay 5% very poor, 32% poor, 41% fair, 20% good, 2% excellent. Weather this week has been good for livestock as the muddy lots begin to dry. Cool temperature last week raised concerns about an early frost. Many are also worried about the very low hay quality harvested this week, whether the hay will last through the winter.

KANSAS: Temperatures 6 to 8° below normal. Precipitation received all districts, 0.42 in. northeast, to 2.11 in. south central.

Days suitable for fieldwork 4.0. Topsoil 10% short, 64% adequate, 26% surplus. Subsurface 1% short, 74% adequate, 25% surplus. Wheat harvested 96%, 100% 1992, 100% avg. Quality of wheat continues to decline. Corn silking slightly ahead of last year, on par with average. Light, moderate infestations European, southwestern corn borer in southwest, south central areas. Light, moderate infestations armyworms in sorghum beginning to appear south central, southeast. Soybeans made good progress. Acreage blooming 80%, 75% avg. Third cutting alfalfa 35%, 65% avg. Virtually no fourth cutting yet. Pastures mostly good to excellent.

KENTUCKY: Temperatures 3 to 5° below normal, lower, mid 80s most days. Coolest day 6th when highs only in 70s. Temperatures 4 to 6° below normal. Rainfall around 0.50 in. over west, 1.00 to 2.00 in. southeast. Greatest amounts fell 2nd, widespread rain also 4th, 6th.

Days suitable for fieldwork 5.1. Soil moisture 28% very short, 49% short, 22% adequate, 1% surplus. Most areas received rain in highly variable amounts. Condition of crops declining. Tobacco 14% poor, 56% fair, 27% good, 3% excellent. Dry weather, black shank leading causes burley tobacco deterioration. Nearly 50% burley topped, behind 67% 1992, near avg. Cutting burley, dark tobacco 5% complete. Hay crops also declining, overall condition poor to good. Pastures fair.

LOUISIANA: Temperatures 0.1° below to 1.8° above normal. Extremes 69°, 101°. Rainfall 0.48 in. southwest to 3.64 in. northwest.

Days suitable for fieldwork 5.2. Soil moisture 5% very short, 31% short, 56% adequate, 8% surplus. Corn 2% poor, 52% fair, 46% good; 95% dough stage, 100% 1992, 100% avg.; 66% mature, 87% 1992, 83% avg.; 6% harvested, 15% 1992, 19% avg. Harvest active in some fields in the south, yields reported lower than average. Hay 19% final cutting, 49% 1992, 19% avg. Final cutting in full swing. Peaches 78% harvested, 98% 1992, 96% avg. Rice 28% ripe, 47% 1992, 34% avg. Harvest active in south. Sorghum 4% ripe, 35% 1992, 21% avg.; 0% harvested, 3% 1992, 3% avg. Sorghum midge, headworm treated in some fields. Soybeans 100% emerged, 100% 1992, 100% avg. Sweet potatoes 13% poor, 18% fair, 69% good; 100% planted, 100% 1992, 100% avg.; 1% harvested, 12% 1992, 8% avg. Harvest began in Evangeline parish. Sugarcane 1% poor, 4% fair, 85% good, 10% excellent. Land preparation for planting, borer treatment active. Livestock 21% fair, 71% good, 8% excellent. Pastures 1% very poor, 3% poor, 5% fair, 87% good, 4% excellent. Vegetables 13% poor, 50% fair, 37% good. Land preparation for fall plantings continues.

MARYLAND & DELAWARE: MARYLAND: Precipitation 1.96 in. Temperature 76.2°, normal 75.8°. Extremes 52°, 98°.

Days suitable for fieldwork 5.3. Topsoil 72% very short to short, 52% adequate to surplus. Subsoil 72% very short to short, 28% adequate. Corn mostly poor to fair; 87% silked, 84% 1992, 87% avg.; 46% dough, 29% 1992, 41% avg.; 13% dent, 13% 1992, 17% avg.; few acres harvested for silage. Soybean poor to mostly fair, 62% bloomed, 63% 1992, 59% avg.; 25% setting pods, 21% 1992, 61% avg.; 19% topped, 41% 1992, 36% avg.; few acres harvested. Pasture very poor

condition, improving; hay supplies short to mostly adequate, many fields will not be cut again. Alfalfa hay remaining 75% third cut, 39% 1992, 53% avg. Cantaloupes 72% harvested, 46% 1992, 63% avg. Potatoes 55% harvested, 50% 1992, 57% avg. Tomatoes 67% harvested, 32% 1992, 53% avg. Peaches, apples fair to mostly good; peaches 35% picked, 30% 1992, 41% avg. Apples 3% harvested, 4% 1992, 8% avg.

DELAWARE: Precipitation 1.00 in. Temperature 77.4°, normal 76.4°. Extremes 61°, 96°.

Days suitable for fieldwork 6.0. Topsoil 14% very short, 57% short, 29% adequate. Subsoil 17% very short, 66% short, 17% adequate. Corn mostly poor to fair; 24% dough, 21% 1992, 32% avg.; 9% dent, 3% 1992, 8% avg. Small amount harvested for silage. Soybeans poor to fair; 42% bloomed, 62% 1992, 56% avg.; 10% setting pods, 11% 1992, 10% avg. Sorghum fair, 18% headed, 36% 1992. Alfalfa hay 34% third cut, 54% 1992, 54% avg. Other hay 89% second cut, 86% 1992, 87% avg.; 21% third cut, 3% 1992, 22% avg. Pasture condition non existence to very poor; hay supplies short. Sweet corn 70% harvested, 55% 1992, 56% avg. Cantaloupes 62% harvested, 41% 1992, 62% avg. Watermelons 42% harvested, 30% 1992, 36% avg. Potatoes 36% harvested, 46% 1992, 44% avg. Tomatoes 49% harvested, 15% 1992, 33% avg. Peaches, apples fair to mostly good; peaches 46% harvested, 30% 1992, 61% avg. Apples 16% harvested, 4% 1992, 10% avg.

MICHIGAN: Extremes 37°, 89°. Precipitation 0.17 to 2.94 inches.

Days suitable for fieldwork 6.0. Soil moisture 35% short, 60% adequate, 5% surplus. Dry beans 85% blooming, 50% 1992, 70% avg.; 30% setting pods, 15% 1992, 25% avg.; 2% very poor, 8% poor, 30% fair, 45% good, 15% excellent. Oats 100% turning, 70% 1992, 95% avg.; 60% ripe, 25% 1992, 70% avg.; 25% harvested, 5% 1992, 45% avg.; 2% very poor, 8% poor, 30% fair, 45% good, 15% excellent. Potatoes 35% harvested, 15% 1992, 15% avg. Hay 65% second cutting, 55% 1992, 65% avg.; 3% very poor, 7% poor, 25% fair, 45% good, 20% excellent. Pasture 85% of normal. Major activities: Harvesting tart cherries, hay, oats, wheat, various vegetables, irrigating, picking fruit.

MINNESOTA: Temperatures 5° below normal to 10° below normal. Extremes 40°, 85°. Precipitation 0.55 in. below normal to 0.79 in. above normal. Precipitation 0.05 to 1.39 inches. Greatest precipitation 2.60 in.

Days suitable for fieldwork 4.4. Topsoil 1% short, 46% adequate, 53% surplus. Spring wheat 87% turning ripe, 73% 1992, 94% avg.; 6% cut/swathed, 7% 1992, 57% avg.; 4% combined, 1% 1992, 40% avg. Oats 93% turning ripe, 92% 1992, 98% avg.; 23% cut/swathed, 44% 1992, 82% avg.; 19% combined, 19% 1992, 66% avg. Barley 91% turning ripe, 79% 1992, 95% avg.; 8% cut/swathed, 19% 1992, 78% avg.; 5% combined, 8% 1992, 65% avg. Corn 51% tasseled, 90% 1992, 96% avg.; 7% milk, 16% 1992, 57% avg.; 0% dough, 1% 1992, 13% avg. Soybeans 58% blooming, 56% 1992, 88% avg.; 21% setting pods, 43% 1992, 68% avg. Spring wheat 6% very poor, 16% poor, 46% fair, 31% good, 1% excellent. Oats 4% very poor, 15% poor, 38% fair, 39% good, 4% excellent. Barley 11% poor, 38% fair, 47% good, 4% excellent. Corn 20% very poor, 44% poor, 27% fair, 8% good, 1% excellent. Soybeans 13% very poor, 42% poor, 38% fair, 6% good, 1% excellent.

MISSISSIPPI: Temperatures 79°, 1.6° below normal. Extremes 58°, 100°. Entire State experienced over 1.50 in. rainfall, average 3.21 in., 2.27 in. above normal. Soil temperatures 84°.

Days suitable for fieldwork 4.0, 3.4 1992, 5.1 avg. Soil moisture 25% short, 39% adequate, 22% surplus, 14% excessive. Corn 96% silked, 100% 1992, 100% avg.; 74% dough, 96% 1992, 87% avg.; 48% dent, 81% 1992, 68% avg.; 13% mature, 45% 1992, 35% avg.; 18% silage harvested, 42% 1992, 45% avg.; 7% harvested, 7% 1992, 5% avg.; 13% poor, 45% fair, 41% good, 1% excellent. Cotton 92% setting bolls, 98% 1992, 94% avg.; 1% open bolls, 1% 1992, 2% avg.; 12% poor, 79% fair, 9% good. Rice 45% heading, 79% 1992, 65% avg.; 1% harvested, 0% 1992, 0% avg.; 16% poor, 47% fair, 37% good. Sorghum 74% heading, 95% 1992, 89% avg.; 39% turning color, 61% 1992, 48% avg.; 10% mature, 18% 1992, 17% avg.; 8% silage harvested, 35% 1992, 29% avg.; 12% poor, 47% fair,

41% good. Soybeans 59% blooming, 81% 1992, 65% avg.; 26% podding, 56% 1992, 38% avg.; 1% coloring, 5% 1992, 2% avg.; 15% poor, 65% fair, 20% good. Sweet potatoes 20% poor, 40% fair, 40% good. Watermelons 61% harvested, 94% 1992, 84% avg.; 11% very poor, 11% poor, 45% fair, 33% good. Hay 75% harvested, 78% 1992, 69% avg. Peaches 90% harvested, 95% 1992, 96% avg.; 16% poor, 47% fair, 37% good. Livestock 3% fair, 89% good, 8% excellent. Pasture 87% of normal. Activities: Insect control.

MISSOURI: Temperatures 3 to 8° below normal, warmest east central, southeast. Rainfall 0.56 in., all districts well under 1.00 in. except southwest 2.16 in.

Days suitable for fieldwork 4.6, ranging 3.5 northeast to 6.3 southeast. Topsoil 13% short, 53% adequate, 34% surplus, northern third over 50% surplus, majority of south central, southeast short. Corn tasseling 90%, 100% 1992, 98% avg. Corn dough stage less than 25% north central, northeast, west central, central, to 91% southeast. Soybean podding 25% southwest to 43% southeast. Oats harvested 87%, 91% 1992, 98% avg. Wheat harvest 83% northwest to 94% or above all other districts. Some wheat abandoned due to poor quality, extreme weediness. Second crop alfalfa 83%, 89% 1992, 96% avg. Other hay 82%, 91% 1992, 94% avg. Pasture 5% poor, 18% fair, 58% good, 19% excellent.

MONTANA: Temperatures 4 to 7° below normal west, 5 to 9° below normal east. Light precipitation statewide.

Days suitable for fieldwork slightly over 5.5. Topsoil 6% short, 82% adequate, 12% surplus. Subsoil 7% short, 84% adequate, 9% surplus. Winter wheat 1% very poor, 4% poor, 15% fair, 53% good, 27% excellent. Barley 2% poor, 12% fair, 53% good, 33% excellent. Oats 1% poor, 13% fair, 48% good, 38% excellent. Sugarbeets 7% fair, 66% good, 27% excellent. First cutting alfalfa hay 83% complete, 96% 1992, 99% avg. Second cutting alfalfa hay 7% complete, 22% 1992, 46% avg. Other hay 58% complete, 84% 1992, 85% avg. Pasture, range feed 103% of normal, up 1 point from last week.

NEBRASKA: Temperatures 7 to 11° below normals. Scattered precipitation 0.10 in. east to 1.57 in. southwest.

Days suitable for fieldwork 5.5. Topsoil 3% short, 75% adequate, 22% surplus. Subsoil 67% adequate, 33% surplus. Winter wheat 91% harvested, 90% 1992, 99% avg. Corn 8% poor, 22% fair, 64% good, 6% excellent; 84% silked, 92% 1992, 96% avg.; 13% dough, 22% 1992, 35% avg. Soybeans 2% poor, 32% fair, 65% good, 1% excellent; 78% blooming, 83% 1992, 95% avg.; 25% pods set, 45% 1992, 53% avg. Sorghum 16% poor, 41% fair, 41% good, 2% excellent; 18% headed, 31% 1992, 55% avg. Dry beans 4% poor, 21% fair, 75% good; 84% blooming; 41% setting pods. Alfalfa 4% poor, 25% fair, 62% good, 9% excellent; second cutting 88% harvested, 100% 1992, 98% avg.; third cutting 4% harvested, 18% 1992. Wild hay 1% poor, 21% fair, 47% good, 31% excellent. Pasture, range 103% of normal.

NEVADA: High pressure system dominated first of week with very high temperatures. Mid week brought scattered showers, thunderstorms, locally heavy south. Temperatures above normal in all areas.

Irrigation water supplies 15% short, 85% adequate. Progress most crops 7 to 10 days behind normal. Winter wheat 5% harvested, 65% 1992, 50% avg. Spring wheat 5% harvested, 20% 1992, 30% avg. Barley 30% harvested, 40% 1992, 35% avg. Second cutting alfalfa hay 55% complete, 65% 1992, 60% avg. Pasture, range good statewide, stockwater adequate.

NEW ENGLAND: Precipitation none to 1.05 in. region. Temperatures 64 to 71° north; 65 to 75° south. Maximum temperatures 84 to 90° north; 84 to 92° south. Minimum temperatures 44 to 54° north; 43 to 55° south.

Days suitable for field work 6.2. Soil moisture 15% very short, 43% short, 42% adequate. Available grazing 14% very short, 50% short, 36% adequate. Fieldwork progress 1 to 2 days behind schedule. Pasture 55% of normal. Maine early potato harvest less than 1%. Massachusetts, Rhode Island potatoes 5% harvested. Potato good regionwide. Maine oat fair. Field corn fair. Second cutting hay 45% harvested, 47% 1992, 48% avg.; fair. Third cutting hay 5% harvested, 3% 1992, 7% avg. Shade tobacco 50% harvested, good. Outdoor tobacco 30% harvested, fair to good. Sweet corn harvested 30%, 24%

1992, 29% avg.; fair. Apples less than 5% harvested, size medium, color fair, good to fair. Peaches 10% harvested, size medium, good to fair. Pears less than 5% harvested, size medium to small, good. Raspberries 70% harvested, size medium, good to excellent. Highbush blueberries 60% harvested, size medium, good. Maine wild blueberries fair to good. Cranberries size medium, good to excellent. Major farm activities: Applying herbicides, insecticides, fungicides as needed. Harvesting second cutting of hay continues. Early varieties of potatoes, apples being harvested. Harvesting small fruits. Harvesting tobacco. Picking vegetables for roadside markets.

NEW JERSEY: Temperatures near normal. Extremes 46°; 96°. Rainfall 0.86 in. north, 1.93 in. central, 1.33 in. south. Heaviest 24 hour total 2.00 in. on 6th, 7th. Estimated soil moisture, in percent field capacity 38% north, 58% central, 41% south. Four inch soil temperatures 72° north, 74° central, 75° south.

Soil moisture content short to adequate. Recent rainfall been beneficial to all crops. Harvesting, planting of crops active. Spraying of pesticides also active. Eggplant, peppers (of all types), squash (of all types), tomatoes available in good supply. Moderate supply of cucumbers, beans, cantaloupe, corn, watermelon are available. Light volume of beets, cabbage, green onions, greens, leeks, okras, parsley also available. Blueberry harvest declining. Peach harvest general with mostly Loring variety being harvested. Pasture conditions are improved since recent rains.

NEW MEXICO: Temperatures 2° below normal in east, near normal in west. Extremes 41°; 103°. Some precipitation fell just about everywhere except extreme northwest. Several areas around the State 3.00 in. to nearly 5.00 in.

Days suitable for fieldwork 6.1. Soil moisture 70% short, 30% adequate. Crop conditions: Alfalfa 4% poor, 32% fair, 57% good, 7% excellent. Corn 12% fair, 76% good, 12% excellent. Chile 9% very poor, 27% fair, 55% good, 9% excellent with green harvest started. Onion harvest declining, remaining crop in good shape. Apples 9% poor, 46% fair, 55% good. Pecans 20% fair, 80% good. Cattle, sheep poor to good. Range, pasture 70% of normal.

NEW YORK: Precipitation close to normal most locations. Rainfall 0.50 to just over 1.00 in. Greatest amounts were in west, least from Glens Falls north through Champlain Valley to Canadian border. Temperatures near normal. Extremes 43°; 95°.

Days suitable for fieldwork 5.3. Soil moisture short to adequate. Very short in some areas. Corn poor to good. Most has tasseled. Much variability in plant height in fields. Hay fair to good. Second cuttings continue. Some third cuttings. Second cuttings alfalfa 72% done, 54% 1992, 61% avg. Wheat harvest winding down: 95% complete, 71% 1992, 81% avg. Oat harvest continues: 40% done, 17% 1992, 31% avg. Potatoes, dry beans good. Cabbage, celery, sweet corn, snap beans, onion harvests in full swing, good yields reported. Green pea harvest ended.

NORTH CAROLINA: Temperatures 2° below normal to 1° above normal. Precipitation 2.63 in. at Asheville to 0.02 in. at Reidsville.

Days suitable for fieldwork 6.0. Soil moisture 24% very short, 47% short, 29% adequate. Crop condition: Pasture 9% very poor, 42% poor, 38% fair, 11% good. Field tobacco 10% poor, 62% fair, 28% good. Irish potatoes 7% very poor, 21% poor, 72% fair. Corn 16% very poor, 44% poor, 33% fair, 7% good. Hay 8% very poor, 40% poor, 42% fair, 10% good. Peaches 48% fair, 48% good 4% excellent. Truck crops 5% very poor, 22% poor, 54% fair, 19% good. Cotton 2% very poor, 9% poor, 57% fair, 26% good, 6% excellent. Peanuts 10% poor, 48% fair, 42% good. Soybeans 3% very poor, 15% poor, 62% fair, 19% good, 1% excellent. Sweet potatoes 8% poor, 44% fair, 45% good, 3% excellent. Apples 12% fair, 69% poor, 19% good; sorghum 5% very poor, 28% poor, 51% fair, 13% good, 3% excellent. Hay, roughage supplies 4% very short, 40% short, 55% adequate, 1% surplus. Peaches harvested 80%, 83% 1992, 82% avg. Flue cured tobacco harvested 22%, 36% 1992, 32% avg. Corn for silage harvested 16%, 12% 1992, 17% avg. Cotton squared 96%, 88% 1992, 95% avg.; setting bolls 88%, 67% 1992, 81% avg. Corn silked 97%, 95% 1992, 98% avg.; soft dough 79%, 76% 1992, 82% avg.; dented 55%, 52% 1992, 58% avg. Soybeans flowered 50%,

47% 1992, 47% avg.; setting pods 19%, 19% 1992, 21% avg. Second cutting hay 61% completed. Third cutting hay 25% completed. Major activities: Irrigating crops, topping, suckering, harvesting tobacco. Other activities included: Scouting cotton, peanuts; harvesting vegetables, fruits; cutting hay; harvesting corn for silage; tending livestock; general farm maintenance.

NORTH DAKOTA: Another week of below normal temperatures, however by 7th a warming trend began. Precipitation 0.06 in. in the north central to 0.22 in. in the northwest. Temperatures 8 to 10° below normal. Extremes 39° northwest, southwest; 89° south central.

Days suitable for fieldwork 6.5. Topsoil 73% adequate, 27% surplus. Subsoil 70% adequate, 30% surplus. Small grains mostly good, stem, leaf, head diseases a concern. Spring wheat 22% fair, 66% good, 12% excellent; durum 3% poor, 10% fair, 73% good, 14% excellent; barley 16% fair, 70% good, 14% excellent; oats 11% fair, 77% good, 12% excellent; winter wheat 9% poor, 22% fair, 59% good, 10% excellent. Hard red spring wheat 1% swathed or combined, 5% 1992, 54% avg. Durum wheat none swathed or combined, 1% 1992, 34% avg. Oats 4% swathed or combined, 13% 1992, 62% avg. Barley 9% swathed or combined, 17% 1992, 71% avg. Winter wheat 24% swathed or combined, 51% 1992, 87% avg. Late season crop development still behind average, conditions started to improve with warm weather, except for potatoes. Corn 18% very poor, 46% poor, 29% fair, 7% good; flax 4% poor, 18% fair, 63% good, 15% excellent; sugarbeets 21% poor, 62% fair, 17% good; potatoes 28% poor, 44% fair, 28% good; dry beans 3% very poor, 31% poor, 48% fair, 18% good; soybeans 15% very poor, 42% poor, 43% fair; sunflowers 21% poor, 62% fair, 17% good. Flax 7% turning and beyond, 19% 1992, 46% avg.; dry beans 1% fully podded and beyond, 3% 1992, 42% avg.; soybeans 1% fully podded and beyond, none 1992, 35% avg.; potatoes 84% rows filled and beyond, 65% 1992, 72% avg.; corn 0% milk to dough and beyond, 3% 1992, 38% avg.; sunflowers 15% blooming and beyond, 24% 1992, 63% avg. Range, pasture 98% of normal. Hay 74% of normal. Alfalfa hay first cutting 85% complete, second cutting 22%, other hay 48%. Stockwater supplies 79% adequate, 21% surplus.

OHIO: Cool, dry high pressure dominated most of the period, reversing pattern of weather experienced thus far this summer. Some rain fell most areas from weak storm systems but amounts were light. Temperatures 3 to 6° below normal, mean readings 65 to 71°. Maximums reached mid to upper 70s to lower 80s with mean lows from the low to upper 50s. Heat stress proved minimal during the week due to the cool temperatures with extreme temperatures only in the low to mid 80s. Rain was limited with most totals light at 0.25 in. or less. Amounts lightest in the south, west with around 0.50 in. in the east.

Days suitable for fieldwork 6.4. Topsoil 61% short, 38% adequate, 1% surplus. Oats harvested 70%, 40% 1992, 72% avg. Processing tomatoes harvested 11%, 10% 1992, 4% avg. Summer apples harvested 42%, 40% 1992, 45% avg. Potatoes harvested 15%, 10% 1992, 10% avg. Alfalfa 2nd cut harvested 92%, 70% 1992, 82% avg.; other hay 73%, 46% 1992, 58% avg.; alfalfa 3rd cut harvested 18%, 14% 1992, 20% avg.; other hay 4%, 4% 1992. Oats 5% very poor, 9% poor, 30% fair, 48% good, 8% excellent. Pasture 2% very poor, 11% poor, 34% fair, 44% good, 9% excellent. Hay 3% very poor, 6% poor, 33% fair, 47% good, 11% excellent. Potatoes, irrigated sweet corn, peaches good. Carrots excellent. Melons need rain. Some rot in tomatoes. Cabbage harvest has started in northern areas, cucumber harvest has slowed due to the dry weather. Japanese beetles on vegetables, powdery mildew squash, pumpkins. Most crops are in need of precipitation; some areas are critically dry.

OKLAHOMA: Temperatures 4° below normal southeast to 10° below normal north central. Rainfall 0.61 in. central to 1.56 in. west central.

Days suitable for fieldwork 5.7. Topsoil 61% short, 36% adequate, 3% surplus. Subsoil 47% short, 53% adequate. Corn 82% milk to soft, 89% 1992, 78% avg.; 10% mature, 6% 1992, 14% avg. Sorghum 20% fair, 80% good; 46% heading, 36% 1992, 50% avg.; 9% milk to soft, 8% 1992, 17% avg.; 5% mature, 0% 1992, 3% avg. Soybeans 54% flowering, 43% 1992, 54% avg.; 22% setting pods, 20% 1992, 24% avg.; 2% mature, 0% 1992, 1% avg. Peanuts 1% poor, 15% fair, 84% good; 91% pegging, 84% 1992, 88% avg.; 68% setting pods, 38% 1992, 50% avg. Cotton 4% fair, 69% good, 27% excellent; 86% setting bolls,

26% 1992, 62% avg. Alfalfa 84% 3rd cut, 70% 1992, 87% avg.; 6% 4th cut, 3% 1992, 12% avg. Pastures 92% of normal. Cattle prices higher. Marketings average.

OREGON: Temperatures western areas 6° above normal, eastern areas 5° above normal. Precipitation little or no rainfall received.

Soil moisture 16% short, 83% adequate, 1% surplus. Wheat 37% harvested. Barley 30% harvested. Grain harvest full swing. Grass seed harvest full swing, Willamette Valley. Willamette Valley grass seed, grain crops heavily damaged, sprouting. Hay harvest continued, second, third cuttings. Mint harvest 2 to 4 weeks off, excellent prospects. Willamette Valley snap beans, early sweet corn, cauliflower harvests continued. Columbia Basin early potato, onion harvest continued, watermelon harvest continued. Warmth improved Malheur County potato, onion crops, still well behind normal development. Cranberry fruit sizing normal above normal, showing red blush on surface fruit, some malformation from poor pollination; southern coast. Raspberry harvest complete, late variety blackberry harvest continued, blueberry harvest ending, peach harvest continued, Gravenstein apple harvest started, hazelnuts sizing well Willamette Valley. Peach harvest continued, southwestern valley. Bartlett pear harvest expected near 20th. Livestock good to excellent. Klamath Basin yearling calf movement from irrigated pastures to feedlots underway. Range, pastures above normal, 111% of normal.

PENNSYLVANIA: Warm beginning of week, cool at end. Near normal precipitation. Temperatures 2 to 73° above normal. Extremes 43°, 96°. Precipitation 0.81 in., 0.05 in. below normal.

Days suitable for fieldwork 5. Soil moisture 79% short, 21% adequate. Corn 4% very poor, 10% poor, 35% fair, 36% good, 15% excellent. Soybean 4% very poor, 7% poor, 31% fair, 42% good, 16% excellent. Wheat harvest 97% complete, 70% 1992. Oats ripe 88%, 82% 1992; 56% harvested, 41% 1992. Barley harvest 96% complete, 86% 1992. Second cutting alfalfa 86% complete, 58% 1992. Third cutting alfalfa 33% complete, 11% 1992. Second cutting clover timothy 60% complete, 28% 1992. Hay 15% poor, 32% fair, 53% good. Feed from pastures severe drought. Peach harvest 25% complete, 14% 1992. Activities: Hay, filling silos; baling straw; harvesting small grains; hauling manure; caring for livestock.

PUERTO RICO: Island rainfall 0.07 in. was 1.39 in. below normal. Highest rainfall 0.63 in. Pico Del Este, 0.23 in. San Sebastian, 0.17 in. Adjuntas Aes. Highest 24 hour total 0.26 in. Pico del Este. Island temperatures 81 to 83° Coasts, 76 to 79° Interior. Extremes 52°, 96°.

SOUTH CAROLINA: Rainfall 1.30 in. Temperatures near normal to 2° above normal.

Days suitable for fieldwork 6.3. Soil moisture 35% very short, 58% short, 7% adequate. Corn very poor to poor; 95% dough, 99% 1992, 94% avg.; 63% mature, 61% 1992, 59% avg.; 12% harvested, 10% 1992, 10% avg. Sorghum poor; 15% harvested, 10% 1992, 11% avg. Tobacco poor to fair; 99% topped, 100% 1992, 100% avg.; 34% harvested, 58% 1992, 52% avg. Cantaloupes poor to fair; 80% harvested, 85% 1992, 83% avg. Watermelons poor to fair; 85% harvested, 94% 1992, 89% avg. Cucumbers poor to fair; 95% harvested, 90% 1992, N/A avg. Fall hay poor; 34% harvested, 40% 1992, 36% avg. Peaches poor to fair; 77% harvested, 78% 1992, 80% avg. Pasture poor.

SOUTH DAKOTA: Temperatures 5 to 15° below normal. Extremes 35°, 97°. Rainfall widespread light, generally none to 0.66 in. greatest amounts found in north central, southwest, southeast. Maximum 0.66 in.

Days suitable for fieldwork 5.1. Topsoil 5% short, 65% adequate, 30% surplus. Subsoil 64% adequate, 36% surplus. Winter wheat 11% fair, 65% good, 24% excellent. Rye 4% very poor, 29% fair, 50% good, 17% excellent. Oats 4% very poor, 11% poor, 28% fair, 53% good, 4% excellent. Barley 1% very poor, 5% poor, 23% fair, 62% good, 9% excellent. Flax 3% very poor, 7% poor, 25% fair, 58% good, 7% excellent. Sunflowers 3% very poor, 3% poor, 19% fair, 64% good, 11% excellent. Winter wheat harvest in full swing most areas. Yields varied, most above normal. Fields still soft in some

areas. Rust widespread some oat fields statewide, scabbing in spring wheat. Last week's sunshine improved row crop growth, continued heat, dry weather still needed. Early planted row crops good, rest of crops uneven, spotty. Farmers very concerned about first frost before row crops mature. Livestock 1% very poor, 2% fair, 59% good, 38% excellent. Pasture 100% normal. Second cutting of alfalfa made excellent progress.

TENNESSEE: Temperatures generally 2 to 7° below normal. Highs middle 80s while lows the lower 60s to around 70°. Rain amounts above normal except for the middle region of State. Memphis 3.62 in., Knoxville had 2.34 in. Nashville recorded only 0.52 in. of rain.

Days suitable for fieldwork 5.5. Soil moisture 22% very short, 52% short, 26% adequate. Corn 63% dough stage, 80% 1992, 66% avg.; 18% dent stage, 37% 1992, 32% avg.; 3% very poor, 16% poor, 62% fair, 19% good. Cotton 99% setting bolls, 97% 1992, 92% avg.; 0% open bolls, 1% 1992, 1% avg.; 34% fair, 66% good. Sorghum 87% headed, 90% 1992, 77% avg.; 8% turning color, 20% 1992, 18% avg.; 2% poor, 73% fair, 25% good. Soybeans 65% blooming, 72% 1992, 57% avg.; 25% setting pods, 37% 1992, 24% avg.; 3% poor, 57% fair, 38% good, 2% excellent. Tobacco 41% topped, 69% 1992, 51% avg.; 4% very poor, 18% poor, 63% fair, 15% good. Pastures 13% very poor, 34% poor, 45% fair, 8% good. Cattle 1% very poor, 9% poor, 48% fair, 42% good. Rain generally improved all crops. High boll worm, bud worm counts in cotton warranted more spraying. Single crop soybeans good condition. Cooler temperatures, rain facilitating good pod set, fill. Double crop bean stands are short, need more rain. Tobacco cutting started in middle. East tobacco improved slightly. Tobacco set out in May is good, many June-set fields have short, uneven stands. Black shank, premature blooming have contributed to some of the poor condition. Pastures, hay showed improvement, fall hay cutting will be short. Producers have been feeding hay for several weeks now. Cattle needed the break in temperatures, poor pastures, low water supplies still inflicting some stress.

TEXAS: Early week, cool front drifted south near Red river, remained nearly stationary rest week. Front helped trigger showers, thunderstorms over north. Temperatures quite cool north of front. However, hot, dry weather over the southern half State except for few showers over southeast. Rainfall generally above normal over north, below normal south. Below normal temperatures prevailed north, west with seasonably hot weather south.

Crops: Corn continued make good progress Plains. Many fields beginning to mature. Open conditions Blacklands, Central Texas allowed harvest continue without delay. Harvest continued along Upper Coast. Harvest continued wind down Coastal Bend, Rio Grande Valley. Corn 61% dented, 56% 1992, 68% avg.; 43% mature, 43% 1992, 55% avg.; 21% harvest, 12% 1992, 30% avg. Scattered rain brought relief cotton fields that were beginning to stress parts Plains. Boll retention continued excellent most fields. Some producers beginning spray for boll weevils. Blacklands, bolls beginning to open, some fields were cutting out due hot, dry conditions. Bolls also opening Central Texas. Harvest increasing Coastal Bend. Along Upper Coast, plants shedding bolls. Cotton 4% harvest, 2% 1992, 5% avg. Grain sorghum fields maturing rapidly the Plains; however rain, cooler temperatures slowed progress some. Harvest increased Blacklands, North Central Texas but winding down Southern areas. Most harvest activity completed Rio Grande Valley, Coastal Bend. Rice harvest increased the Upper Coast under mostly open conditions. Later fields continued to head. Grain Sorghum 50% mature, 52% 1992, 52% avg.; 38% harvest, 38% 1992, 45% avg. Peanuts continued to look good Plains, Cross Timbers. Irrigation been steady; however scattered showers helped. Growth has been slow Blacklands, Central Texas. Rain despartely needed on many fields in these areas. Soybean fields the Plains setting pods where progress good throughout the week. Blacklands, fields were experiencing slow growth under dry conditions. Along Upper Coast, some plants throwing off pods under dry conditions. Soybeans 0% harvest, 1% 1992, 1% avg. Other crops: Oats 98% harvest, 100% 1992, 100% avg.

Commercial Vegetables: In Rio Grande Valley, land preparations continued. East Texas, vegetable production continued slow due dry conditions. High Plains, onion harvest ending. Harvest potatoes, pumpkins, peppers, cucumbers continued, some delays because rain

showers. Trans-Pecos, harvest cantaloupes, watermelons continued. Pepper, onion harvest ending. Peach harvest ending Hill Country. Some harvest continued parts East Texas. Pecans still show stress from dry conditions many areas. Good crop still expected; however rain needed soon many areas. Insect activity increasing some groves, producers spraying relieve these problems.

Range and Livestock: Improvement in range, pasture conditions seen Plains with shower activity. Many pastures Blacklands, Central Texas remained parched, need moisture. Grazing conditions short South Texas, Hill Country also. Livestock conditions remained good most areas. Flies causing some problems.

UTAH: Temperature 1 to 2° above normal, minimums 3° above normal. Precipitation heavy in western, moderate in north, south central, light in rest of State.

Days suitable for fieldwork 6.2. Soil moisture 40% short, 60% adequate. Irrigation 10% short, 87% adequate, 3% surplus. Stockwater supply 5% short, 93% adequate, 2% surplus. Winter wheat ripe 86%; harvested 35%, 90% 1992, 80% avg. Spring wheat ripe 63%; harvested 15%, 64% 1992, 59% avg. Barley ripe 65%, 94% 1992; harvested 23%, 69% 1992, 63% avg. Oats ripe 48%, 76% 1992, 63% avg.; harvested for hay or silage 85%, 81% 1992, 71% avg.; harvested for grain 6%, 34% 1992, 26% avg. Corn height 66 in.; tasseling 63%, 81% 1992, 73% avg. Alfalfa hay 2nd cutting 80% complete, 92% 1992, 85% avg.; 3rd cutting 7%, 20% 1992. Other hay cut 85%, 86% 1992, 85% avg. Early varieties peaches starting harvest, 1 to 2 weeks behind normal. Pasture, range good to excellent.

VIRGINIA: Temperatures at or slightly above normal. Extremes 45°; 99°. Heavy rain fell on 6th over most of the State mostly between 1.00 to 2.00 in. Dulles Airport 3.45 in. Tornadoes occurred in Dinwiddie, Prince George, Petersburg, Hampton, a few surrounding locations.

Days suitable for fieldwork 5.8. Topsoil 5% very short, 47% short, 48% adequate. Pasture 27% very poor, 41% poor, 32% fair. Alfalfa 6% very poor, 35% poor, 55% fair, 4% good. Other hay 25% very poor, 40% poor, 34% fair, 1% good. Potatoes 96% harvested. Corn silked 86%, 85% 1992, 81% avg.; dough stage 50%, 47% 1992, 47% avg.; dented 26%, 23% 1992, 25% avg.; silage harvested 3%, 3% 1992, 3% avg.; 20% very poor, 32% poor, 46% fair, 2% good. Peanut 80% fair, 20% good. Soybeans blooming 51%, 45% 1992, 48% avg.; setting pods 31%, 20% 1992, 28% avg.; 5% very poor, 37% poor, 52% fair, 6% good. All tobacco 1% very poor, 24% poor, 46% fair, 29% good. Flue tobacco 18% harvested, 23% 1992, 19% avg. Fire tobacco 4% harvested, 7% 1992, 8% avg. Peach harvest about 50% completed, 50% 1992, 62% avg. Apple 18% poor, 53% fair, 29% good. Summer apple harvest 35% completed. Livestock 2% very poor, 7% poor, 66% fair, 25% good. Irrigating tobacco, peanuts, cotton, harvesting cucumbers, tomatoes, peppers, cantaloupes, watermelons, preparing to plant broccoli, supplemental feeding to livestock. Very little hay harvesting. Higher than normal numbers of cattle moving to market. Some localized crops were damaged by high winds, tornadoes.

WASHINGTON: Temperatures 6° above normal to 7° above normal west; 1° below normal to 6° above normal east. Dry statewide.

Days suitable for fieldwork 7.0. Soil moisture 15% short, 83% adequate, 2% surplus. Irrigation water supply 16% short, 84% adequate. Hay, other roughage 1% very short, 7% short, 90% adequate, 2% surplus. Range, pasture 8% very poor, 9% poor, 5% fair, 39% good, 39% excellent. Winter wheat dryland 5% fair, 95% good; irrigated 100% good. Spring wheat dryland 15% fair, 85% good; irrigated 100% good. Barley dryland 20% fair, 70% good, 10% excellent; irrigated 95% good, 5% excellent. Potatoes 100% good.

Summer finally arrived with producers taking full advantage of it. Winter grain harvest proceeded rapidly, yields and quality reported as good. Spring grain harvest finally started in many areas, remainder still a week or so away from harvest. Hay producers welcomed drier weather. Haying progress ranged from finishing up the first cutting to starting the third cutting. Peaches, apricots were being picked. Bartlett pear harvest started in the southern part of the State, with the north still 1 to 2 weeks away. Gala apples were expected to be ready in about 2 weeks.

WEST VIRGINIA: Temperature 69°. Extremes 48°; 92°. Precipitation 1.05 in.

Days suitable for fieldwork, 5.5. Soil moisture, 25% very short, 75% short. Tobacco, 33% fair, 67% good; 30% topped. Hay, 36% poor, 58% fair, 6% good; 45% 2nd cut. Pastures, 16% very poor, 24% poor, 52% fair, 8% good; 62% of normal. Gardens, 11% poor, 67% fair, 22% good. Cattle, 13% fair, 87% good. Sheep, 15% fair, 85% good. Apples, fair. Peaches, poor to fair. Oats, 95% harvested. Corn, 7% poor, 62% fair, 31% good; 75% silked, 20% dough stage. Soybeans, 58% fair, 42% good; 66% blooming. Farm activities: Moving livestock, cutting hay, topping tobacco, harvesting oats, peaches, general maintenance.

WISCONSIN: Cool, Canadian air poured into State lowering the temperature between 5 to 10°. Scattered, light showers, isolated thunderstorms affected portions of central, northern areas. Temperature 62°; 7° below normal. Extremes 38°; 84°. Precipitation 0.30 to 2.10 in.

Days suitable for fieldwork 5.5. Soil moisture 7% short, 68% adequate, 25% surplus. Pasture 86% of normal, 75% 1992, 66% avg. General condition of crops: 5% poor, 52% fair, 42% good, 1% excellent. Oats 11% poor, 39% fair, 44% good, 6% excellent; 12% harvested, 17% 1992, 49% avg. Corn 2% very poor, 13% poor, 53% fair, 29% good, 3% excellent; silked or beyond: 40% silked, 59% 1992, 77% avg.; dough or beyond: 3% in dough, 5% 1992, 20% avg. Soybean 3% poor, 37% fair, 52% good, 8% excellent. 2nd cut alfalfa 55% harvested, 68% 1992, 75% avg. Winter wheat harvested 38%, 40% 1992, 74% avg. Unseasonably cool temperatures delayed the progress needed by crops. Break from the springs downpours welcome, now more hot days are crucial to the development of this years crops. Crops that have been rating very poor to poor improved last week, mostly fair condition. Scattered showers, generally cool, cloudy weather made it difficult for some reporters to harvest dry alfalfa last week. Just over half of the second crop is harvested, while farmers comment that third crop growth seems good. Many reporters say there is great variation in the corn crop from field to field, even within the same field. What sunshine we have had has helped to improve the worst of the corn; however, the crop remains ten days to two weeks behind, with little catch up last week. Soybeans seem to be developing better than other crops. A couple reports were received of soybeans beginning to set pods. Oats, winter wheat harvest is slow, behind normal.

WYOMING: Temperatures below normal over most of State. Extremes near normal to 9° below normal. Precipitation about 0.40 in. below normal in Newcastle area to about 0.60 in. above normal in Cheyenne, Jackson.

Days suitable for fieldwork 5.7. Topsoil 25% short, 75% adequate. Subsoil 11% short, 89% adequate. Spring wheat 7% harvested, 22% 1992, 33% avg. Oats 7% harvested, 21% 1992, 22% avg. Barley 12% harvested, 37% 1992, 40% avg. Winter wheat 46% harvested, 57% 1992, 71% avg. Corn silked 15%, 39% 1992, 49% avg. Dry beans 44% setting pods, 69% 1992, 65% avg. Alfalfa 2nd cutting completed 17%, 28% 1992, 39% avg. Other hay harvested 71%, 63% 1992, 74% avg. Crops mostly fair to good. Some excellent barley, sugarbeets reported in northwest. Stockwater adequate across entire State.

IN NEXT WEEK'S BULLETIN

Summary of USDA's latest official crop forecast, including impacts of the Midwest floods.

International Weather and Crop Summary HIGHLIGHTS

August 1 - 7, 1993

FSU: Mild, dry weather over most of Russia and Ukraine favored crop maturation and allowed the small grain harvest pace to increase. In the **New Lands**, moisture conditions continued favorable for spring grains, but unseasonable cool weather slowed crop development.

EUROPE: Wet weather slowed winter grain harvesting in the northeast. Dry weather covered Europe's corn, now in the grain-filling stage.

SOUTH ASIA: Showers soaked central India's vegetative to reproductive crops. Dry, warm weather dominated primary rainfed crop areas in the west.

SOUTHEAST ASIA: Showers were widespread over Indochina, but dry pockets persisted in Thailand's rainfed rice areas.

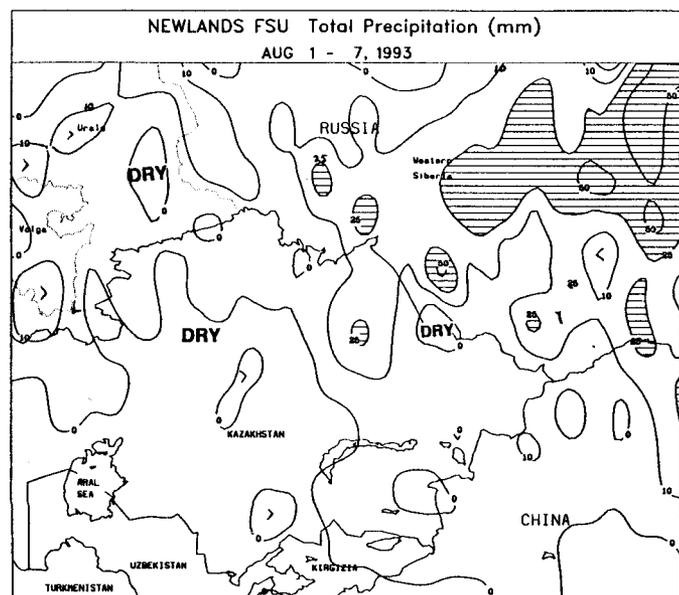
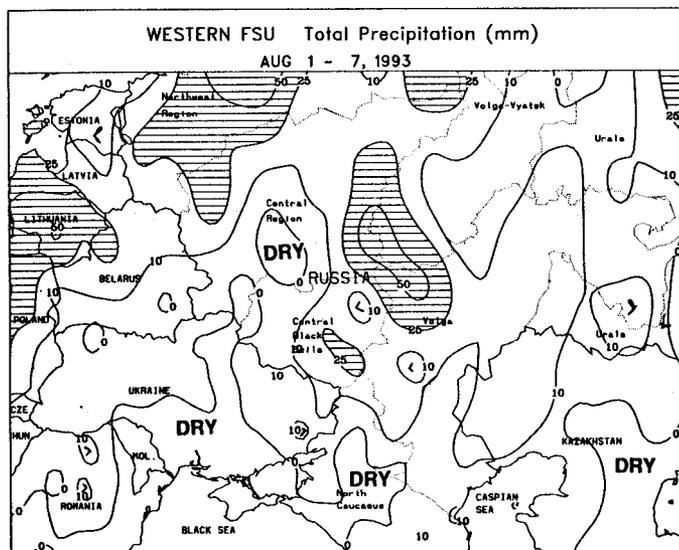
EASTERN ASIA: Summer crops across China had adequate moisture. Southern Japan continued to receive heavy rains, causing additional flooding.

AUSTRALIA: Rains benefited wheat across eastern and southern Australia as western areas remained well watered.

SOUTH AMERICA: Seasonable temperatures returned to southern Brazil, after a spell of cold weather.

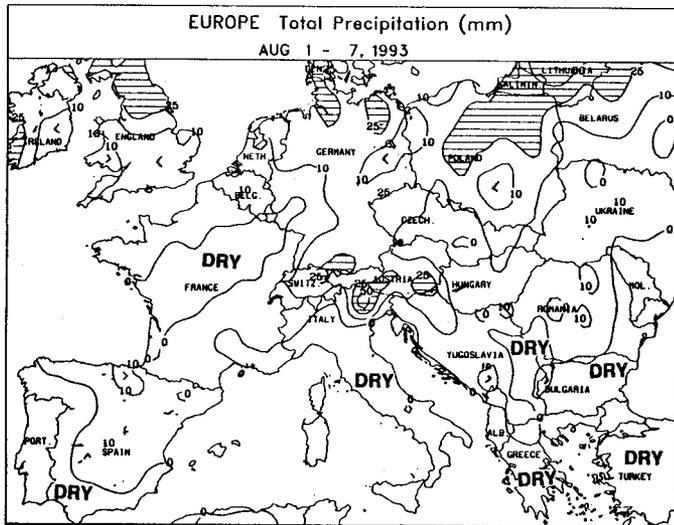
CANADA: Light rain accompanied unseasonably cold weather across the Prairies, increasing the risk of disease and lower quality.

MEXICO: Seasonal rains continued to favor corn.

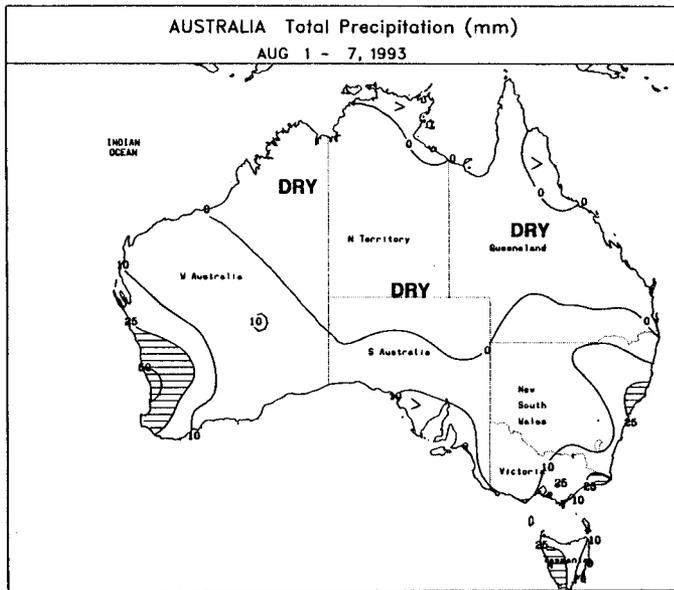


FSU-WESTERN: Several days of warm, dry weather covered southern Belarus, Central Region, Ukraine, North Caucasus, Black Soils Region, and Volga Valley, favoring crop maturation and allowing the pace of winter and spring grain harvests to increase. Extreme maximum temperatures in these areas ranged from 26 to 33 degrees Celsius (C), prompting the ripening of small grain crops and helping to dry out soils in northern areas that were saturated by last week's wet weather. Frequent showers (10-25 mm, with local amounts in excess 40 mm) over the Baltic States, northern Belarus, and localized areas in Volga Vyatsk hampered winter grain harvesting. Weekly average temperatures were near normal over most areas except in south-central Ukraine and the northern tip of North Caucasus, where temperatures averaged 2 degrees C below normal.

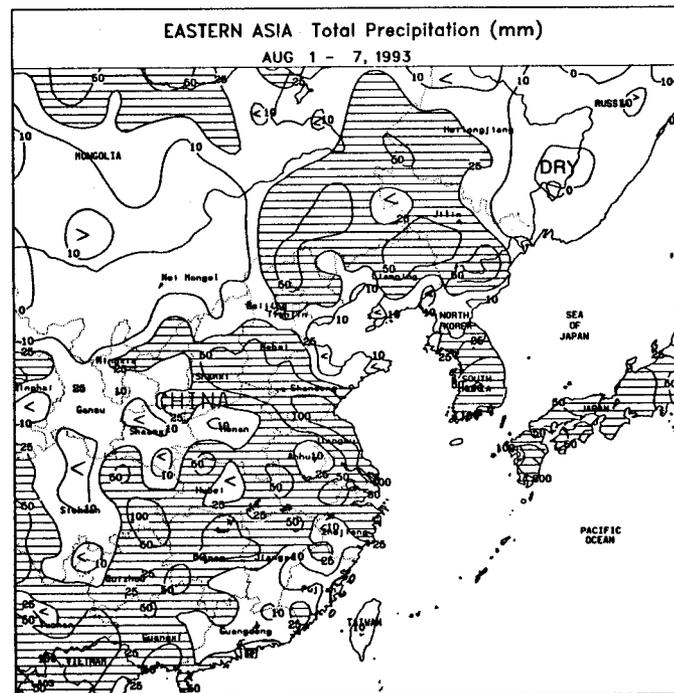
FSU-NEW LANDS: Spring grains were grain filling in the Urals and Western Siberia, while crop progress ranged from filling to maturing in the southern Urals and Kazakhstan. Little, if any, precipitation (less than 10 mm) covered spring grain areas in Urals and Kazakhstan, where abundant moisture reserves favored grain-filling crops. In Western Siberia, light to moderate showers maintained favorable moisture conditions for filling spring grains. Unseasonably cool weather covered Western Siberia and central and eastern Kazakhstan, slowing crop development. Weekly average temperatures in these areas were 3 to 5 degrees C below normal.



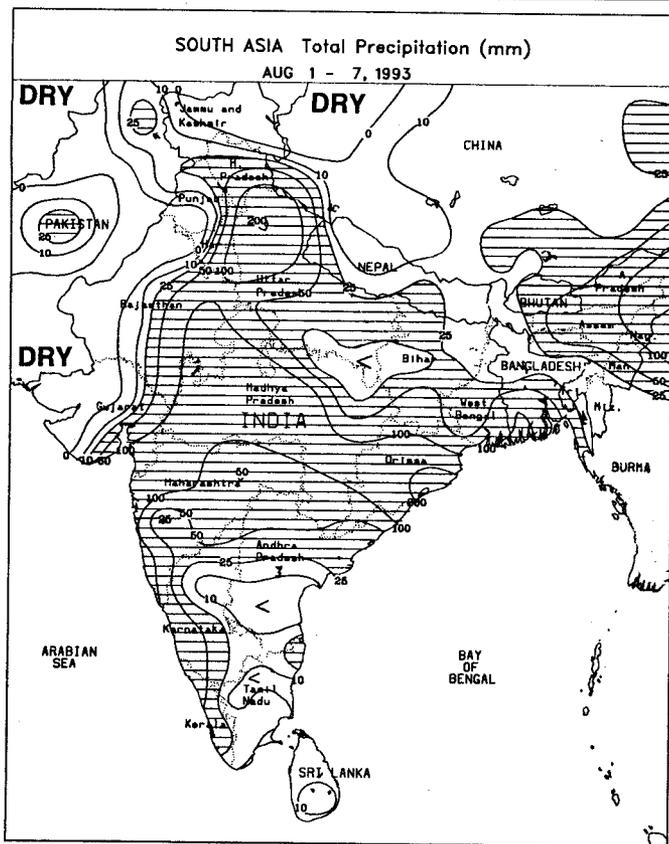
EUROPE: Wet weather shifted eastward, disrupting winter grain harvesting again in eastern Germany and Poland, where weekly rainfall averaged 25-52 mm at many locations. Drier weather (mostly 5 mm or less) improved harvest conditions in northern France, southern England, and the Benelux countries. Heavier rain (20-50 mm) fell in northern England. Late-week showers brought highly variable rainfall (1-31 mm) to the Czech Republic, Slovakia, and northern Hungary, slowing the progress of winter crop harvesting after several days of favorable harvest weather. Mostly dry weather prevailed throughout the primary corn-growing areas of France, Hungary, and Romania, where corn is grain filling. Clear skies dominated the Mediterranean region and the Balkans for most of the week. In Scandinavia, more rain (10-59 mm) covered the grain areas, hampering harvest progress but easing long-term dryness in Denmark.



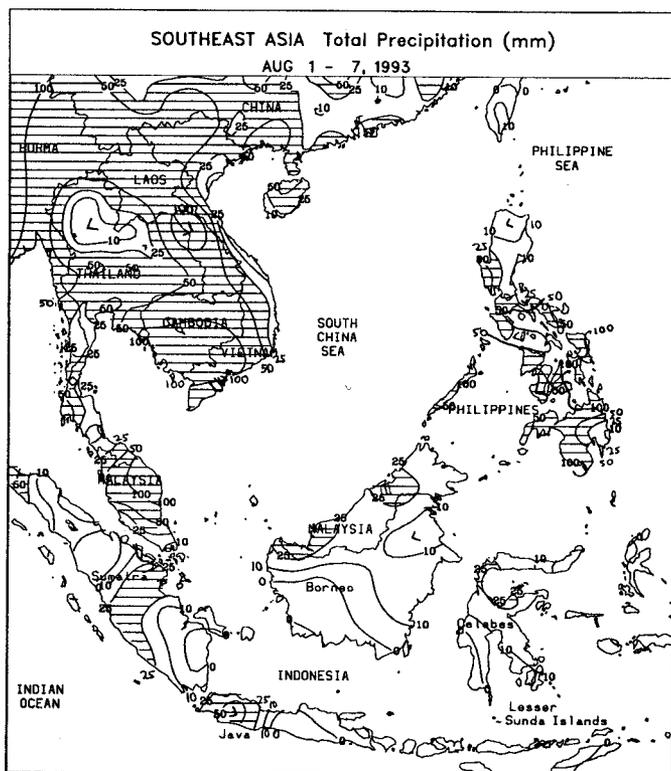
AUSTRALIA: Light rains (3-17 mm) covered the eastern and southern wheat regions, favoring vegetative winter wheat. However, southern Queensland received little or no rain. The wheat areas of Western Australia received 12-32 mm of rain, keeping soils well watered for vegetative wheat. Near-freezing temperatures were reported across inland portions of Western Australia, burning back wheat.



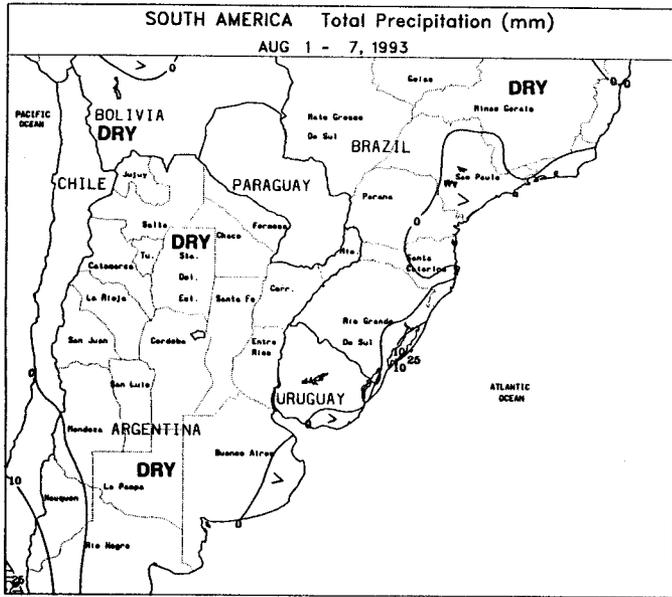
EASTERN ASIA: Moderate to heavy showers (15-70 mm) covered Manchuria and the North China Plain, favoring reproductive to filling summer crops. Heavier showers (110-190 mm) fell across the coastal cotton regions of Jiangsu, possibly causing some flooding. Cotton requires drier weather for normal growth. Widespread showers (20-60 mm) covered central and southern China, keeping irrigation supplies plentiful. Moderate rains (25-60 mm) fell across the semi-arid areas of northern China (eastern Nei Mongol), producing localized flooding. Temperatures averaged 1 to 2 degrees C above normal across southern China, while temperatures averaged near normal elsewhere. Southern Japan received inundating showers (125-260 mm) from approaching Tropical Cyclone Robyn. Heavy rains have persisted across this region for several weeks, causing flooding and possible damage to rice paddy fields.



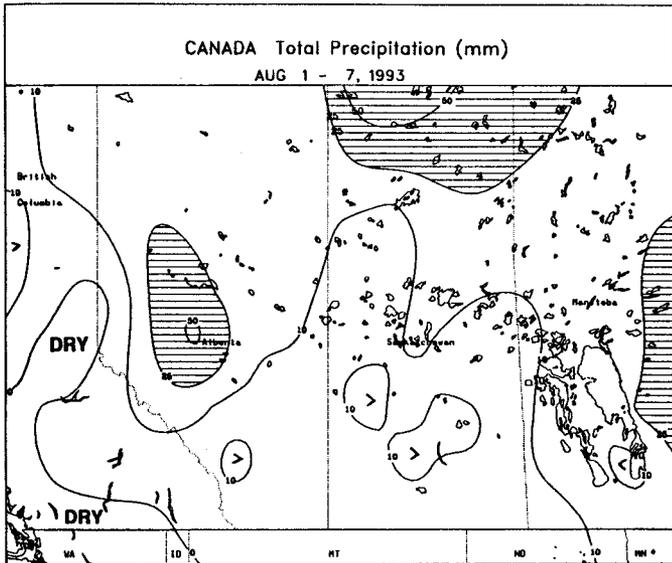
SOUTH ASIA: Showers (50-100 mm or more, with local totals exceeding 200 mm), due partly to the remnants of a tropical depression, spread across central and eastern India. While causing some local flooding, the rainfall maintained generally favorable conditions for vegetative to reproductive grains, oilseeds, and cotton. The showers reached westward into Rajasthan, but a large section of the northwest experienced dry, unseasonably warm weather for the second week. This area includes Gujarat, which typically accounts for over 20 percent of India's total groundnuts and cotton and more than 15 percent of the country's millet. Lighter-than-normal showers (5-35 mm) covered India's southern interior from Karnataka and southern Andhra Pradesh southward.



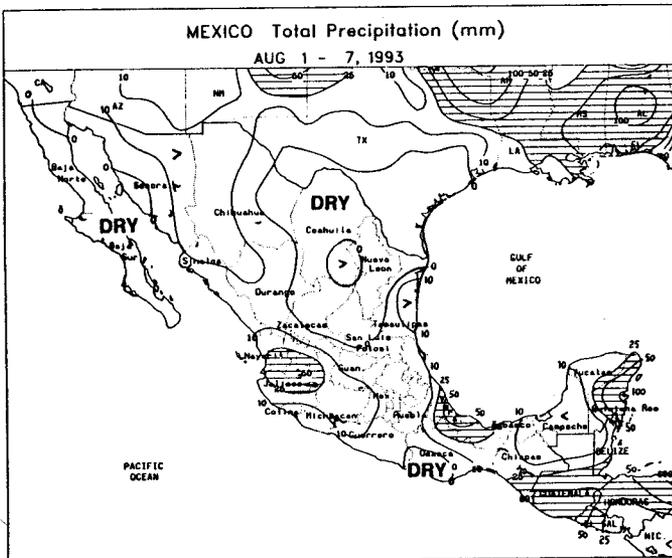
SOUTHEAST ASIA: Variable showers covered Indochina, with heaviest rain (50-100 mm, with isolated totals exceeding 200 mm) concentrated along the Mekong River. Dry pockets (20 mm or less) persisted over Thailand's Northern Hills region, reducing moisture for immature crops. Unseasonably warm weather (1-2 degrees C above normal, highs in the upper 30's C) maintained high evaporative losses. Further south, moderate to heavy showers (25-50 mm or more) covered most Malaysian rice and oil palm areas. Showers (22-62 mm) over western Java boosted irrigation for dry season rice. In the Philippines, heavy showers (50-100 mm) benefited immature grains and sugarcane in the central islands, but drier weather returned to Luzon's rice and corn areas.



SOUTH AMERICA: Seasonable temperatures returned to southern Brazil, after a spell of cold weather (July 31 and August 1). Temperatures averaged 1-3 degrees C above normal across the region. Only scattered showers (6-30 mm) fell along the coastal areas of southern Brazil. In central Argentina, dry weather continued to dry out previously flooded fields. Temperatures averaged near normal.



CANADA: Mostly light rain (10 mm or less) and below-normal temperatures (departures of -2 to -4 degrees C, most areas) covered the Prairies, further slowing growth of reproductive to filling grains and oilseeds. Minimum temperatures generally ranged from 3 to 7 degrees C. In early August, seasonal cooling (a decrease in normal daily temperatures) typically begins, with the first freeze of fall usually occurring in early September. This season's spring crops, already ripening in southern areas, only have a few weeks to improve in quality. In Ontario, light to moderate showers (5-41 mm) continued, but temperatures returned to cooler levels (2 degrees C below normal), slowing growth of reproductive to filling summer crops.



MEXICO: Light to moderate showers (10-30 mm) continued across the southern Plateau corn belt, aiding corn. Scattered heavier showers (25-90 mm) fell across southeastern Mexico, favoring reservoir levels and rainfed summer crops. Temperatures averaged 1-2 degrees C above normal across the main corn belt.

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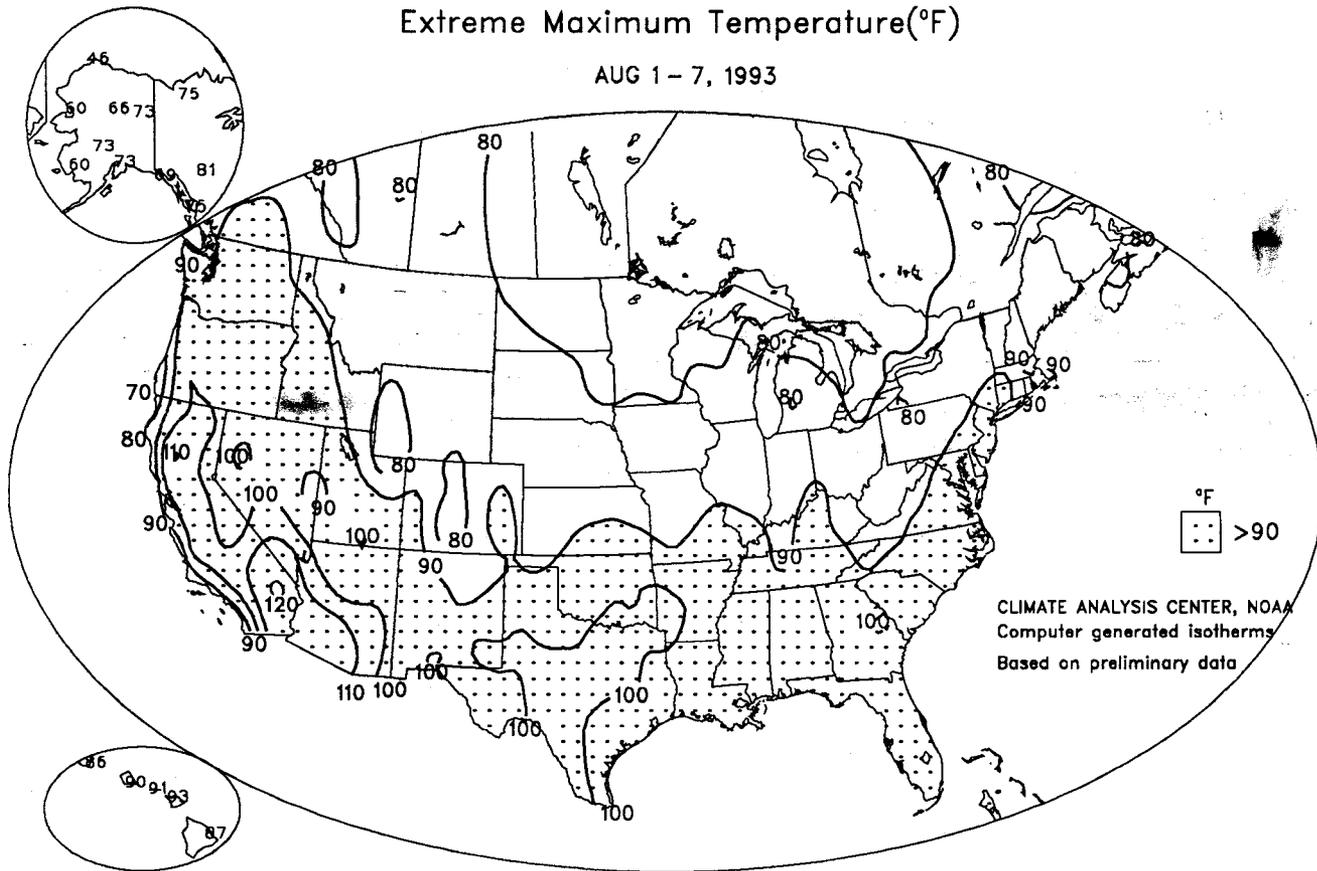
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Extreme Maximum Temperature(°F)

AUG 1 - 7, 1993



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Computer generated isotherms
Based on preliminary data

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