

WEEKLY WEATHER AND CROP BULLETIN

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

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

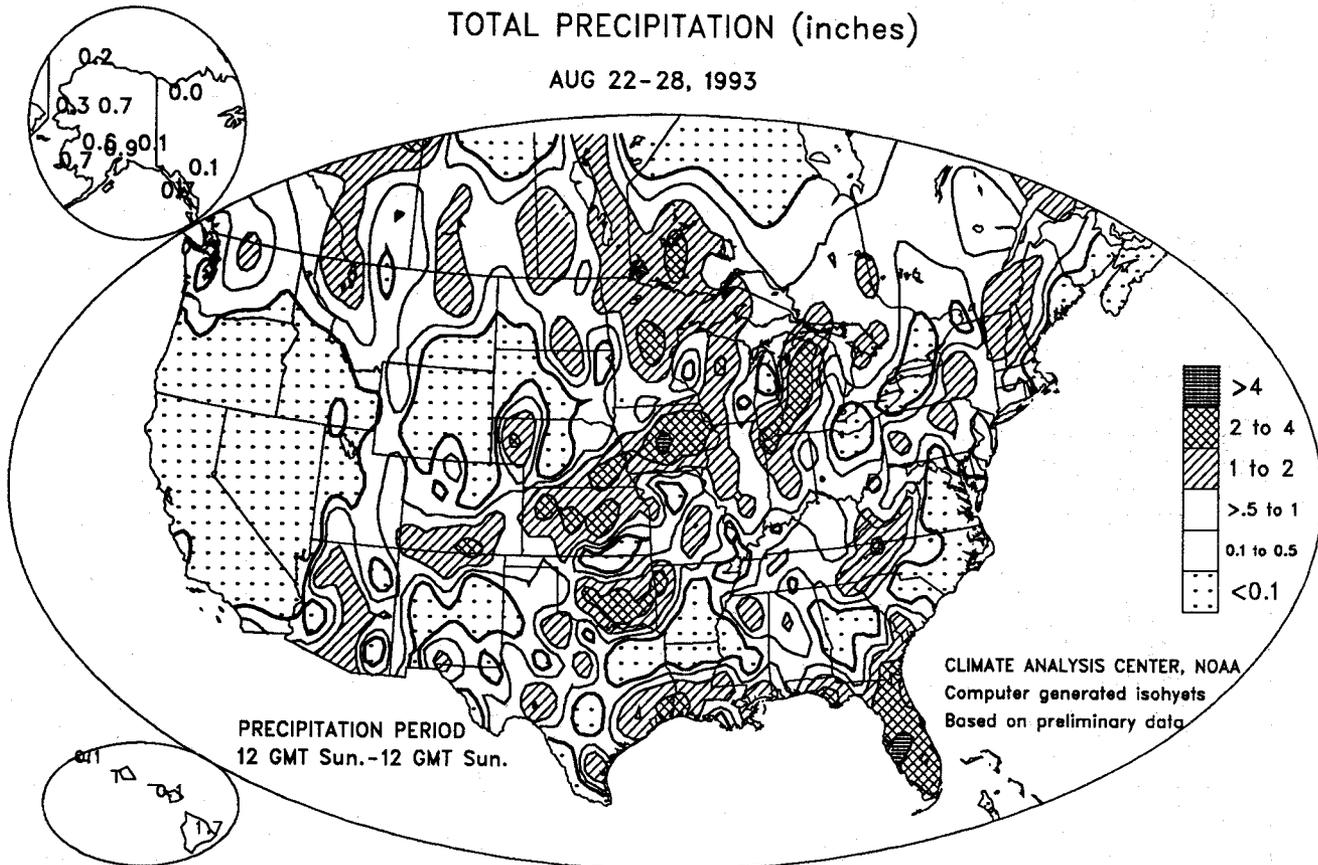
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Washington, D.C.

August 31, 1993

TOTAL PRECIPITATION (inches)

AUG 22-28, 1993



HIGHLIGHTS

August 22 - 28, 1993

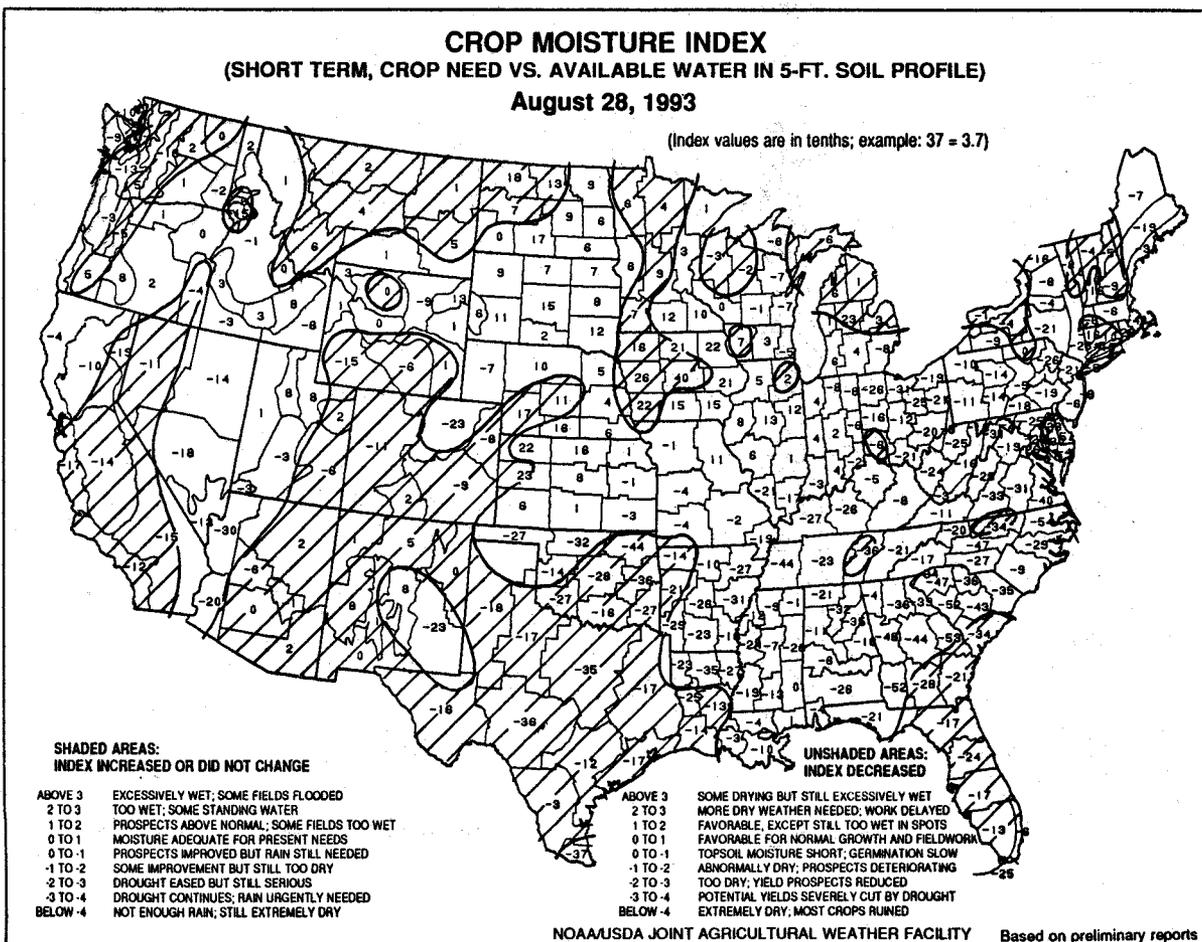
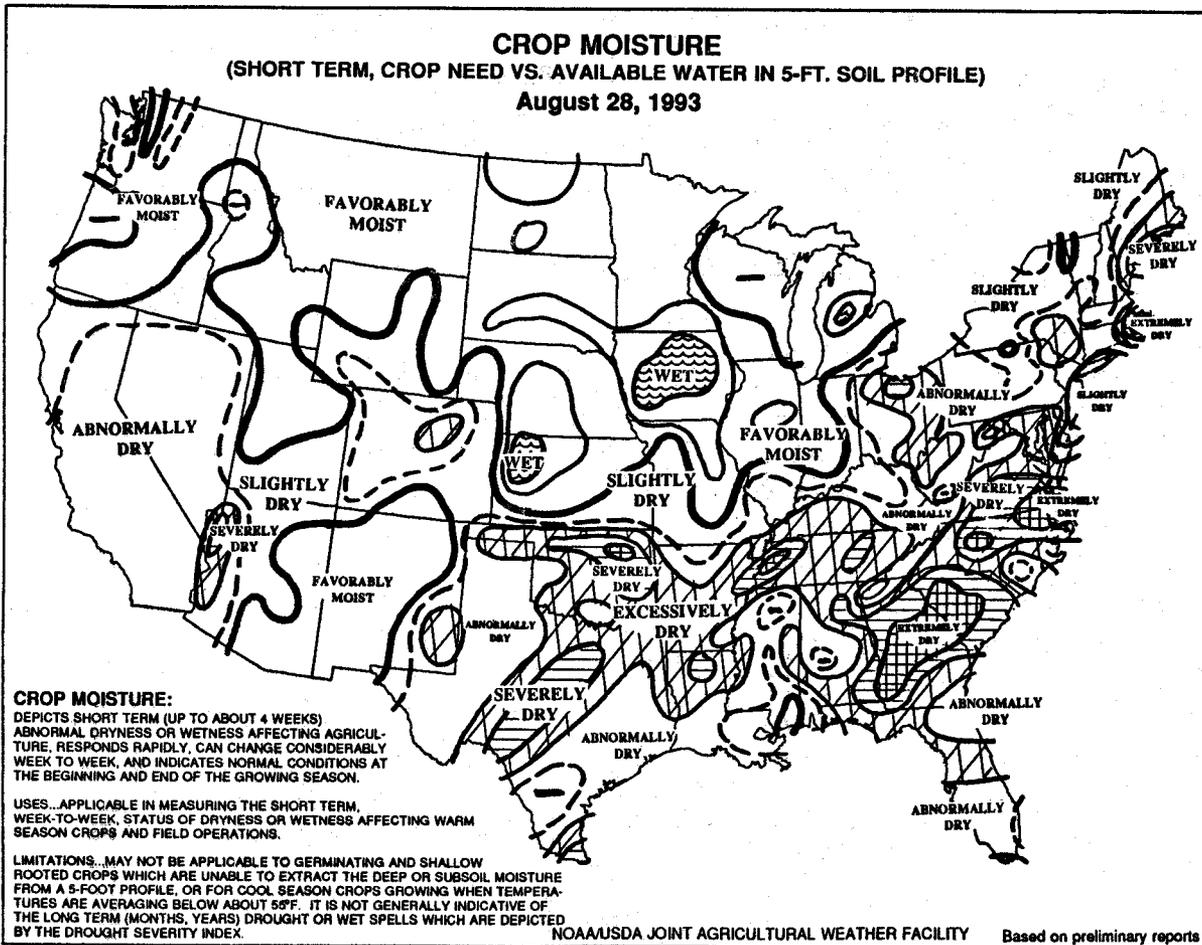
For the third week, heavy rains struck much of the upper and middle Mississippi Valley. Two frontal systems moving eastward across the northern half of the country triggered 1- to 4-inch rainfall totals from Minnesota south through Iowa and southwestward into Kansas. Heavy rains (1-4 inches) also fell across lower Michigan and Indiana. Scattered thunderstorms, some severe, dumped heavy rainfall (over 1 inch) from New England south to Florida and west along the Gulf coast to Texas. Parts of southern Texas enjoyed their first rain since late June, though Saturday was San Antonio's 63rd consecutive (and last) day without measurable rainfall. Tropical flow fueled heavy showers across the desert Southwest. Most of the

(Continued to back cover)

Contents

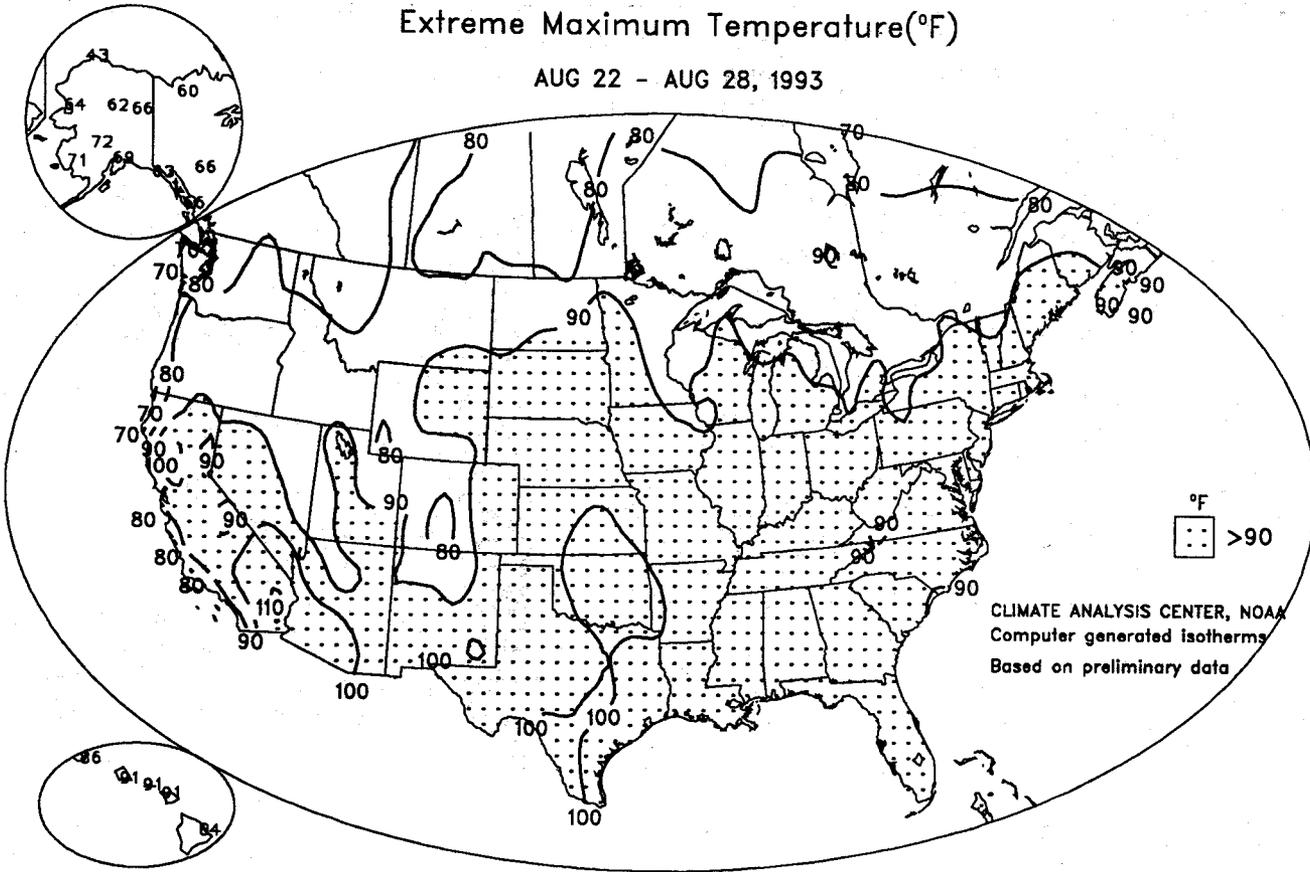
Page

Highlights & Total Precipitation Map	1
Crop Moisture Maps	2
Temperature Departure & Extreme Maximum Maps .	3
30- and 90-Day Weather Outlooks	4
Growing Degree Day Table	6
National Weather Data for Selected Cities	7
National Agricultural Summary	10
Crop Progress and Condition Tables	11
State Summaries of Weather and Agriculture ...	13
International Weather and Crop Summary	20
Subscription and Mailing Permit Information ..	24



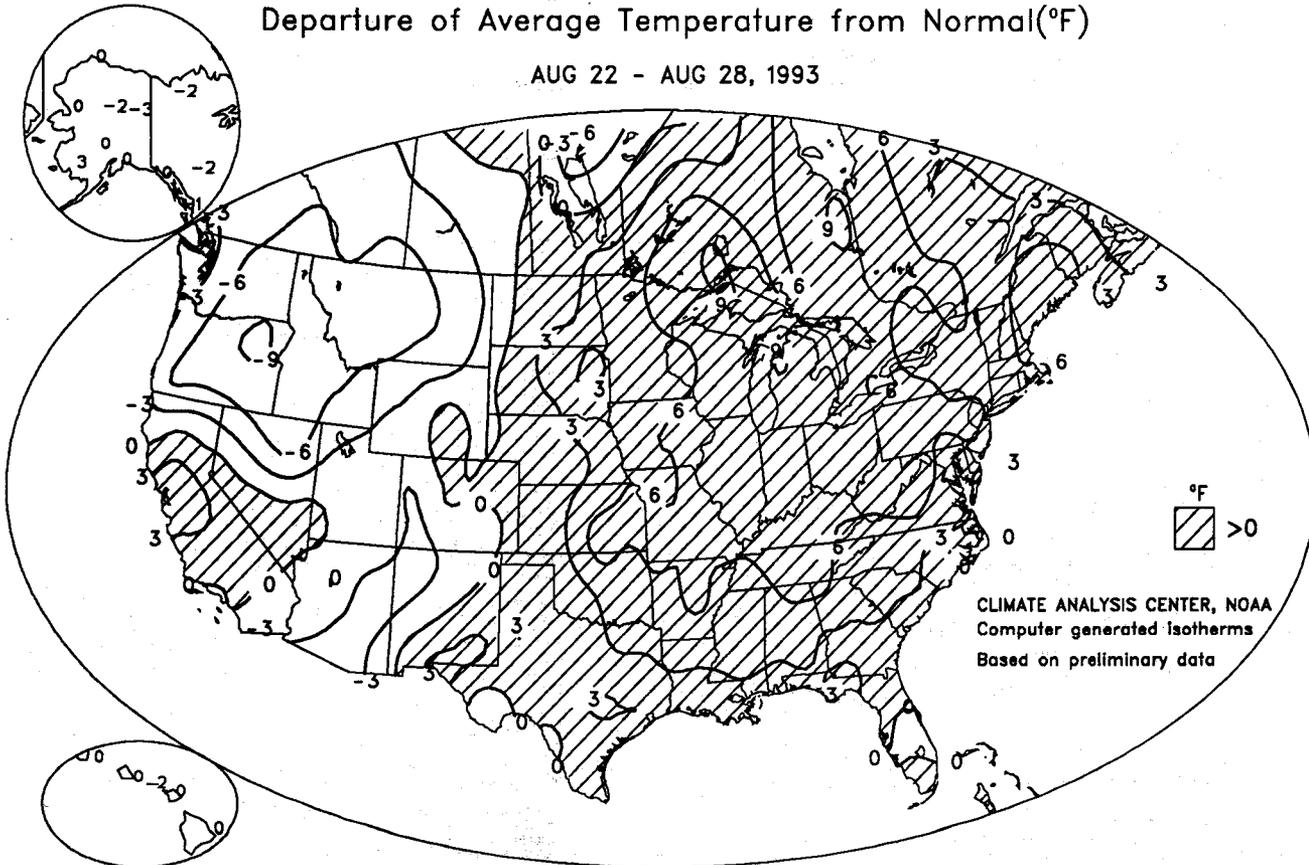
Extreme Maximum Temperature(°F)

AUG 22 - AUG 28, 1993



Departure of Average Temperature from Normal(°F)

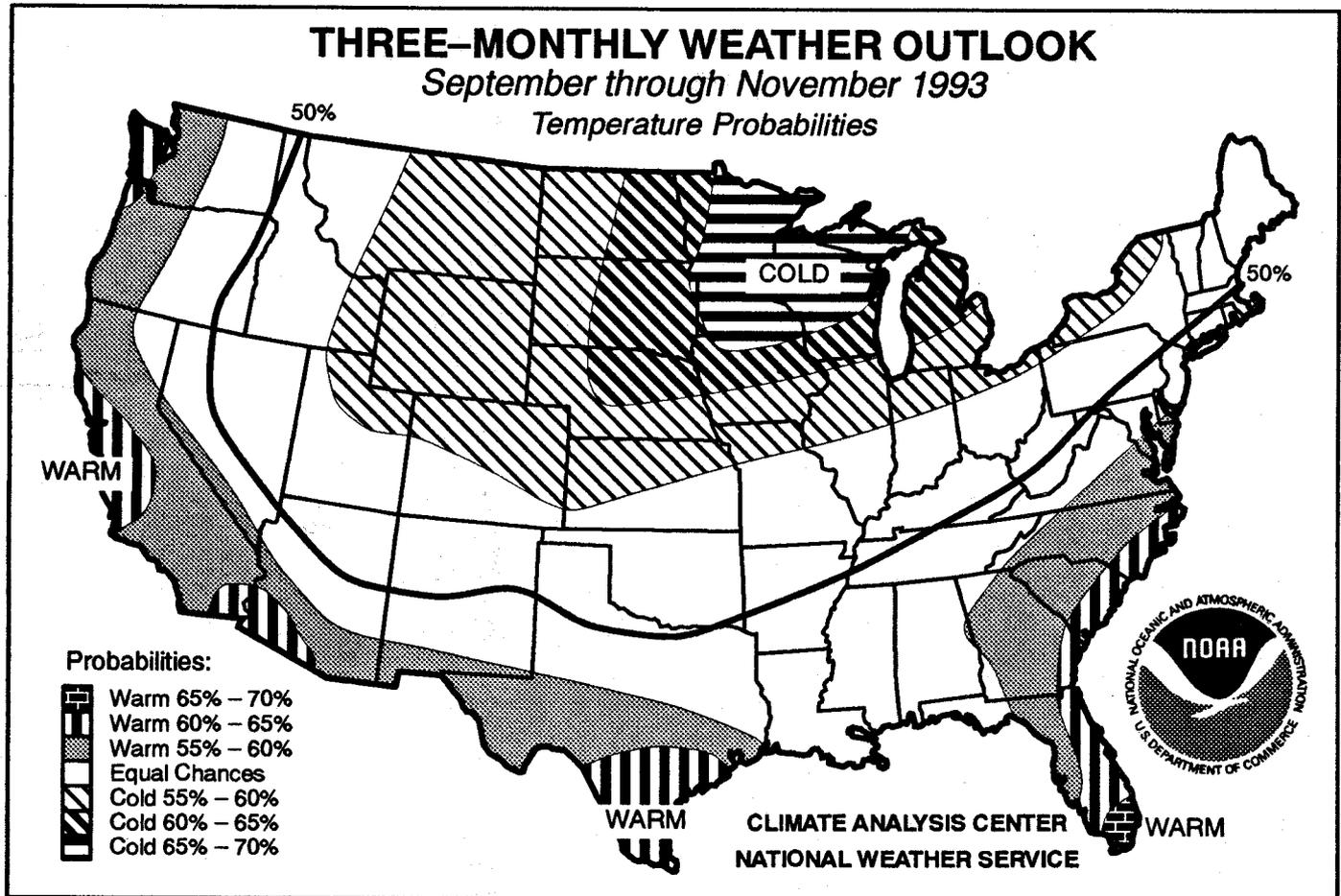
AUG 22 - AUG 28, 1993



THREE-MONTHLY WEATHER OUTLOOK

September through November 1993

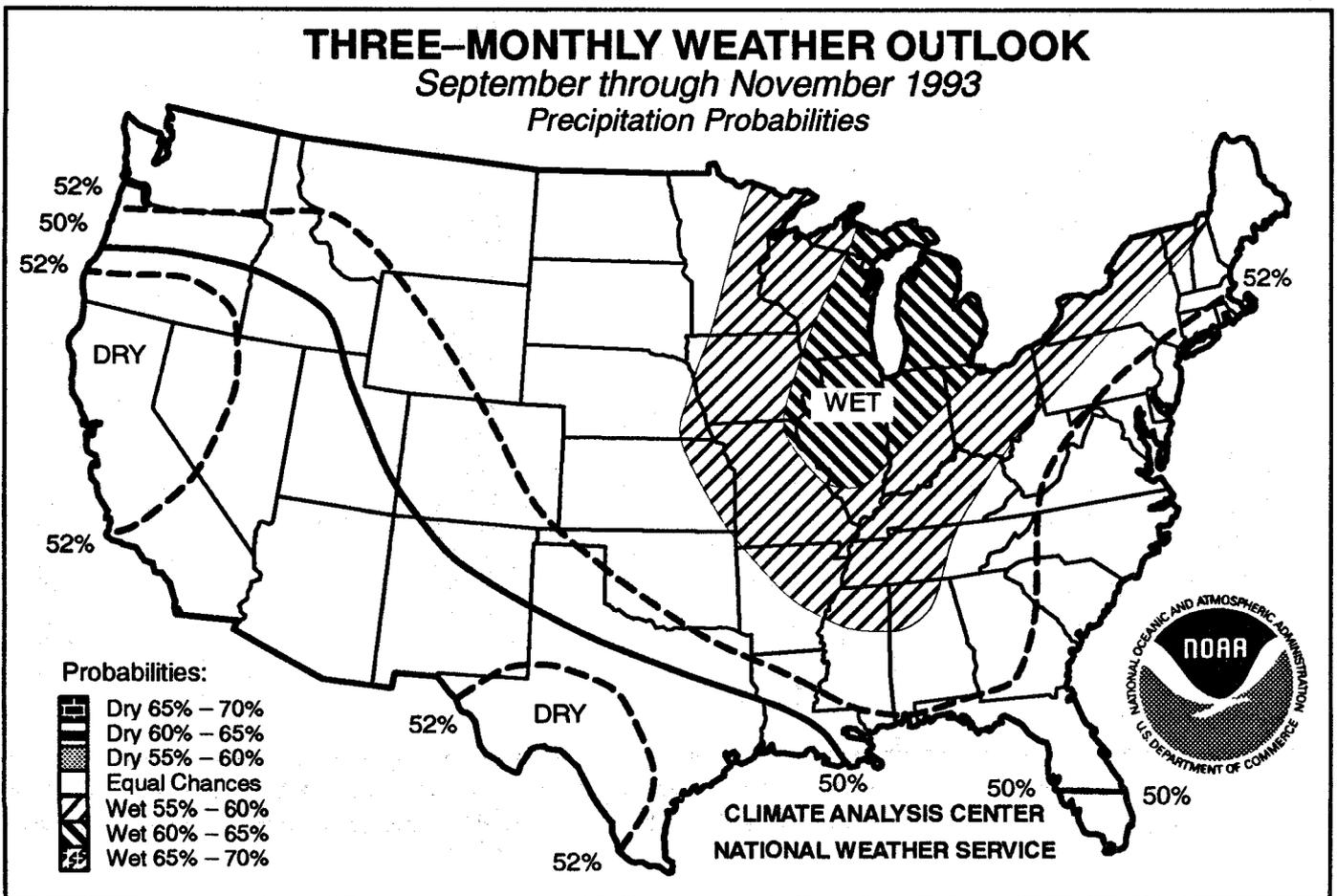
Temperature Probabilities



THREE-MONTHLY WEATHER OUTLOOK

September through November 1993

Precipitation Probabilities



CUMULATIVE GROWING DEGREE DAYS (CORN*)

April 1 - August 28, 1993

STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL
AL ANNISTON	3386	+ 50	SALINA	2916	- 53	OK ALTUS	3467	- 17
BIRMINGHAM	3416	+ 9	TOPEKA/BILLARD	2871	- 41	GAGE	3093	- 12
MOBILE	3688	- 151	WICHITA	3026	- 66	HOBART	3350	- 13
MONTGOMERY	3578	+ 105	KY LEXINGTON	2920	+ 113	MCALESTER	3593	+ 158
MUSCLE SHOALS	3428	+ 121	BOWLING GREEN	3114	+ 93	PONCA CITY	3372	+ 104
OZARK	3633	+ 49	PADUCAH	3252	+ 124	TULSA	3329	- 80
AZ TUSCALOOSA	3547	+ 30	LA LAFAYETTE	3833	- 25	OR BAKER	1535	- 178
DOUGLAS	3290	+ 198	LAKE CHARLES	3897	- 35	EUGENE	1703	- 38
FLAGSTAFF	1935	+ 213	MONROE	3684	+ 31	NORTH BEND	1279	+ 273
PHOENIX	4497	+ 525	NEW ORLEANS	3765	- 107	PENDLETON	1979	- 189
TUCSON	3858	+ 225	SHREVEPORT	3657	+ 102	REDMOND	1503	- 195
YUMA	4527	+ 434	ME AUGUSTA	1983	+ 192	PORTLAND	1887	+ 102
AR PRESCOTT	2662	+ 349	CARIBOU	1579	+ 198	SALEM	1853	+ 138
EL DORADO	3507	+ 3	HOUTON	1618	+ 103	SEKTON SUMMIT	976	- 363
FAYETTEVILLE	3139	+ 140	PORTLAND	1891	+ 218	PA ALLENTOWN	2672	+ 280
FORT SMITH	3470	+ 94	MD SALISBURY	2950	+ 200	PHILADELPHIA	3096	+ 582
JONESBORO	3386	- 9	MA WORCESTER	2012	+ 103	WILLIAMSPORT	2580	+ 275
LITTLE ROCK	3514	+ 125	MI JACKSON	2210	+ 10	SC BEAUFORT	3828	+ 187
TEKARKANA	3601	- 31	LANSING	2195	- 19	CHARLESTON	3725	+ 158
CA BAKERSFIELD	3308	- 32	MUSKOGON	2144	+ 161	COLUMBIA	3560	+ 92
BLUE CANYON	1429	- 221	PELLSTON	1697	+ 91	FLORENCE	3667	+ 200
DACOTT	3634	+ 83	SAULT STE. MARIE	1349	+ 1	SD SUMTER/SHAW AFB	3532	+ 83
EUREKA	1223	+ 533	MN TRAVERSE CITY	2009	+ 163	ABERDEEN	2057	+ 11
FRESNO	3190	+ 232	DULUTH	1313	- 108	HURON	2088	- 170
MARYSVILLE	3006	+ 178	INT'L FALLS	1508	- 61	PIERRE	2100	- 155
MERCED	2999	+ 202	MINNEAPOLIS	2076	---	RAPID CITY	1797	- 284
MT SHASTA	1503	- 266	ROCHESTER	1896	---	WATERTOWN	1764	- 245
PASO ROBLES	2524	+ 151	ALEXANDRIA	1785	- 156	TN BRISTOL	2890	+ 113
RED BLUFF	2947	- 116	MS BILLOKI	3908	- 22	CHATTANOOGA	3410	+ 225
RIVERSIDE	3035	+ 278	COLUMBUS	3470	+ 57	CROSSVILLE	2912	+ 387
SANTA ANA	3169	+ 555	JACKSON	3626	+ 143	MEMPHIS	3608	+ 86
SAN DIEGO	2682	+ 200	MERIDIAN	3593	+ 75	NASHVILLE	3303	+ 84
SACRAMENTO	2687	+ 89	GREENWOOD	3612	+ 22	TX ABILENE	3690	+ 52
THERMAL	3895	- 64	MO COLUMBIA	2886	+ 99	AMARILLO	2961	+ 17
CO ALAMOSA	1654	- 72	JOPLIN	3146	+ 4	AUSTIN	3958	+ 51
DENVER	2249	+ 21	SPRINGFIELD	3011	+ 84	BROWNSVILLE	4326	+ 31
EAGLE	1668	- 172	MT VICHY	3007	+ 76	COLLEGE STATION	3845	- 8
GRAND JUNCTION	2570	- 150	HELENA	1450	- 219	DALHART	2828	+ 54
LA JUNTA	2702	- 32	KALISPELL	1395	- 273	DALLAS/FT WORTH	3854	+ 180
DE DOVER	2871	+ 44	MILES CITY	1878	- 294	GALVESTON	4280	+ 119
WILMINGTON	2947	+ 293	NE GRAND ISLAND	2431	- 138	HOUSTON/INTCNTL	3954	+ 150
FL DAYTONA BEACH	3793	- 77	NORFOLK	2415	- 81	KINGSVILLE/NAS	4283	+ 141
FORT MYERS	4173	+ 63	NORTH PLATTE	2250	- 78	LAREDO	4368	+ 123
GAINESVILLE	3661	- 149	VALENTINE	2098	- 308	LUBBOCK	3413	+ 217
JACKSONVILLE	3721	- 96	SCOTTSBLUFF	2110	- 127	MCALLEN	4390	+ 217
FORT LAUDERDALE	4815	+ 320	SNIDNEY	2071	+ 4	MIDLAND	3552	+ 65
MIAMI	4469	+ 137	NV ELKO	1676	- 237	PALACIOS	4112	- 6
MILTON	3729	+ 59	ELY	1771	- 22	SAN ANTONIO	4014	+ 52
PENSACOLA	3842	- 62	LAS VEGAS	3968	+ 298	VICTORIA	4040	+ 72
ST PETERSBURG	4178	- 75	RENO	2086	+ 62	WACO	3838	- 37
TALLAHASSEE	3665	- 59	WINNEMUCCA	2027	- 21	WICHITA FALLS	3522	- 40
TAMPA	4020	- 49	NH CONCORD	2027	+ 220	WINK	3650	+ 96
VERO BEACH	3988	+ 9	NJ NEWARK	3150	+ 494	UT CEDAR CITY	2243	- 1
W. PALM BEACH	4231	+ 88	NM ALBUQUERQUE	3056	+ 398	VT BARRÉ-MONTPELIER	1811	+ 179
GA ATHENS	3448	+ 166	CARLSBAD	3598	+ 177	BURLINGTON	2142	+ 255
AUGUSTA	3598	+ 167	CLOVIS	3040	+ 199	VA CHARLOTTESVILLE	3057	+ 167
BRUNSWICK	3770	- 60	GALLUP	2266	+ 54	HAMPTON/LANGLEY	3336	+ 272
COLUMBUS/METRO	3673	+ 109	TRUTH OR CONSEQ.	3263	+ 178	LYNCHBURG	3125	+ 356
MACON	3610	+ 41	NY ALBANY	2322	+ 199	NORFOLK	3313	+ 246
SAVANNAH	3796	+ 141	ELMIRA	2219	+ 208	RICHMOND	3181	+ 181
ID BOISE	2019	- 179	GLENS FALLS	2122	+ 175	WA BELLINGHAM	1424	+ 160
BURLEY	1869	- 56	ROCHESTER	2174	+ 89	HOQUIAM	1282	+ 195
IDAHO FALLS	1523	- 255	SYRACUSE	2201	+ 133	SEATTLE-TACOMA	1560	+ 91
POCATELLO	1648	- 263	UTICA	2016	+ 77	SPOKANE	1592	- 201
IL BELLEVILLE	3056	+ 131	NC WATERBURY	1963	+ 15	TACOMA	1616	+ 50
CHICAGO/MIDWAY	2531	+ 40	ASHEVILLE	2786	+ 193	WALLA WALLA	2161	- 116
DECATUR	2761	- 21	FAYETTEVILLE	3412	+ 153	WEAHCHEE	2213	- 107
PEORIA	2746	+ 182	GREENSBORO	3269	+ 255	YAKIMA	2009	- 65
ROCKFORD	2449	+ 125	HICKORY	3149	+ 160	WV HUNTINGTON	2963	+ 353
SPRINGFIELD	2853	+ 102	RALEIGH	3293	+ 200	MARTINSBURG	2694	+ 101
QUINCY	2747	+ 35	WILMINGTON	3553	+ 116	MORGANTOWN	2637	+ 135
IN INDIANAPOLIS	2758	+ 117	NEW BERN	3436	+ 101	WI EAU CLAIRE	1961	- 78
SOUTH BEND	2458	+ 156	ND BISMARCK	1734	- 194	GREEN BAY	1983	+ 95
TERRE HAUTE	2837	+ 153	DICKINSON	1486	- 332	LACROSSE	2204	+ 71
IA DES MOINES	2199	- 126	JAMESTOWN	1688	- 208	MADISON	2301	+ 87
MASON CITY	2104	- 233	MINOT	1528	- 269	WAUSAU	1816	- 72
OTTUMWA	2638	0	GRAND FORKS	1778	- 59	WY CASPER	1833	- 72
KS CHANUTE	2989	- 59	OH AKRON-CANTON	2406	+ 160	LANDER	1715	- 159
DODGE CITY	2767	- 123	COLUMBUS	2644	+ 187	SHERIDAN	1612	- 214
GARDEN CITY	2652	- 187	DAYTON	2639	+ 63	WORLD	1934	- 70
GOODLAND	2294	- 118	FINDLAY	2335	- 5			
MEDICINE LODGE	3144	+ 23	YOUNGSTOWN	2275	+ 178			
RUSSELL	2772	- 83	ZANESVILLE	2551	+ 145			

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 28, 1993

STATES AND STATIONS	TEMPERATURE °F							PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE		
AL BIRMINGHAM	94	71	96	70	82	4	T	-1.8	T	5.3	44	25.0	66	91	48	7	0	0	0	0	
MOBILE	93	73	95	72	83	1	T	-1.0	T	11.8	65	44.9	100	96	54	7	0	0	3	0	
MONTGOMERY	94	71	96	68	83	4	T	-1.3	T	12.4	86	34.6	88	92	50	7	0	0	3	0	
AK ANCHORAGE	64	47	69	40	56	1	T	-1.5	T	3.2	63	6.8	78	93	49	7	0	0	1	0	
BARROW	40	35	43	33	38	1	T	-1.2	T	2.0	95	2.9	101	95	80	0	0	0	5	0	
FAIRBANKS	64	39	73	33	52	-3	T	-1.1	T	2.7	53	6.3	86	96	45	0	0	0	1	0	
JUNEAU	59	48	62	44	54	0	T	-1.0	T	7.4	61	31.2	105	98	67	0	0	0	5	0	
KODIAK	57	49	63	41	53	-2	T	1.8	1.6	13.8	106	45.8	114	95	82	0	0	0	5	2	
WOMAK	58	41	65	30	49	1	T	-1.6	T	4.5	78	9.2	102	96	63	0	1	0	0	0	
AZ PHOENIX	95	77	107	72	86	-4	T	.3	T	5	27	9.2	207	65	37	4	0	0	3	0	
PRESCOTT	81	60	91	57	71	-2	T	.5	-2.2	1.4	20	13.3	101	74	39	2	0	0	3	0	
TUCSON	91	69	103	65	80	-3	T	1.0	-1.5	5.0	109	12.4	169	96	48	5	0	0	5	1	
YUMA	99	80	107	77	89	-2	T	-1.1	T	7.4	0	3.3	182	64	37	6	0	0	0	0	
AR FORT SMITH	97	74	102	71	86	6	T	1.2	-1.5	7.4	82	29.1	109	89	41	7	0	0	2	1	
LITTLE ROCK	97	74	98	73	85	6	T	-1.7	T	7.6	77	29.1	93	83	43	7	0	0	0	0	
CA BAKERSFIELD	99	69	102	66	84	3	T	.0	-1.0	.5	240	6.6	168	36	20	7	0	0	0	0	
EUREKA	63	52	65	47	58	0	T	-1.1	T	2.1	201	30.3	141	85	56	0	0	0	1	0	
FRESNO	99	65	102	61	82	3	T	.0	-1.0	1.6	>1000	11.5	165	62	18	7	0	0	0	0	
LOS ANGELES	74	63	77	61	68	-2	T	.0	-1.1	.7	529	18.5	234	95	70	0	0	0	0	0	
REDDING	96	64	103	56	80	-2	T	.0	-1.1	1.6	146	36.3	187	56	14	6	0	0	0	0	
SACRAMENTO	96	59	99	53	77	-3	T	.0	-1.0	1.3	625	19.1	177	78	18	7	0	0	0	0	
SAN DIEGO	76	65	79	63	71	-2	T	.0	-1.0	.4	253	15.5	246	89	68	0	0	0	0	0	
SAN FRANCISCO	84	57	94	53	71	-6	T	.0	-1.0	.2	133	19.4	158	80	38	1	0	0	0	0	
CO DENVER	84	56	93	52	70	0	T	-1.3	T	3.2	63	8.4	73	73	26	2	0	0	2	0	
GRAND JUNCTION	85	58	94	54	72	-4	T	.3	-1.0	1.5	66	9.0	140	73	25	1	0	0	3	0	
PUEBLO	84	55	96	47	70	-3	T	.3	-1.1	7.8	151	13.5	156	88	29	2	0	0	3	0	
CT BRIDGEPORT	87	68	93	57	78	6	T	.5	-2.2	4.6	45	20.6	74	78	51	3	0	0	2	0	
HARTFORD	90	62	99	49	76	6	T	.4	-1.5	9.3	91	28.2	99	92	44	4	0	0	2	0	
DC WASHINGTON	91	71	96	62	81	4	T	-1.9	T	7.0	65	25.9	101	87	56	4	0	0	0	0	
FL APALACHICOLA	90	74	95	73	82	1	T	3.1	1.4	1.1	9.7	30.1	83	99	56	4	0	0	0	0	
DAYTONA BEACH	90	74	96	72	82	1	T	.7	-1.8	4	9.4	55	23.2	74	99	63	2	0	7	0	
JACKSONVILLE	90	72	95	70	81	0	T	1.1	-2.3	3	10.7	66	25.8	79	98	71	3	0	5	0	
KEY WEST	91	79	93	75	85	1	T	1.1	-2.2	1.1	5.3	40	21.2	88	80	63	6	0	3	1	
MIAMI	92	76	96	74	84	1	T	2.3	-1.5	1.1	16.0	73	34.5	92	89	57	5	0	5	2	
ORLANDO	90	73	95	71	82	-1	T	2.8	1.3	1.2	14.9	72	31.6	91	95	62	4	0	5	2	
TALLAHASSEE	97	73	100	70	85	4	T	2.1	-1.5	1.8	17.0	75	40.2	84	91	46	7	0	3	1	
TAMPA	91	74	94	72	83	1	T	1.9	-2	1.3	9.8	52	23.8	76	90	58	5	0	4	1	
WEST PALM BEACH	89	74	93	71	81	-1	T	2.3	-1.8	1.2	13.0	65	38.7	102	95	64	3	0	5	2	
CA ATLANTA	93	73	95	73	83	6	T	.8	-1.8	12.0	101	33.8	94	83	44	7	0	0	0	0	
AUGUSTA	96	69	97	66	82	3	T	.1	-1.8	.1	6.8	54	26.3	81	96	45	7	0	1	0	
MACON	94	71	96	68	82	3	T	-1.1	-1.7	11.4	102	36.0	111	91	46	7	0	1	0		
SAVANNAH	90	74	98	68	82	2	T	1.0	-1.6	.7	9.9	52	31.2	85	89	57	3	0	4	1	
HI HILO	83	69	85	67	76	0	T	1.6	-1.5	.7	36.0	147	69.4	83	91	66	0	0	5	1	
HONOLULU	89	73	91	70	81	-1	T	-1.1	T	1.3	82	2.8	23	76	51	1	0	0	1	0	
KAHULUI	88	72	91	66	80	0	T	-1.0	T	1.9	170	7.2	54	75	54	1	0	0	3	0	
LIHUE	85	75	86	71	80	0	T	.4	-1.1	3.5	65	9.7	38	76	59	0	0	0	1	0	
ID BOISE	78	46	87	36	62	-9	T	.0	-1.1	2.8	187	10.9	142	69	21	0	0	0	0	0	
LEWISTON	77	53	86	47	65	-7	T	.0	-2.2	3.1	117	10.5	126	59	24	0	0	0	0	0	
POCATELLO	78	44	88	34	61	-6	T	-2	T	5.7	250	15.2	189	73	23	0	0	0	0	0	
IL CHICAGO	87	68	94	61	78	8	T	1.4	.5	1.4	18.5	165	34.1	144	94	59	3	0	1	1	
MOLINE	87	70	94	63	79	8	T	.5	-4	5	24.5	188	41.4	154	95	65	4	0	2	0	
PRORIA	88	70	93	67	79	8	T	1.2	-1.5	.9	22.9	208	40.3	166	96	68	3	0	3	1	
QUINCY	89	70	93	68	80	7	T	.1	-1.7	1	13.8	118	24.5	94	87	58	2	0	2	0	
ROCKFORD	86	68	92	62	77	8	T	.4	-1.6	2	17.6	142	34.0	138	96	61	3	0	3	0	
SPRINGFIELD	90	71	94	69	81	8	T	.5	-1.3	.3	19.6	197	34.2	144	89	60	5	0	2	0	
IN EVANSVILLE	96	71	99	64	84	8	T	-1.7	T	8.5	75	26.5	84	92	49	7	0	0	0	0	
FORT WAYNE	91	66	94	51	79	8	T	-2	-1.5	1	11.3	112	30.3	128	96	54	4	0	2	0	
INDIANAPOLIS	90	69	92	60	79	7	T	1.7	1.0	1.3	16.5	146	32.4	118	94	52	4	0	3	1	
SOUTH BEND	88	69	93	61	79	9	T	.6	-2.2	.6	15.4	137	29.6	116	89	56	4	0	3	1	
IA DES MOINES	85	69	92	65	77	7	T	2.7	1.8	1.3	26.3	219	43.1	181	91	65	2	0	4	3	
SIOUX CITY	84	66	91	61	75	4	T	.6	-1.1	3	13.8	143	24.2	128	93	62	2	0	3	0	
WATERLOO	84	67	90	63	75	7	T	1.9	1.2	1.4	28.0	222	43.6	181	95	66	1	0	4	1	
KS CONCORDIA	89	69	95	66	79	4	T	.6	-2.2	.4	27.6	243	38.2	178	91	57	4	0	2	0	
DODGE CITY	92	65	97	61	79	2	T	.6	.0	.3	12.5	142	22.9	138	92	35	5	0	4	0	
GOODLAND	83	61	91	53	72	1	T	.5	-1.1	2	11.1	144	16.6	115	94	49	2	0	4	0	
TOPEKA	92	69	98	67	81	6	T	2.4	1.5	1.7	18.3	145	36.7	149	92	52	5	0	3	2	
WICHITA	96	71	102	68	83	7	T	.8	-1.8	T	12.0	97	27.5	114	75	33	6	0	1	0	
KY BOWLING GREEN	95	69	98	62	82	7	T	.2	-1.5	2	7.3	61	22.5	65	95	45	7	0	2	0	
LEXINGTON	92	69	94	62	80	7	T	.8	-1.0	.8	13.2	108	29.6	95	92	55	5	0	2	1	
LOUISVILLE	94	72	97	65	83	8	T	.7	-1.7	T	13.9	124	33.2	108	95	58	6	0	0	0	
LA BATON ROUGE	92	73	94	71	83	1	T	.1	-1.1	1	11.4	68	46.7	111	99	54	6	0	3	0	
LAKE CHARLES	92	74	94	73	83	2	T	.8	-1.5	5	14.3	95	44.9	127	93	57	6	0	3	1	
NEW ORLEANS	93	74	95	72	83	2	T	.3	-1.1	2	12.9	74	41.2	97	98	58	7	0	3	0	
SREVEPORT	97	72	99	69	85	4	T	-1.6	T	20.1	192	42.9	132	93	45	7	0	0	0	0	

Based on 1961-90 normals.

Weather Data for the Week Ending August 28, 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	TEMP. °F		PRECIP.	
																	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME CARIBOU	79	56	88	42	68	7	.4	-.5	.2	10.3	97	23.3	102	87	49	0	0	3	0	
ME PORTLAND	85	60	94	50	72	7	.4	-.4	.2	6.8	75	26.6	97	91	47	0	0	2	0	
MD BALTIMORE	91	66	98	58	79	4	.2	-.4	.2	6.8	63	27.8	102	83	45	0	0	0	0	
MD SALISBURY	89	66	96	60	77	4	.2	-.4	.2	6.8	79	33.6	109	98	62	0	0	0	0	
MA BOSTON	87	68	96	57	78	7	.7	-.7	.7	4.8	54	25.5	96	99	47	0	0	0	0	
MA CHATHAM	78	64	85	58	71	5	.5	-.5	.5	5.1	65	23.1	82	99	68	0	0	0	0	
MI ALPENA	83	59	88	44	71	6	2.7	-.9	1.	9.7	107	17.8	82	99	54	0	0	2	2	
MI DETROIT	89	67	96	53	78	8	2.3	-.5	1.	9.2	93	21.1	94	90	54	4	4	0	0	
MI FLINT	84	62	89	49	73	6	2.8	-.1	1.	10.2	112	21.6	111	94	60	0	0	0	0	
MI GRAND RAPIDS	86	67	92	53	76	9	2.5	1.6	1.5	13.6	135	28.4	126	89	57	4	4	2	2	
MI HOUGHTON LAKE	82	61	90	47	72	8	2.2	1.4	1.8	10.4	120	19.1	105	96	62	0	0	0	0	
MI LANSING	86	64	91	49	75	9	1.0	1.1	1.1	12.4	136	24.8	125	97	58	2	2	3	3	
MI MARQUETTE	80	60	88	53	70	9	.7	1.1	.6	8.2	87	20.9	96	92	54	0	0	2	2	
MI MUSKOGON	85	66	89	54	76	9	.5	1.1	.6	10.8	144	23.0	119	93	62	0	0	0	0	
MI SAULT ST. MARIE	78	56	88	48	67	6	.2	1.7	.2	10.8	144	23.0	119	93	62	0	0	0	0	
MN ALEXANDRIA	80	61	92	54	71	4	.6	1.4	.5	8.6	93	19.7	96	96	63	0	0	2	2	
MN DULUTH	79	60	87	51	69	7	1.4	.5	.8	15.8	143	25.6	127	95	53	0	0	4	4	
MN INT'L FALLS	80	59	91	46	69	8	1.0	.3	.7	11.1	107	16.7	98	96	54	1	1	4	4	
MN MINNEAPOLIS	82	65	89	57	73	5	1.0	.3	.7	17.7	163	26.6	130	94	60	0	0	1	1	
MN ROCHESTER	81	62	87	53	71	5	1.2	1.7	.4	18.4	160	32.2	154	95	59	0	0	3	3	
MS GREENWOOD	96	73	99	70	85	5	2.5	1.6	1.1	5.8	53	29.9	82	95	50	7	7	0	0	
MS JACKSON	93	73	95	70	83	3	1.4	1.3	.4	13.2	128	33.6	90	98	48	6	6	1	1	
MS MERIDIAN	97	72	98	70	84	4	.4	1.6	.4	13.2	128	33.6	98	94	46	7	7	0	0	
MO CAPE GIRARDEAU	94	71	97	67	82	7	1.1	1.3	.7	9.7	81	38.6	98	92	48	6	6	0	0	
MO COLUMBIA	92	70	94	68	81	7	.7	.0	.5	25.3	243	42.2	167	97	60	6	6	2	2	
MO KANSAS CITY	91	70	96	68	81	6	.7	.2	.6	20.2	159	38.6	151	88	59	5	5	1	1	
MO SAINT LOUIS	93	75	96	72	84	8	.6	.5	.5	17.0	167	36.7	146	86	53	6	6	1	1	
MO SPRINGFIELD	94	72	97	69	83	8	1.1	1.0	.1	15.6	132	31.2	111	86	47	0	0	2	2	
MT BILLINGS	74	51	88	42	63	6	1.1	1.0	.0	7.8	204	11.4	105	80	32	0	0	0	0	
MT GLASGOW	72	53	83	45	62	6	1.1	1.0	1.0	10.8	213	14.5	168	83	46	0	0	1	1	
MT GREAT FALLS	68	46	79	38	57	7	1.1	1.3	.1	9.2	184	18.1	157	83	34	0	0	2	2	
MT HAVRE	70	47	82	38	59	8	.4	.1	.2	8.3	196	11.1	132	82	40	0	0	0	0	
MT HELENA	69	47	81	37	58	6	.6	.3	.4	10.6	257	16.3	188	81	38	0	0	2	2	
MT KALISPELL	69	40	75	31	54	6	.4	.0	.4	11.0	239	18.0	161	83	41	0	1	1	1	
MT MILES CITY	75	56	87	45	66	7	1.2	1.1	.4	12.0	224	16.9	160	83	41	0	0	2	2	
MT MISSOULA	71	43	79	32	57	7	.3	.0	.3	4.7	123	10.7	112	84	30	0	1	1	1	
NE GRAND ISLAND	83	66	93	64	75	3	.9	.2	.8	19.8	213	28.4	152	93	64	2	2	1	1	
NE LINCOLN	86	68	94	64	77	4	1.1	1.1	.7	8.5	83	19.0	94	97	58	2	2	1	1	
NE NORFOLK	85	65	91	61	75	4	1.1	1.4	.1	16.5	165	26.8	140	89	53	2	2	0	0	
NE NORTH PLATTE	83	60	90	56	71	4	1.1	1.3	.4	15.2	189	22.2	143	94	48	0	0	0	0	
NE OMAHA	85	68	92	64	77	5	1.2	1.4	1.1	21.3	212	32.8	158	90	65	2	2	0	0	
NE SCOTTSBLUFF	91	56	93	51	69	5	1.2	1.4	1.1	11.2	196	17.5	145	92	37	1	1	0	0	
NE VALENTINE	85	57	98	52	71	6	1.1	1.1	.7	9.6	102	16.4	95	89	37	2	2	1	1	
NV ELY	84	41	90	34	62	2	1.0	1.1	.0	2.1	91	7.9	116	68	14	1	1	1	1	
NV LAS VEGAS	100	75	106	69	88	1	1.0	1.1	.2	1.1	3	4.6	169	36	17	7	7	0	0	
NV RENO	89	50	93	45	69	2	.0	1.1	.0	4	35	4.9	100	69	15	4	4	0	0	
NV WINNEMUCA	86	42	92	34	64	2	.0	1.3	.0	1.3	81	6.2	115	75	14	2	2	0	0	
NH CONCORD	88	55	93	42	71	6	1.2	1.5	.2	6.0	64	16.9	73	97	43	4	4	1	1	
NJ ATLANTIC CITY	87	65	93	56	76	4	1.2	1.7	.2	8.6	84	26.9	99	95	55	4	4	0	0	
NM ALBUQUERQUE	87	60	94	58	74	4	1.1	1.5	.6	2.7	79	5.7	96	73	35	3	3	4	4	
NM CLOVIS	89	62	93	59	76	2	1.0	1.1	.7	9.7	117	11.8	95	76	29	3	3	0	0	
NM ROSWELL	95	65	100	64	80	3	1.0	1.1	.6	5.7	101	8.2	99	72	23	7	7	0	0	
NY ALBANY	87	59	94	47	73	5	1.1	1.6	.1	10.7	107	27.6	115	91	49	2	2	1	1	
NY BINGHAMTON	83	59	88	46	71	5	1.3	1.5	.3	10.4	103	28.0	116	90	53	0	0	1	1	
NY BUFFALO	85	62	91	47	74	6	1.2	1.8	.2	10.3	99	24.0	100	85	49	1	1	2	2	
NY NEW YORK	89	71	96	62	80	6	1.0	1.1	.6	9.5	86	28.1	100	78	49	4	4	0	0	
NY ROCHESTER	86	59	94	47	73	6	1.0	1.8	.1	5.7	65	16.3	79	91	48	2	2	0	0	
NY SYRACUSE	85	59	92	49	72	5	2.9	2.1	2.9	12.2	113	30.2	122	92	59	2	2	1	1	
NC ASHEVILLE	85	64	88	63	76	4	1.1	1.2	.1	8.5	57	28.4	75	96	56	0	0	2	2	
NC CHARLOTTE	91	71	94	69	81	4	1.3	1.5	.2	5.5	52	26.6	91	83	49	5	5	2	2	
NC GREENSBORO	90	68	92	67	79	4	1.6	1.6	.6	8.7	74	32.4	112	92	54	4	4	1	1	
NC HATTERAS	87	67	90	64	77	1	1.0	1.4	.0	6.7	46	29.0	81	89	54	2	2	0	0	
NC NEW BERN	90	67	93	61	79	1	1.0	1.4	.0	11.4	62	33.1	86	92	39	4	4	0	0	
NC RALEIGH	90	67	93	63	78	2	1.0	1.9	.0	4.2	37	25.2	87	90	50	5	5	0	0	
NC WILMINGTON	89	68	93	64	79	1	1.0	1.6	.0	16.4	90	40.1	103	95	54	2	2	0	0	
ND BISMARCK	80	58	91	51	69	3	1.2	1.2	.1	20.1	313	24.7	207	87	44	1	1	2	2	
ND FARGO	83	61	96	52	72	5	1.1	1.5	.9	12.9	167	18.2	128	89	50	2	2	1	1	
ND GRAND FORKS	79	60	93	49	69	5	1.1	1.6	.9	14.1	192	16.8	126	92	53	1	1	2	2	
ND WILLISTON	73	55	81	49	64	3	1.3	1.1	.1	14.3	260	16.8	161	88	47	0	0	4	4	
OH AKRON-CANTON	90	64	95	48	77	8	1.0	1.7	.7	8.8	86	24.1	97	88	44	3	3	1	1	
OH CINCINNATI	90	69	93	60	80	7	1.0	1.3	.5	10.2	92	26.5	93	93	56	6	6	3	3	
OH CLEVELAND	88	64	94	47	76	7	1.1	1.7	.1	9.3	90	24.9	104	89	53	3	3	1	1	
OH COLUMBUS	93	68	96	54	80	11	1.1	1.7	.1	10.0	93	26.4	103	94	49	6	6	2	2	
OH DAYTON	90	68	93	54	79	8	1.8	1.1	1.5	13.6	133	34.9	138	92	54	5	5	0	0	

Based on 1961-90 normals.

Weather Data for the Week Ending August 28, 1993

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
TOLEDO	92	64	99	47	78	10	T	-.7	T	6.8	68	19.4	88	90	47	5	0	1	0	0	0
YOUNGSTOWN	89	59	95	42	74	6	.2	-.6	T	8.3	76	22.0	88	91	41	3	0	1	0	0	0
OK OKLAHOMA CITY	94	69	100	65	82	2	.7	-.0	T	5.1	55	25.9	114	90	43	0	0	2	1	0	0
TULSA	97	72	102	68	84	4	.1	-.6	T	6.4	62	25.5	96	87	42	0	0	1	2	0	0
OR ASTORIA	66	48	69	44	57	-4	-.1	-.2	T	6.1	129	34.2	93	95	51	0	0	0	0	0	0
BURNS	73	35	82	28	54	-8	.0	-.2	T	1.5	80	8.0	129	77	23	0	0	2	0	0	0
MEDFORD	83	49	91	41	66	-5	.0	-.1	T	3.1	242	12.9	130	84	27	1	1	0	0	0	0
PENDLETON	75	50	87	42	63	-8	.0	-.1	T	4.4	293	11.8	160	76	29	0	0	0	0	0	0
PORTLAND	76	52	87	48	64	-4	.2	-.1	T	4.5	145	22.3	110	93	43	0	0	2	2	0	0
SALEM	77	48	88	42	62	-4	T	-.2	T	4.6	180	25.4	118	89	35	0	0	1	1	0	0
PA ALLENTOWN	88	65	94	53	77	6	.3	-.7	T	12.5	107	32.2	111	92	51	4	4	0	0	0	0
ERIE	85	66	89	54	75	6	T	-.9	T	9.4	84	22.0	87	94	50	0	0	1	2	0	0
HARRISBURG	91	67	96	53	79	6	.0	-.7	T	9.6	93	29.1	108	84	46	4	4	0	0	0	0
PHILADELPHIA	91	71	97	62	81	9	1.1	-.2	T	8.7	70	27.0	88	82	47	4	4	0	0	1	1
PITTSBURGH	91	65	98	53	78	9	.4	-.3	T	4.4	85	25.0	99	84	45	3	0	1	1	0	0
SCRANTON	88	62	92	49	75	7	1.4	-.7	T	1.4	6.3	22.2	87	88	50	4	4	0	3	1	1
RI PROVIDENCE	88	64	95	55	76	6	.3	-.2	T	4.8	49	25.5	87	90	47	4	4	0	0	0	0
SC CHARLESTON	89	72	91	68	81	1	.3	-.1	T	15.0	75	38.2	102	94	59	3	3	0	1	1	0
COLUMBIA	95	69	98	65	82	3	.1	-.2	T	5.1	32	26.5	73	93	44	7	7	0	0	0	0
FLORENCE	94	71	97	67	82	4	.0	-.2	T	9.2	63	24.4	77	93	39	7	7	0	0	0	0
GREENVILLE	91	69	94	66	80	4	.2	-.7	T	11.8	14	28.6	82	95	51	4	4	0	2	0	0
SD ABERDEEN	85	60	95	51	73	5	T	-.7	T	15.3	166	21.5	132	91	50	2	2	0	0	0	0
HURON	84	61	91	55	73	3	.1	-.3	T	15.3	206	25.1	162	92	53	2	2	0	0	0	0
RAPID CITY	81	56	94	50	69	0	.0	-.3	T	9.9	204	16.3	124	80	39	1	1	1	1	0	0
STOUX FALLS	84	64	92	57	74	0	.5	-.3	T	17.3	201	31.8	187	85	54	2	2	0	0	0	0
TN CHATTANOOGA	97	71	99	69	84	7	.2	-.6	T	5.1	44	28.0	78	95	46	6	6	0	3	0	0
KNOXVILLE	91	69	93	66	80	5	T	-.6	T	9.0	78	27.7	85	95	54	7	7	0	0	0	0
MEMPHIS	96	76	98	74	86	6	T	-.7	T	8.7	83	28.6	83	87	50	6	6	0	1	0	0
NASHVILLE	96	72	98	67	84	7	.5	-.3	T	10.7	100	29.9	93	91	46	7	7	0	0	0	0
TX ABILENE	95	71	98	67	83	1	T	-.7	T	5.0	67	11.0	69	74	33	7	7	0	0	0	0
AMARILLO	88	63	92	61	76	1	.4	-.4	T	8.5	92	13.2	90	82	33	2	2	0	0	0	0
AUSTIN	99	76	100	74	87	3	.0	-.5	T	4.0	53	20.9	101	82	36	7	7	0	0	0	0
BRAUNMONT	93	75	95	73	84	2	2.8	1.6	T	20.9	132	51.4	141	97	59	6	6	4	4	2	2
BROWNSVILLE	95	76	96	73	85	1	.0	-.8	T	6.8	96	17.1	116	93	47	7	7	0	0	0	0
CORPUS CHRISTI	92	76	96	73	84	0	.7	-.2	T	12.7	147	29.0	159	95	56	6	6	2	2	1	1
DEL RIO	96	75	99	71	85	3	.1	-.2	T	6.4	89	10.2	63	77	45	7	7	0	1	0	0
EL PASO	96	71	102	68	84	5	T	-.3	T	4.1	112	5.9	112	61	29	7	7	0	1	0	0
FORT WORTH	98	77	100	74	87	6	T	-.6	T	4.5	61	20.3	86	75	39	7	7	0	1	0	0
GALVESTON	91	80	93	75	85	2	.7	-.4	T	4.1	33	30.7	118	78	66	6	6	4	4	2	2
HOUSTON	96	75	100	72	85	3	1.7	-.7	T	14.2	101	45.5	136	91	49	6	6	0	0	0	0
LUBBOCK	94	67	97	64	81	4	.3	-.3	T	6.2	84	11.2	89	75	32	7	7	0	2	0	0
MIDLAND	94	67	98	63	80	1	1.4	-.9	T	5.6	121	10.0	110	79	34	7	7	0	2	2	2
SAN ANGELO	96	70	100	65	83	2	.2	-.4	T	2.3	45	9.7	77	84	35	7	7	0	1	0	0
SAN ANTONIO	97	76	100	73	87	2	T	-.6	T	6.4	78	27.3	137	82	39	7	7	0	0	0	0
VICTORIA	94	77	98	75	85	3	.7	-.2	T	13.2	110	41.9	152	90	53	6	6	4	1	1	1
WACO	98	75	99	70	86	2	.0	-.5	T	3.0	45	19.3	94	82	38	7	7	0	0	0	0
WICHITA FALLS	97	71	100	66	84	2	.2	-.5	T	4.6	58	20.3	97	76	40	7	7	0	1	0	0
UT CEDAR CITY	88	53	92	48	70	0	.0	-.3	T	1.1	39	7.9	102	54	19	1	1	0	0	0	0
SALT LAKE CITY	86	56	95	52	71	-2	T	-.2	T	3.0	118	14.5	135	61	21	2	2	0	0	0	0
VT BURLINGTON	85	58	91	46	72	6	1.4	-.5	T	10.3	95	21.9	98	94	49	1	1	0	2	1	1
VA NORFOLK	91	69	97	62	80	4	.0	-1.0	T	4.6	35	24.2	78	83	45	5	5	0	0	0	0
RICHMOND	92	68	98	64	80	4	T	-.9	T	7.5	59	30.0	102	85	48	5	5	0	0	0	0
ROANOKE	92	66	95	62	79	6	T	-.9	T	4.8	44	25.1	92	87	47	5	5	0	0	0	0
WA QUILLAYUTE	66	47	69	41	57	-2	.7	-.1	T	5.9	74	44.7	75	97	53	0	0	1	1	1	1
SEATTLE-TACOMA	72	52	77	48	62	-3	.1	-.2	T	3.9	120	20.6	102	87	48	0	0	2	0	0	0
SPOKANE	70	45	77	39	58	-9	T	-.2	T	3.8	146	10.5	103	81	31	0	0	0	0	0	0
YAKIMA	77	44	85	36	60	-7	.0	-.1	T	1.5	140	4.6	99	86	30	0	0	0	0	0	0
WV BECKLEY	86	64	90	58	75	7	T	-.7	T	8.3	72	25.8	91	91	55	1	1	0	1	0	0
CHARLESTON	93	67	94	59	80	7	.4	-.5	T	9.7	79	25.0	86	95	49	6	6	0	1	0	0
HUNTINGTON	93	68	97	63	81	10	.4	-.4	T	11.2	91	27.4	92	95	49	6	6	0	1	0	0
FARRERSBURG	92	66	94	57	79	7	1.7	-.9	T	1.5	8.5	72	26.1	90	99	45	6	6	0	2	1
WI GREEN BAY	85	63	92	56	74	9	.9	-.1	T	4	15.7	163	26.5	139	95	60	1	1	0	4	0
LACROSSE	85	66	91	59	75	7	.5	-.4	T	5	17.2	153	34.1	161	97	53	3	3	0	2	1
MADISON	85	67	90	62	76	9	1.1	-.2	T	20.9	189	36.1	165	88	60	1	1	0	3	1	1
MILWAUKEE	89	71	95	65	80	12	T	-.8	T	12.3	124	27.3	124	84	53	5	5	0	0	0	0
WAUSAU	83	62	91	54	73	7	1.8	-.8	T	10	13.9	117	26.8	122	93	51	1	1	0	3	2
WY CASPER	85	52	95	49	69	2	.1	-.1	T	4.8	144	12.2	134	74	16	1	1	0	2	0	0
CHEYENNE	77	52	87	49	65	0	.2	-.2	T	1	6.1	107	12.3	109	76	29	0	0	2	0	0
LANDER	83	50	92	44	66	0	T	-.1	T	6.2	227	12.7	136	62	17	1	1	0	0	0	0
SHERIDAN	79	47	92	38	63	-3	T	-.2	T	7.4	192	14.0	135	80	31	1	1	0	0	0	0

Based on 1961-90 normals.

National Agricultural Summary

August 23 - 29, 1993

HIGHLIGHTS: Hot, humid conditions covered the eastern two-thirds of the Nation last week, allowing row crops to make good progress but stressing livestock. Scattered showers fell from Arizona to Maine, bringing relief to some dry fields. However, conditions were turning dry in the Ohio Valley, and remained dry in the Southeast. Temperatures were near or above normal except in the Northwest where temperatures averaged 6 to 9 degrees below-normal.

SMALL GRAINS: Winter wheat harvest in the 19 major wheat-producing States reached 94 percent (%) complete, compared with 98% by this time in 1992 and 99% average. Harvest progress in the Northwest accelerated as the grain matured and good harvesting conditions prevailed. The spring wheat harvest reached 29% of the crop harvested, compared with 42% last year and 82% average. Favorable conditions allowed good progress for harvesting in South Dakota and Minnesota. Crop quality problems remained a concern for producers in North and South Dakota. Disease problems occurred in some Idaho spring wheat. Spring wheat condition rated 53% good to excellent, compared with 49% last week. Oats, barley, and rye harvests advanced across the northern parts of the Nation. Scattered showers, wet fields, and heavy dew hindered harvest in North Dakota. Some areas of South Dakota reported low test weights for oats. In Washington, some cereal grain yields were reported as mostly good to excellent.

CORN: Corn in the dough stage in the 17 major producing States reached 62%, compared with 69% a year ago and 83% average. Dough progress advanced rapidly in the eastern Corn Belt and Ohio Valley, where progress was ahead of average. Corn in dent was 27%, compared with 29% last year and 50% average. Denting progress was near average in the eastern Corn Belt, the Ohio Valley, and the Southeast. Corn condition improved with 55% of the crop rated good to excellent, compared with 52% last week.

SOYBEANS: Soybean blooming reached 97%, compared with 98% last year and 97% average. Blooming progress was behind last year or average in the Southeast and middle Mississippi Valley. Setting pods averaged 85%, compared with 91% a year ago and 89% average. Setting pod progress advanced markedly in Michigan, Minnesota, Mississippi, and Missouri. Nationally, 1% of the acreage had dropped leaves, compared with 2% last year and 5% average. Producers in Illinois and Arkansas expressed concern over possible sudden death syndrome, a soil-borne fungal disease, in their crops. Soybean condition improved from last week, with 49% of the crop rated good to excellent.

COTTON: Cotton-setting bolls in the 14 major producing States reached 96%, compared with 94% last year and 97% average. Boll opening occurred on 26% of the acreage, compared with 24% last year and 23% average. Insects caused problems to the crop in Arizona, Arkansas, Oklahoma, and Tennessee. The continued hot conditions stressed some fields in Texas and Tennessee, and reduced crop conditions in Georgia. Nationally, cotton condition was rated 52% good to excellent, down 2 points from last week.

SORGHUM: Grain sorghum headed in the 12 major producing States (excluding New Mexico) reached 91%, compared with 86% last year and 91% average. Grain sorghum coloring averaged 46%, compared with 46% last year and 52% average. The central Great Plains showed the greatest advances in sorghum heading,

while the lower Mississippi Valley had the largest advances in coloring. The hot, dry conditions stressed sorghum in some fields of Kansas but promoted maturity in other fields. Sorghum condition improved with 63% of the crop good to excellent, compared with 58% the previous week.

RICE: Rice headed in the five major producing States reached 89%, compared with 96% last year and 90% average. Progress of the rice harvest reached 18%, compared with 27% last year and 23% average. Sheath blight problems occurred in some Arkansas fields. Blackbird damage occurred in some fields in California. The harvest advanced in Texas and Louisiana, with no unusual problems reported. Rice condition declined slightly from last week with 77% rated good to excellent.

OTHER FIELD CROPS: Dry conditions stressed the peanut crop in Texas and Georgia. Spider mite problems persisted in some peanut fields in Virginia. The progress of the tobacco harvest lagged normal in North Carolina and Tennessee. Cool conditions hindered growth of fall-crop potatoes in the Northwest and California. Early potato harvest was active in the Northwest and the Northeast. Dry conditions in Ohio hindered the planting of new alfalfa.

FRUIT AND NUTS: Early apple harvest continued in Washington, and advanced in other parts of the Nation. The California summer fruit harvest advanced normally. The prune harvest advanced, with a high quality crop, but a lower than expected yield. Abundant rainfall occurred over the Florida citrus area, promoting more growth. In California, citrus growers were harvesting oranges and spraying their groves for pests. The almond and pistachio harvests gained momentum. Hazelnut and walnut prospects continued good in Oregon. Hot, dry conditions caused nut drop and small nuts in some Georgia and Texas pecan orchards.

VEGETABLES: The processing sweet corn harvest was active in Wisconsin and Minnesota. Progress was behind normal and average in Minnesota, and early reported yields were less than expected in Wisconsin. The California processing tomato harvest was in full swing. Some mold and blossom end rot was reported in some tomato fields in Ohio. Vegetable producers continued to prepare land and plant fall crops in Florida, Texas, and California.

PASTURE AND LIVESTOCK: Pasture feed conditions declined in the East, South, and West, with the hot, dry conditions. Pasture feed supplies in the Northwest, North, and Midwest remained mostly adequate due to scattered showers. Supplemental feeding increased where pasture feed was short. Hay supplies remained mostly adequate, although increased livestock culling was reported in Texas and Tennessee due to locally short feed supplies. Livestock and poultry were stressed by the hot and humid conditions. Fly and pinkeye problems occurred on some livestock in the Midwest. Nationally, livestock condition was reported as fair to good.

Crop Progress

for the Week Ending August 29, 1993

COTTON (Percent Setting Bolls)

	Current	Last Wk	1992	Avg.
AL	97	95	100	100
AZ	100	100	100	100
AR	100	100	100	100
CA	99	99	100	100
GA	100	100	100	100
LA	100	99	100	100
MS	100	100	100	100
MO	100	100	100	100
NM	100	98	99	99
NC	95	92	88	96
OK	100	99	78	93
SC	100	100	100	99
TN	100	100	100	100
TX	92	88	87	94
14 States	96	94	94	97

COTTON (Percent Bolls Opening)

	Current	Last Wk	1992	Avg.
AL	16	9	15	25
AZ	76	58	66	66
AR	12	5	9	9
CA	25	10	50	26
GA	29	19	11	22
LA	21	10	52	38
MS	29	7	29	38
MO	10	3	3	14
NM	14	6	3	19
NC	20	5	16	21
OK	9	5	5	4
SC	24	13	10	16
TN	21	5	7	12
TX	29	24	19	20
14 States	26	16	24	23

SPRING WHEAT (Percent Harvested)

	Current	Last Wk	1992	Avg.
ID	8	5	92	71
MN	30	17	40	86
MT	5	3	32	69
ND	21	10	34	81
SD	86	56	73	94
5 States	29	17	42	82

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

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

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

SOYBEANS (Percent Blooming)

	Current	Last Wk	1992	Avg.
AL	82	78	84	86
AR	89	81	95	83
GA	94	91	99	97
IL	99	96	100	100
IN	100	100	100	100
IA	97	90	100	100
KS	97	95	98	97
KY	95	90	97	94
LA	96	95	99	94
MI	100	100	97	99
MN	99	95	99	99
MS	98	84	99	93
MO	95	89	97	96
NE	100	97	100	100
NC	84	71	74	81
OH	100	100	100	100
SC	90	79	91	89
SD	91	81	98	100
TN	94	89	94	89
19 States	97	92	98	97

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

SOYBEANS (Percent Setting Pods)

	Current	Last Wk	1992	Avg.
AL	63	55	71	66
AR	66	50	79	62
GA	76	61	87	83
IL	95	78	96	97
IN	97	88	94	93
IA	86	72	98	99
KS	85	75	85	85
KY	60	50	74	65
LA	88	87	93	81
MI	95	75	55	80
MN	84	50	99	99
MS	75	53	88	75
MO	78	58	92	85
NE	95	78	94	96
NC	62	50	60	60
OH	98	87	96	92
SC	55	44	69	59
SD	70	52	85	96
TN	73	60	80	68
19 States	85	68	91	89

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

SOYBEANS (Percent Dropping Leaves)

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

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

CORN (Percent Dough)

	Current	Last Wk	1992	Avg.
CO	45	32	47	74
GA	100	100	100	100
IL	85	71	85	89
IN	93	77	86	88
IA	35	15	55	77
KS	90	75	85	95
KY	96	91	95	92
MI	30	15	15	50
MN	16	7	57	83
MO	85	60	93	94
NE	72	51	83	92
NC	91	89	91	96
OH	90	68	84	81
PA	65	40	40	53
SD	39	17	49	86
TX	94	90	93	98
WI	45	23	38	63
17 States	62	45	69	83

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

CORN (Percent Dent)

	Current	Last Wk	1992	Avg.
CO	10	2	14	20
GA	100	99	100	100
IL	38	21	39	60
IN	40	15	31	51
IA	10	0	20	50
KS	50	35	45	65
KY	78	56	78	68
MI	3	1	2	15
MN	4	0	7	38
MO	55	24	67	76
NE	22	7	28	54
NC	87	78	84	84
OH	37	12	24	37
PA	19	8	6	15
SD	9	1	15	45
TX	83	74	87	92
WI	15	5	7	28
17 States	27	13	29	50

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

**SORGHUM
(Percent Headed)**

	Current	Last Wk	1992	Avg.
AR	95	93	100	95
CO	72	57	65	75
IL	89	87	97	92
KS	90	75	75	85
LA	98	97	100	97
MS	99	97	100	98
MO	90	79	96	92
NE	93	79	94	96
NM	75	69	89	NA
OK	94	81	76	86
SD	74	50	74	86
TX	94	90	89	94
12 States	91	81	86	NA
Excl. States with NA	91	82	86	91

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

**SORGHUM
(Percent Coloring)**

	Current	Last Wk	1992	Avg.
AR	74	54	90	74
CO	13	6	8	19
IL	21	9	50	46
KS	20	5	15	25
LA	87	81	99	84
MS	91	71	96	81
MO	42	26	59	52
NE	9	3	16	41
NM	19	11	14	NA
OK	35	28	40	48
SD	5	3	12	38
TX	81	77	73	73
12 States	46	37	45	NA
Excl. States with NA	46	37	46	52

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

**WINTER WHEAT
(Percent Harvested)**

	Current	Last Wk	1992	Avg.
AR	100	100	100	100
CA	99	99	99	99
CO	97	96	97	97
GA	100	100	100	100
ID	39	21	99	88
IL	100	100	100	100
IN	100	100	100	100
KS	100	100	100	100
MI	100	100	100	100
MO	100	100	100	100
MT	44	24	77	90
NE	100	100	100	100
NC	100	100	100	100
OH	100	100	100	100
OK	100	100	100	100
OR	92	82	99	95
SD	99	95	100	100
TX	100	100	100	100
WA	75	62	99	95
19 States	94	91	98	99

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

**RICE
(Percent Headed)**

	Current	Last Wk	1992	Avg.
AR	87	75	97	86
CA	85	75	90	80
LA	93	86	96	95
MS	85	66	99	96
TX	94	89	99	100
5 States	89	78	96	90

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

**RICE
(Percent Harvested)**

	Current	Last Wk	1992	Avg.
AR	3	1	19	6
CA	0	0	0	0
LA	57	45	56	55
MS	4	2	3	6
TX	36	25	54	70
5 States	18	13	27	23

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

**Crop Condition
(Percent)**

RICE

State	VP	P	F	G	EX
AR	0	0	0	100	0
CA	0	0	5	90	5
LA	0	0	73	27	0
MS	0	0	61	39	0
TX	0	0	17	80	3
5 State	0	0	23	76	1
Prev Week	0	1	20	78	1
Prev Year	0	1	45	52	2

SOYBEANS

State	VP	P	F	G	EX
AL	0	16	40	44	0
AR	0	6	52	42	0
GA	20	38	33	9	0
IL	0	1	16	70	13
IN	0	1	16	78	5
IA	1	14	53	30	2
KS	0	0	34	47	19
KY	0	2	48	45	5
LA	0	9	63	28	0
MI	1	4	20	50	25
MN	13	35	43	7	2
MS	0	38	52	10	0
MO	1	7	57	34	1
NE	0	0	15	70	15
NC	4	20	59	17	0
OH	3	10	35	43	9
SC	16	34	49	1	0
SD	0	12	49	36	3
TN	0	14	36	50	0
19 State	2	11	38	43	6
Prev Week	2	12	39	41	6
Prev Year	1	4	24	60	11

CORN

State	VP	P	F	G	EX
CO	2	5	14	58	21
GA	12	25	51	12	0
IL	0	1	11	68	20
IN	0	1	16	77	6
IA	1	16	61	21	1
KS	0	0	17	54	29
KY	1	4	36	57	2
MI	1	4	20	55	20
MN	13	42	35	8	2
MO	0	18	41	39	2
NE	0	1	16	72	11
NC	14	45	33	8	0
OH	4	11	36	40	9
PA	3	12	25	47	13
SD	1	11	42	42	4
TX	0	5	16	68	11
WI	1	3	47	45	4
17 State	2	11	32	46	9
Prev Week	3	14	31	44	8
Prev Year	1	4	17	61	17

SORGHUM

State	VP	P	F	G	EX
AR	0	7	47	46	0
CO	1	7	20	60	12
IL	0	0	15	79	6
KS	0	2	22	50	26
LA	0	5	52	43	0
MS	0	0	64	36	0
MO	1	4	50	45	0
NE	0	11	35	51	3
NM	2	15	51	31	1
OK	0	4	22	74	0
SD	7	6	38	45	4
TX	1	9	24	57	9
12 State	1	7	29	52	11
Prev Week	1	5	36	49	9
Prev Year	0	3	21	60	16

SPRING WHEAT

State	VP	P	F	G	EX
ID	1	2	17	67	13
MN	13	33	43	8	3
MT	1	5	17	51	26
ND	0	11	27	57	5
SD	2	13	45	37	3
5 State	3	14	30	45	8
Prev Week	2	12	37	42	7
Prev Year	N/A	N/A	N/A	N/A	N/A

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

COTTON

State	VP	P	F	G	EX
AL	0	8	50	42	0
AZ	0	0	15	75	10
AR	0	0	25	75	0
CA	0	0	0	90	10
GA	21	20	41	18	0
LA	0	0	70	30	0
MS	0	31	65	4	0
MO	0	10	60	30	0
NM	0	0	19	73	8
NC	0	7	69	24	0
OK	0	0	56	36	8
SC	14	62	21	3	0
TN	0	0	44	56	0
TX	1	11	30	53	5
14 State	1	10	37	48	4
Prev Week	0	7	39	49	5
Prev Year	5	11	40	39	5

State Summaries of Weather and Agriculture

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

ALABAMA: Rainfall none to 0.70 in. north; none to 1.61 in. central; none to 2.12 in. south. Temperatures 1 to 7° above normal north; at normal to 5° above normal central; 2 to 4° above normal south. Lows 65 to 72° north, central; 63 to 72° south, Highs 91 to 98° north; 91 to 96° central; 93 to 98° south.

Days suitable for fieldwork 6.4. Soil moisture 61% short, 39% adequate. Corn dented 96%, 97% 1992, 98% avg.; mature 76%, 85% 1992, 83% avg.; harvested 29%, 27% 1992, 44% avg.; 14% very poor, 34% poor, 42% fair, 10% good. Sorghum harvested 9%, 5% 1992, 22% avg.; 11% poor, 76% fair, 13% good. Peanuts dug 2%, 2% 1992, 4% avg.; 54% poor, 34% fair, 12% good. Pasture feed condition 20% poor, 53% fair, 24% good, 3% excellent. Primary activities: Scouting, spraying fields, harvesting vegetables, corn, land preparation for seeding small grains, general care of livestock, poultry, catfish.

ALASKA: Many areas of the State recorded evening temperatures in mid to low 30s last week. Clearwater experienced a killing frost of 25° on 25th, effectively ending their growing season.

Days suitable for haying, grain harvest 3, 5 days suitable for potato harvest. Topsoil 30% short, 70% adequate. Subsoil 55% short, 45% adequate. Second crop hay harvest was 20% complete, 5% less than 1992. Barley 100% ripe, 40% swathed, 40% combined. Last year at this time only 65% of barley was ripe. By weekend 100% of oats ripe, 10% swathed, 25% combined. Commercial potato harvest continues for fresh market, seed.

ARIZONA: Clear skies 21st. Light showers 22nd, southeast; Thunderstorms 23rd, south; 24th southeastern, southwestern; 25th, 26th statewide; 27th eastern. Temperatures normal to 6° below normal. Extremes 38°; 97° higher elevations, 57°; 110° deserts.

Cotton open bolls 76%, 66% 1992, 66% avg. Activities included: Final irrigating, pesticide applications, pest monitoring, defoliating. Harvest began on a limited basis in western areas. Cotton 15% fair, 75% good, 10% excellent. Hail damage in south central, eastern areas. Weeds light to moderate, insects moderate. Whitefly, aphids increasing in western areas. Alfalfa mostly good. Harvest moderate central, south central, active western, eastern. Weeds light to moderate, insects light to moderate; disease light. Rain damage light to moderate statewide. Central areas cantaloupe, honeydews, watermelons, harvested. Apples, peaches, sweet corn harvested eastern production areas. Cattle, calves poor to fair north, central; mostly good southeast. Soil moisture short, north; short to adequate, central, southeast; stockwater short to adequate, north; adequate, central; short to adequate southeast. Range, feed supplies below average north; average central; below average to average southeast. Insect damage light, central, southeast; moderate north.

ARKANSAS: Hot week, temperatures averaging above normal. Scattered showers, thunderstorms occurred in northwest region of State, the first part of week. Extremes 63°; 102°. Rainfall none to 3.67 inches.

Days suitable for fieldwork 7. Slow rate of crop growth. Soil 92% short, 8% adequate. Soybean, cotton irrigation continued. Stem canker, sudden death, downing mildew diseases in soybean fields. Armyworm larvae infestation in soybean fields. Boll weevils in cotton fields. Sheath blight disease in rice fields. Sorghum, rice harvesting continued. Corn harvested 28% current week, 24% 1992, 27% avg.; 6% poor, 38% fair, 56% good. High

temperatures continued to cause stress in poultry flocks. Hay cuttings continued. Armyworm larvae infestation reported in pastures. Producers continued to prepare for planting cool season forages. Pasture feed fair condition, some producers feeding hay. Livestock good condition, parasites.

CALIFORNIA: Slightly warmer than normal temperatures through week. Record high temperatures coastal locations.

Hot, dry weather prevailed. Safflower harvest progressed, good, excellent yields. Sheep grazing small grain stubble. Rice crop heading out, maturing, expecting harvest one month. Blackbird damage. Wild rice harvest underway. Defoliation cotton crop, harvesting south, treat aphids, mites, lygus. Corn irrigated, treated mites. Sunflowers headed, drying, harvest scattered areas. Sugarbeets dug, new crop thinned, weeded. Planting 1994 crop underway. Seed alfalfa harvest started. Alfalfa hay cut, good yields, quality. Summer fruit harvest continued including nectarines, peaches, plums, apples, pears, pomegranates, figs, Valencia oranges, table grapes, wine grapes, raisin grapes. Prune harvest was in full swing with high quality, lower yields reported. Almond, pistachio harvests gained momentum. Citrus growers treated for red scale, worms, weeds. Broccoli fairly light to moderate central coast. Broccoli, cabbage planting active Palo Verde Valley. Carrot digging underway Westside. Cauliflower moderate, celery fairly light to moderate central coast. Sweet corn harvest ongoing San Joaquin, Coachella valleys. Fall cucumbers planted central valley. Summer head lettuce moderate central coast. Fall lettuce planted San Joaquin Valley. Yellow onions topped, bagged central coast, harvest winding down few areas. Dehydrator onions Modesto-Turlock trucked to processors. Cool weather slowed development fall potatoes Tulelake-Butte Valley. Sweet potatoes harvested Merced-Atwater. Fresh market tomato summer harvest advanced, fall fields central valley sprayed, weeded. Processing tomato production full swing. Picking watermelons, cantaloupe, honeydew, crenshaw, other melons active. Melon harvest slow central valley due to late season. Bell pepper packing started to slow Fresno area. Other crops harvested: Eggplant, garlic, green beans, squash, various oriental vegetables. Range, pasture very dry. Feed conditions fair to good. Livestock moved to irrigated pastures. Supplemental feeding limited. Livestock good condition. Bees active melon fields.

COLORADO: Fair, warm 23rd, 24th gave way to increasing moisture on 25th with light rain mainly in the mountains, west. By 26th most of the State was cloudy and cool, flash flood watch was issued in the southwest, south central. Locally heavy rains continued in these areas on the 27th, decreased on the 28th. Substantial rains fell in portions of southern part of State with over 1.00 in. being reported at numerous locations in the southwest, San Luis Valley. Heaviest included around 2.50 in. in southern Las Animas County, also near Springfield. Temperatures near normal.

Days suitable for fieldwork 5.1. Soil moisture 9% very short, 34% short, 54% adequate, 3% surplus. Alfalfa 2nd cutting 78%, 80% 1992, 78% avg.; 3rd cutting 24%, 18% 1992, 21% avg. Spring barley harvested 81%, 71% 1992, 65% avg. Oats harvested 79%, 71% 1992, 66% avg. Winter wheat seeded 3%, 1% 1992, 5% avg. Dry beans cut 9%, 6% 1992, 7% avg.; harvested 4%, 3% 1992, 7% avg. Corn dough stage 45%, 47% 1992, 74% avg.; denting 10%, 14% 1992, 20% avg. Sorghum headed 72%, 65% 1992, 75% avg.; turning color 13%, 8% 1992, 19% avg. Summer potatoes harvested 55%, 58% 1992, 38% avg. Dry onions harvested 22%, 28% 1992, 31% avg. Fall potato 1% very poor, 4% poor, 18% fair, 49% good,

28% excellent. Dry onion 1% poor, 13% fair, 63% good, 23% excellent. Corn 2% very poor, 5% poor, 14% fair, 58% good, 21% excellent. Sugarbeets 2% poor, 13% fair, 64% good, 21% excellent. Livestock mostly good to excellent. Pasture, range feed condition improved, mostly good.

FLORIDA: Temperatures 1 to 3° above normal Panhandle, 1° above to 2° below normal Peninsula. Highs, mid to upper 90s Panhandle, low to mid 90s Peninsula. Lows, upper 60s to low 70s statewide, except mid 70s southeast coast. Rain on 2 to 4 days, Panhandle, 3 to 6 days, Peninsula. Precipitation totals highly variable, 0.30 to 5.79 inches. Majority of stations 1.00 to 3.00 in. range.

Soil moisture mostly short, scattered areas of adequate moisture. Dryland crop hurt. Tobacco harvest virtually complete, marketing active. Peanut harvesting starting. Haying being delayed because of reduced plant growth. Making preparations to start cotton harvest. Corn harvest active. Soybeans, sugarcane continue to make good progress. Citrus groves, trees excellent condition. Abundant rainfall all areas. New growth abundant. Good fruit sizing. Very limited droppage. Limited harvest begins in several weeks. Afternoon showers replenished soil moisture for some southern, central vegetables; still mostly dry all areas. Tomato, eggplant, pumpkin, pepper, cucumber, watermelon planting active southwest, southeast, central. Homestead planting to start late September. Northern vegetable good condition, harvest to start in 2 to 3 weeks. Thunder showers covered many areas. Pasture feed 10% poor, 50% fair, 30% good, 10% excellent. Cattle herds fair to good.

GEORGIA: Temperatures 2 to 5° above normal North, 1 to 3° above normal central, southwest, near normal southeast. Hottest temperatures mostly low to mid 90s, upper 80s northeast mountains to a few upper 90s central, western areas. Coolest temperatures mid 60s to low 70s, except low to mid 60s mountains. Scattered thunderstorms most numerous extreme north, southern areas, where local totals exceeded 1 inch. Elsewhere very little rain, most totals under 0.25 inch.

Days suitable for fieldwork 6.4. Soil moisture 54% very short, 44% short, 2% adequate. Corn 12% very poor, 25% poor, 51% fair, 12% good; 100% mature, 98% 1992, 97% avg.; 43% harvested for grain, 35% 1992, 49% avg.; grain harvest active, also cutting drought stricken corn for silage. Cotton condition declines. Sorghum 3% very poor, 41% poor, 46% fair, 10% good; 12% harvested for grain, 13% 1992, 9% avg. Peanuts 18% very poor, 26% poor, 38% fair, 17% good, 1% excellent; 1% dug, 1% 1992, 3% avg.; 0% threshed, 0% 1992, 1% avg.; drought seriously affecting peanuts. Soybeans continue to decline, shedding pods. Tobacco 55% fair, 42% good, 3% excellent; 80% harvested, 92% 1992, 91% avg. Vegetables 1% very poor, 18% poor, 63% fair, 18% good. Apples 5% very poor, 8% poor, 46% fair, 41% good; 31% harvested, 32% 1992, 39% avg. Pecans 6% poor, 42% fair, 50% good, 2% excellent; heavy nut drop, small nuts. Hay 18% very poor, 44% poor, 36% fair, 2% good; armyworms increasing. Pasture feed 17% very poor, 32% poor, 44% fair, 7% good. Cattle 2% very poor, 7% poor, 58% fair, 32% good, 1% excellent. Hogs 4% very poor, 2% poor, 26% fair, 64% good, 4% excellent. Other activities: Spraying fields, harvesting fruits, vegetables, caring for livestock, poultry.

HAWAII: Weather mostly sunny with some passing showers, mainly windward, upper elevations. Warm temperatures tempered by trade winds generated by high pressure system north of island chain. Rainfall none to 1.60 inches. Temperature varied high 60s to high 80s.

Days suitable for fieldwork 7.0. Weather beneficial for crop development. Normal farming made good progress. Irrigation, pest control measures increased. Banana production continued

seasonal increase. Papaya output declining. Watermelon production moderate levels. Sugarcane harvesting operations active.

IDAHO: Temperatures 4 to 12° below normal. Precipitation none to 0.28 in. north; none southwest; none to 0.15 in. south central; 0.01 to 0.36 in. east. Frost in eastern areas on 26th, 27th. Vine kill for Bingham county potatoes estimated at 10 to 20%.

Days suitable for fieldwork 6. Soil moisture 3% short, 94% adequate, 3% surplus. Spring wheat, 6% headed, 86% turning color, 8% harvested. Spring barley, 6% headed, 80% turning color, 14% harvested. Oats harvested 35%, 87% 1992, 67% avg. Potatoes 12" high 2%, closing middles 55%, turning 40%, harvested 3%; 1% very poor, 4% poor, 22% fair, 64% good, 9% excellent. Alfalfa second cutting 83%, 97% 1992, 92% avg. Alfalfa third cutting 15%, 39% 1992, 22% avg. Dry peas harvested 33%, 100% 1992, 94% avg. Lentils harvested 10%, 100% 1992, 88% avg. Peaches harvested 35%, 97% 1992, 78% avg. Prunes, plums harvested 33%, 69% 1992, 48% avg. Mint first cutting 96%, 100% 1992, 94% avg. Hops harvested 48%, 42% 1992, 22% avg. Onions harvested 5%, 37% 1992, 22% avg. Irrigation water supplies 4% fair, 80% good, 16% excellent. Activities: Vine killing, digging early potatoes; harvesting small grains, hay. Gem county apples sizing small. Power county dryland winter wheat being seeded. Foot rot in Kootenai county spring wheat. Black bean aphids a problem for Jerome county sugarbeets. Pasture, range feed 96% of normal. Livestock good.

ILLINOIS: Hot, humid weather with some rain occurred last week, as temperatures 8 to 10° above normal. Highs mid 80s; mid 90s. Lows around 70°. Extreme 96°. Precipitation less than 0.10 in. south, over 1 in. northwest, over 2 in. areas around Chicago.

Days suitable for fieldwork 5. Soybeans setting pods at 97% made notable progress last week. Corn acreage dented at 85% also made good progress. Crops continued in good condition. Farmers expressed some concern for Sudden Death Syndrome (SDS) in soybean fields, effects of heat on livestock. Farm activities included: Baling hay, preparing harvesting equipment, mowing, harvesting fruits, vegetables, cleaning grain bins, tending livestock. Soil supply 5% short, 64% adequate, 31% surplus. Pasture feed 95% of normal.

INDIANA: Temperatures 7 to 12° above normal. Highs mostly in upper 80s to middle 90s with average lows generally in the middle 60s to lower 70s. Rainfall mostly 0.75 in. or less with some areas getting 0.10 in. or less. Some areas of the northwest received 1 to 2 in. or more. Isolated heavy amounts also fell in the central, south.

Days suitable for fieldwork 6. Hot, dry conditions increased both crop, livestock stress. Pasture feed 90% of normal, 87% last week. Topsoil 41% short, 54% adequate, 5% surplus. Subsoil 23% short, 75% adequate, 2% surplus. Tobacco harvested 19%, 33% 1992, 23% avg. Silos filled with corn silage 10%, 11% 1992, 21% avg.

IOWA: Temperatures 4 to 10° above normal. Extremes 54°; 95°. More heavy rains, flooding. Rainfall 0.06 in. south central to 6.20 in. southwest; average 2.11 in. (normal 0.90 in.).

Days suitable for fieldwork 4.5. Topsoil 39% adequate, 61% surplus. Subsoil 15% adequate, 85% surplus. Corn silked 98%, 100% 1992, 100% normal; in or past milk stage 75%, 93% 1992, 97% normal. Second crop alfalfa hay harvested 88%, 100% 1992, 100% normal; 3rd crop alfalfa hay harvested 12%, 43% 1992, 65% normal. Second crop clover hay harvested 66%, 88% 1992, 94% normal. Pasture feed 2% very poor, 8% poor, 25% fair, 54% good, 11% excellent. Hay 5% very poor, 23% poor, 48% fair, 20% good, 4% excellent. Livestock mostly good. Heat and humidity caused some stress most livestock; flies, pinkeye remain a problem for cattle.

KANSAS: Temperatures 3 to 6° above normal across State, except normal southwest. Precipitation received all areas, 0.04 in. southeast to 1.16 in. west central.

Days suitable for fieldwork 5.5. Topsoil 50% short to very short, 46% adequate, 4% surplus. Subsurface 8% short to very short, 86% adequate, 6% surplus. Sunshine, hot weather provided favorable conditions for growing crops despite increasingly dry soil conditions. Some high moisture, short season corn harvesting southern, east central areas, activity light. Short topsoil moisture supplies some southern, central counties beginning to stress sorghum crop. Hot, dry weather helped speed sorghum maturity in other areas. Some harvesting southeast. Third cutting alfalfa 85%, 90% 1992, 95% avg. Fourth cutting 10%. Ranges, pasture feed good condition even though grass several areas reaching maturity, dry.

KENTUCKY: Hot, humid weather continued. Highs every day lower to mid 90s, 7 to 10° above normal. Precipitation was spotty at best. Amounts most locations less than 0.50 in., 0.50 to 0.75 in. below normal. A few locations received amounts close to normal.

Days suitable fieldwork 5.6. Soil moisture 20% very short, 46% short, 33% adequate, 1% surplus. Corn fair to mostly good. Burley cutting 26% complete, dark tobacco 36% complete. Soybeans fair to good. Fall hay crops mostly declining from hot, dry weather. Pastures deteriorating, some producers feeding hay.

LOUISIANA: Temperatures 1.5 to 3.7° above normal. Extremes 66°; 100°. Rainfall none northwest, north central to 1.43 in. southwest.

Days suitable for fieldwork 6.2. Soil moisture 12% very short, 49% short, 39% adequate. Corn 7% poor, 56% fair, 37% good; 96% mature, 100% 1992, 99% avg.; 56% harvested, 64% 1992, 68% avg. Harvesting made good progress with the dry weather. Hay 59% final cutting, 73% 1992, 45% avg. Harvest progressed nicely with the dry weather. Peaches 98% harvested, 100% 1992, 99% avg. A few acres are left to harvest for the large operators. Rice 75% ripe, 76% 1992, 70% avg.; harvest progressing nicely in the south. Sorghum 50% ripe, 87% 1992, 64% avg.; 19% harvested, 53% 1992, 37% avg. Soybeans 15% turning color, 21% 1992, 11% avg. Dry weather has affected pod set considerably. Rain is needed for continued development. Sweet potatoes 11% poor, 26% fair, 63% good; 10% harvested, 16% 1992, 22% avg. Sugarcane 2% poor, 14% fair, 84% good; 24% planted, 6% 1992, 13% avg. Planting activity picked up considerably, borer control continued. Livestock 3% poor, 26% fair, 68% good, 3% excellent. Pasture feed 7% poor, 20% fair, 73% good. Vegetables 3% very poor, 14% poor, 62% fair, 21% good.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 0.01 in., normal 1.01 in. Temperature 77.4°, normal 73.2°. Extremes 45°; 98°.

Days suitable for fieldwork 6.5. Topsoil 24% very short, 66% short, 10% adequate. Subsoil 19% very short, 67% short, 14% adequate. Corn poor to fair; 77% dough, 63% 1992, 81% avg.; 49% dent, 30% 1992, 56% avg.; 8% mature, 2% 1992, 14% avg.; 18% silage harvested, 4% 1992, 16% avg. Soybean poor to mostly fair; 90% bloomed, 84% 1992, 89% avg.; 68% setting pods, 61% 1992, 71% avg. Sorghum fair; 96% headed, 99% 1992, n/a avg. Tobacco fair; 93% bloomed, 97% 1992, 92% avg.; 83% topped, 86% 1992, 74% avg.; 37% cut, 29% 1992, 38% avg. Pasture feed mostly poor to fair; hay supplies short to mostly adequate. Alfalfa hay 91% third cut, 76% 1992, 81% avg.; 21% fourth cut, 10% 1992, 15% avg. Other hay 40% third cut, 27% 1992, 19% avg.; 12% fourth cut, 4% 1992, 2% avg. Sweet corn 92% harvested, 80% 1992, 84% avg. Watermelons 91% harvested, 73% 1992, 84% avg. Cantaloupes 93% harvested, 84% 1992, 89% avg. Potatoes 93% harvested, 95% 1992, 85% avg. Tomatoes 84% harvested, 69% 1992, 78% avg. Peaches, apples good; peaches 80% picked, 70% 1992, 76% avg. Apples 21% harvested, 13% 1992, 22% avg.

DELAWARE: Precipitation 0.14 in., normal 1.07 in. Temperature 77.2°, normal 73.4°. Extremes 53°; 97°.

Days suitable for fieldwork 7.0. Topsoil 17% very short, 83% short. Subsoil 83% short, 17% adequate. Corn poor; 76% dough, 81% 1992, 88% avg.; 46% dent, 40% 1992, 63% avg.; 11% mature, 2% 1992, 12% avg.; 28% silage harvested, 21% 1992, 22% avg. Soybeans poor to fair; 87% bloomed, 79% 1992, 91% avg.; 52% setting pods, 51% 1992, 61% avg. Sorghum fair, 81% headed, 94% 1992, n/a avg. Alfalfa hay 89% third cut, 85% 1992, 87% avg.; 10% fourth cut, 3% 1992, 13% avg. Other hay 41% third cut, 51% 1992, 52% avg. Pasture very poor; hay supplies short. Sweet corn 93% harvested, 84% 1992, 82% avg. Cantaloupes 80% harvested, 75% 1992, 88% avg. Watermelons 87% harvested, 62% 1992, 81% avg. Potatoes 71% harvested, 82% 1992, 76% avg. Tomatoes 84% harvested, 56% 1992, 70% avg. Peaches, apples mostly good; peaches 83% harvested, 80% 1992, 92% avg. Apples 23% harvested, 11% 1992, 25% avg.

MICHIGAN: Extremes 48°; 96°. Precipitation 0.02 to 3.42 in. across State.

Days suitable for fieldwork 5.5. Soil moisture 30% short, 60% adequate, 10% surplus. Dry beans 95% setting pods, 55% 1992, 80% avg.; 35% turning, 10% 1992, 30% avg.; 2% very poor, 8% poor, 25% fair, 45% good, 20% excellent. Oats 80% harvested, 55% 1992, 90% avg.; 3% very poor, 7% poor, 25% fair, 50% good, 15% excellent. Potatoes 55% harvested, 30% 1992, 30% avg. Hay 90% second cutting, 80% 1992, 85% avg.; 30% third cutting, 30% 1992, 30% avg.; 3% very poor, 7% poor, 20% fair, 45% good, 25% excellent. Pasture feed condition 80% of normal. Major activities included: Combining small grains, cutting hay, baling straw, harvesting potatoes tilling wheat ground, picking fruit.

MINNESOTA: Temperatures 4 to 8° above normal for the State. Extremes 43°; 96°. Precipitation 0.63 in. below normal to 0.67 in. below normal to 1.34 in. above normal. Precipitation 0.14 to 2.12 inches. Greatest weekly precipitation 2.94 inches.

Days suitable for fieldwork 4.6. Topsoil 42% adequate, 58% surplus. Winter wheat 85% harvested, 90% 1992, 97% avg. Spring wheat 44% cut/swathed, 40% 1992, 86% avg.; 30% combined, 23% 1992, 82% avg. Oats 89% cut/swathed, 88% 1992, 97% avg.; 74% combined, 78% 1992, 95% avg. Barley 79% cut/swathed, 66% 1992, 92% avg.; 67% combined, 47% 1992, 89% avg. Sweet corn for processing 27% harvested, 39% 1992, 61% avg. Corn 57% milk, 91% 1992, 97% avg.; 16% dough, 57% 1992, 83% avg.; 4% dent, 7% 1992, 38% avg. Soybeans 84% setting pods, 99% 1992, 99% avg.; 3% yellowing, 7% 1992, 27% avg. Spring wheat 13% very poor, 33% poor, 43% fair, 8% good, 3% excellent. Barley 6% very poor, 26% poor, 44% fair, 19% good, 5% excellent. Corn 13% very poor, 42% poor, 35% fair, 8% good, 2% excellent. Soybeans 13% very poor, 35% poor, 43% fair, 7% good, 2% excellent. Sunflowers 7% very poor, 33% poor, 41% fair, 19% good.

MISSISSIPPI: Temperatures 83°, 3.3° above normal. Extremes 58°; 100°. Entire State experienced a minimal amount of rainfall. Northeast district accumulated the most with less than 1 in., average 0.28 in., 0.57 in., below normal. Soil temperatures 89°.

Days suitable for fieldwork 6.7, 3.0 1992, 5.1 avg. Soil moisture 20% very short, 53% short, 27% adequate. Corn 100% dough, 100% 1992, 98% avg.; 94% dent, 97% 1992, 92% avg.; 60% mature, 81% 1992, 71% avg.; 18% harvested, 20% 1992, 25% avg.; 63% silage harvested, 73% 1992, 74% avg.; 16% poor, 60% fair, 23% good, 1% excellent. Cotton 100% setting bolls, 100% 1992, 100% avg.; 29% open bolls, 29% 1992, 38% avg.; 31% poor, 65% fair, 4% good. Rice 85% heading, 99% 1992, 96% avg.; mature 14%, 40% 1992, 38% avg.; 4% harvested, 3% 1992, 6% avg.; 61% fair, 39% good. Sorghum 99% heading, 100% 1992, 98% avg.; 91% turning color, 96% 1992, 81% avg.; 50% mature, 68% 1992, 52% avg.; 15% harvested, 17% 1992, 17% avg.; 60% silage harvested, 60% 1992, 66% avg.; 64% fair, 36% good. Soybeans 98% blooming, 99% 1992, 93% avg.; 75% podding, 88% 1992, 75% avg.; 10% coloring, 17%

1992, 15% avg.; 1% shedding, 5% 1992, 5% avg.; 38% poor, 52% fair, 10% good. Sweet potatoes 8% harvested, 15% 1992, 21% avg.; 11% very poor, 11% poor, 67% fair, 11% good. Hay 82% harvested, 87% 1992, 81% avg. Livestock 22% fair, 71% good, 7% excellent. Pasture feed 91% of normal. Activities: Insect control, hay harvesting.

MISSOURI: Temperatures 6 to 10° above normal across State, warmest readings northeast. Rainfall 0.53 in., varying 0.11 in. southeast to 0.79 in. east central.

Days suitable for fieldwork 6.3, ranging 5.1 east central to 6.9 southwest. Topsoil 43% short, 51% adequate, 6% surplus. Corn dent stage 36% northeast to 99% southeast. Soybeans podding by district ranges 54% southwest to 85% southeast; turning color 4%, 7% 1992, 9% avg. Third crop alfalfa 54%, 75% 1992, 81% avg. Other hay 94%, 99% 1992, 100% avg. Pasture feed 5% poor, 44% fair, 45% good, 6% excellent.

MONTANA: Temperatures below normal. Varied precipitation.

Days suitable for fieldwork slightly over 4.5. Topsoil 5% short, 82% adequate, 13% surplus. Subsoil 5% short, 85% adequate, 10% surplus. Barley 2% very poor, 5% poor, 16% fair, 50% good, 27% excellent. Oats 2% poor, 20% fair, 55% good, 23% excellent. Sugarbeets 2% poor, 5% fair, 78% good, 15% excellent. Second cutting alfalfa hay 46% complete, 71% 1992, 77% avg. Other hay 62% complete, 98% 1992, 98% avg. Pasture, range feed 99% of normal, down 3 points from last week.

NEBRASKA: Temperatures near normal west to 5° above normal east. Scattered precipitation with trace amounts west to over 2.50 in. east central.

Days suitable for fieldwork 5.7. Topsoil 16% short, 78% adequate, 6% surplus. Subsoil 1% short, 89% adequate, 10% surplus. Dry beans 30% fair, 70% good; 99% setting pods; 36% turning color. Alfalfa 2% poor, 13% fair, 77% good, 8% excellent; 43% third cutting, 60% 1992. Wild hay 4% fair, 74% good, 22% excellent. Pasture, range feed 102% of normal.

NEVADA: Thunderstorm activity limited to south, southeastern sections. Precipitation mostly trace amounts. Temperatures cooler than normal. Extremes 26°; 113°.

Irrigation water supplies adequate most areas. Hay harvest continues. Combining alfalfa seed made good progress. Garlic harvest full swing, onion harvest to start soon. Potato digging just getting started. Small grain harvest nearing completion. Livestock good, stockwater adequate.

NEW ENGLAND: Precipitation none to 1.81 inches. Temperatures 67 to 73° north; 68 to 78° south. Maximum temperatures 87 to 96° north; 89 to 99° south. Minimum temperatures 40 to 50° north; 38 to 62° south.

Days suitable for fieldwork 6.5. Soil moisture 26% very short, 42% short, 32% adequate. Available grazing 30% very short, 37% short, 33% adequate. Fieldwork progress 1 day behind schedule. Pasture feed 60% of normal. Maine early potato harvest 5%. Connecticut, Massachusetts potatoes 30% harvested, 30% 1992, 20% avg. Rhode Island potatoes 40% harvested, 25% 1992, 30% avg. Potato fair to good. Maine oat good. Maine oats harvested 25%, 20% 1992, 35% avg. Field corn fair to good. Second cutting hay 70% harvested, 70% 1992, 75% avg.; fair to good. Third cutting hay 25% harvested, 20% 1992, 30% avg. Shade tobacco 95% harvested, good. Outdoor tobacco 90% harvested, good. Sweet corn harvested 70%, 60% 1992, 70% avg.; fair to good. Apples 5% harvested, size small to medium, color fair to good; condition good. Peaches 70% harvested, size medium to large, condition fair to good. Pears 20% harvested, size medium, condition good. Raspberries 85% harvested, size medium,

condition fair to good. Highbush blueberries 90% harvested, size medium, condition fair to good. Maine wild blueberries 90% harvested, condition good. Cranberries size medium, condition excellent. Major farm activities: Applying herbicides, insecticides.

Harvesting second cutting, some third cutting of hay, chopping haylage continues. Early varieties of potatoes being harvested for processing. Harvesting tree fruits, small fruits. Finishing harvest of shade, broadleaf tobacco. Picking late summer vegetables for roadside markets.

NEW JERSEY: Temperatures much above normal. Extremes 56°; 99°. Rainfall 0.08 in. north, 0.17 in. central, 0.20 in. south. Heaviest 24 hour total 0.60 in. on 28th, 29th. Estimated soil moisture, in percent field capacity, 53% north, 66% central, 50% south. Four inch soil temperatures 73° north, 74° central, 76° south.

Soil moisture content is short to adequate depending on the area. Due to the extreme dry conditions, a lot of crops experienced some type of damage, due to irrigation, rainfall in some areas, crop conditions are looking better. Harvesting of apples, peaches continues statewide. Spraying of pesticides active. Chopping of silage, third cutting of hay in some parts of north, central areas. Milk production is down due in part to extreme heat in central areas. Pasture feed conditions averaged below normal. Amount of feed requirements pastures are supplying is average.

NEW MEXICO: Temperatures generally 2 to 3° below normal in west, near normal in east. Most stations received precipitation, higher amounts near 2.50 in. across the central mountains, west.

Days suitable for fieldwork 5.9. Soil moisture 50% short, 46% adequate, 4% surplus. Crop conditions: Alfalfa 6% poor, 26% fair, 65% good, 3% excellent; rain damage to cut hay. Corn 5% fair, 90% good, 5% excellent; silage harvest active. Chile 8% poor, 15% fair, 69% good, 8% excellent; green harvest active. Onion harvest declining, remaining crop good. Lettuce fair to good. Pecans 21% fair, 79% good. Apples 4% poor, 37% fair, 59% good; harvest activity increasing. Winter wheat planting picking up pace. Cattle, sheep poor to mostly good. Range feed 74% of normal.

NEW YORK: Unseasonably hot, muggy, relatively dry. Temperatures 2° above normal in the eastern Plateau to 8° above normal Coastal Division. Extremes 42°; 97°. Precipitation was below average. No rain western plateau. Elsewhere, only light amounts were received. Rainfall was mostly from thunderstorms which were quite spotty.

Days suitable for fieldwork 5.6. Soil moisture short to adequate. Pasture feed 75% of normal. Corn poor to good. Recent rainfall beneficial. Hay poor to good. Second cutting alfalfa 87% finished, 69% 1992, 79% avg. Third cutting 29% finished, 19% 1992, 26% avg. Oats 74% harvested, 34% 1992, 72% avg. Potato harvest underway. Harvest of early apple varieties continued. Quality in Hudson Valley has been excellent. Some early grapes being picked. Peach harvest active. Size, quality good. Pears excellent. Bartlett pear harvest beginning. Vegetable harvests in full swing. Early onion varieties being harvested.

NORTH CAROLINA: Temperatures 1° below normal to 4° above normal. Precipitation 0.86 in. at Mount Airy to no rain at many locations.

Days suitable for fieldwork 6.2. Soil moisture 30% very short, 53% short, 17% adequate. Crop condition: Pasture feed condition 9% very poor, 32% poor, 50% fair, 9% good. Field tobacco 2% very poor, 5% poor, 50% fair, 43% good. Corn 14% very poor, 45% poor, 33% fair, 8% good. Hay 9% very poor, 32% poor, 51% fair, 8% good. Peaches 38% fair, 58% good 4% excellent. Truck crops 13% poor, 62% fair, 25% good. Cotton 7% poor, 69% fair, 24% good. Peanuts 12% poor, 55% fair, 33% good. Soybeans 4% very poor, 20% poor, 59% fair, 17% good. Sweet potatoes 7% poor, 47% fair,

44% good, 2% excellent. Apples 7% poor, 57% fair, 36% good. Sorghum 2% very poor, 24% poor, 64% fair, 10% good. Hay, roughage supplies 6% very short, 38% short, 55% adequate, 1% surplus. Apples harvested 14%, 8% 1992, 12% avg. Peaches harvested 88%, 89% 1992, 95% avg. Flue cured tobacco harvested 45%, 62% 1992, 60% avg. Burley tobacco harvested 8%, 12% 1992, 13% avg. Corn for silage harvested 45%, 30% 1992, 42% avg.; grain 7%, 4% 1992, 6% avg. Cotton setting bolls 95%, 88% 1992, 96% avg. Corn soft dough 91%, 91% 1992, 96% avg.; dented 87%, 84% 1992, 84% avg.; mature 67%, 62% 1992, 64% avg. Soybeans flowered 84%, 74% 1992, 81% avg.; setting pods 62%, 60% 1992, 60% avg. Second cutting hay 78% completed. Third cutting hay 42% completed. Major activities: Topping, suckering, harvesting, marketing tobacco. Other activities included: Scouting cotton, soybeans; spraying cotton, peanuts; harvesting vegetables; cutting hay; harvesting corn for grain, silage; tending livestock; general farm maintenance.

NORTH DAKOTA: Scattered showers, above normal temperatures throughout the State. Precipitation 0.15 in. southeast to 1.33 in. northwest. Temperatures 1 to 5° above normal. Extremes 43° east central; 97° south central.

Days suitable for fieldwork 4.4. Topsoil 5% short, 65% adequate, 30% surplus. Subsoil 78% adequate, 22% surplus. Small grain harvest progress was slowed by scattered showers, heavy morning dew, wet field conditions. Crop quality was still a major concern. Spring wheat 11% poor, 27% fair, 57% good, 5% excellent; durum 10% poor, 24% fair, 65% good, 1% excellent; barley 7% poor, 36% fair, 54% good, 3% excellent; oats 1% poor, 18% fair, 76% good, 5% excellent; winter wheat 1% very poor, 10% poor, 21% fair, 65% good, 3% excellent. Hard red spring wheat 21% harvested, 34% 1992, 81% avg. Durum wheat 6% harvested, 17% 1992, 69% avg. Oats 27% harvested, 60% 1992, 88% avg. Barley 49% harvested, 65% 1992, 92% avg. Winter wheat 66% harvested, 91% 1992, 98% avg. Late season crops continued to improve with warm weather. Corn for grain 13% very poor, 45% poor, 42% fair; corn for silage 3% very poor, 21% poor, 55% fair, 21% good; flax 2% poor, 23% fair, 64% good, 11% excellent; sugarbeets 12% poor, 20% fair, 68% good; potatoes 74% fair, 26% good; dry beans 27% poor, 56% fair, 16% good, 1% excellent; soybeans 11% very poor, 23% poor, 54% fair, 12% good; sunflowers 6% poor, 57% fair, 37% good. Flax 1% harvested, 1% 1992, 21% avg. Corn for grain 2% denting to dented and beyond, 7% 1992, 46% avg. Corn for silage 1% cut, none 1992, 14% avg. Dry beans 2% mature, 13% 1992, 55% avg. Soybeans 16% lower leaves yellowing and beyond, 6% 1992, 53% avg. Potatoes 2% dug, 2% 1992, 4% avg. Sunflowers 3% bracts turned yellow and beyond, 2% 1992, 30% avg. Range, pasture feed conditions 94% of normal. Hay crop condition 82% of normal. Alfalfa hay second cutting 70% complete, other hay 80%.

OHIO: Hot, dry conditions prevailed. Temperatures peaked as high as mid- to upper-90s on the 28th. Only the northeast held closer to 90° for an extreme reading. Temperatures mid- to upper-70s north, east to the lower-80s south, west, 8 to 12° above normal. Daytime highs in the upper-80s to mid-90s while mean lows varied from the upper-70s to lower-80s. Moisture was limited to 0.20 in. or less in most areas with many areas noting no precipitation. A few isolated afternoon thunderstorms doused the Cincinnati-Dayton area with 1 to 2 inches.

Days suitable for fieldwork 7.0. Topsoil 92% short, 8% adequate. Subsoil short to critically short. South, west of Columbus not as dry as other areas. Processing tomatoes harvested 30%, 24% 1992, 31% avg. Summer apples harvested 75%, 68% 1992, 72% avg. Potatoes harvested 30%, 23% 1992, 26% avg. Alfalfa 3rd cut harvested 60%, 44% 1992, 54% avg.; other hay 2nd cut harvested 96%, 88% 1992; 3rd cut harvested 20%, 24% 1992, 26% avg. Corn

harvested for silage 5%, 1% 1992, 11% avg. Pasture 18% very poor, 29% poor, 34% fair, 17% good, 2% excellent. Hay 8% very poor, 23% poor, 41% fair, 24% good, 4% excellent. Drought stress becoming more evident. Some farmers have not seeded alfalfa due to the lack of moisture. Some mold, blossom end rot reported in tomatoes. Sugarbeets faring better than other crops due to good root systems. Apple size is smaller than average in some orchards since thinners did not work well in the dry weather this summer. Farmers continue to feed hay to livestock, which have been stressed due to high heat, humidity.

OKLAHOMA: Temperatures 1° above normal southwest, south central districts to 6° above normal northeast district. Precipitation 0.02 in. north central, west central districts to 1.71 in. south central district.

Days suitable for fieldwork 6.4. Topsoil 72% short, 28% adequate. Subsoil 66% short, 34% adequate. Corn 99% milk to soft, 100% 1992, 99% avg.; 36% mature, 85% 1992, 62% avg.; 12% harvested, 5% 1992, 13% avg. Sorghum 4% poor, 22% fair, 74% good; 94% heading, 76% 1992, 86% avg.; 35% milk to soft, 40% 1992, 48% avg.; 10% mature, 4% 1992, 6% avg. Soybeans 87% flowering, 79% 1992, 84% avg.; 51% setting pods, 50% 1992, 59% avg.; 6% mature, 7% 1992, 4% avg. Peanuts 46% fair, 54% good; 97% pegging, 99% 1992, 99% avg.; 85% setting pods, 84% 1992, 88% avg.; 25% mature, 8% 1992, 8% avg. Cotton 56% fair, 36% good, 8% excellent; 9% open bolls, 5% 1992, 4% avg. Alfalfa 95% 3rd cut, 95% 1992, 99% avg.; 37% 4th cut, 39% 1992, 52% avg. Pasture feed 89% of normal. Cattle prices mixed. Marketings average.

OREGON: Temperatures 1 to 9° below normal statewide, exceptions southern coast slightly above normal. Pendleton, Burns, Medford record lows. Precipitation northern Willamette Valley 0.20 in., coastal areas 0.10 in. elsewhere dry.

Soil moisture 19% short, 80% adequate, 1% surplus. Winter wheat 92% harvested. Barley 58% harvested. Winter grain harvest winding down, statewide. Spring grain harvest underway, except Klamath Basin where just turning. Grass seed harvest, mint harvest winding down, baling and burning grass seed field stubble, sugarbeet seed harvest continues; Willamette Valley. Klamath Basin sugarbeet prospects look good. Eastern mint harvest underway. Haying activities continue, second, third cuttings; statewide. Willamette Valley snap beans harvest continued. Light frost caused concern to eastern area potato, onion growers. Columbia Basin early potato, onion, carrot harvest continued. Malheur County potato, onion harvest underway. Cranberry development variable; southern coast. Evergreen blackberry harvest continued, late variety peach, early variety apple harvest continued, hazelnut, walnut prospects look good; Willamette Valley. Bartlett pear harvest continues, Hood River, Medford districts. Average to small fruit size, Hood River. Early apple harvest underway, Hood River, Milton-Freewater districts. Livestock good to excellent. Cattle movement underway, eastern areas. Western areas continue to graze without feed supplements. Range, pastures feed above normal statewide, 107% of normal.

PENNSYLVANIA: Hot, humid. Well above normal temperatures, below normal precipitation. Temperature 80°, 11° above normal. Extremes 40°; 98°. Precipitation 0.26 in., 0.58 in. below normal.

Days suitable for fieldwork 6. Soil moisture 63% short, 37% adequate. Ensilage corn harvested 5% complete, 3% 1992. Soybean 6% very poor, 9% poor, 28% fair, 42% good, 15% excellent. Wheat planted 4% complete, 5% 1992. Oats harvest 89% complete, 86% 1992. Barley planted 7% complete, 8% 1992. Tobacco harvest 28% complete, 11% 1992. Potato harvest 26% complete, 26% 1992. Second cutting alfalfa 98% complete, 87% 1992. Third cutting alfalfa 61% complete, 45% 1992. Fourth-cutting alfalfa 20% complete, 12% 1992. Second cutting clover-timothy 82% complete, 68% 1992. Quality of hay made 5% poor, 30% fair, 65% good. Feed

from pastures limited by severe drought. Apple harvest 15% complete, 19% 1992. Peach harvest 81% complete, 61% 1992. Grapes harvest 23% complete, 10% 1992. Fall plowing 25% complete, 18% 1992. Activities: Making hay, filling silos; baling straw; harvesting oats; harvesting fruits, vegetables; plowing; attending county fairs; cleaning, storing equipment; hauling manure; caring for livestock.

PUERTO RICO: Rainfall 1.46 in., 0.36 in. below normal. Highest weekly total rainfall 6.71 in. at Gurabo, 5.10 in. Maricao, 3.56 in. Lajas. Highest 24 hour total 6.41 in. Garabo on 23th. At WSFO San Juan Mean temperature 84.2° is 2.2° above normal, total rainfall 0.66 in., 0.74 in. below normal. Island temperatures 80 to 82° on coasts, 76° Interior with Mean station temperature 84.2° at San Juan WSFO to 65.9° at Cerro Maravilla. Extremes 59°; 94°.

SOUTH CAROLINA: Rainfall 0.30 inches. Temperatures 3 to 7° above normal.

Days suitable for fieldwork 6.6. Soil moisture 50% very short, 41% short, 9% adequate. Corn very poor to poor; 87% mature, 94% 1992, 90% avg.; 36% harvested, 30% 1992, 32% avg. Sorghum poor; 30% harvested, 23% 1992, 21% avg. Soybeans 16% very poor, 34% poor, 49% fair, 1% good; 90% blooming, 91% 1992, 89% avg.; 55% setting pods, 69% 1992, 59% avg.; 2% leaves turning, 3% 1992, 3% avg. Cotton 14% very poor, 62% poor, 21% fair, 3% good; 24% open bolls, 10% 1992, 16% avg. Tobacco fair; 53% harvested, 83% 1992, 79% avg.; 6% stalks destroyed, 23% 1992, 14% avg. Cantaloupes poor to fair; 92% harvested, 88% 1992, 92% avg. Watermelons poor to fair; 98% harvested, 100% 1992, 96% avg. Sweet potatoes fair; 9% harvested, 7% 1992, 12% avg. Fall hay poor to fair; 44% harvested, 54% 1992, 51% avg. Peaches fair; 88% harvested, 94% 1992, 95% avg. Apples poor to fair; 19% harvested, 18% 1992, 27% avg. Pasture feed poor to fair.

SOUTH DAKOTA: Temperatures 5° above normal parts of southeast to 4° below normal northwest. Extremes 33°; 100°. Scattered light amounts of rain fell across the State with the heaviest amounts being reported in the northeast, extreme southeast. Rainfall elsewhere across the State were generally under 0.30 in. Maximum 1.57 inches.

Days suitable for fieldwork 5.2. Topsoil 2% very short, 23% short, 63% adequate, 12% surplus. Subsoil 7% short, 73% adequate, 20% surplus. Flax 43% fair, 57% good. Sunflowers 1% poor, 10% fair, 78% good, 11% excellent. Oats 95% harvested, 92% 1992, 98% avg. Barley 91% harvested, 89% 1992, 98% avg. Flax 9% harvested, 21% 1992, 68% avg. Winter rye 92% harvested, 100% 1992, 100% avg. Yields for the spring grains vary from good to below normal, quality was mostly poor. Some areas a low test weight for oats while scab, vomitoxin, glume blotch were in spring wheat. Favorable weather last week helped the row crops make good progress but they were still behind normal. Livestock 4% fair, 73% good, 23% excellent. Pasture feed conditions 95% of normal. Pinkeye, footrot in some areas. Haying conditions were good.

TENNESSEE: Temperatures at or above normal by as much as 9° across State. Extremes 62°; 100°. Rainfall remained below average in most areas of the State. Bristol most rain at 1.47 inches.

Days suitable for fieldwork 5.9. Soil moisture 19% very short, 58% short, 23% adequate. Corn 96% dough stage, 97% 1992, 91% avg.; 75% dent stage, 87% 1992, 77% avg.; 22% mature, 30% 1992, 27% avg.; 38% silage harvested, 25% 1992, 24% avg.; 6% very poor, 10% poor, 54% fair, 30% good. Cotton 21% open bolls, 7% 1992, 12% avg.; 44% fair, 56% good. Sorghum 79% turning color, 72% 1992, 65% avg.; 19% mature, 21% 1992, 19% avg.; 49% fair, 51% good. Soybeans 94% blooming, 94% 1992, 89%

avg.; 73% setting pods, 80% 1992, 68% avg.; 1% shedding leaves, 2% 1992, 1% avg.; 14% poor, 36% fair, 50% good. Tobacco 87% topped, 93% 1992, 86% avg.; 25% burley harvested, 43% 1992, 37% avg.; 30% dark air harvested, 35% 1992, 32% avg.; 33% dark fire harvested, 46% 1992, 35% avg.; 11% poor, 65% fair, 24% good. Persistent insect problems, another week without moisture caused 15% of the cotton to slip from good to fair condition. Abundance of sunshine has pushed boll opening a week ahead of normal. Soybean growth has been good in recent weeks, hot temperatures, limited moisture have been less than desirable for pod set. Most double crop beans are in good condition, now blooming. Single crop are setting a fair crop. Tobacco maturing two to three weeks later than normal in many areas. However, burley harvest is only a week behind normal as growers have opted to begin early. Shortage of available labor is main reason cited for the early harvest. Pasture feed continue to improve, additional rainfall is needed to provide adequate forage. Cattle producers are sending a higher number of cattle to market than normal this season due to a lack of feed.

TEXAS: Early in week, an upper level disturbance triggered thunderstorms over western, north central sections. Weak tropical waves sparked thunderstorms in coastal, south central areas at mid-week, again late in week. Thunderstorms brought an end to record-breaking dry spells in Coastal Bend, South Central counties. San Antonio went 63 days without measurable rain. All areas but lower valley reported rain. However, amounts were below normal in 7 of States 15 crop reporting districts. Temperatures were generally close to normal except for below normal readings in Southern Plains, South Central areas.

Crops: Corn silage cutting continued in Plains, harvesting for grain should start in couple of weeks. Harvesting was winding down in Blacklands, remained active in East Texas. Producers were plowing stubble in South Central Texas. Statewide condition 84% normal, 87% 1992. Cotton northern high plains fields made excellent progress as bolls were beginning to open. In dryland area of Plains, some fields continued to cut out as moisture stress became more severe. Some limited harvesting began in Blacklands. Harvesting was in full swing in South Texas, Coastal Bend, producers were actively plowing harvested fields in Rio Grande Valley. Cotton 74% normal, 56% 1992. Rice harvest was in full swing along Upper Coast. Some yields better than expected. Rice 86% normal, 81% 1992. Grain sorghum harvest was winding down in Central, South Texas, along Upper Coast. Harvesting continued in Low Plains where yields continue to be below average. Fields beginning to mature in High Plains. Sorghum 78% normal, 81% 1992. Small grains seeding increased last week in High Plains where conditions allowed. Some planting began on irrigated ground in Low Plains. In Blacklands limited oat planting was completed. Peanuts non-irrigated fields in Low Plains continued to show moisture stress. In Cross Timbers dryland fields need rain soon if they are to make a crop. South Texas irrigation requirements were heavy. Peanuts 71% normal, 84% 1992. Soybeans Producers continued to bale poor fields in Blacklands. Harvesting progressed rapidly along Upper Coast.

Commercial Vegetables: Rio Grande Valley, tomato plants made good progress. Producers were planting fall watermelons, irrigating. San Antonio-Winter Garden, land preparation continued. Cabbage looked good and fall tomatoes were being planted. East Texas, producers were preparing land where conditions allowed. Watermelon harvesting winding down. High Plains, potato harvest nearing completion. Cabbage, onions, peppers were harvested where conditions allowed. Trans-Pecos, chili harvest made good progress. Producers were preparing land for fall planting. Pecan trees in Cross Timbers continued to drop nuts, producers were spraying for weevils. Scab continued to be problem in South Central Texas.

Range and Livestock: Livestock remained good, most areas of State even though ranges, pasture feed continued to decline due to dry conditions. Some producers in South Central Texas were marketing

cattle as grazing was short. Supplemental feeding continued to increase. Tank levels continued to decline, some ranchers were hauling water. Haying operations continued in some areas. In the Edwards Plateau some ranchers were shearing goats.

UTAH: Temperature maximums averaged close to 1° below normal; minimums averaged 1° above normal. Precipitation was heavy across the northern Mountains, Uintah Basin, moderate across the rest of the State.

Days suitable for fieldwork 6.5. Soil moisture 26% short, 71% adequate, 3% surplus. Irrigation water supply 9% short, 91% adequate. Stockwater supply 100% adequate. Winter wheat harvested 87%; seeded 3%, 11% 1992, 9% avg. Spring wheat harvested 73%, 98% 1992. Barley harvested 70%, 95% 1992. Oats ripe 77%; harvested for grain 38%, 81% 1992, 75% avg. Alfalfa hay 3rd cutting 36% complete, 57% 1992, 42% avg. Alfalfa seed harvested 35%, 20% 1992. Peaches picked 60%, 68% 1992, 45% avg. Apples picked 7%, 23% avg. Pears picked 35%, 47% 1992. Potatoes harvested 11%, 24% 1992. Onions harvested 13%, 28% 1992. Cattle moved from summer range 2%, 13% 1992.

VIRGINIA: Temperatures above normal south, west, near normal in the north, east. Extremes 51°; 96°. Precipitation below normal for most areas with amounts ranging from zero at several locations to 1.46 in. at Bristol.

Days suitable for fieldwork 6.3. Topsoil 55% very short, 35% short, 10% adequate. Pasture 29% very poor, 38% poor, 25% fair, 8% good. Alfalfa 4% very poor, 37% poor, 45% fair, 14% good. Other hay 14% very poor, 49% poor, 35% fair, 2% good. Corn in dough stage 86%, 82% 1992, 80% avg.; dented 66%, 56% 1992, 59% avg.; mature 40%, 34% 1992, 37% avg.; silage harvested 20%, 17% 1992, 21% avg.; harvested for grain 5%, 0% 1992, 5% avg.; 22% very poor, 32% poor, 41% fair, 5% good. Peanut 17% very poor, 50% poor, 33% fair. Soybeans blooming 90%, 87% 1992, 86% avg.; setting pods 66%, 56% 1992, 69% avg.; 7% very poor, 57% poor, 35% fair, 1% good. All tobacco 25% poor, 35% fair, 38% good, 2% excellent. Flue tobacco 43% harvested, 48% 1992, 46% avg. Fire tobacco 45% harvested, 50% 1992, 55% avg. Sun tobacco 45% harvested, 57% 1992, 39% avg. Burley tobacco 6% harvested, 13% 1992, 29% avg. Cotton 15% very poor, 9% poor, 46% fair, 30% good. Apple 11% poor, 50% fair, 39% good. Summer apple harvest 80% completed. Quantity is excellent, however size appears small. Livestock mostly fair to good. Harvesting hay, corn silage. Spider mites heavy in several counties on peanuts, corn earworms soybeans in a few southeastern locations.

WASHINGTON: Temperatures 7° below normal to 1° below normal west; 11° below normal to 5° below normal east. Precipitation 0.02 to 1.00 in. west; none to 0.75 in. east.

Days suitable for fieldwork 6.6. Soil moisture 2% short, 98% adequate. Irrigation water supply 11% short, 89% adequate. Hay, other roughage 7% short, 91% adequate, 2% surplus. Range, pasture feed 17% poor, 32% fair, 33% good, 18% excellent. Winter wheat dryland 90% good, 10% excellent; irrigated 100% good. Spring wheat dryland 10% fair, 80% good, 10% excellent; irrigated 100% good. Barley dryland 90% good, 10% excellent; irrigated 95% good, 5% excellent. Potatoes 100% good. Cereal grain harvests continued, yields still mostly good to excellent. Fall ground preparations, seeding underway in areas finished with

harvest. Hay producers took advantage of the drier weather in an effort to salvage some hay production. Pear and apple harvests continued. Vegetable harvests continued.

WEST VIRGINIA: Temperature 78°. Extremes 52°; 99°. Precipitation 0.40 inches.

Days suitable for fieldwork 6.1. Soil moisture 41% very short, 50% short, 9% adequate. Tobacco 1% poor, 54% fair, 45% good; 82% topped. Hay 12% very poor, 44% poor, 34% fair, 10% good; 67% 2nd cut, 54% 3rd cut. Pastures 17% very poor, 47% poor, 36% fair; 66% of normal. Gardens 30% poor, 40% fair, 30% good. Cattle 25% fair, 75% good. Sheep 41% fair, 59% good. Apples poor to fair. Peaches poor to fair. Corn 7% poor, 89% fair, 4% good; 97% silked, 86% dough stage. Soybeans 33% fair, 67% good; 100% blooming, 96% setting pods. Farm activities: Moving livestock, cutting hay, topping tobacco, harvesting apples, peaches, general maintenance.

WISCONSIN: Some of the warmest temperatures of the summer showed up. Temperature 73°; 7° above normal. Extremes 41°; 97°. Precipitation 0.30 to 1.60 inches.

Days suitable for fieldwork 5.4. Soil moisture 17% short, 72% adequate, 11% surplus. Pasture feed 86% of normal, 67% 1992, 68% avg. General condition of crops: 4% poor, 34% fair, 60% good, 2% excellent. Oats 3% very poor, 11% poor, 47% fair, 36% good, 3% excellent; 74% harvested, 71% 1992, 87% avg. Corn 1% very poor, 3% poor, 47% fair, 45% good, 4% excellent; 45% in dough, 38% 1992, 63% avg.; 15% in dent, 7% 1992, 28% avg. Soybean 1% poor, 16% fair, 73% good, 10% excellent; leaves turned 9%, 3% 1992, 13% avg. 3rd cut alfalfa 20% harvested, 33% 1992, 35% avg. Crops continue to make improvements with the favorable weather this past week. Reporters have indicated that there is a large variation between fields as well as within the same field. Second, third crop alfalfa continues to be cut, getting the hay dry is difficult with the muggy weather. Corn crop has developed rapidly over the past two weeks, is still one to two weeks behind normal. Soybeans are beginning to set pods. A farmer in Jefferson county commented that this is his best soybean crop in years. Wide range in oats yields as they continue to be harvested. Sweet corn is being harvested, yields are lower than expected.

WYOMING: Temperatures about 5° below normal in Powell to about 4° above normal in Casper. Temperatures generally above normal in the southeast, normal to below normal across the rest of State. Precipitation was below normal over most of the State. Exception was the southeast where amounts were as much as 0.70 in. above normal. Wheatland largest amount 0.92 inches.

Days suitable for fieldwork 5.9. Topsoil 22% short, 78% adequate. Spring wheat 21% harvested, 70% 1992, 83% avg. Oats 25% harvested, 62% 1992, 72% avg. Barley 54% harvested, 78% 1992, 80% avg. Winter wheat 82% harvested, 92% 1992, 98% avg.; planted for harvest in 1994 8%, 14% 1992, 12% avg. Corn in dough stage 12%, 39% 1992, 54% avg.; dented 0%, 7% 1992, 13% avg. Dry beans with leaves turning color 12%, 90% 1992, 71% avg. Alfalfa 2nd cutting completed 58%, 66% 1992, 76% avg. Other hay harvested 89%. Estimated average starting date for sugarbeet harvest was September 22nd with the earliest estimated starting date of September 15th. Hail damage moderate to severe in Campbell, Crook, Johnson, Natrona, Goshen counties. Range, pasture feed good to excellent.

International Weather and Crop Summary HIGHLIGHTS

August 22 - 28, 1993

FSU: Rain stabilized conditions for filling corn in Ukraine. Grain harvesting progressed slowly in Russia. In the New Lands, spring grains were filling in Russia with harvest underway in Kazakhstan.

EUROPE: Heavy rain soaked maturing corn in southern France, while showers slowed grain harvesting across the north.

SOUTH ASIA: Dry, warm weather in central and northwestern crop areas increased irrigation demands and reduced moisture for rainfed grains, oilseeds, and cotton.

SOUTHEAST ASIA: Increased tropical storm activity brought needed rain to grain and sugarcane areas of Indochina and the Philippines.

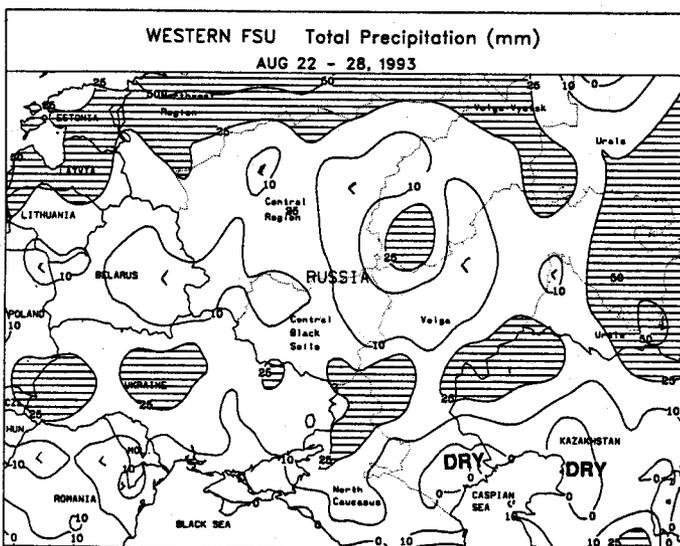
EASTERN ASIA: Typhoon Vernon brushed Japan, causing local flooding. Heavy rains slowed summer crop harvesting across southwestern China.

AUSTRALIA: Rains benefited winter wheat across eastern Australia.

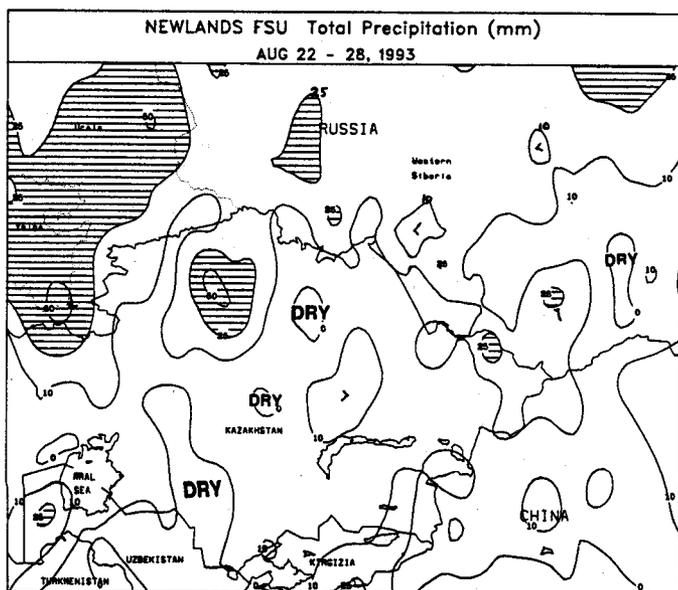
SOUTH AMERICA: Warmer weather favored crops in Brazil but depleted topsoil moisture in Argentina.

CANADA: A cold front brought unwelcomed rain to the Prairies. Ensuing cold weather brought scattered frost to northern growing regions.

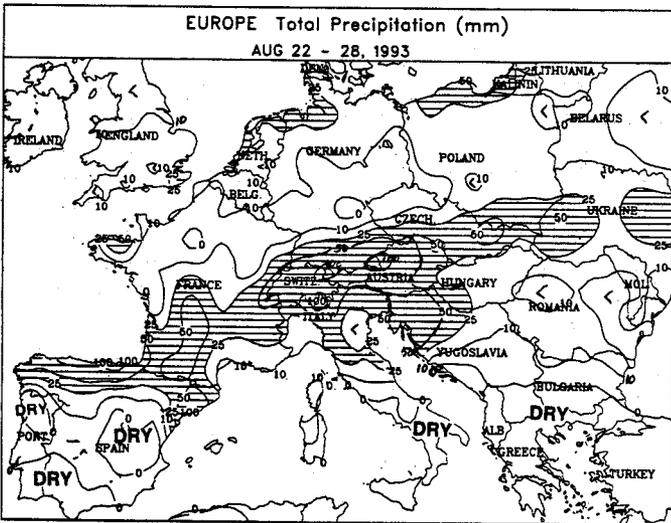
MEXICO: Tropical activity brought heavy rains to western and northwestern Mexico.



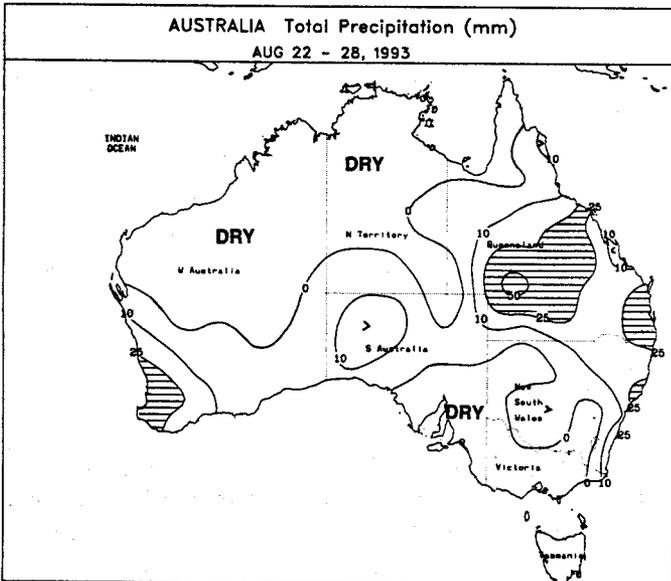
FSU-WESTERN: Intermittent showers slowed grain harvest in northern Russia. Precipitation amounts in Central Region and Volga Valley ranged from 10 to 25 mm, while greatest rainfall (25-50 mm) covered Northwest Region and parts of Volga Vyatsk. As of August 23, reports indicated the Russian grain harvest was about 43 percent complete compared with 55 percent last year. The slow harvest in northern Russia may hamper the planting of 1994 winter grain crops. The optimum planting time for winter grains in northern Russia is late August. Further south, early week hot, dry weather in Ukraine was followed by a cooling trend and widespread rain (10-25 mm, with local amounts in excess of 30 mm). The rain stabilized conditions for filling corn, stressed by earlier dryness. Unseasonably cool weather spread southward covering most of the region by week's end. Weekly average temperatures were 2-4 degrees C below normal in the Baltic States, Belarus, and Russia, and near normal in Ukraine. Summer crops such as corn, sunflowers, and sugar beets continued mostly in the filling stage. The bulk of summer crop harvests takes place from late September to middle October.



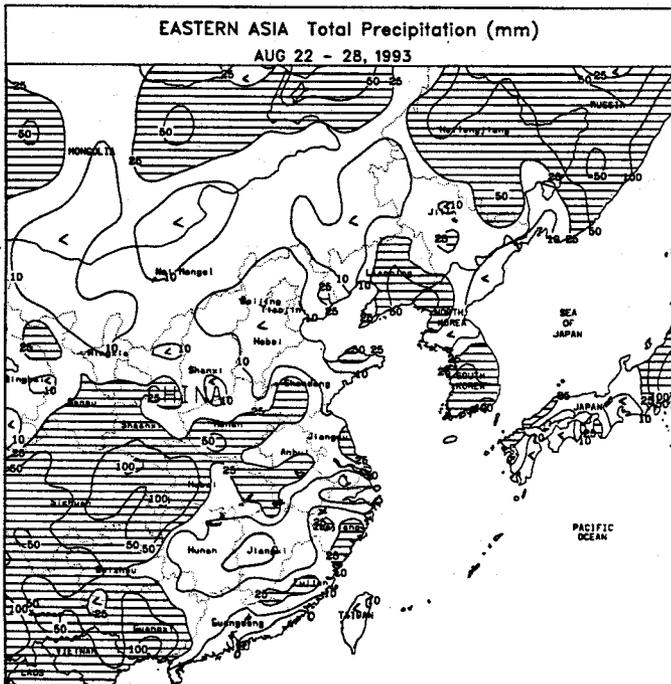
FSU-NEW LANDS: Crop progress for spring grains ranged from late-filling in the north to maturing in the south. Reports indicated early spring grain harvesting in southern areas of Kazakhstan. Spring grains are usually harvested in September. In Russia, light to moderate rain (10-25 mm, with local amounts in excess of 50 mm) covered spring grains. In Kazakhstan, while mostly dry weather allowed grain harvesting in the south, persistent rain (10-25 mm) slowed early harvesting in central areas. In cotton areas of Central Asia, reports indicate the cotton crop is ripening later than usual in Uzbekistan. While harvesting usually begins in September, most of the harvest will occur in October and November.



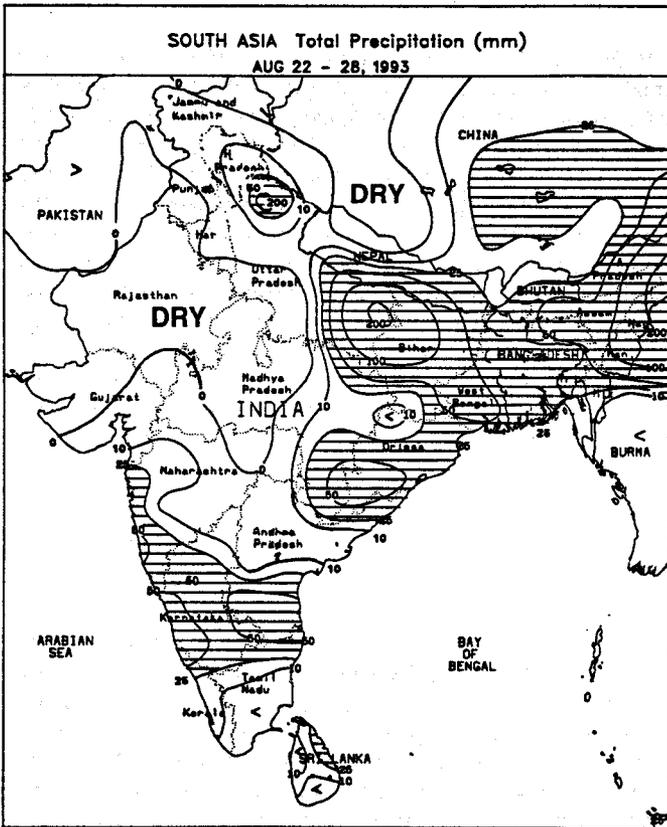
EUROPE: Locally heavy rainfall (50-150 mm) stretched from extreme northern Spain and southern France across the Alpine region to Slovakia. Corn, sunflowers, and other summer crops ranged from filling to maturing across the south, with the wet weather delaying early harvest activity. Showers (10-30 mm) covered northern European crop areas as well, slowing winter and spring grain harvesting. Variable amounts of rain (4-20 mm) helped immature corn in Hungary and Romania. Heavier rain (25-87 mm) fell over Slovenia, but dry weather prevailed again over Bulgaria and Greece. In Scandinavia, showers (10-47 mm) slowed winter grain harvesting in Finland, but only light rain fell over most of southern Sweden and Denmark. Cooler weather prevailed in Spain (2-4 degrees C below normal), while above-average temperatures accompanied the dryness in Bulgaria.



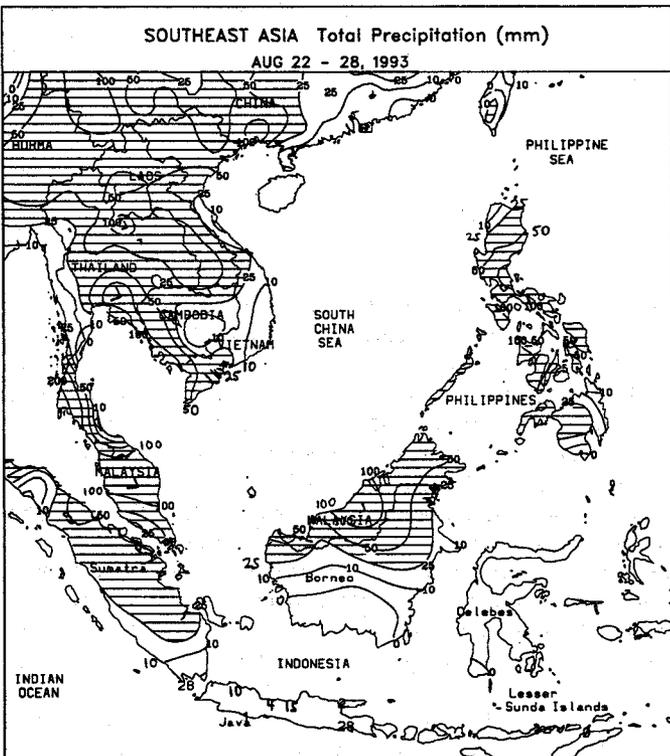
AUSTRALIA: Beneficial rains (10-40 mm) fell across southern Queensland and northern New South Wales, favoring vegetative winter wheat. However, due to long-term soil moisture deficits, timely rains are needed during the next month when the crop enters the moisture-sensitive reproductive stage. Further south, dry and warm (3-5 degrees C above normal) weather prevailed across South Australia and Victoria. Western Australia received 5-25 mm of rain, keeping soils moist for vegetative wheat.



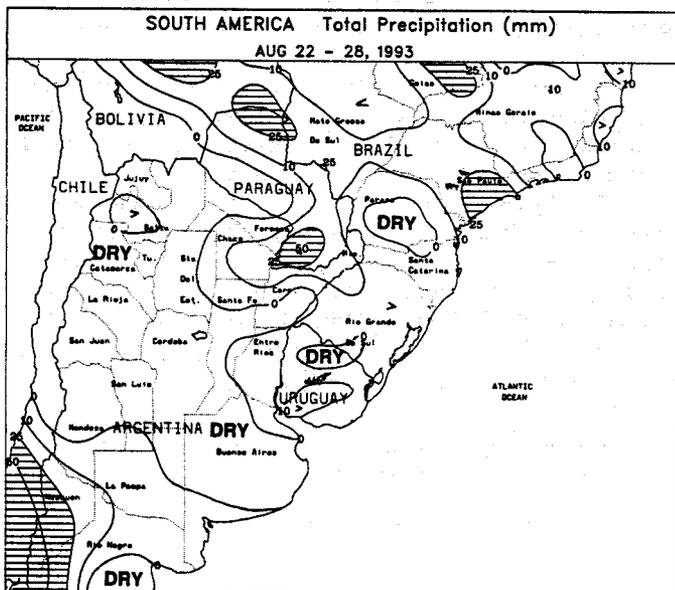
EASTERN ASIA: Typhoon Vernon brushed eastern Japan during August 27 and 28 with sustained winds of 60-80 mph. The storm came within 50 miles of Tokyo and dumped heavy rains across east-central Japan, bringing weekly totals to 100-200 mm. The remnants of Vernon then moved across the northeastern portion of Hokkaido, producing weekly totals of 30-75 mm, with isolated amounts up to 150 mm. In China, Manchuria received light to moderate rains (10-50 mm), slowing spring wheat harvesting. Mostly scattered light rain (5-15 mm) fell across the North China Plain, with somewhat heavier amounts (30-80 mm) reported in southwestern Shandong and Henan. Soil moisture supplies continued favorable across the region. Moderate to heavy showers (33-110 mm) slowed summer crop harvesting and possibly damaged mature cotton in Sichuan and Hubei. Residual tropical activity produced moderate to heavy rain (25-100 mm) across southwestern China (Guangxi, Yunnan, and Guizhou). Variable showers (11-60 mm) were common across the rest of southern China. Temperatures remained near normal across most of China.



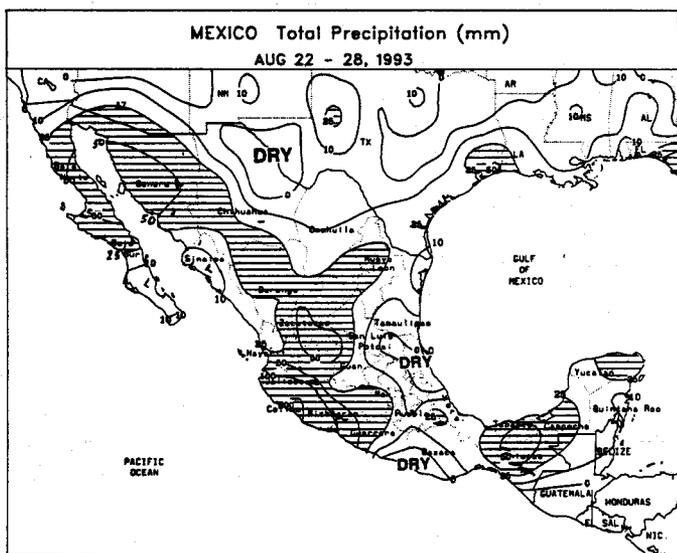
SOUTH ASIA: Dry, warm weather dominated primary crop areas of central and northwestern India and Pakistan, reducing moisture for immature rainfed crops. Conditions also necessitated increased irrigation of immature rice and cotton in Pakistan and north-central India. The dryness extended southward into groundnut areas of northern Andhra Pradesh, further reducing moisture for filling crops, although beneficial rain (10-50 mm or more) covered crops in Karnataka and parts of Tamil Nadu. Rainfall tapered off to more seasonable levels (25-50 mm) in Orissa, but heavy showers (50-200 mm) from eastern Uttar Pradesh to Assam boosted rice irrigation levels while causing some more flooding.



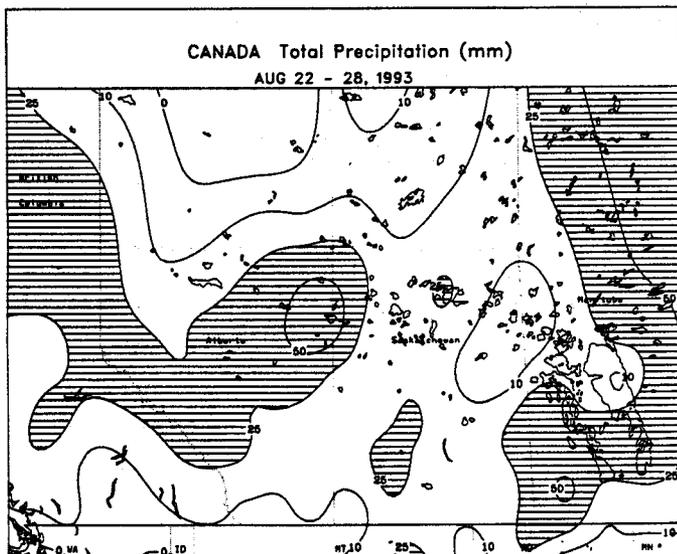
SOUTHEAST ASIA: Tropical activity picked up over the western Pacific, resulting in seasonably heavier rain over Indochina and the Philippines. Rainfall totaled 25-100 mm or more over most grain and sugarcane areas in Indochina, including primary rainfed crop areas in northern and central Thailand that had been tending dry. Tropical Storm Winona, which brought highly beneficial rain (25-100 mm) to primary crop regions of the Philippines, was approaching north-central Vietnam at week's end, promising to bring much-needed rainfall to coastal rice areas. Further south, moderate to heavy rain (50-100 mm, with local reports exceeding 200 mm) likely caused some flooding along the Malay Peninsula, including rice and oil palm areas of Malaysia.



SOUTH AMERICA: Warmer weather prevailed across southern Brazil, after several previous cold spells possibly damaged winter wheat. Light, scattered rain (4-20 mm) fell across most of southern Brazil. However, eastern Sao Paulo and southern Goias received heavier rain (20-50 mm). Dry and warm weather (maximum temperatures ranged from 35 to 39 degrees C across the north and 26 to 30 degrees C across the central crop areas) depleted topsoil moisture across Argentina. Nevertheless, subsoil moisture should still be favorable due to heavy rains from last March to May. Temperatures averaged 4-6 degrees C above normal across Argentina and near normal across southern Brazil.



MEXICO: Early in the week, Tropical Cyclone Irwin slowly dissipated off the west-central Mexican coast, producing heavy rains (100-200 mm) and local flooding from Michoacan to Jalisco States. The tropical activity also produced moderate to heavy rains (20-50 mm) across the western corn belt. Tropical Cyclone Hilary made landfall and dissipated across Baja California, with sustained winds of 30-40 mph. The remnants then crossed the Gulf of California and moved across Sonora into the southwest United States. The storm produced moderate to locally heavy rains (25-100 mm) across Baja California and the western Sierra Madre, favoring reservoirs.



CANADA: A cold front brought light to moderate showers (10-56 mm) to the Prairies, worsening grain and oilseed quality prospects and hampering early harvests. Cold weather behind the front caused scattered frost (temperatures of 0 to 2 C) in northern growing areas of Saskatchewan and Alberta. This region typically experiences its first autumn freeze from late August to early September. Cold air remains a threat to immature grains and oilseeds, still 1-3 weeks behind normal development. Aside from warmer weather, drier conditions are needed across the Prairies for drydown and harvests. In Ontario, drier- and warmer-than-normal conditions prevailed, aiding summer crop maturation.

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(Continued from front cover)

country east of the Rockies endured hot, muggy weather, with temperatures averaging 6°F or more above normal from the middle Mississippi Valley east to the mid-Atlantic region. On Wednesday, when 12 records for heat were broken or tied, Chattanooga, TN tied a record with 99°F. Thursday's torrid reading of 98°F at Pittsburgh, PA was their highest since August, 1988. Hartford, CT broke their daily record with a blistering 99°F on Saturday. The northwest quadrant of the country notched a third week of unusually cool weather. On Thursday, Butte, MT measured 1 inch of snow on the ground. Portland, OR broke their low temperature record with 42°F.

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