

WEEKLY WEATHER AND CROP BULLETIN

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

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

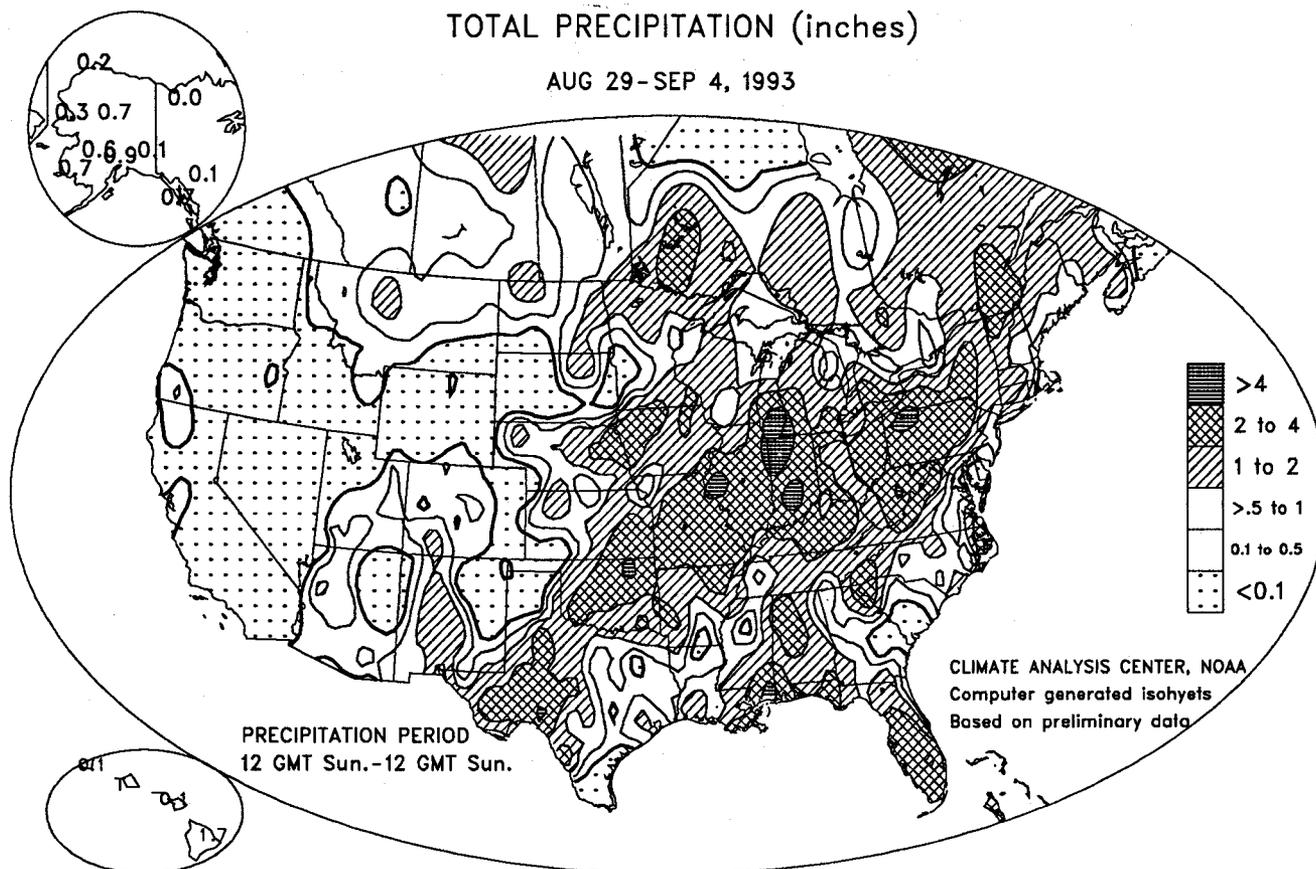
Volume 80, No. 36

Washington, D.C.

September 8, 1993

TOTAL PRECIPITATION (inches)

AUG 29-SEP 4, 1993



HIGHLIGHTS

August 29 - September 4, 1993

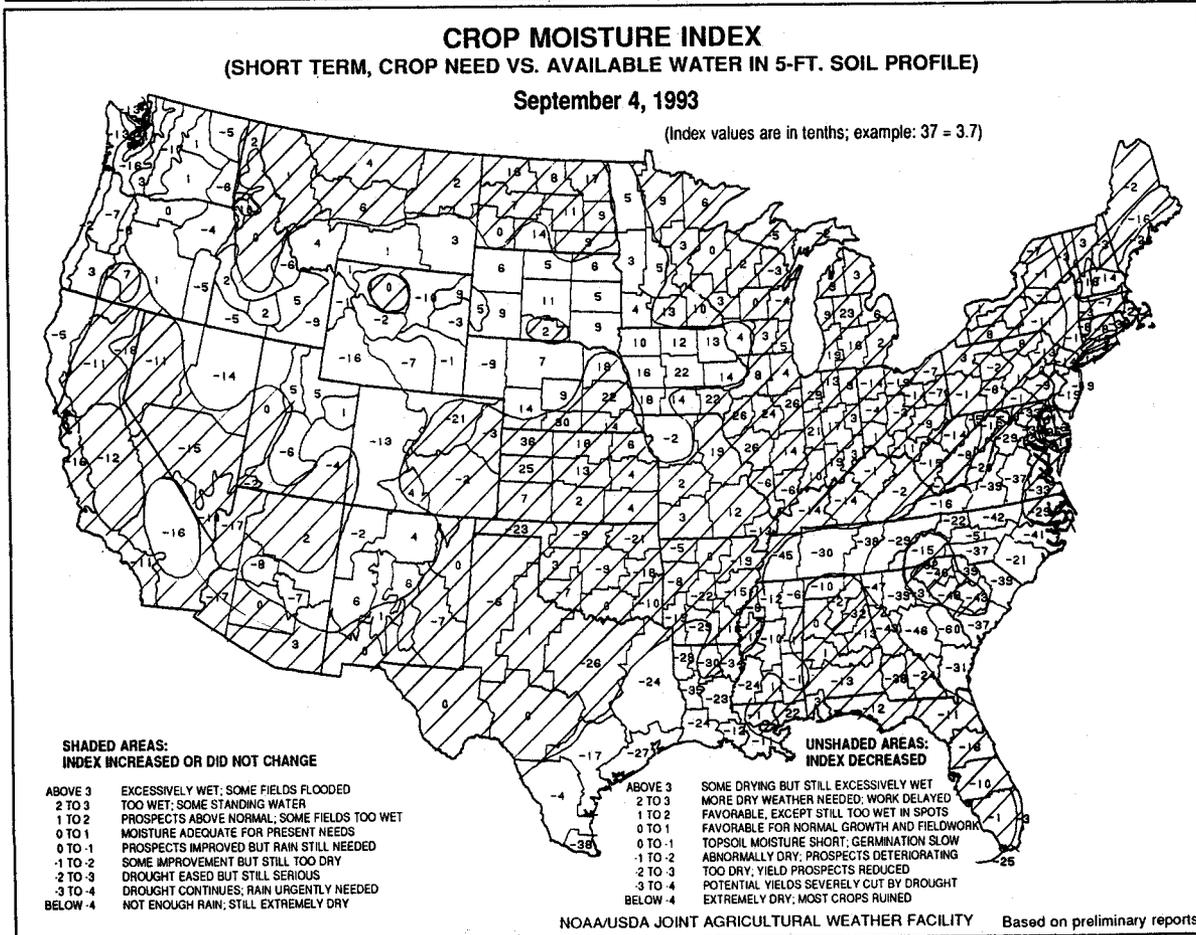
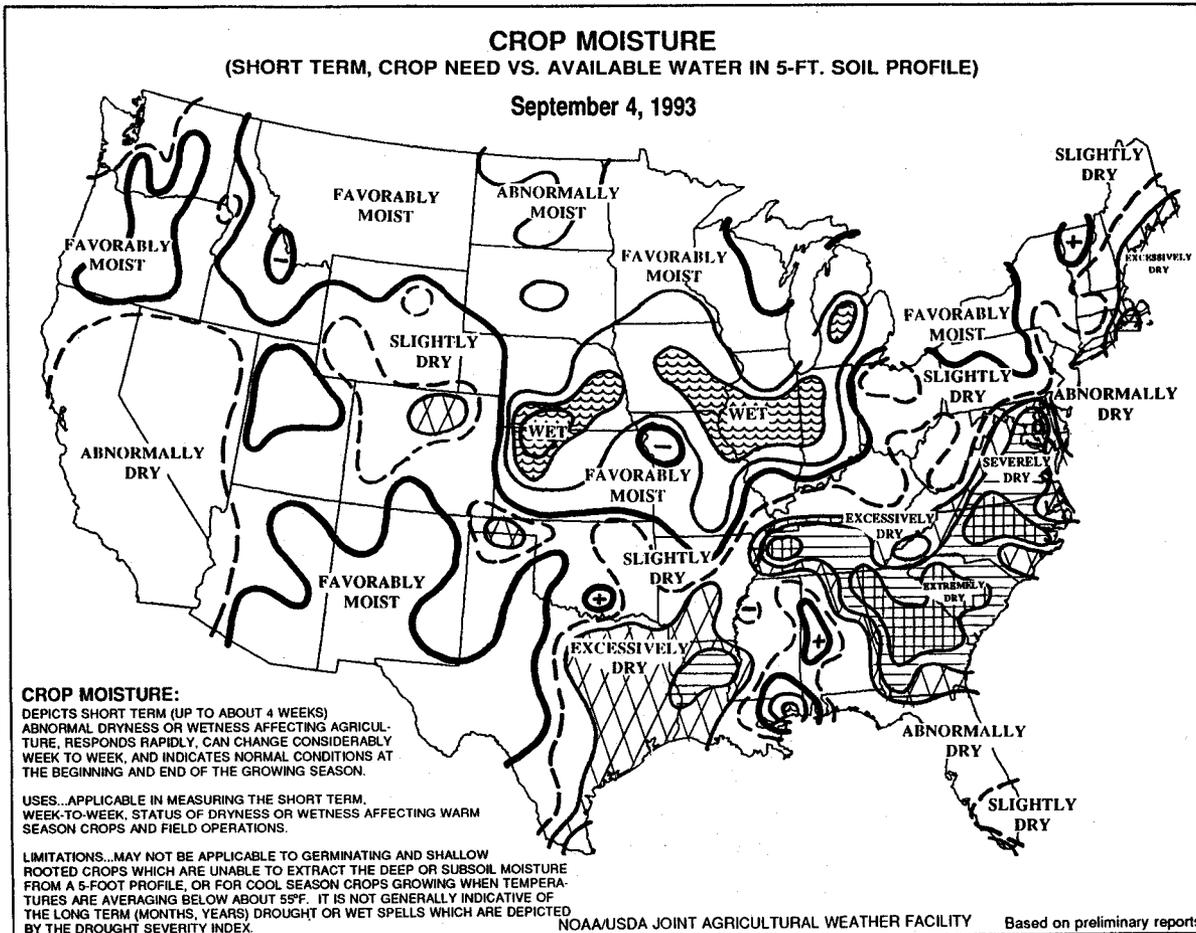
Hurricane Emily recurved in response to an advancing cold front, brushing North Carolina's Outer Banks. Prior to reaching the Eastern Seaboard, the front induced heavy rainfall in the Midwest and ended south-central Texas' epic dry spell. In the front's wake, late-summer heat slipped away in the East, and a touch of autumn blanketed the Northwestern and Central States. Hurricane Emily's parabolic track brought the center of its 45-mile-wide eye to within 25 miles of Cape Hatteras, NC at 5 p.m. EDT on Tuesday, allowing hurricane conditions to overspread the barrier island. Cape Hatteras recorded peak sustained winds of 69 mph, with a gust as high as 98 mph, along with 7.51 inches of rain. Emily passed the Outer Banks packing maximum sustained winds of 115 mph and a minimum central barometric pressure of 28.35 inches of mercury. At Diamond Shoals, 14

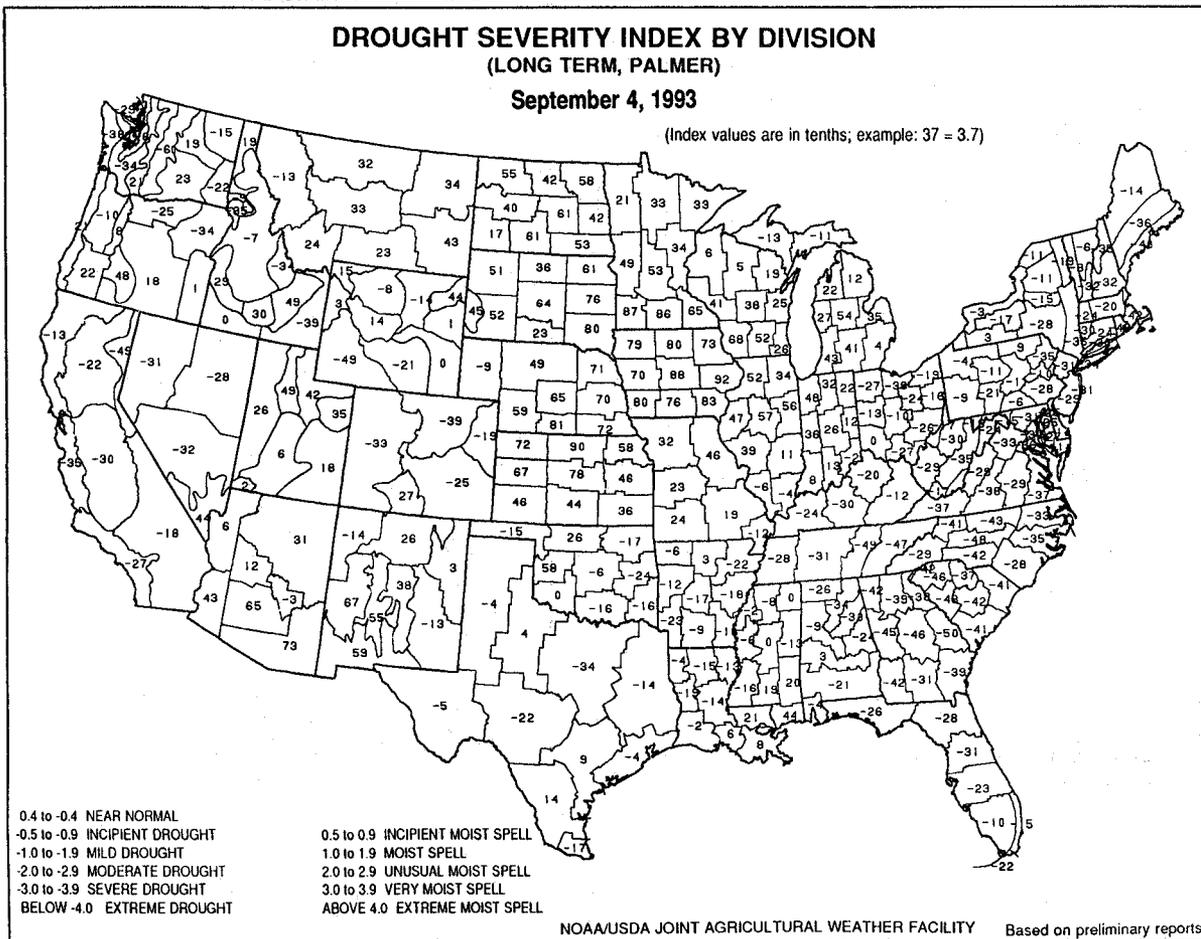
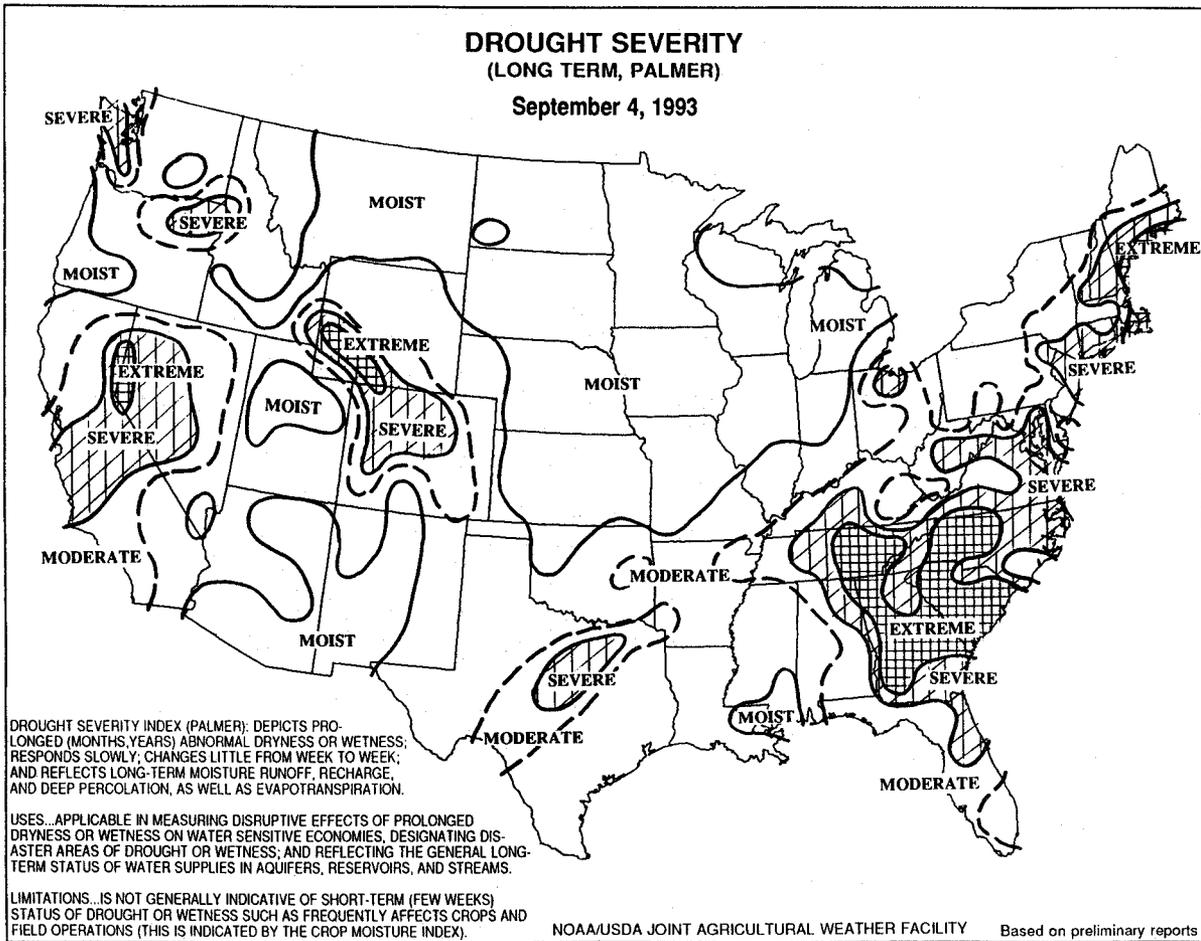
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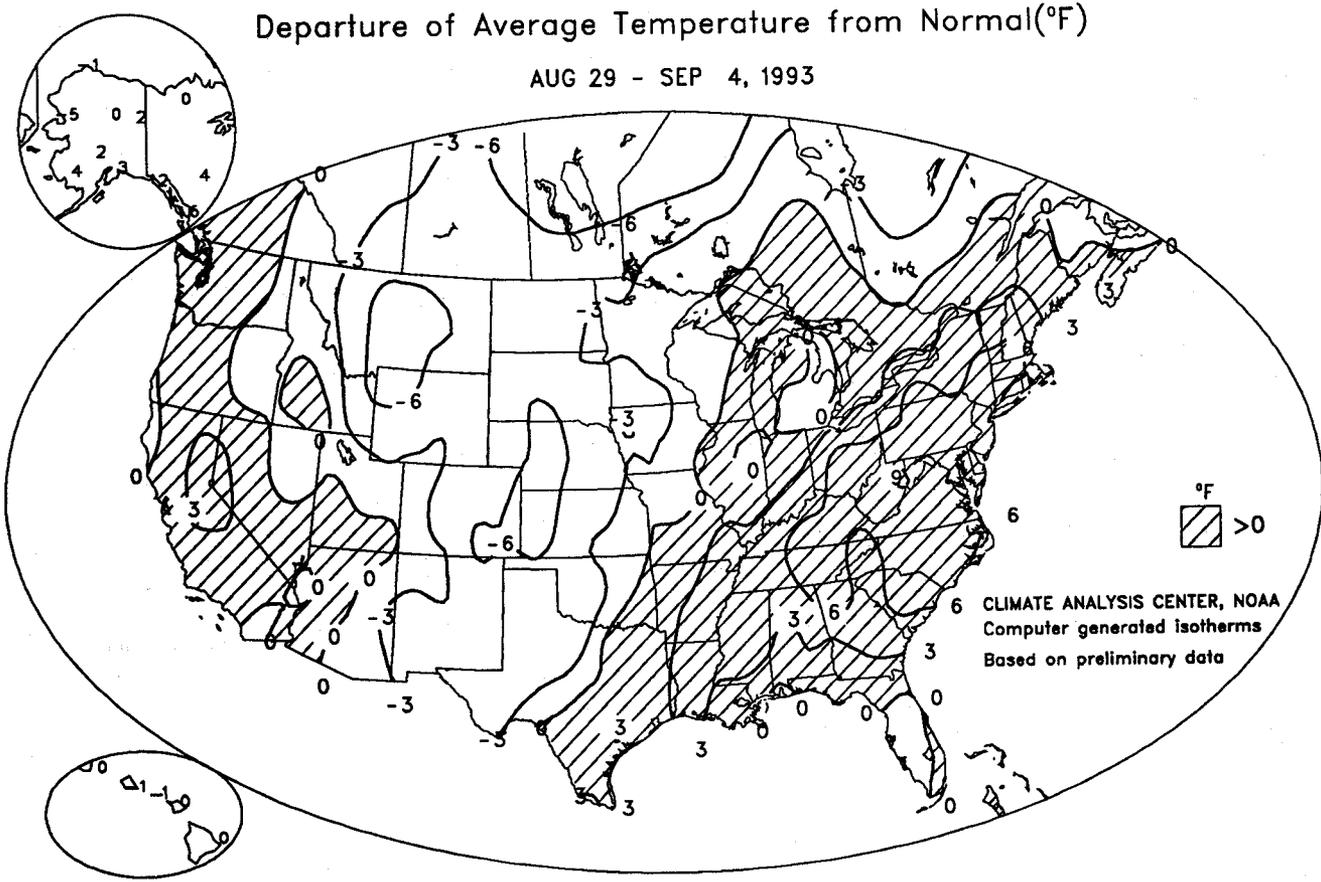
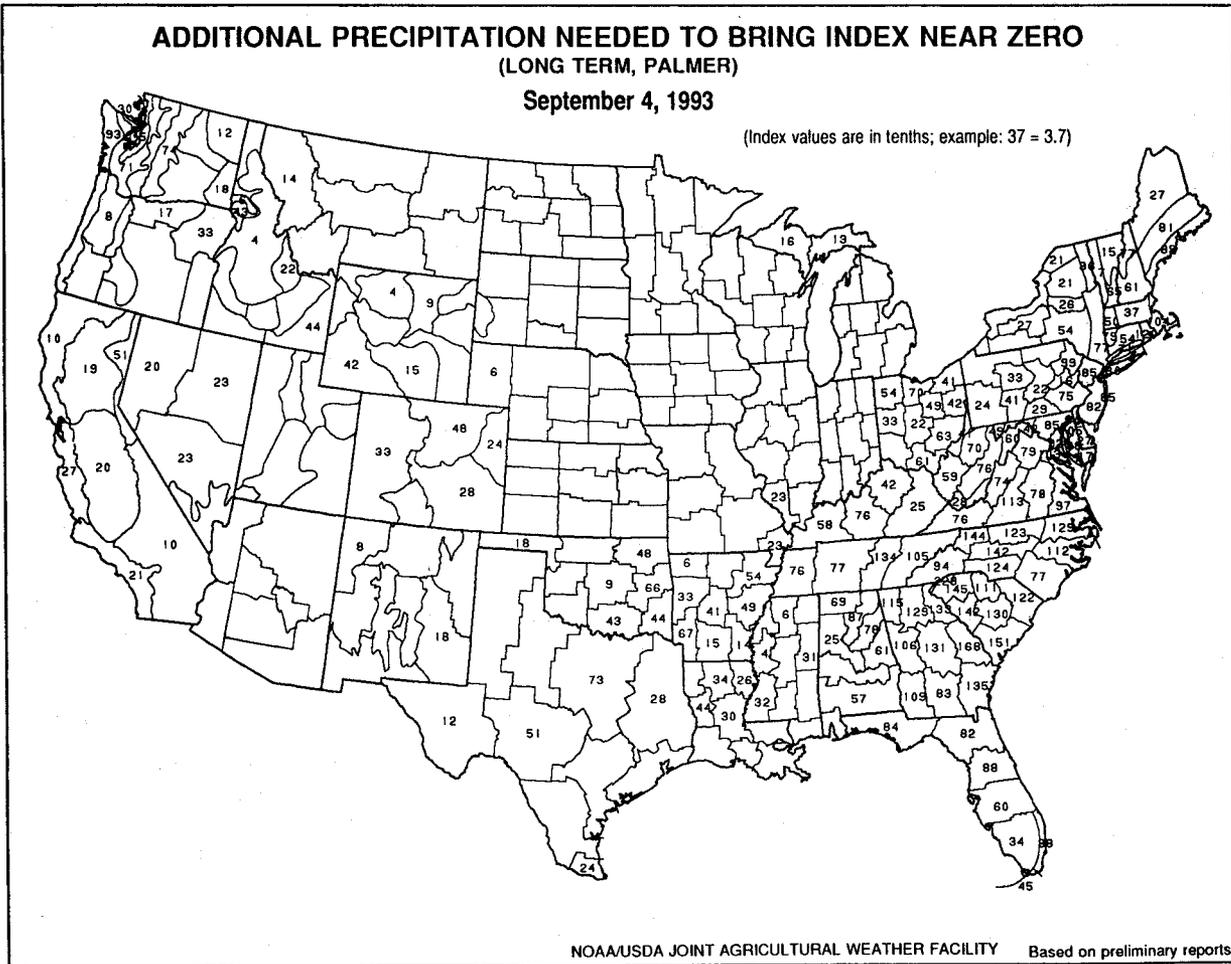
Contents

Page

Highlights & Total Precipitation Map	1
Crop Moisture Maps	2
Drought Severity Maps	3
Precipitation Needed to End Drought & Temperature Departure Maps	4
Extreme Maximum & Minimum Temperature Maps ...	5
Satellite Image of Hurricane Emily	6
Growing Degree Day Table	7
National Weather Data for Selected Cities	8
August Weather and Crop Summary	11
August Precipitation & Temperature Maps	12
August Weather for Selected Cities	14
National Agricultural Summary	15
Crop Progress and Condition Tables	16
State Summaries of Weather and Agriculture ...	18
International Weather and Crop Summary & August Temperature/Precipitation Table	25
Tropical Cyclones Affecting Japan	31
Subscription and Mailing Permit Information ..	32

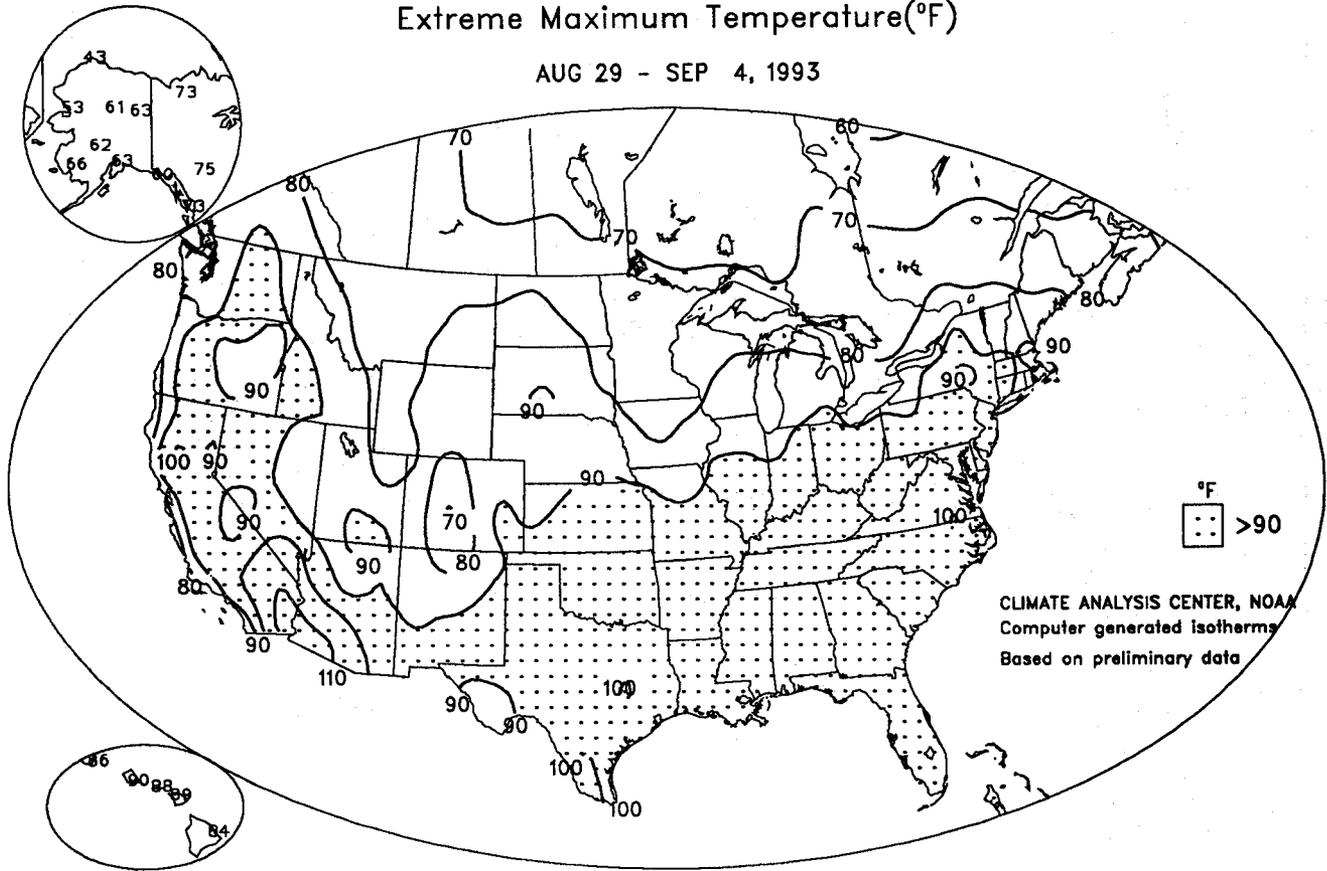






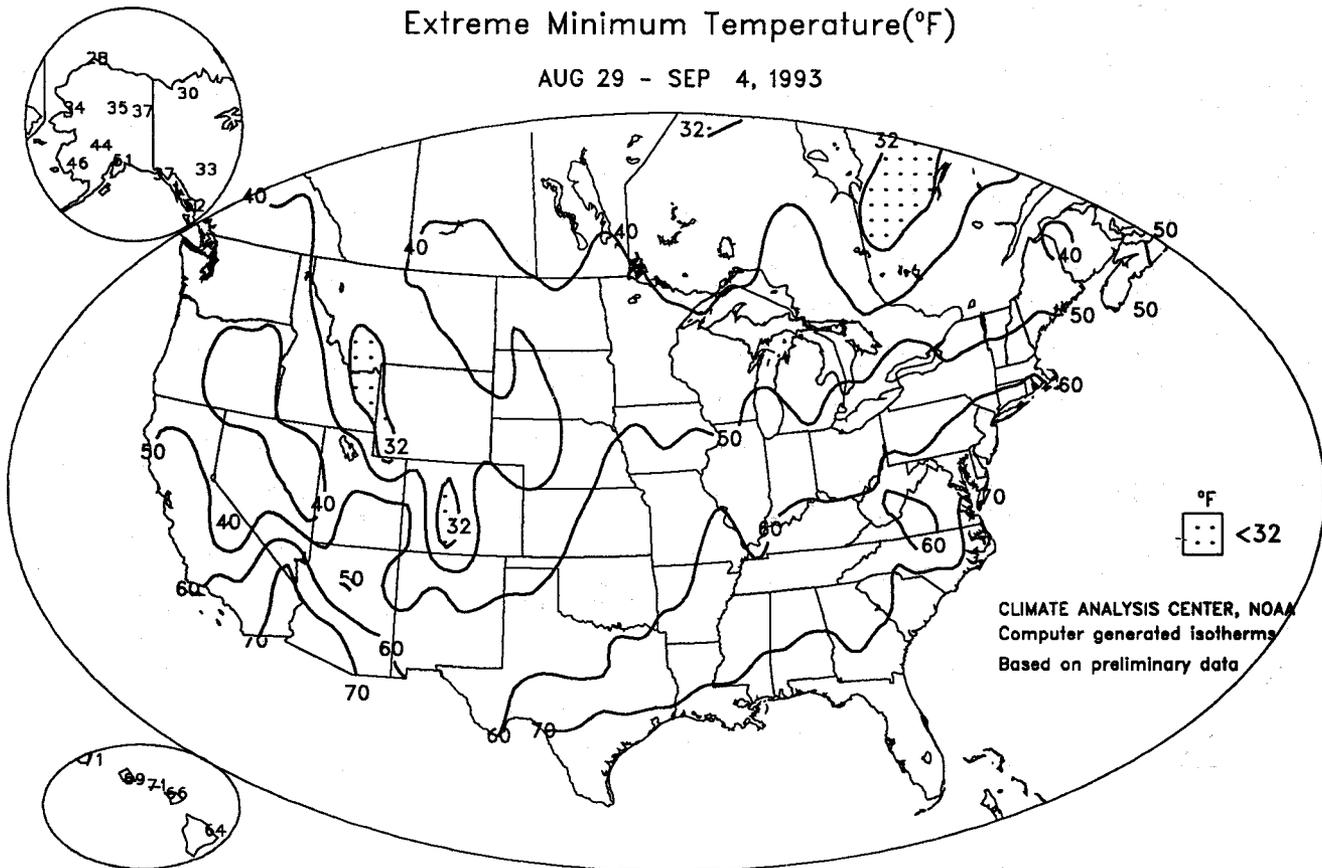
Extreme Maximum Temperature(°F)

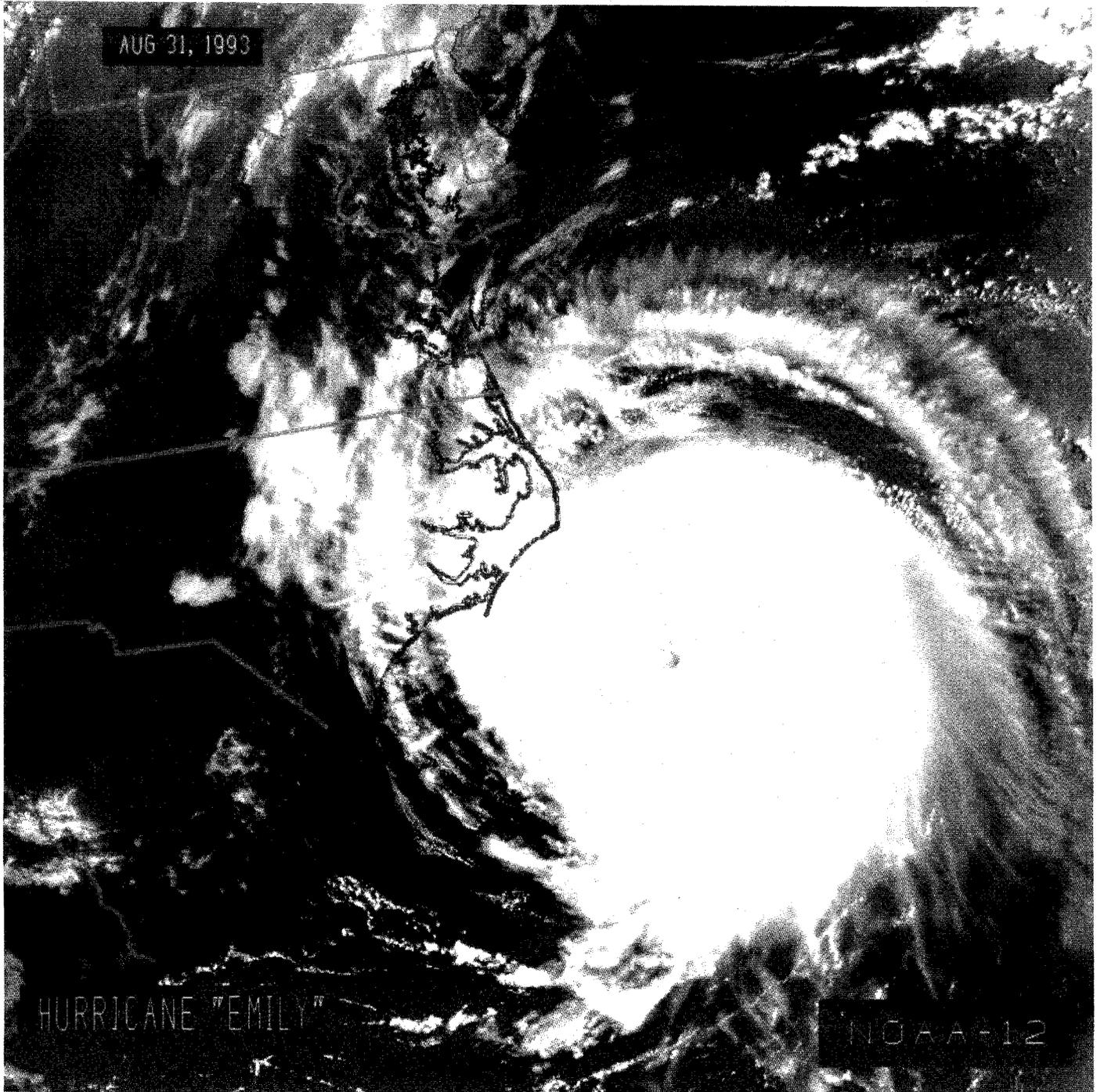
AUG 29 - SEP 4, 1993



Extreme Minimum Temperature(°F)

AUG 29 - SEP 4, 1993





CUMULATIVE GROWING DEGREE DAYS (CORN*) April 1 - September 4, 1993

STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL
AL ANNISTON	3584	+ 69	SALINA	3060	- 73	OK ALTUS	3629	- 38
BIRMINGHAM	3617	+ 28	TOPEKA/BILLARD	3016	- 55	GAGE	3241	- 31
MOBILE	3893	- 146	WICHITA	3181	- 80	HOBART	3505	- 40
MONTGOMERY	3787	+ 130	KY LEXINGTON	3107	+ 137	MCALISTER	3777	+ 159
MUSCLE SHOALS	3628	+ 144	BOWLING GREEN	3305	+ 116	PONCA CITY	3537	+ 91
OZARK	3838	+ 68	PADUCAH	3434	+ 136	TULSA	3502	- 88
TUSCALOOSA	3749	+ 46	LA LAFAYETTE	4048	- 7	OR BAKER	1644	- 166
AZ DOUGLAS	3450	+ 192	LAKE CHARLES	4109	- 26	EUGENE	1825	- 21
FLAGSTAFF	2032	+ 213	MONROE	3888	+ 48	NORTH BEND	1353	+ 278
PHOENIX	4724	+ 541	NEW ORLEANS	3978	- 96	PENDLETON	2114	- 172
TUCSON	4055	+ 226	SHREVEPORT	3856	+ 117	REDMOND	1618	- 177
YUMA	4763	+ 451	ME AUGUSTA	2100	+ 202	PORTLAND	2018	+ 126
PRESCOTT	2806	+ 367	CARIBOU	1654	+ 192	SALEM	1974	+ 155
AR EL DORADO	3701	+ 12	HOULTON	1699	+ 96	SEXTON SUMMIT	1109	- 322
FAYETTEVILLE	3308	+ 148	PORTLAND	2010	+ 233	PA ALLENTOWN	2853	+ 316
FORT SMITH	3667	+ 111	MD SALISBURY	3155	+ 242	PHILADELPHIA	3302	+ 635
JONESBORO	3580	+ 7	MA WORCESTER	2152	+ 127	WILLIAMSPORT	2758	+ 311
LITTLE ROCK	3716	+ 149	MI JACKSON	2314	- 21	SC BEAUFORT	4044	+ 211
TEXARKANA	3798	- 25	LANSING	2302	- 48	CHARLESTON	3941	+ 185
CA BAKERSFIELD	3499	- 22	MUSKEGON	2258	+ 147	COLUMBIA	3769	+ 119
BLUE CANYON	1556	- 207	PELLSTON	1786	+ 78	FLORENCE	3875	+ 222
DAGGETT	3836	+ 96	SAULT STE. MARIE	1425	- 16	SUMTER/SHAW AFB	3741	+ 113
EUREKA	1273	+ 533	TRVERSE CITY	2117	+ 154	SD ABERDEEN	2158	- 3
FRESNO	3369	+ 252	MN DULUTH	1383	- 118	HURON	2191	- 190
MARYSVILLE	3189	+ 211	INT'L FALLS	1580	- 72	PIERRE	2206	- 175
MERCED	3170	+ 225	MINNEAPOLIS	2173	---	RAPID CITY	1896	- 299
MT SHASTA	1622	- 254	ROCHESTER	1982	---	SIOUX FALLS	2254	- 180
PASO ROBLES	2659	+ 157	ALEXANDRIA	1871	- 176	WATERTOWN	1851	- 271
RED BLUFF	3066	- 111	MS BILOXI	4120	- 13	TN BRISTOL	3065	+ 131
RIVERSIDE	3208	+ 297	COLUMBUS	3679	+ 87	CHATTAHOOGA	3612	+ 253
SANTA ANA	3349	+ 582	JACKSON	3831	+ 169	CROSSVILLE	3089	+ 420
SAN DIEGO	2832	+ 198	MERIDIAN	3798	+ 95	MEMPHIS	3817	+ 111
SACRAMENTO	2843	+ 100	GREENWOOD	3816	+ 39	NASHVILLE	3504	+ 108
THERMAL	4096	- 66	MO COLUMBIA	3036	+ 92	TX ABILENE	3861	+ 32
ALAMOSA	1727	- 93	JOPLIN	3311	- 1	AMARILLO	3092	- 11
DENVER	2354	+ 8	SPRINGFIELD	3174	+ 84	AUSTIN	4169	+ 60
EAGLE	1755	- 188	VICHY	3169	+ 75	BROWNSVILLE	4543	+ 38
GRAND JUNCTION	2710	- 152	MT HELENA	1521	- 234	COLLEGE STATION	4053	0
LA JUNTA	2824	- 53	KALISPELL	1470	- 280	DALHART	2952	+ 29
DE DOVER	3069	+ 73	MILES CITY	1962	- 321	DALLAS/FT WORTH	4058	+ 192
WILMINGTON	3149	+ 333	NE GRAND ISLAND	2544	- 165	GALVESTON	4508	+ 127
FL DAYTONA BEACH	3996	- 77	NORFOLK	2524	- 108	HOUSTON/INTCNL	4164	+ 166
FORT MYERS	4383	+ 66	NORTH PLATTE	2354	- 99	KINGSVILLE/NAS	4503	+ 156
GAINESVILLE	3863	- 144	VALENTINE	2206	- 332	LAREDO	4587	+ 133
JACKSONVILLE	3931	- 92	SCOTTSBLUFF	2218	- 137	LUBBOCK	3561	+ 201
FORT LAUDERDALE	4737	+ 332	SIDNEY	2169	- 10	MCCALLEN	4613	+ 235
MIAMI	4687	+ 138	NV ELKO	1793	- 233	MIDLAND	3705	+ 40
MILTON	3933	+ 74	ELY	1880	- 19	PALACIOS	4334	+ 7
PENSACOLA	4056	- 52	LAS VEGAS	4183	+ 319	SAN ANTONIO	4229	+ 65
ST PETERSBURG	4390	- 74	RENO	2226	+ 87	VICTORIA	4254	+ 84
TALLAHASSEE	3875	- 45	WINNEMUCCA	2149	- 14	WACO	4037	- 42
TAMPA	4231	- 44	NH CONCORD	2308	+ 242	WICHITA FALLS	3692	- 59
VERO BEACH	4194	+ 12	NJ NEWARK	3353	+ 529	WINK	3814	+ 79
W. PALM BEACH	4447	+ 99	NM ALBUQUERQUE	3202	+ 409	UT CEDAR CITY	2378	+ 9
GA ATHENS	3652	+ 192	CARLSBAD	3756	+ 161	VT BARRE-MONTEPELIER	1925	+ 196
AUGUSTA	3798	+ 186	CLOVIS	3175	+ 186	BURLINGTON	2274	+ 276
BRUNSWICK	3991	- 42	GALLUP	2377	+ 48	VA CHARLOTTESVILLE	3253	+ 196
COLUMBUS/METRO	3882	+ 129	TRUTH OR CONSEQ.	3411	+ 164	HAMPTON/LANGLEY	3551	+ 307
MACON	3813	+ 57	NY ALBANY	2481	+ 233	LYNCHBURG	3324	+ 374
SAVANNAH	4009	+ 159	ELMIRA	2370	+ 237	NORFOLK	3526	+ 280
ID BOISE	2146	- 170	GLENS FALLS	2260	+ 198	RICHMOND	3385	+ 214
BURLEY	1982	- 48	ROCHESTER	2320	+ 106	WA BELLINGHAM	1514	+ 175
IDAHO FALLS	1619	- 258	SYRACUSE	2342	+ 146	HOQUIAM	1376	+ 211
POCATELLO	1753	- 263	UTICA	2147	+ 87	SEATTLE-TACOMA	1674	+ 119
IL BELLEVILLE	3230	+ 146	WATERTOWN	2094	+ 24	SPOKANE	1698	- 190
CHICAGO/MIDWAY	2667	+ 23	NC ASHEVILLE	2959	+ 227	TACOMA	1725	+ 71
DECATUR	2902	- 38	FAYETTEVILLE	3617	+ 182	WALLA WALLA	2306	- 97
PEORIA	2890	+ 179	GREENSBORO	3467	+ 289	WENATCHEE	2354	- 84
ROCKFORD	2572	+ 112	HICKORY	3340	+ 187	YAKIMA	2128	- 53
SPRINGFIELD	3001	+ 95	RALEIGH	3495	+ 230	WV HUNTINGTON	3149	+ 391
QUINCY	2891	+ 26	WILMINGTON	3765	+ 138	MARTINSBURG	2878	+ 133
IN INDIANAPOLIS	2924	+ 131	NEW BERN	3642	+ 125	MORGANTOWN	2814	+ 164
SOUTH BEND	2580	+ 136	ND BISMARCK	1804	- 227	WI EAU CLAIRE	2058	- 95
TERRE HAUTE	2997	+ 160	DICKINSON	1555	- 359	GREEN BAY	2099	+ 86
IA DES MOINES	2620	- 151	JAMESTOWN	1758	- 238	LACROSSE	2314	- 92
MASON CITY	2203	- 268	MINOT	1590	- 298	MADISON	2422	+ 80
OTTUMWA	2781	- 5	GRAND FORKS	1853	- 80	WAUSAU	1910	- 86
KS CHANUTE	3142	- 73	OH AKRON-CANTON	2566	+ 183	WY CASPER	1935	- 75
DODGE CITY	2889	- 161	COLUMBUS	2820	+ 220	LANDER	1805	- 173
GARDEN CITY	2769	- 225	DAYTON	2802	+ 75	SHERIDAN	1688	- 237
GOODLAND	2393	- 150	FINDLAY	2489	+ 7	WORLAND	2024	- 83
MEDICINE LODGE	3300	+ 14	YOUNGSTOWN	2420	+ 194			
RUSSELL	2899	- 116	ZANESVILLE	2722	+ 175			

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 September 4, 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 Sept 1	PCT. NORMAL SINCE Sept 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	
AL BIRMINGHAM	91	71	96	66	81	4	2.8	1.9	1.9	2.8	517	27.8	71	90	56	4	0	2	2	
MOBILE	87	73	94	72	80	-1	1.5	-1.1	-1.7	1.2	127	46.4	100	96	69	2	0	6	1	
MONTGOMERY	90	73	93	72	82	-3	.9	.0	.4	.7	130	35.6	89	93	63	3	0	3	0	
AK ANCHORAGE	61	53	63	51	57	4	2.2	1.6	.8	.6	175	9.1	97	94	64	0	0	6	2	
BARROW	36	31	43	28	34	4	.4	.2	.2	.3	378	3.3	110	87	72	0	5	5	0	
FAIRBANKS	60	49	62	40	54	4	1.1	.8	.4	.6	371	7.4	97	93	66	0	0	7	0	
JUNEAU	60	49	64	43	54	4	.7	-.7	-1.3	.3	34	31.9	102	99	81	0	0	4	0	
KODIAK	62	52	68	46	57	3	.5	-.9	-.2	.2	28	46.4	112	96	64	0	0	4	0	
NOME	54	39	62	28	46	-1	-.6	-.1	-.5	.6	153	9.7	101	95	60	0	2	2	0	
AZ PHOENIX	99	78	106	72	89	0	.1	-.2	-1.1	.0	0	9.2	198	65	29	7	0	2	0	
PRESCOTT	85	58	91	54	71	3	.3	-.4	-.2	.2	0	13.5	99	78	32	3	0	2	0	
TUCSON	94	70	103	67	82	-1	-.2	-.3	-1.1	.0	0	12.6	161	78	36	5	0	2	0	
YUMA	102	81	111	77	92	1	.6	-.4	-.6	.0	0	3.5	178	64	31	7	0	1	1	
AR FORT SMITH	91	70	98	60	81	3	1.0	.3	.5	.6	141	30.1	110	90	49	4	0	4	0	
LITTLE ROCK	91	72	97	64	81	3	.8	-.1	-.6	.6	T	29.8	93	85	48	4	0	2	1	
CA BAKERSFIELD	98	68	104	61	83	3	.0	.0	.0	.0	0	6.6	167	41	24	7	0	0	0	
EUREKA	62	52	68	50	57	-1	-.1	.0	.0	.0	0	30.3	140	92	61	0	0	0	0	
FRESNO	97	65	101	57	81	3	.0	.0	.0	.0	0	11.5	164	65	23	7	0	0	0	
LOS ANGELES	77	64	84	63	71	0	.0	.0	.0	.0	0	18.5	232	91	64	0	0	0	0	
REDDING	97	61	101	56	79	0	.0	-.1	.0	.0	0	36.3	186	67	17	7	0	0	0	
SACRAMENTO	92	59	99	56	76	0	.0	.0	.0	.0	0	19.1	176	84	27	7	0	0	0	
SAN DIEGO	75	67	77	66	71	-1	-.1	.0	.0	.0	0	15.5	245	86	69	0	0	0	0	
SAN FRANCISCO	73	58	79	55	66	-1	-.1	.0	.0	.0	T	19.4	158	85	45	0	0	0	0	
CO DENVER	79	50	87	46	65	-3	-.3	-.1	-.1	.1	78	8.6	73	77	28	0	0	2	0	
GRAND JUNCTION	84	56	91	52	70	-3	-.3	-.2	-.2	.1	8	9.0	136	64	25	0	0	0	0	
PUEBLO	80	47	88	41	64	-4	-.4	-.2	-.2	.1	61	12.4	137	92	29	1	0	1	0	
CT BRIDGEPORT	83	71	91	69	77	-7	-.7	-.5	-.2	.2	T	44	20.8	73	85	61	1	1	0	0
HARTFORD	85	65	94	62	75	-7	-.7	-.5	-.8	1.4	274	29.6	101	89	51	1	0	2	2	
DC WASHINGTON	93	75	96	72	84	8	1.4	1.5	.8	1.4	38	26.1	98	92	58	6	0	6	3	
FL PALM BEACH	86	76	89	74	81	4	4.7	2.9	2.3	1.1	111	35.8	93	82	60	0	0	6	0	
DAYTONA BEACH	89	71	92	69	80	0	-.1	-.1	-.3	.3	0	23.8	72	98	64	2	2	1	1	
JACKSONVILLE	90	74	93	71	82	-1	-.3	-.3	-.3	.3	27	26.3	87	87	64	0	0	3	0	
KEY WEST	89	78	92	76	83	-1	-.9	-.5	-.5	.2	23	22.0	87	85	66	3	0	3	0	
MIAMI	89	76	91	74	82	0	1.3	-.5	1.1	1.2	115	35.8	91	88	63	4	0	3	1	
ORLANDO	89	73	91	71	81	-1	2.9	1.3	1.8	.9	95	34.5	95	96	64	4	0	5	2	
TALLAHASSEE	89	74	92	72	81	1	.7	-.9	.3	.6	62	40.9	83	91	62	3	0	4	0	
TAMPA	89	74	93	73	82	0	1.8	.1	.9	.4	43	25.6	78	93	67	4	0	4	1	
WEST PALM BEACH	89	76	91	72	82	0	-.2	-1.3	-.2	.4	0	38.9	99	91	65	5	0	2	0	
GA ATLANTA	93	74	95	72	83	7	1.0	-.2	-.5	1.0	215	34.8	95	84	46	6	0	3	1	
AUGUSTA	97	71	100	68	84	6	T	-.9	T	T	0	26.3	79	96	45	7	0	0	0	
MACON	93	71	96	67	82	4	T	-.7	T	T	2	36.0	109	92	48	6	0	1	0	
SAVANNAH	92	74	95	71	83	4	.3	-1.2	.3	.3	35	31.5	83	91	56	7	0	3	0	
HI HILO	83	69	85	65	76	0	1.1	-.9	1.1	1.1	91	70.9	83	86	63	0	0	3	1	
HONOLULU	88	71	90	69	80	-2	.6	-.5	-.6	.6	917	4.0	32	82	53	1	0	2	1	
KARULUI	88	70	89	66	79	-1	.1	.0	.1	.0	0	7.5	55	74	52	0	0	1	0	
LIRUE	85	74	86	71	80	0	.4	-.1	-.3	.3	125	10.5	41	79	59	0	0	2	0	
ID BOISE	84	52	91	46	68	0	.0	-.2	.0	.0	0	10.9	139	70	20	2	0	0	0	
LEWISTON	85	53	92	45	69	-1	.0	-.2	.0	.0	0	10.8	127	65	20	2	0	0	0	
POCATELLO	80	41	86	32	60	-4	T	-.2	T	T	27	15.5	188	80	22	0	1	1	0	
IL CHICAGO	77	59	90	53	68	-1	2.0	1.0	.8	.4	63	36.1	146	97	52	1	0	5	2	
MOLINE	81	60	89	53	71	1	2.3	1.3	1.7	.5	82	44.2	158	96	57	0	0	4	1	
PRORIA	80	61	90	53	71	0	3.1	2.3	2.7	2.7	533	43.4	173	97	56	2	0	3	1	
QUINCY	80	62	89	55	71	0	3.2	2.2	2.3	2.3	375	27.7	103	92	58	0	0	3	2	
ROCKFORD	77	57	88	49	67	0	1.0	.1	.5	T	6	35.0	137	97	60	0	0	4	1	
SPRINGFIELD	81	62	93	54	72	1	1.6	.9	1.3	1.3	287	35.8	146	92	53	2	0	4	1	
IN EVANSVILLE	89	68	97	61	78	4	2.5	1.8	1.1	1.8	419	29.0	90	95	51	4	0	4	3	
FORT WAYNE	82	62	94	52	72	3	1.4	.7	.6	1.2	297	31.7	130	95	58	2	0	4	2	
INDIANAPOLIS	83	65	91	54	74	3	2.6	1.9	1.4	2.6	610	35.0	124	95	56	2	0	3	2	
SOUTH BEND	76	58	89	51	67	-1	3.9	3.1	2.5	2.5	506	33.4	127	97	52	0	0	5	2	
IA DES MOINES	76	58	81	51	67	-1	3.5	2.6	3.2	.1	15	46.6	188	93	54	0	0	3	1	
SIOUX CITY	76	55	80	48	65	-3	4.0	3.3	3.6	T	0	27.7	142	94	48	0	0	2	1	
WATERLOO	77	56	80	48	66	0	3.0	2.2	2.9	T	0	46.7	187	97	63	0	0	2	1	
KS CONCORDIA	80	57	90	52	68	-4	.6	-.2	.6	T	0	38.8	175	90	48	1	0	1	1	
DODGE CITY	83	54	95	47	68	-6	-.1	-.4	-.1	T	0	23.0	134	92	42	2	0	1	0	
GOODLAND	76	49	85	42	63	-7	.4	.1	.4	.1	22	17.1	116	92	46	0	0	3	0	
TOPEKA	82	60	93	52	71	-2	.3	-.6	-.2	.2	40	37.1	145	93	51	1	0	2	0	
WICHITA	86	62	98	54	74	-1	.7	-.2	.7	.7	140	28.3	113	85	41	2	0	1	1	
KY BOWLING GREEN	91	69	99	62	80	6	1.1	.2	.4	1.1	212	23.6	67	93	54	4	0	3	0	
LEXINGTON	88	68	94	59	78	6	1.6	.8	1.5	1.6	332	31.2	98	93	57	3	0	2	1	
LOUISVILLE	89	70	97	63	79	6	1.5	.7	.5	1.0	234	34.7	110	96	60	3	0	4	1	
LA BATON ROUGE	91	72	93	71	82	1	.3	-1.0	.1	T	3	47.0	108	96	57	5	0	4	0	
LAKE CHARLES	94	74	97	71	84	4	T	-1.3	T	T	0	44.9	122	93	50	7	0	1	0	
NEW ORLEANS	91	74	95	73	83	2	-.1	-1.3	.1	T	0	41.3	94	96	66	6	0	1	0	
SHEREVEPORT	95	71	100	65	83	3	-.1	-.6	.1	.1	11	43.0	129	89	47	6	0	2	0	

Based on 1961-90 normals.

Weather Data for the Week Ending September 4, 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 Sept 1	PCT. NORMAL SINCE Sept 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM		AVERAGE MINIMUM	90 AND ABOVE	92 AND BELOW	TEMP. °F		PRECIP.
															.01 INCH OR MORE				.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
ME CARIBOU	69	49	73	39	59	1	1.2	.4	.9	.9	188	24.5	103	88	54	0	0	4	1		
PORTLAND	77	57	82	51	67	3	.2	.5	.2	.2	56	26.8	96	89	47	0	0	3	0		
MD BALTIMORE	92	71	95	68	81	8	.2	.7	.2	.2	31	28.0	99	83	46	6	0	1	0		
SALISBURY	89	72	92	66	81	8	.7	.0	.7	.7	7	33.7	105	97	63	3	0	1	0		
MA BOSTON	81	66	93	62	74	5	.7	.0	.7	.7	176	26.2	96	84	57	1	0	2	1		
CHATHAM	75	62	78	60	68	3	.7	.8	.7	.7	2	23.1	79	96	51	0	0	1	0		
MI ALPENA	74	49	80	41	61	0	1.7	.9	.8	.1	20	19.5	99	100	58	0	0	4	2		
DETROIT	78	61	92	54	70	2	2.0	1.2	.9	1.3	305	23.0	102	91	55	1	0	4	1		
FLINT	73	55	86	49	64	-2	1.1	.3	.5	.3	61	22.7	112	96	51	0	0	5	0		
GRAND RAPIDS	74	56	87	49	65	-1	3.0	2.0	1.2	1.1	191	31.5	134	97	53	0	0	5	3		
HOUGHTON LAKE	73	53	81	42	63	1	1.5	.6	1.2	.1	12	20.5	108	96	47	0	0	3	1		
LANSING	75	54	88	45	64	-1	1.2	.3	.4	.4	72	26.0	125	100	69	0	0	5	0		
MARQUETTE	69	49	77	40	59	0	.3	-.6	.2	-.1	21	21.3	94	92	48	0	0	3	0		
MUSKEGON	76	56	87	49	66	0	4.0	3.1	3.5	.2	37	27.0	133	98	56	0	0	5	1		
SAULT ST. MARIE	70	46	75	40	58	-1	.5	-.3	.2	-.3	50	20.3	94	99	46	0	0	4	0		
MN ALEXANDRIA	71	52	76	45	61	-3	.1	-.7	.1	-.1	18	22.4	117	92	54	0	0	1	0		
DULUTH	68	49	75	43	59	0	.6	-.3	.6	.7	7	26.2	124	90	48	0	0	3	1		
INT'L FALLS	68	48	73	40	58	-1	1.1	.4	.5	-.3	64	17.8	100	92	55	0	0	5	1		
MINNEAPOLIS	73	55	77	49	64	-2	.8	.0	.7	.7	7	27.4	129	88	48	0	0	2	1		
ROCHESTER	72	52	76	46	62	-3	1.0	.1	1.0	.0	0	33.1	152	96	47	0	0	1	1		
MS GREENWOOD	95	72	99	65	83	4	.1	-.6	.0	.0	0	30.0	81	97	50	6	0	2	0		
JACKSON	92	72	96	68	82	4	.7	.0	.3	.6	141	34.3	90	99	49	6	0	4	0		
MERIDIAN	93	72	97	71	83	4	.7	-.1	.6	.6	127	39.3	98	95	54	5	0	3	1		
MO CAPE GIRARDEAU	87	68	94	60	78	3	2.8	1.9	1.7	2.5	504	33.4	105	95	57	3	0	3	2		
COLUMBIA	82	62	92	55	72	0	3.2	2.4	2.7	2.7	532	45.4	174	98	56	2	0	4	2		
KANSAS CITY	83	61	93	55	72	0	.6	-.5	.3	.3	44	39.2	147	93	49	1	0	3	0		
SAINT LOUIS	84	69	94	62	76	2	1.8	1.1	1.6	1.8	439	38.5	149	87	55	2	0	2	1		
SPRINGFIELD	84	64	94	55	74	1	2.4	1.3	2.2	2.4	362	33.7	115	91	52	3	0	4	1		
MT BILLINGS	73	48	82	40	60	-5	.1	-.2	.1	.1	53	11.5	103	74	33	0	0	2	0		
GLASGOW	67	48	80	43	58	-6	.9	.6	.4	.5	300	15.0	169	91	49	0	0	3	0		
GREAT FALLS	66	43	77	35	54	-8	1.3	1.0	.9	.4	205	19.4	164	89	50	0	0	3	1		
HAVRE	68	47	79	43	57	-5	.3	.0	.1	.2	118	12.6	145	92	47	0	0	3	0		
HELENA	70	43	79	34	56	-6	.5	.2	.4	.4	235	16.7	187	93	46	0	0	2	0		
KALISPELL	71	41	78	35	56	-3	.2	-.1	.1	.2	105	18.2	158	97	45	0	0	3	0		
MILES CITY	72	49	85	45	61	-6	.1	-.2	.1	.1	12	17.1	157	88	39	0	0	2	0		
MISSOULA	76	41	84	34	58	-3	.2	-.1	.1	.1	69	11.0	112	91	29	0	0	2	0		
NE GRAND ISLAND	78	52	87	45	65	-4	.6	-.1	.4	.0	0	28.8	148	93	46	0	0	2	0		
LINCOLN	78	55	89	51	67	-4	.1	-.7	.1	.1	18	19.8	94	98	54	0	0	2	0		
NORFOLK	77	54	82	48	65	-3	1.5	1.0	1.5	.7	6	28.5	145	91	46	0	0	3	1		
NORTH PLATTE	77	47	84	38	62	-5	.1	-.3	.1	.1	9	22.4	142	93	43	0	0	2	0		
OMAHA	76	56	83	51	66	-3	3.2	2.3	1.7	.1	16	35.7	166	91	48	0	0	3	2		
SCOTTSBLUFF	80	45	88	38	63	-4	.7	-.2	.7	.7	0	17.6	143	86	25	0	0	0	0		
VALENTINE	80	45	90	36	62	-6	.4	-.2	.4	.4	103	16.7	94	84	31	1	0	2	0		
NV ELY	81	41	87	37	61	0	.2	-.1	.1	.1	8	8.0	114	76	18	0	0	2	0		
LAS VEGAS	100	75	105	71	87	2	.7	-.1	.7	.0	0	4.6	163	46	21	7	0	0	0	0	
RENO	88	53	93	49	71	5	.0	-.1	.0	.0	0	4.9	98	70	20	1	0	0	0	0	
WINNEMUCCA	88	46	95	41	67	2	.0	-.1	.0	.0	0	6.2	113	69	14	3	0	0	0	0	
NH CONCORD	81	58	89	54	70	6	.2	-.5	.1	.2	56	17.2	72	92	44	0	0	3	0		
NJ ATLANTIC CITY	86	69	92	62	77	7	.4	-.4	.3	.4	87	27.3	97	98	64	2	0	2	0		
NM ALBUQUERQUE	84	59	89	57	71	-2	1.0	.7	.9	.0	0	6.7	108	76	34	0	0	2	1		
CLOVIS	83	56	91	52	70	-2	.0	-.6	.0	.0	0	11.9	90	77	31	3	0	0	0	0	
ROSWELL	88	60	98	57	74	-2	.2	-.4	.2	.0	0	8.4	94	80	31	4	0	1	0	0	
NY ALBANY	82	63	88	54	73	6	.9	.1	.4	.6	142	28.4	115	88	51	0	0	4	0		
BINGHAMTON	78	60	87	56	69	5	1.3	.5	.4	1.0	209	29.1	117	91	52	0	0	5	0		
BUFFALO	81	61	89	58	71	5	1.0	-.1	.5	.6	121	24.9	100	89	53	0	0	5	0		
NEW YORK	85	73	95	70	79	6	.2	-.7	.1	.2	35	28.3	97	86	59	1	0	2	0	0	
ROCHESTER	82	60	91	55	71	6	1.6	.8	.7	1.3	291	18.0	84	91	55	1	0	3	2		
SYRACUSE	82	59	92	52	70	5	1.0	-.1	.5	.7	138	31.1	122	93	48	1	0	5	0		
NC ASHEVILLE	85	65	89	62	75	5	.9	-.3	.8	.9	136	29.2	75	97	56	0	0	2	1		
CHARLOTTE	94	73	96	72	84	7	.2	-.6	.2	.2	45	26.8	89	84	44	6	0	2	0	0	
GREENSBORO	92	71	95	69	81	8	.5	-.3	.3	.5	106	32.9	111	89	55	6	0	2	0	0	
HATTERAS	89	77	92	71	83	6	7.5	6.2	7.5	.0	0	36.5	98	88	67	3	0	1	0	0	
NEW BERN	95	72	98	71	84	7	.0	-.4	.0	.0	0	33.1	83	93	48	6	0	1	0	1	
RALEIGH	95	71	97	69	83	8	1.5	.6	1.5	1.5	313	26.7	90	90	46	7	0	0	1	0	
WILMINGTON	93	74	96	72	84	7	.1	-.6	.1	.1	5	40.2	99	93	51	7	0	1	0	0	
ND BISMARCK	70	44	83	39	57	-6	.2	-.2	.2	.2	14	24.9	202	91	51	0	0	3	0	0	
FARGO	75	49	82	43	62	-2	.2	-.3	.2	.2	4	18.4	125	90	43	0	0	3	0	0	
GRAND FORKS	69	50	79	43	60	-2	2.7	2.2	2.4	.3	100	19.3	140	93	48	0	0	2	1	0	
WILLISTON	67	48	79	42	57	-5	.5	-.2	.5	.5	17	17.3	162	89	52	0	0	3	0	0	
OH AKRON-CANTON	86	62	95	58	74	6	2.2	1.4	1.4	2.0	428	26.3	102	90	50	3	0	4	2	2	
CINCINNATI	85	66	92	58	76	4	1.4	.7	.7	1.3	328	27.9	95	96	58	3	0	4	1	1	
CLEVELAND	84	64	94	58	74	6	2.0	1.1	1.8	1.9	394	26.8	108	86	55	2	0	4	2	1	
COLUMBUS	88	67	95	58	77	9	.8	.0	.6	.8	167	27.2	103	91	51	4	0	4	1	1	
DAYTON	84	65	93	57	74	5	2.5	1.8	1.6	1.9	500	37.4	144	93	56	3	0	3	2	2	

Based on 1961-90 normals.

Weather Data for the Week Ending September 4, 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 Sept 1	PCT. NORMAL SINCE Sept 1	TOTAL, IN., SINCE Jan 1		PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	TEMP. °F		PRECIP.
													90 AND ABOVE					32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
TOLEDO	81	60	95	53	71	4	2.5	1.8	1.7	2.0	467	21.9	96	97	53	1	0	5	1	
YOUNGSTOWN	84	58	94	52	71	5	2.7	1.9	1.4	1.7	364	24.7	96	92	51	2	0	3	2	
OK OKLAHOMA CITY	86	63	96	56	74	-4	1.3	.5	.6	.6	128	27.1	116	96	53	3	0	4	2	
TULSA	87	66	98	56	77	-1	2.0	1.1	1.0	1.0	171	28.6	104	93	49	3	0	3	2	
OR ASTORIA	67	52	83	46	60	0	T	-4	T	T	4	34.3	91	96	58	0	0	1	0	
BURNS	81	39	88	32	60	0	.0	-2	.0	.0	0	8.0	126	67	17	0	1	0	0	
MEDFORD	94	50	96	45	72	2	.0	-2	.0	.0	0	12.9	128	82	17	0	0	0	0	
PENDLETON	85	54	93	46	69	1	.0	-1	.0	.0	0	11.8	157	71	22	2	0	0	0	
PORTLAND	84	54	88	50	69	2	.0	-3	.0	.0	0	22.3	108	94	33	0	0	0	0	
SALEM	86	48	90	45	67	2	.0	-3	.0	.0	0	25.4	117	92	28	2	0	0	0	
PA ALLENTOWN	85	68	92	62	76	7	1.3	.4	.7	1.3	235	33.4	112	89	60	1	0	2	2	
ERIE	80	64	89	60	72	4	1.2	.2	.8	1.0	171	23.2	88	88	58	0	0	5	1	
HARRISBURG	88	71	93	66	80	8	2.0	1.2	1.5	2.0	441	31.1	112	88	51	4	0	3	1	
PHILADELPHIA	90	73	95	70	81	11	T	-9	T	T	7	27.0	86	88	50	5	0	1	0	
PITTSBURGH	87	65	95	59	76	8	1.6	.9	1.4	1.4	330	26.6	102	87	50	4	0	4	1	
SCRANTON	82	65	88	59	74	7	2.9	2.1	1.3	2.5	541	25.1	100	92	54	0	0	4	2	
RI PROVIDENCE	84	66	91	63	75	7	.1	-7	.1	.1	19	25.6	85	93	52	1	0	2	0	
SC CHARLESTON	93	75	94	73	84	5	T	-1.4	T	T	5	38.8	100	93	55	7	0	1	0	
COLUMBIA	97	73	101	69	85	7	T	-1.1	T	T	0	26.5	71	92	41	7	0	0	0	
FLORENCE	98	73	100	72	86	8	.1	-9	.1	.1	20	24.5	75	93	39	7	0	2	0	
GREENVILLE	91	69	96	67	80	5	.7	-2	.4	.7	133	29.5	82	95	56	5	0	4	1	
SD ABERDEEN	74	53	82	46	64	-1	1.7	1.1	1.2	1.1	42	24.3	145	92	47	0	0	4	1	
HURON	75	52	82	44	64	-3	.1	-3	.1	T	8	25.2	158	94	48	0	0	2	0	
RAPID CITY	77	47	87	41	62	-4	T	-3	T	T	0	16.3	121	85	35	0	0	0	0	
SIoux FALLS	74	54	81	48	64	-2	.1	-7	.1	T	0	31.8	180	94	48	0	0	1	0	
TN CHATTANOOGA	95	71	99	67	83	7	T	-9	T	T	5	28.0	76	92	51	6	0	1	0	
KNOXVILLE	90	69	95	65	80	6	.5	-2	.5	.5	127	28.2	85	97	55	4	0	2	0	
MEMPHIS	92	73	96	66	83	4	.2	-6	.1	.2	35	28.8	82	93	56	5	0	3	0	
NASHVILLE	93	71	97	67	82	6	.3	-6	.2	.3	53	30.1	91	88	50	4	0	2	0	
TX ABILENE	86	66	95	57	76	-4	.9	-2	.4	T	9	11.9	72	85	44	4	0	3	0	
AMARILLO	83	55	92	50	69	-4	T	-6	T	T	0	15.3	99	86	39	1	0	1	0	
AUSTIN	96	74	99	71	85	2	.8	.1	.8	T	0	21.6	102	85	42	6	0	1	1	
BEAUMONT	95	73	97	70	84	3	T	-1.4	T	.0	0	51.5	136	95	52	7	0	1	0	
BROWNSVILLE	95	76	97	73	85	2	T	-1.1	T	.0	0	17.1	108	92	50	7	0	1	0	
CORPUS CHRISTI	94	75	98	72	84	1	T	-1.1	T	.0	1	29.1	149	96	53	7	0	1	0	
DEL RIO	91	72	97	69	82	0	2.6	1.9	2.5	.1	31	12.8	75	80	42	5	0	2	1	
EL PASO	88	65	94	61	77	-1	1.1	.7	.6	.0	0	7.0	123	82	39	4	0	3	1	
FORT WORTH	94	72	99	63	83	3	.2	-7	.2	.2	28	20.4	83	83	38	6	0	1	0	
GALVESTON	91	79	93	76	85	3	1.7	-4	1.7	1.7	210	32.3	118	78	60	6	0	1	1	
HOUSTON	95	73	98	69	84	3	.1	-1.0	.1	.0	0	45.6	132	91	44	7	0	1	0	
LUBBOCK	85	60	95	54	72	-3	.2	-5	.1	T	0	11.4	86	82	37	2	0	3	0	
MIDLAND	83	62	92	59	73	-5	2.9	2.3	1.6	.7	162	13.5	137	92	46	2	0	4	3	
SAN ANGELO	87	66	95	60	77	-3	2.2	1.5	2.1	T	10	11.8	90	90	50	4	0	3	1	
SAN ANTONIO	96	75	98	71	85	3	T	-7	T	T	2	27.3	132	85	40	7	0	2	0	
VICTORIA	95	74	98	73	85	3	.5	-7	.3	.5	58	42.4	147	96	49	7	0	3	0	
WACO	94	70	98	57	82	0	.0	-6	.0	.0	0	19.3	91	89	37	6	0	0	0	
WICHITA FALLS	88	65	97	56	77	-3	.6	-3	.4	T	6	20.9	96	91	45	4	0	3	0	
UT CEDAR CITY	85	54	91	50	70	-1	.1	-2	.1	.1	38	8.0	100	58	21	1	0	2	0	
VT BURLINGTON	84	55	91	46	70	0	.0	-2	.0	.0	0	14.5	132	65	23	1	0	0	0	
VA RICHMOND	80	58	88	51	69	5	1.8	1.0	.9	1.0	196	23.7	102	92	50	0	0	3	2	
VA NORFOLK	92	75	97	71	83	8	2.5	1.5	2.1	2.5	437	26.7	83	88	58	5	0	3	1	
RICHMOND	93	72	99	69	83	9	.3	-5	.2	.3	65	30.3	100	92	54	5	0	2	0	
ROANOKE	91	68	96	65	80	8	1.5	.6	.9	1.5	308	26.6	94	92	52	5	0	3	1	
WA QUILLAYUTE	92	51	84	43	62	3	T	-7	T	T	0	44.7	74	96	44	0	0	0	0	
SEATTLE-TACOMA	78	54	84	49	66	-2	.0	-3	.0	.0	0	20.6	100	93	40	0	0	0	0	
SPOKANE	79	48	87	41	64	-1	.0	-2	.0	.0	0	10.5	101	83	27	0	0	0	0	
YAKIMA	86	46	92	40	66	0	.0	-1	.0	.0	0	4.6	97	86	26	2	0	0	0	
WV BECKLEY	85	65	89	58	75	9	.9	-2	.7	.9	204	26.7	82	89	52	0	0	3	1	
CHARLESTON	91	67	98	60	79	7	1.1	.3	1.0	1.1	238	26.1	87	93	44	4	0	2	1	
HUNTINGTON	89	68	97	60	79	9	1.1	.3	.8	1.1	231	28.5	93	92	50	3	0	3	1	
PARKERSBURG	87	67	94	60	77	6	1.9	1.1	.7	1.2	282	28.0	94	100	58	4	0	5	2	
WI GREEN BAY	75	53	81	45	64	1	.6	-3	.3	.3	62	27.1	136	97	47	0	0	3	0	
LACROSSE	75	56	79	50	65	-1	1.7	.7	1.4	.0	0	36.7	166	96	54	0	0	2	1	
MADISON	77	55	86	46	66	1	.6	-3	.4	T	0	36.8	162	93	55	0	0	2	0	
MILWAUKEE	77	62	89	55	70	3	2.5	1.7	1.9	T	0	29.9	131	86	59	0	0	3	2	
WAUSAU	73	52	80	44	63	0	1.0	.0	.8	.2	30	27.8	121	91	51	0	0	1	0	
WY CASPER	78	44	88	37	61	-2	.1	-1	.1	.1	82	12.3	133	75	21	0	0	2	1	
CHEYENNE	74	44	83	39	59	-3	.2	-1	.1	.1	70	12.5	108	78	26	0	0	4	0	
LANDER	75	46	85	40	60	-4	T	-2	T	T	0	12.8	134	58	20	0	0	0	0	
SHERIDAN	71	44	82	33	58	-6	T	-2	T	T	19	13.9	132	88	32	0	0	2	0	

Based on 1961-90 normals.

August Weather and Crop Summary

Weather

August opened as though the prolonged wet spell in the Midwest and the "year without a summer" in the Northwest might end. Temperatures briefly soared to record levels in the West, while rivers receded under mostly sunny skies in the middle Mississippi Valley. Rain dampened the parched Southeast. But by August 10, a strengthening trough in the Northwest pushed the hot air eastward, where it re-established residence over the Southeastern States.

The first day of the month featured record August heat in the San Francisco Bay area at stations such as Moffett Naval Air Station (101°F) and the San Francisco Airport (100°F). Inland, temperatures soared above 110°F in the northern Sacramento Valley. Even eastern Washington State reported temperatures as high as 100°F. Meanwhile, the Mississippi River crested at St. Louis, MO on August 1 at 19.4 feet above the 32-foot flood stage. Within a week, the crest passed Cape Girardeau, MO (16 feet above flood stage on August 8), and headed for the Mississippi-Ohio confluence near Cairo, IL. South of Cairo, the floodwaters mixed with the sub-normal flow of the Ohio River and spilled into the broader, deeper lower Mississippi Valley, causing few additional flooding problems.

By mid-month, hot weather spread eastward across the South-Central States. Temperatures of 101°F in Houston, TX and 99°F in Port Arthur, TX were the highest readings of the year. In addition to the heat, severe dryness continued to plague southern Texas. Periods of dryness reached 60 days in Corpus Christi and 63 days in San Antonio before rain finally fell late in the month. Hot, dry conditions arrived in the eastern third of the Nation during the final half of August. Pittsburgh, PA notched its hottest day in more than 5 years with a 98-degree reading on August 26. Hot, dry weather also arrived in the eastern Corn Belt, which heretofore had enjoyed a favorable growing season.

Drier-than-normal weather continued to affect much of the Southeast during August. Rainfall failed to top the 1-inch mark for the third consecutive month in Greenville-Spartanburg, SC. But farther west, summer rainfall totals mounted in the Nation's mid-section. Columbia, MO recorded more than 8 inches during the month en route to its wettest summer on record (25.81 inches). Similarly, Des Moines, IA received 11.63 inches during August, culminating a record summer total of 29.06 inches.

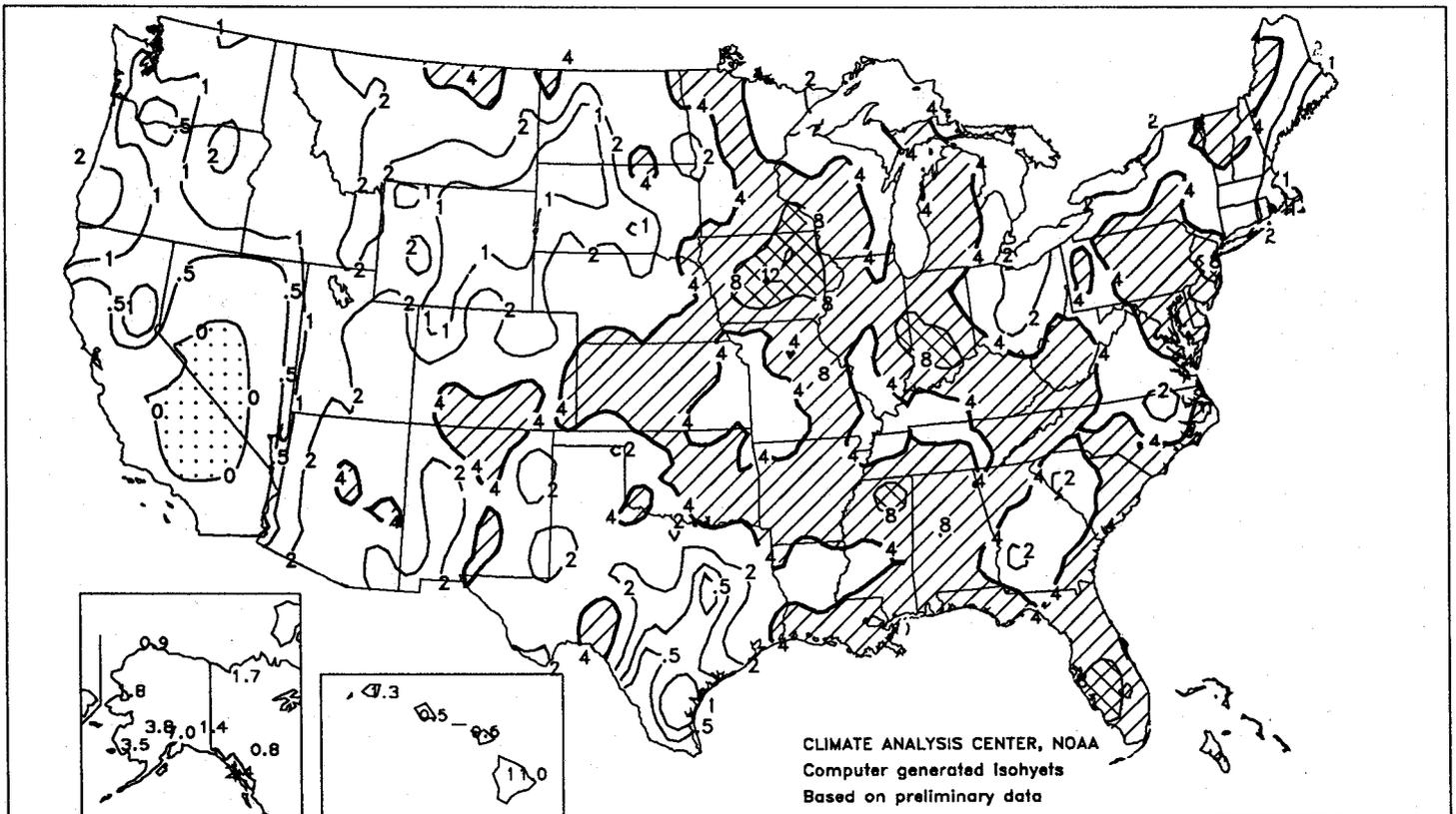
Late in the month, an autumnal cold front swept through the Northwest and into the Central States. On August 31, Pocatello, ID noted 32°F. The cold front was strong enough to keep Hurricane Emily from making landfall in the Middle Atlantic region. Emily curved northward along the Outer Banks of North Carolina on the final day of August, lashing beachfront areas with 100 mile per hour wind gusts and as much as 7.50 inches of rain.

Fieldwork

Early- to mid-August weather was cool and damp over the Northwest and Midwest, hot and dry over the South and East, and cool and dry over the West. Periodic rains fell across the central parts of the Nation throughout the month, while scattered showers occurred elsewhere. The above-normal temperatures spread slowly northward. By the end of the month, more rain fell across the central parts of the Nation, while the Southeast, West, and South were dry, and above-normal temperatures occurred over many parts of the Nation. The winter wheat harvest was well along at the beginning of the month. However, the cool, wet conditions hindered wheat maturity in the Northwest and slowed harvest advances in the central Great Plains. Harvest was virtually completed in all areas except the Northwest by the end of the month. Spring wheat harvest was active in early August. The cool, wet conditions delayed crop maturity, promoted plant diseases, and hindered harvest. Harvest progress at the end of August was about 1 week behind last year, and over 3 weeks behind average. Progress of the corn crop in early August was between 1 to 2 weeks behind average. Dry weather in the Southeast hurt crop prospects. Conditions in the eastern Corn Belt also turned hot and dry, stressing the crop. Below-normal temperatures in the central and western Corn Belt, in early August, gave way to above-normal temperatures at the end of the month, which reduced crop stress. By the end of August, corn progress nationally remained 1 to 2 weeks behind average, although condition of the crop had improved slightly. Soybean progress, as measured by setting pods, was slightly more than a week behind normal in early August. Although drier, warmer conditions during the month improved crop condition, soybean progress still remained more than 1 week behind normal at the end of August. The hot conditions in July had the cotton crop in good condition and progress ahead of average at the beginning of August. Despite continued hot conditions and a lack of moisture over the major cotton-producing areas during August, the crop progress remained ahead of average, even though the crop condition declined. Sorghum crop progress in early August was less than a week behind average. Drier conditions and warmer weather allowed progress to remain less than a week behind average and improved the crop condition by the end of the month. Progress of the rice harvest at the beginning of August was less than a week behind average. Good conditions during the month allowed harvest to advance. Nearly 20% of the crop was harvested at the end of the month, and progress remained less than a week behind normal.

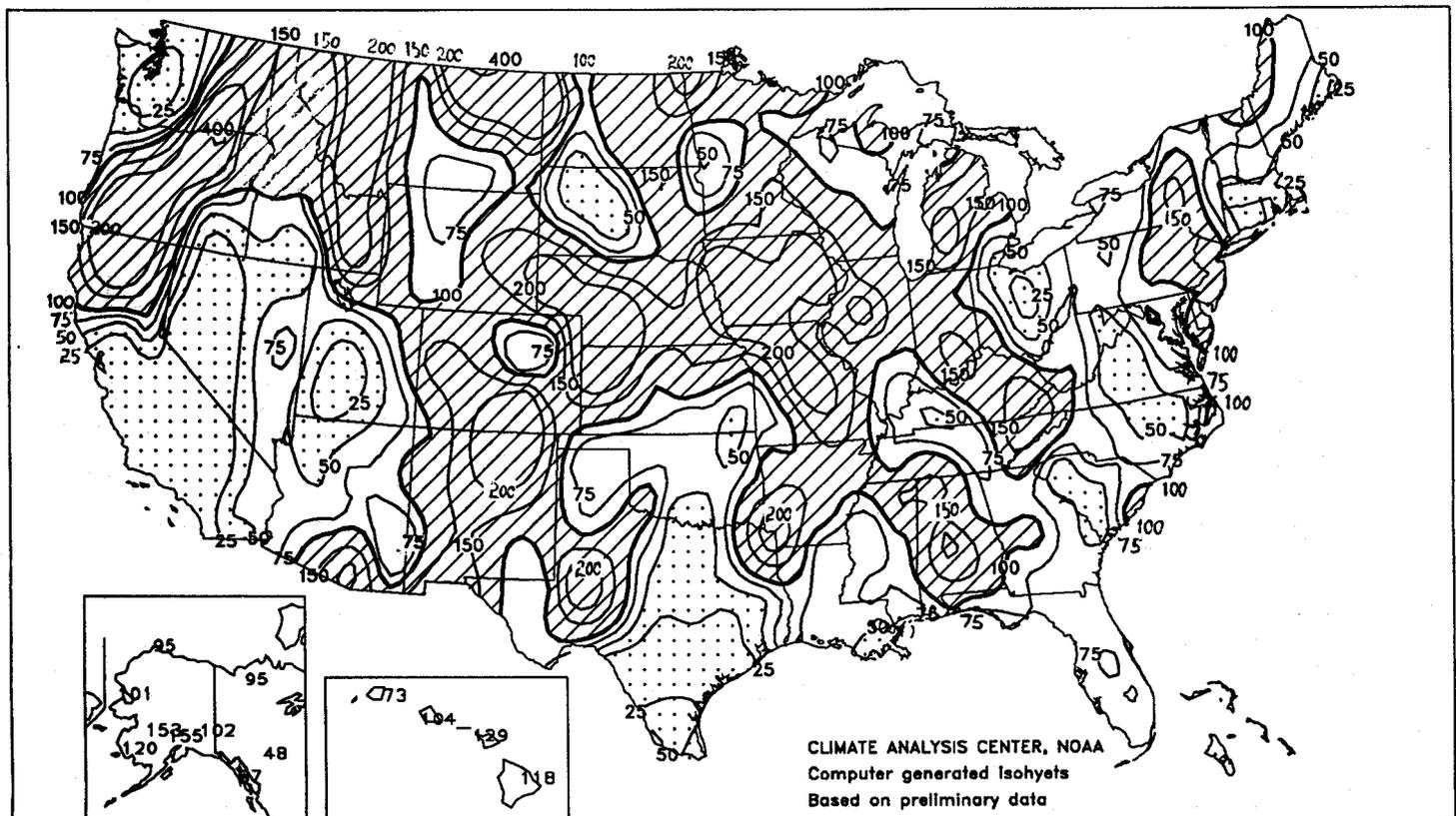
TOTAL PRECIPITATION (inches)

AUG 1993



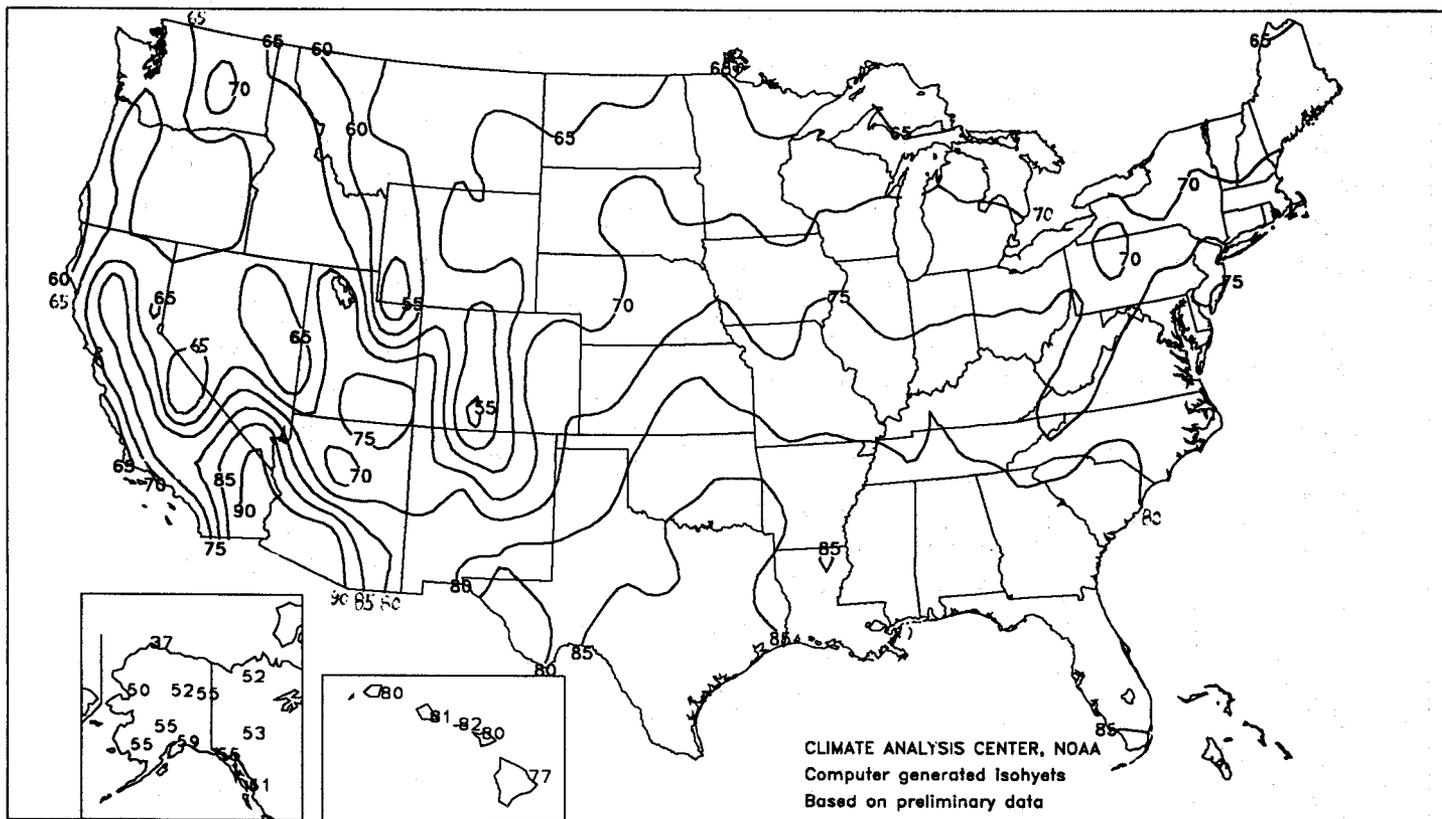
PERCENT OF NORMAL PRECIPITATION

AUG 1993



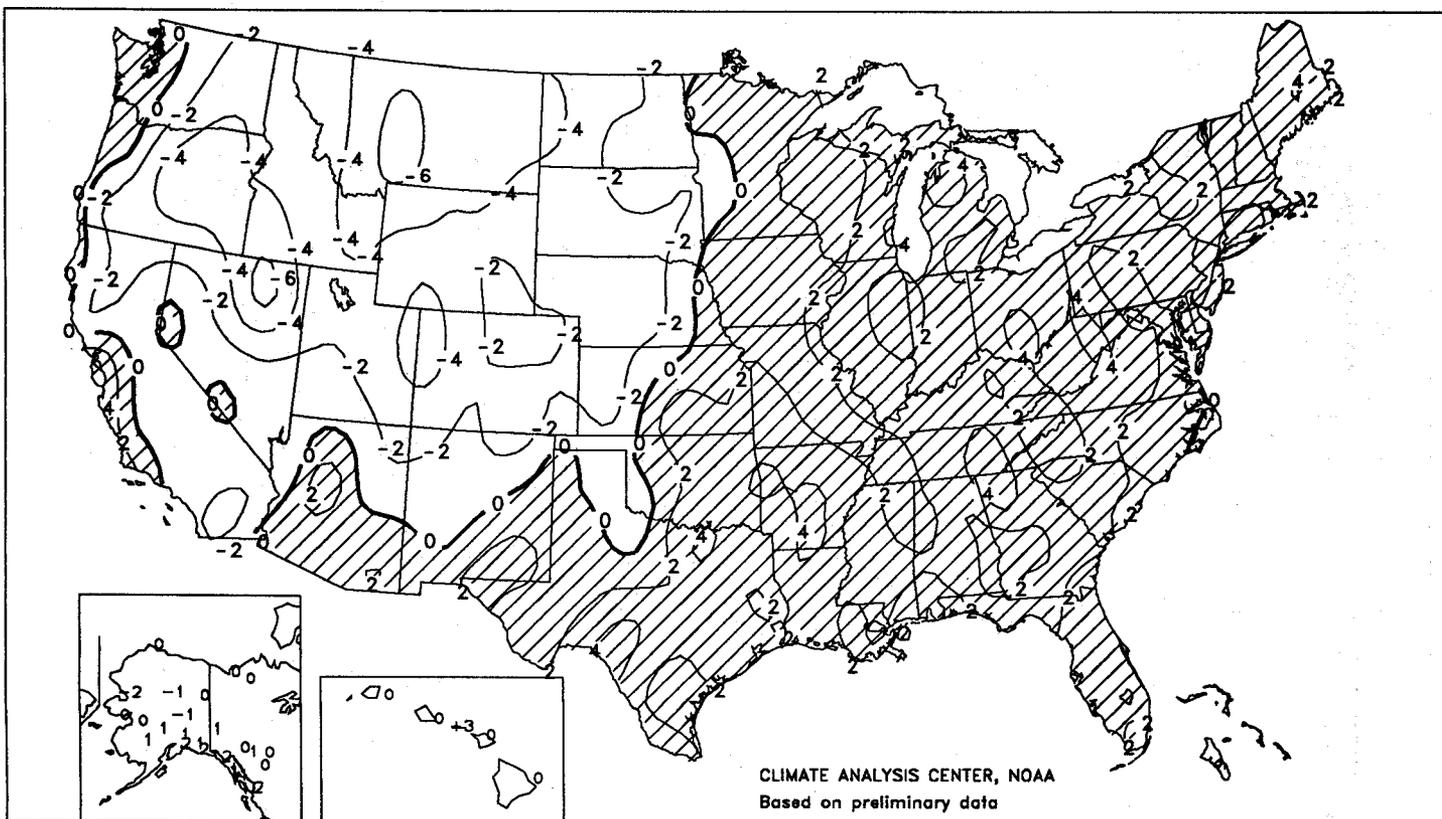
AVERAGE TEMPERATURE(°F)

AUG 1993



Departure of Average Temperature from Normal(°F)

AUG 1993



TEMPERATURE AND PRECIPITATION SUMMARY

August 1993

STATES AND STATIONS	Temp. °F		Precip.		STATES AND STATIONS	Temp. °F		Precip.		STATES AND STATIONS	Temp. °F		Precip.	
	AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE
AL BIRMINGHAM	81	2	2.7	-0.9	LA BATON ROUGE	83	1	4.2	-1.8	OK YOUNGSTOWN	71	2	1.8	-1.5
AL HUNTSVILLE	80	2	5.7	2.6	LA LAKE CHARLES	84	2	2.7	-2.6	OK OKLAHOMA CITY	82	2	1.9	-0.7
AL MOBILE	83	1	3.5	-3.4	LA NEW ORLEANS	84	2	2.3	-3.9	OK TULSA	83	2	2.3	-0.8
AZ MONTGOMERY	82	3	6.8	2.6	ME SHREVEPORT	85	3	4.1	1.7	OR ASTORIA	61	0	0.6	-0.8
AZ ANCHORAGE	59	3	4.0	1.6	ME CARIBOU	66	3	3.6	-0.5	OR BURNS	60	-4	0.4	-0.3
AZ BARROW	37	-1	1.0	0.0	ME PORTLAND	69	2	1.2	-1.7	OR MEDFORD	70	-2	1.2	0.7
AZ FAIRBANKS	56	0	1.6	-0.4	MD BALTIMORE	77	1	2.6	-1.4	OR PENDLETON	68	0	2.2	1.7
AZ JUNEAU	57	2	2.9	-2.4	MD SALLISBURY	76	1	7.3	2.0	OR PORTLAND	69	0	0.4	-0.7
AZ KODIAK	57	2	8.4	3.3	MA BOSTON	74	2	1.3	-1.9	OR SALEM	67	1	0.4	-0.4
AZ NOME	50	0	3.2	0.5	MA CHATHAM	68	1	0.3	-2.9	PA ALLENTOWN	74	2	5.4	1.1
AZ FLAGSTAFF	65	1	4.2	1.6	MI ALPENA	68	3	5.7	2.3	PA ERIE	73	3	2.8	-1.2
AZ PHOENIX	92	0	0.6	-0.4	MI DETROIT	74	4	1.6	-1.8	PA HARRISBURG	77	3	3.0	-0.4
AZ PRESCOTT	73	3	1.5	-1.9	MI FLINT	70	2	3.4	-0.1	PA PHILADELPHIA	79	3	5.2	1.4
AZ TUCSON	85	1	4.9	2.7	MI GRAND RAPIDS	71	2	7.7	4.2	PA PITTSBURGH	75	5	2.4	-0.8
AZ WINSLOW	74	-2	2.6	1.2	MI HOUGHTON LAKE	69	4	5.7	2.3	PA SCRANTON	73	3	3.8	0.5
AZ YUMA	92	0	0.2	-0.5	MI LANSING	71	2	3.8	0.3	PA WILLIAMSPORT	73	3	4.6	1.2
AR FORT SMITH	85	5	2.6	-0.4	MI MARQUETTE	65	3	4.0	0.6	RI PROVIDENCE	74	2	1.2	-2.4
AR LITTLE ROCK	84	3	3.7	0.8	MI MUSKEGON	72	3	6.4	3.0	SC CHARLESTON	82	1	7.7	0.5
CA BAKERSFIELD	81	-1	T	-0.1	MI SAULT ST. MARIE	65	2	1.9	-1.8	SC COLUMBIA	82	2	2.3	-3.8
CA BISHOP	73	-2	--	--	MN ALEXANDRIA	68	-1	2.2	-1.2	SC FLORENCE	82	3	3.9	-1.2
CA EUREKA	60	2	0.5	0.1	MN DULUTH	65	1	3.6	-0.4	SC GREENVILLE	79	2	0.9	-3.1
CA FRESNO	80	-1	0.0	0.0	MN INT'L FALLS	65	1	3.8	0.7	SD ABERDEEN	70	0	4.4	1.5
CA LOS ANGELES	69	-1	0.0	-0.2	MN MINNEAPOLIS	70	0	6.5	2.9	SD HURON	70	-2	2.4	0.4
CA REDDING	78	-1	1.0	0.5	MN ROCHESTER	68	0	6.9	3.0	SD RAPID CITY	69	-2	1.2	-0.5
CA SACRAMENTO	74	-1	0.0	-0.1	MN ST. CLOUD	67	0	5.5	1.2	SD SIOUX FALLS	71	0	3.1	0.2
CA SAN DIEGO	70	-2	T	-0.1	MS GREENWOOD	84	3	1.2	-1.4	TN BRISTOL	74	0	5.0	1.8
CA SAN FRANCISCO	67	4	T	0.0	MS JACKSON	83	2	2.5	-0.9	TN CHATTANOOGA	83	4	2.1	-1.4
CA STOCKTON	--	--	--	--	MS MERIDIAN	83	3	3.5	-0.1	TN KNOXVILLE	79	3	6.0	2.9
CO ALAMOSA	61	-1	5.4	4.4	MS TUPALO	81	1	6.1	3.1	TN MEMPHIS	84	3	3.7	0.3
CO CO. SPRINGS	67	-2	2.2	-0.4	MO CAPE GIRARDEAU	79	2	2.4	-1.1	TX NASHVILLE	81	3	1.8	-1.7
CO DENVER	70	-1	0.6	-0.9	MO COLUMBIA	77	2	8.4	5.2	TX ABILENE	84	1	1.8	-1.0
CO GRAND JUNCTION	73	-4	1.4	0.5	MO KANSAS CITY	78	2	4.0	0.0	TX AMARILLO	75	-2	4.5	1.3
CO PUEBLO	71	-3	3.7	1.7	MO SAINT LOUIS	80	3	4.8	1.9	TX AUSTIN	87	3	0.8	-1.3
CT BRIDGEPORT	75	2	1.6	-1.7	MO SPRINGFIELD	79	3	2.7	-1.5	TX BEAUMONT	85	2	6.2	0.8
CT HARTFORD	73	2	1.8	-1.8	MT BILLINGS	66	-5	0.7	-0.3	TX BROWNSVILLE	86	1	T	-2.7
DC WASHINGTON	80	1	3.9	0.0	MT GREAT FALLS	65	-5	4.3	3.0	TX CORPUS CHRISTI	85	0	0.7	-2.6
FL APALACHICOLA	83	1	9.9	2.4	MT HAVRE	60	-6	3.0	1.5	TX DEL RIO	87	4	2.5	-0.2
FL DAYTONA BEACH	82	1	2.7	-3.5	MT HELENA	63	-6	2.0	0.8	TX EL PASO	83	2	2.7	1.2
FL FT. MYERS	84	1	6.5	-2.1	MT KALISPELL	62	-6	2.8	1.5	TX FORT WORTH	87	5	0.8	-1.5
FL JACKSONVILLE	82	1	3.0	-2.5	MT MILES CITY	60	-2	1.5	0.1	TX GALVESTON	86	3	0.5	-3.9
FL KEY WEST	85	1	3.8	-1.2	MT MISSOULA	68	-5	1.0	-0.1	TX HOUSTON	87	4	1.8	-2.1
FL MIAMI	85	2	5.1	-2.4	NE GRAND ISLAND	63	-3	1.3	0.1	TX LAREDO	--	--	--	--
FL ORLANDO	83	1	6.0	-0.8	NE LINCOLN	73	-1	4.6	1.8	TX LUBBOCK	80	2	1.8	-0.7
FL TALLAHASSEE	83	2	6.1	-1.4	NE NORFOLK	75	0	1.1	-2.3	TX MIDLAND	81	1	4.4	2.5
FL TAMPA	84	2	5.1	-2.6	NE NORTH PLATTE	73	0	2.9	0.3	TX SAN ANGELO	84	3	2.6	0.7
FL WEST PALM BEACH	83	0	4.8	-1.9	NE OMAHA	70	-2	3.8	2.0	TX SAN ANTONIO	87	2	T	-2.5
GA ATHENS	81	2	2.0	-1.6	NE SCOTTSDUFF	74	0	6.4	3.2	TX VICTORIA	86	3	0.7	-2.9
GA ATLANTA	82	4	3.0	-0.7	NE VALENTINE	69	-3	2.5	1.5	TX WACO	87	1	0.9	-0.8
GA AUGUSTA	82	3	2.8	-1.7	NV ELKO	69	-3	2.4	-0.4	TX WICHITA FALLS	85	1	1.2	-1.4
GA MACON	82	2	6.0	2.3	NV ELY	62	-5	T	0.6	UT BLANDING	73	--	0.7	-0.7
GA SAVANNAH	83	2	3.0	-4.4	NV LAS VEGAS	63	-2	0.8	0.0	UT CEDAR CITY	71	-1	0.1	-1.3
HI HILO	77	1	11.4	2.0	NV RENO	89	0	0.3	-0.2	UT SALT LAKE CITY	73	-3	0.5	-0.4
HI HONOLULU	81	0	1.0	0.6	NH WINNEMUCCA	70	0	0.0	-0.3	VT BURLINGTON	71	3	4.5	0.4
HI KAHULUI	80	1	0.8	0.3	NH CONCORD	67	-2	T	-0.4	VA LYNCHBURG	78	3	1.6	-2.1
HI LIHUE	80	0	1.7	0.0	NJ ATLANTIC CITY	70	3	2.0	-1.4	VA NORFOLK	79	2	1.4	-3.4
ID BOISE	69	-4	0.2	-0.2	NM ALBUQUERQUE	74	0	5.4	1.3	VA RICHMOND	78	2	3.9	-0.5
ID LEWISTON	69	-3	0.6	-0.2	NM CLOVIS	76	0	3.0	1.4	VA ROANOKE	77	2	1.0	-3.1
ID POCATELLO	75	-4	1.9	1.2	NM ROSWELL	75	0	3.2	0.1	WA COLVILLE	66	-1	1.6	0.4
IL CAIRO	--	--	--	--	NY ALBANY	80	1	2.0	-0.6	WA QUILLAYUTE	61	2	1.2	-1.3
IL CHICAGO	73	2	5.7	1.5	NY BINGHAMTON	72	2	1.5	-1.9	WA SEATTLE-TACOMA	65	0	0.2	-1.0
IL MOLINE	75	2	7.8	3.5	NY BUFFALO	68	1	4.3	0.9	WA SPOKANE	64	-4	1.2	0.5
IL PEORIA	75	2	7.4	4.3	NY NEW YORK	72	3	3.9	-0.3	WA WALLA WALLA	71	-3	1.6	0.9
IL QUINCY	76	2	2.7	-1.0	NY ROCHESTER	77	2	6.1	2.4	WV YAKIMA	67	-2	0.2	-0.2
IL ROCKFORD	73	2	3.1	-1.1	NY SYRACUSE	71	3	1.7	-1.7	WV BECKLEY	71	3	3.5	0.1
IL SPRINGFIELD	76	2	3.2	-0.1	NC ASHEVILLE	74	2	4.7	1.2	WV CHARLESTON	76	2	2.7	-1.3
IN EVANSVILLE	80	2	2.2	-1.1	NC CHARLOTTE	71	2	5.3	-0.7	WV ELKINS	72	4	2.2	-2.2
IN FORT WAYNE	74	3	1.7	-1.7	NC GREENSBORO	80	2	3.8	0.0	WV HUNTINGTON	77	4	2.7	-1.4
IN INDIANAPOLIS	75	2	6.4	2.8	NC HATTERAS	78	2	2.3	-1.6	WV PARKERSBURG	76	3	4.1	0.1
IN SOUTH BEND	74	3	4.4	0.7	NC NEW BERN	78	-1	9.0	3.0	WI GREEN BAY	70	3	2.3	-1.2
IA DES MOINES	74	2	12.2	8.4	NC RALEIGH	79	0	1.7	-4.8	WI LACROSSE	72	1	5.3	1.4
IA DUBUQUE	71	1	8.1	3.6	NC WASHINGTON	78	1	1.8	-2.2	WI MADISON	72	3	5.6	1.0
IA SIOUX CITY	73	0	6.4	3.5	ND BISMARCK	80	1	5.7	-1.4	WI MILWAUKEE	74	4	4.2	0.7
IA WATERLOO	72	2	9.6	6.0	ND FARGO	67	-2	1.9	0.2	WI WAUSAU	69	2	4.2	-0.2
KS CONCORDIA	76	-1	4.8	1.2	ND GRAND FORKS	69	0	1.1	-1.3	WY CASPER	68	-1	1.2	0.5
KS DODGE CITY	76	-2	3.1	0.4	ND WILLISTON	67	0	4.7	2.3	WY CHEYENNE	65	-1	2.2	0.5
KS GOODLAND	71	-3	6.0	4.2	OH AKRON-CANTON	64	-5	4.7	3.4	WY LANDER	66	-3	0.5	-0.1
KS TOPEKA	78	2	5.3	1.4	OH CINCINNATI	74	3	1.7	-1.7	WY SHERIDAN	64	-4	0.4	-0.4
KS WICHITA	81	3	1.3	-2.3	OH CLEVELAND	76	3	4.2	0.8	PR SAN JUAN	84	2	4.0	-1.4
KY BOWLING GREEN	79	3	1.2	-2.4	OH COLUMBUS	73	3	1.5	-1.9					
KY JACKSON	76	--	7.7	--	OH DAYTON	76	5	0.7	-2.8					
KY LEXINGTON	76	2	4.5	0.6	OH MANSFIELD	75	3	3.3	0.1					
KY LOUISVILLE	79	3	5.7	2.2	OH TOLEDO	71	0	0.7	-2.5					
KY PADUCAH	79	2	2.9	-0.5										

Based on 1961-90 normals.

National Agricultural Summary

August 30 - September 5, 1993

HIGHLIGHTS: Scattered showers occurred from Texas to Maine last week. The moisture increased row crop prospects, but hindered hay harvesting. Dry conditions and above-normal temperatures stressed crops and pastures in the Southeast and West, though rain eased drought conditions in the Southeast. Temperatures were below-normal across the Great Plains, which slowed crop maturity in some areas.

SMALL GRAINS: Winter wheat planted in the 19 major wheat-producing States reached 5 percent (%), compared with 6% by this time in 1992 and 5% average. Progress was greatest in Washington and Texas, with more than 10% of their acreage planted. Some producers in Texas and South Dakota delayed planting waiting for more soil moisture. Winter wheat harvest in the Northwest advanced with Idaho at 61% and Oregon at 54% complete. The spring wheat harvest reached 43% complete, compared with 55% last year and 88% average. The harvest made good progress in North Dakota and Minnesota, although wet field conditions hindered progress in North Dakota. Spring wheat condition declined with 45% of the crop rated good to excellent, compared with 53% last week. Oats, barley, and rye harvests advanced across the northern parts of the Nation. Rain caused quality problems for some barley in Colorado. The oats harvest neared completion in Wisconsin, where yields were reported as average.

CORN: Corn in the dough stage in the 17 major producing States reached 75%, compared with 81% a year ago and 92% average. Dough progress in Ohio and Indiana was ahead of average. Corn in dent was 40%, compared with 43% last year and 69% average. Denting progress was ahead of average in the eastern Corn Belt, the Ohio Valley, and the Southeast. About 8% of the Nation's crop was rated mature, compared with 10% last year and 26% average. Corn condition declined with 51% of the crop rated good to excellent, compared with 55% last week.

SOYBEANS: Soybean setting pods in the 19 major producing States averaged 93%, compared with 96% a year ago and 95% average. Setting pod progress was equal to, or ahead of, average in 10 States. Rain in the Ohio Valley boosted crop prospects. Nationally, 3% of the acreage had dropped leaves, compared with 6% last year and 13% average. Progress in the South and Southeast was equal to, or ahead of, average. Spider mites caused problems on some soybeans in Ohio. Nationally, soybean condition declined slightly from last week, with 46% of the crop rated good to excellent.

COTTON: Cotton boll opening progress advanced to 39%, compared with 32% last year and 34% average. Progress was equal to, or ahead of, average in all areas except the Mississippi Delta, California, and New Mexico. Rain hindered the application of defoliants on some fields in Texas. Insecticides were applied to some fields in California and Texas. Dry weather and insects caused crop condition to decline in Tennessee. For the Nation, cotton crop condition declined, with 50% good to excellent, compared with 52% last week.

SORGHUM: Grain sorghum headed in the 12 major producing States (excluding New Mexico) reached 97%, compared with 93% last year and 97% average. Grain sorghum coloring

averaged 60%, compared with 53% last year and 52% average. Sorghum mature reached 32%, compared with 33% last year and 37% average. The central Great Plains showed the greatest advances in sorghum coloring, while the South had the greatest percentage of sorghum mature. Recent rains benefited the crop in the Texas High Plains. Sorghum condition declined slightly, with 61% of the crop good to excellent, versus with 63% the previous week.

RICE: Rice headed in the five major producing States reached 95%, compared with 98% last year and 96% average. Progress of the rice harvest reached 21%, compared with 33% last year and 29% average. Blast disease problems occurred in some Arkansas fields. Producers in California prepared to begin harvest. Scattered showers slowed harvest in the upper coast region of Texas. Rice condition declined from last week with 70% rated good to excellent.

OTHER FIELD CROPS: Insects damaged some peanut fields in Georgia and Virginia. Irrigation needs for some Texas peanut fields remained high. Tobacco harvest was at least 2 weeks behind normal in Tennessee and Georgia. The August rains improved prospects for the Tennessee tobacco crop. The dry bean crop in New York showed stress from lack of moisture. Scattered showers continued to hamper hay harvest in the Midwest. Potato harvest advanced nationwide.

FRUIT AND NUTS: Citrus groves were in good condition in Florida. However, fruit maturity lagged. In California, the Valencia orange harvest continued with fruit quality reported as good. Hail damaged some fruit in the Lake Ontario region of New York. Apple harvest advanced across the country. Dry weather caused the fruit size in the East to be slightly smaller than normal. Grapes were harvested in New York and California. Bud damage was noted on some grapes in the Finger Lake region of New York. Hazelnut and walnut prospects remained good in Oregon. Rain across the Texas Low Plains helped some pecan orchards, but was too late for others.

VEGETABLES: Vegetable producers prepared land and planted fall crops in Arizona, Florida, Texas, and California. No unusual problems were reported. The harvest of sweet corn and snap beans for processing continued. The fresh market vegetable harvest also advanced. Hot, dry conditions affected the harvest in Georgia, where seasonal vegetables were in short supply.

PASTURE AND LIVESTOCK: Pasture feed conditions remained poor to fair in the East and Southeast, where dry conditions prevailed. Scattered showers maintained or improved pasture feed supplies across the South and Great Plains. Supplemental feeding continued in the areas where pasture feed was short. Hay supplies remained mostly adequate. Fly and pinkeye problems continued on some livestock in the Midwest. Nationally, livestock condition was reported as fair to good.

Crop Progress

for the Week Ending September 5, 1993

COTTON (Percent Bolls Opening)

	Current	Last Wk	1992	Avg.
AL	37	16	18	33
AZ	90	76	80	79
AR	25	12	14	22
CA	45	25	75	49
GA	41	29	26	33
LA	50	21	75	62
MS	50	29	45	52
MO	30	10	5	24
NM	27	14	8	29
NC	46	20	25	39
OK	12	9	8	6
SC	41	24	33	33
TN	40	21	11	27
TX	34	29	21	23
14 States	39	26	32	34

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

WINTER WHEAT (Percent Planted)

	Current	Last Wk	1992	Avg.
AR	0	N/A	0	0
CA	0	N/A	0	0
CO	8	N/A	7	12
GA	0	N/A	0	0
ID	0	N/A	14	4
IL	0	N/A	0	0
IN	0	N/A	0	1
KS	3	N/A	2	2
MI	2	N/A	0	1
MO	0	N/A	0	0
MT	0	N/A	2	7
NE	3	N/A	3	6
NC	0	N/A	0	0
OH	0	N/A	0	0
OK	6	N/A	9	5
OR	4	N/A	3	2
SD	9	N/A	8	9
TX	12	N/A	9	8
WA	17	N/A	38	20
19 States	5	N/A	6	5

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

SOYBEANS (Percent Setting Pods)

	Current	Last Wk	1992	Avg.
AL	77	63	81	77
AR	85	66	87	78
GA	84	76	93	90
IL	97	95	100	99
IN	99	97	98	97
IA	96	86	100	100
KS	95	85	95	95
KY	75	60	85	80
LA	91	88	96	99
MI	100	95	85	95
MN	91	84	99	100
MS	87	75	97	85
MO	94	78	100	94
NE	98	95	100	100
NC	80	62	80	73
OH	100	98	99	98
SC	70	55	80	73
SD	90	70	93	99
TN	89	73	90	84
19 States	93	85	96	95

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

SOYBEANS (Percent Dropping Leaves)

	Current	Last Wk	1992	Avg.
AL	23	2	15	16
AR	3	1	6	3
GA	23	5	5	6
IL	2	1	11	15
IN	4	0	7	15
IA	0	0	2	12
KS	5	4	10	20
KY	7	5	11	10
LA	13	6	16	7
MI	1	0	1	4
MN	0	0	2	20
MS	2	1	14	10
MO	2	0	6	5
NE	0	0	1	15
NC	0	0	3	0
OH	12	3	4	16
SC	0	0	0	0
SD	4	3	5	36
TN	5	1	5	7
19 States	3	1	6	13

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

CORN (Percent Dough)

	Current	Last Wk	1992	Avg.
CO	75	45	62	89
GA	100	100	100	100
IL	92	85	88	94
IN	97	93	92	94
IA	52	35	75	94
KS	97	90	96	98
KY	99	96	99	99
MI	60	30	25	65
MN	35	16	74	92
MO	91	85	99	98
NE	86	72	100	99
NC	93	91	93	97
OH	100	90	92	92
PA	78	65	62	68
SD	66	39	69	95
TX	96	94	96	99
WI	57	45	45	73
17 States	75	62	81	92

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

CORN (Percent Dent)

	Current	Last Wk	1992	Avg.
CO	26	10	39	44
GA	100	100	100	100
IL	56	38	51	74
IN	61	40	48	68
IA	20	10	42	80
KS	70	50	65	80
KY	85	78	84	83
MI	15	3	3	30
MN	8	4	18	60
MO	71	55	82	86
NE	37	22	51	75
NC	91	87	90	90
OH	65	37	40	51
PA	29	19	20	27
SD	21	9	25	63
TX	94	83	91	95
WI	17	15	10	42
17 States	40	27	43	69

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

CORN (Percent Mature)

	Current	Last Wk	1992	Avg.
CO	0	N/A	2	12
GA	100	N/A	98	98
IL	5	N/A	7	30
IN	8	N/A	7	21
IA	0	N/A	6	31
KS	35	N/A	35	50
KY	33	N/A	26	32
MI	0	N/A	0	3
MN	0	N/A	0	15
MO	20	N/A	29	41
NE	0	N/A	2	20
NC	78	N/A	77	77
OH	7	N/A	1	6
PA	1	N/A	1	4
SD	1	N/A	3	25
TX	66	N/A	67	71
WI	2	N/A	1	11
17 States	8	N/A	10	26

These 17 States produced 94 of the 1992 corn crop.

**SORGHUM
(Percent Headed)**

	Current	Last Wk	1992	Avg.
AR	98	95	100	98
CO	83	72	76	86
IL	94	89	100	96
KS	98	90	90	95
LA	100	98	100	98
MS	100	99	100	100
MO	95	90	100	97
NE	97	93	100	100
NM	90	75	95	NA
OK	96	94	90	95
SD	93	74	82	94
TX	97	94	93	97

12 States 97 91 93 NA

Excl. States with NA 97 91 93 97

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

**SORGHUM
(Percent Colored)**

	Current	Last Wk	1992	Avg.
AR	87	74	95	81
CO	20	13	18	31
IL	40	21	58	58
KS	50	20	25	45
LA	94	87	100	91
MS	93	91	100	90
MO	56	42	72	68
NE	26	9	30	62
NM	24	19	26	NA
OK	53	35	54	64
SD	6	5	17	55
TX	84	81	75	77

12 States 59 46 52 NA

Excl. States with NA 60 46 53 64

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

**SORGHUM
(Percent Mature)**

	Current	Last Wk	1992	Avg.
AR	46	N/A	67	62
CO	8	N/A	0	6
IL	0	N/A	6	17
KS	3	N/A	2	10
LA	69	N/A	95	76
MS	72	N/A	84	66
MO	23	N/A	33	29
NE	0	N/A	0	14
NM	3	N/A	2	NA
OK	14	N/A	7	7
SD	0	N/A	0	15
TX	70	N/A	67	69

12 States 32 N/A 33 NA

Excl. States with NA 32 N/A 33 37

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

**RICE
(Percent Headed)**

	Current	Last Wk	1992	Avg.
AR	96	87	99	94
CA	95	85	95	92
LA	95	93	98	98
MS	87	85	100	98
TX	98	94	100	100

5 States 95 89 98 96

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

**RICE
(Percent Harvested)**

	Current	Last Wk	1992	Avg.
AR	6	3	24	10
CA	0	0	1	0
LA	61	57	67	67
MS	5	4	11	14
TX	42	36	65	79

5 States 21 18 33 29

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

**SPRING WHEAT
(Percent Harvested)**

	Current	Last Wk	1992	Avg.
ID	22	8	95	84
MN	48	30	42	88
MT	12	5	51	80
ND	38	21	48	88
SD	90	86	86	97

5 States 43 29 55 88

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

**Crop Condition
(Percent)**

for the Week Ending September 5, 1993

RICE

State	VP	P	F	G	EX
AR	0	0	12	88	0
CA	0	0	10	85	5
LA	0	0	75	25	0
MS	0	14	38	43	5
TX	0	0	26	74	0
5 State	0	1	29	69	1
Prev Week	0	0	23	76	1
Prev Year	0	1	42	55	2

SOYBEANS

State	VP	P	F	G	EX
AL	0	14	63	23	0
AR	0	7	66	27	0
GA	37	34	24	5	0
IL	0	0	15	71	14
IN	0	1	17	70	12
IA	1	11	60	27	1
KS	0	3	28	54	15
KY	0	8	54	35	3
LA	0	13	68	19	0
MI	1	4	20	55	20
MN	12	32	49	7	0
MS	5	28	45	22	0
MO	1	7	60	30	2
NE	0	0	21	68	11
NC	8	20	55	17	0
OH	4	13	34	41	8
SC	26	31	36	7	0
SD	0	18	52	28	2
TN	0	9	39	50	2
19 State	3	11	40	40	6
Prev Week	2	11	38	43	6
Prev Year	0	3	24	62	11

CORN

State	VP	P	F	G	EX
CO	2	8	14	63	13
GA	23	19	37	21	0
IL	0	1	13	70	16
IN	0	1	17	73	9
IA	2	19	60	18	1
KS	0	1	15	58	26
KY	1	1	62	35	1
MI	1	6	15	55	23
MN	15	40	40	5	0
MO	2	18	42	35	3
NE	0	3	23	65	9
NC	17	40	33	10	0
OH	4	15	34	40	7
PA	3	10	30	45	12
SD	4	6	58	32	0
TX	0	4	20	65	11
WI	1	4	44	48	3
17 State	3	12	34	44	7
Prev Week	2	11	32	46	9
Prev Year	1	4	18	60	17

SORGHUM

State	VP	P	F	G	EX
AR	0	13	47	40	0
CO	0	4	30	57	9
IL	0	0	12	83	5
KS	0	3	20	53	24
LA	0	3	54	43	0
MS	0	11	51	38	0
MO	1	6	56	36	1
NE	0	10	46	40	4
NM	0	20	39	40	1
OK	0	0	24	75	1
SD	1	4	57	38	0
TX	0	6	31	57	6
12 State	0	6	33	52	9
Prev Week	1	7	29	52	11
Prev Year	0	5	20	58	17

SPRING WHEAT

State	VP	P	F	G	EX
ID	0	1	19	63	17
MN	14	40	40	5	1
MT	0	5	22	46	27
ND	0	11	35	52	2
SD	5	37	37	19	2
5 State	3	18	34	39	6
Prev Week	3	14	30	45	8
Prev Year	N/A	N/A	N/A	N/A	N/A

COTTON

State	VP	P	F	G	EX
AL	0	9	61	30	0
AZ	0	0	10	80	10
AR	0	0	26	74	0
CA	0	0	0	85	15
GA	31	17	34	18	0
LA	0	0	75	25	0
MS	5	13	66	16	0
MO	0	11	71	18	0
NM	0	0	10	80	10
NC	6	10	78	6	0
OK	0	0	74	19	7
SC	40	42	14	4	0
TN	0	0	54	46	0
TX	0	5	38	54	3
14 State	2	6	42	47	3
Prev Week	1	10	37	48	4
Prev Year	5	4	50	37	4

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

State Summaries of Weather and Agriculture

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

ALABAMA: Rainfall 0.10 to 3.97 in. north; 0.57 to 3.01 in. central; 0.50 to 3.17 in. south. Temperatures 2° below normal to 4° above normal north; 1° below normal to 3° above normal central; 2° below normal to 3° above normal south. Lows 54° to 64° north; 56° to 69° central; 67° to 72° south. Highs 91° to 98° north; 90° to 96° central; 90° to 95° south.

Days suitable for fieldwork 5.8. Soil moisture 66% short, 34% adequate. Corn mature 88%, 93% 1992, 92% avg.; harvested 36%, 36% 1992, 50% avg.; condition 19% very poor, 32% poor, 38% fair, 11% good. Sorghum harvested 12%, 13% 1992, 27% avg.; condition 4% poor, 65% fair, 31% good. Peanuts dug 8%, 8% 1992, 13% avg.; combined 6%, 3% 1992, 6% avg.; condition 28% poor, 58% fair, 14% good. Pasture condition 17% poor, 65% fair, 18% good. Primary activities: Scouting, spraying fields, harvesting vegetables, corn, land preparation for seeding small grains, general care of livestock, poultry, catfish.

ALASKA: Rain was received throughout the State last week; many locations reported accumulations of over an inch.

Days suitable for hay harvest 1, 3 days for potato harvest. Second crop hay harvest 20% complete versus slightly over 25% complete in 1992. Barley was 10% swathed, 65% harvested. Last year barley harvest 40% complete. Oats were 15% swathed, 50% harvested. Commercial potato harvest 25% complete, compared to 15% complete last year. Topsoil moisture supplies rated 25% short, 75% adequate. Subsoil moisture supplies rated 50% short, 50% adequate.

ARIZONA: Storm activity over most areas 29th through 1st. Heaviest rainfall Sanford, 2.52 inches. Clear skies remainder of week. Temperatures varied 1° above normal to 3° below normal; Ranges 42° to 95°, higher elevations; 60° to 110° deserts.

Cotton continues good progress; 90% bolls open, 80% previous, 79% avg. Harvest slowly gaining momentum Yuma area. Other activities included: Final irrigating, pesticide applications, pest monitoring, defoliating. Weeds light to moderate, insects moderate. Whitefly, aphids active western areas. Alfalfa good. Harvest moderate central, south central, active western, eastern. Weeds light to moderate, insects light to moderate; disease light. Rain damage light to moderate. Ground preparation vegetable crops active all areas. Central Arizona, cantaloupe, watermelons, harvested. Western area lemon harvest underway. Apples, sweet corn harvested eastern production areas. Peach harvest complete.

ARKANSAS: Mild week, temperatures averaging near normal. Scattered showers, isolated thunderstorms occurred throughout State. Extremes 52o; 100o. Rainfall none to 5.30 inches.

Days suitable for fieldwork 7. Slow rate of crop growth. Soil moisture supplies 72% short, 25% adequate. Soybeans, cotton irrigation continued. Corn earworm larvae infestation in soybean fields. Boll weevils in cotton fields. Blast disease in rice fields. Sorghum, rice harvesting continued. Corn harvested 39% current week, 42% previous year, 45%; conditions 3% very poor, 6% poor, 48% fair, 43% good. Fertilizer, herbicides applied to pastures. Producers continued to prepare for planting cool season forages. Hay cuttings continued. Livestock good condition, parasites.

CALIFORNIA: High pressure brought sunny, warm days, clear nights. Subtropical moisture brought isolated showers southern deserts, Sierra Nevada mountains. Few record highs reported San Francisco Bay area.

Field activities good progress, hot, dry weather. Rice maturing rapidly, some fields drained preparation for harvest. Herbicide applications ongoing. Blackbird, duck damage some areas, control measures underway. Cotton good growth, development San Joaquin Valley. Defoliation, harvest active desert areas. Fields treated aphids, mites; final irrigation water applied. Safflower harvest winding down, southern areas; northern fields nearing harvest. Alfalfa seed, grain corn, silage corn, dry beans, sugarbeets harvested. Planting new crop sugarbeets progressed. Alfalfa hay harvest normal. Thompson Seedless, Flame Seedless, Ruby Seedless, Red Globe grape varieties harvested. Raisin harvest pace increased. Tree fruit harvest winding down. Apples sprayed worm control. Granny Smith apples, Asian pears harvested. Pomegranate harvest continued. Walnuts treated Codling moth, mites. Hull split occurred, early walnut varieties. Coachella valley lemon harvest continued. Western Riverside county, citrus, avocado harvest continued. Valencia orange harvest continued, good quality. Growers irrigated, sprayed. Few strawberry fields in bloom, planting continued central valley. Broccoli moderate central coast.; fall planting continued San Joaquin Valley. Broccoli, cabbage, cauliflower westside area sprayed worms, aphids. Carrot packing continued westside area. Cauliflower moderate, variable quality; celery moderate, good quality central coast. Sweet corn harvest ongoing San Joaquin Valley. Summer head lettuce moderate, variable quality central coast. Fall lettuce being planted San Joaquin Valley. Yellow onion harvest declining central coast. Sweet potatoes going to storage San Joaquin Valley. Fresh market tomato summer harvest continued, fall fields central valley treated worms. Processing tomato production full swing statewide. Picking continued watermelons, cantaloupe, honeydew, crenshaw, other melons. Melon harvest slow central valley. Bell pepper packing full swing central coast. Other crops harvested: Cucumbers, garlic, snap beans, squash, various oriental vegetables. Range, pastures continued dry. Use of supplemental feeding increased. Livestock good, cattle movement moderate to heavy.

COLORADO: A strong front dropped temperatures 15 to 20° in the east on 30th but generally 5° or less in mountains, west. Locally heavy rain in a few locations; 1.23 in. at Durango, 1.35 in. at Burlington. Widespread light rain, thunderstorms continued on 31st with Durango reporting another 1.33 in. of rain. Another cold front on 2nd left 0.2 to 0.4 in. of rain in many locations, again dropped maximum temperatures in east by 15 to 20°. Cool but dry weather returned to most locations on 3rd and 4th. Widespread but mostly light rain, few heavy thunderstorms returned on 5th. The series of cold fronts during the week resulted in avg. temperatures in the Arkansas, Kansas River Basin being 5 to 9° below normal, in the South Platte Basin 3 to 5° below normal. Other locations reported avg. temperatures 1 to 3° below normal.

Days suitable for fieldwork 5.3. Soil moisture 12% very short, 28% short, 57% adequate, 3% surplus. Alfalfa 3rd cutting 34%, 30% 1992, 33% avg. Barley, spring wheat harvests in the San Luis Valley are being hampered by rain. Spring barley harvested 86%,

76% 1992, 78% avg. Oats harvested 82%, 73% 1992, 71% avg. Winter wheat seeded 8%, 7% 1992, 12% avg. Dry beans cut 27%, 22% 1992, 17% avg.; harvested 13%, 3% 1992, 7% avg. Corn dough stage 75%, 62% 1992, 89% avg.; denting 26%, 39% 1992, 44% avg. Corn silage harvested 5%, 5% 1992, 8% avg. Sorghum turning color 20%, 18% 1992, 31% avg.; mature 8%, 0% 1992, 6% avg. Summer potatoes harvested 57%, 61% 1992, 52% avg. Dry onions harvested 35%, 37% 1992, 36% avg. Fall potato 1% very poor, 7% poor, 20% fair, 52% good, 20% excellent. Dry onion 2% poor, 10% fair, 59% good, 29% excellent. Corn 2% very poor, 8% poor, 14% fair, 63% good, 13% excellent. Sugar beet 1% very poor, 3% poor, 16% fair, 58% good, 22% excellent. Dry bean 1% very poor, 7% poor, 20% fair, 61% good, 11% excellent. Livestock rated good to excellent. Pasture, range feed rated good.

FLORIDA: Temperatures 1° below normal central, south. Highs; lower 90s. Lows; 70°. Rainfall 1 to 2 in. Panhandle, Big Bend, central, south. Amounts varied from 0.75 in. to over 5 inches. Northeast generally below 0.75 in. with some over 1 inch.

Soil moisture short to adequate, scattered areas of surplus moisture. Tobacco harvest complete. Peanut harvest gaining momentum. Making preparations to start cotton harvest. Corn harvest active. Haymaking active where plant growth adequate. Tobacco marketing active. Making preparation to start planting sugarcane. Soybeans, sugarcane continued good progress. Citrus groves, trees, fruit, very good to excellent. Abundant new growth. Variable fruit sizes. Some color break on early fruit, maturity lagging. Caretakers cutting cover crops, herbiciding, young tree fertilizations, spraying. Growers active in fields in all vegetable producing areas. Growers planting, transplanting snap beans, carrots, celery, sweet corn, cucumbers, eggplant, escarole, specialty lettuce, peppers, radishes, squash, tomatoes, cherry tomatoes. Crops in good condition. Cucumber harvest underway North central. Pastures poor to excellent. Pasture ratings, 5% poor, 45% fair, 35% good, 15% excellent. Cattle herds fair to good.

GEORGIA: Temperatures 3 to 7° above normal north, 1 to 4° above normal south. Warmest temperatures mostly low to mid 90s except upper 90s eastern counties Athens to Augusta. Coolest lows low to mid 60s north, mid 60s to low 70s center, south. Rain 2 to 4 days most locations except 4 to 6 days extreme southwest, south central. Rain totals from 0.1 in. to just over 3.00 in., most stations between 0.25 to 0.75 inches. Amounts generally 2 in. below normal.

Days suitable for field work 6.3. Soil moisture 53% very short, 38% short, 9% adequate. Corn 61% harvested for grain, 54% 1992, 63% avg.; weather favorable for corn harvest. Sorghum 5% very poor, 49% poor, 42% fair, 4% good; 13% harvested for grain, 17% 1992, 21% avg. Peanuts 23% very poor, 20% poor, 51% fair, 5% good, 1% excellent; 4% dug, 5% 1992, 10% avg.; 1% threshed, 1% 1992, 5% avg.; insect pressure increasing. Soybeans 99% blooming, 100% 1992, 98% avg.; insect pressure on increase. Tobacco 9% very poor, 2% poor, 41% fair, 46% good, 2% excellent; 86% harvested, 98% 1992, 96% avg.; harvest nearly two weeks later than normal. Vegetables 4% very poor, 13% poor, 44% fair, 39% good; crops under stress, supplies many in season vegetables light. Apples 7% very poor, 1% poor, 36% fair, 56% good, 35% harvested, 36% 1992, 43% avg.; some sizing problems due to dry weather. Pecans 1% very poor, 9% poor, 34% fair, 50% good, 6% excellent. Hay, pasture down, supplemental feeding hay on increase, armyworm pressure increasing. Cattle, hogs fair to good. Other activities: Irrigating crops, spraying fields for insect control, searching for supplies of winter feed, caring for poultry, livestock.

HAWAII: Light trades created warm, humid conditions for State. A record low 69° reached in Honolulu, 3th. Showers

variable, mainly windward. Rainfall ranged from none to 2.50 inches. Temperature varied from mid 60s to low 90s.

Days suitable for fieldwork 7.0. Weather generally favorable for crop progress. Limited rainfall adversely affected pastures under prolonged dry conditions. Banana production continued seasonal increase. Market conditions weakened by lower price for imported fruit. Papaya growers continued rouging to limit papaya mosaic virus spread. Watermelon, sweet corn production expected lower after Labor Day.

IDAHO: Temperatures normal to 7° below normal. Precipitation 0.02 to 0.40 in. north; none elsewhere.

Days suitable for fieldwork 7. Soil moisture 0% very short, 7% short, 90% adequate, 3% surplus. Winter wheat harvested, 61%, 100% 1992, 94% avg. Spring wheat, 4% headed, 74% turning color, 22% harvested. Spring barley, 2% headed, 66% turning color, 32% harvested. Oats harvested 52%, 90% 1992, 77% avg. Potatoes 12" high 2%, closing middles 32%, turning 62%, harvested 4%; 1% very poor, 3% poor, 20% fair, 67% good, 9% excellent. Alfalfa second cutting 92%, 98% 1992, 95% avg. Alfalfa third cutting 21%, 55% 1992, 34% avg. Dry peas harvested 35%, 100% 1992, 98% avg. Lentils harvested 14%, 100% 1992, 93% avg. Peaches harvested 64%, 99% 1992, 90% avg. Prunes, plums harvested 35%, 96% 1992, 68% avg. Mint first cutting 99%, 100% 1992, 97% avg. Hops harvested 54%, 58% 1992, 37% avg. Onions harvested 28%, 48% 1992, 30% avg. Dry beans harvested 2%, 37% 1992, 23% avg. Field corn silage harvested 14%, 11% 1992, 4% avg. Irrigation water supplies 0% very poor, 1% poor, 3% fair, 82% good, 14% excellent. Activities: Grain, potato harvest, weed, blight control, disking grain stubble, alfalfa seed harvest. Black bean aphids reported in several sugarbeets producing counties. Army worms in Elmore county alfalfa. Pasture, range condition 95% of normal. Livestock in good condition.

ILLINOIS: The hot, humid weather ended last week, as a strong cold front brought excessive rains to many areas, temperatures which were below normal. Highs upper 70s; mid 80s. Lows mid 50s; mid 60s. Precipitation was mostly 2.0 in. or greater, except far north, south where amounts were 0.5 in. or less.

Days suitable for fieldwork 4. Corn crop continued to progress, with 56% dented, at a similar pace to last years crop, while soybeans were slightly behind. Soybeans turning yellow 9%, 33% 1992, 39% avg. Alfalfa cut, third crop 60%, 75% 1992, 76% avg. Soil moisture 1% short, 49% adequate, 50% surplus. Farm activities included preparing harvesting equipment, cleaning grain bins, mowing, harvesting vegetables, fruit, tending livestock. Pasture 95% of normal.

INDIANA: High temperatures upper 70's to around 80 north to 80's in the south. These readings were normal to as much as 3° above normal over much of State except for 1 to 3° below normal over northwest. Lows avg. from upper 50's, low 60's in the north, central to the 60's in the south. These readings were 1 to 6° above normal. Rainfall totals for the period avg. 1.50 to 4.00 inches.

Days suitable for fieldwork 4. Cooler temperatures, rain was welcomed by farmers. Pastures 88% of normal, 90% last week. Topsoil 8% short, 62% adequate, 30% surplus. Subsoil moisture 12% short, 75% adequate, 13% surplus. Tobacco harvested 35%, 50% 1992, 36% avg. Silos filled with corn silage 16%, 11% 1992, 25% avg. Corn, soybeans continue good progress toward maturity.

IOWA: Temperatures near normal southeast, 5° below normal northwest; extremes 43°; 91°. Precipitation light north 0.50, heavy southeast. Rainfall 0.02 in. northeast to 4.33 in. southeast; avg. 0.79 in., normal 0.87 inches.

Days suitable for fieldwork 3.0. Topsoil 28% adequate, 72% surplus. Subsoil 10% adequate, 90% surplus. Corn in or past milk

stage 85%, 99% 1992, 100% normal. Soybeans with leaves turning color 5%, 15% 1992, 33% normal. Second crop alfalfa hay harvested 90%, 100% 1992, 100% normal. Third crop alfalfa hay harvested 18%, 60% 1992, 78% normal. Second crop clover hay harvested 70%, 92% 1992, 98% normal. Pasture 1% very poor, 6% poor, 27% fair, 56% good, 10% excellent. Hay 4% very poor, 25% poor, 46% fair, 23% good, 2% excellent. Livestock mostly good.

KANSAS: Temperatures 5 to 6° below normal west, 1 to 4° below normal central, 1° above normal southeast, normal northeast, east central. Precipitation received all areas, ranged 0.65 in. south central to 2.34 in. northwest.

Days suitable for fieldwork 4.0. Topsoil moisture 26% short to very short, 61% adequate, 13% surplus. Subsurface moisture 7% short to very short, 83% adequate, 10% surplus. Corn harvest south central, southeast made good progress, in early stages other southern, central areas. Corn harvested 5%, 10% 1992, 20% avg. Seeding fall wheat underway west central, southwest. Southeast reports limited sorghum harvest for grain. Soybean blooming virtually finished, only few acres southeast. Third cutting alfalfa 90%, 95% 1992, 97% avg. Fourth cutting 20%. Ranges, pastures good. Some areas good regrowth after rains.

KENTUCKY: Hot, humid weather continued. Temperatures avg. 2 to 4° above seasonal normals, highs avg. 85 to 90°. Cooler, drier air over the weekend, highs lower 80s, lows upper 50s. Showers, thunderstorms occurred latter half of week. Precipitation 0.25 to 0.75 in. above normal many locations. Few areas more than 1 in. above normal.

Days suitable fieldwork 5.1. Soil moisture 18% very short, 56% short, 26% adequate. Burley 43% cut, dark tobacco 62% cut. Tobacco 2% poor, 47% fair, 51% good. Hay 4% very poor, 20% poor, 39% fair, 36% good, 1% excellent. Pastures deteriorating, some fall hay crops being pastured.

LOUISIANA: Temperatures averaged 1.3° to 3.6° above normal. Extremes 63°, 100°. Rainfall: dry westcentral to 1.44 in. eastcentral.

Days suitable for fieldwork 6.0. Soil moisture 11% very short, 60% short, 24% adequate, 5% surplus. Corn 100% mature, 100% 1992, 100% avg.; 70% harvested, 77% 1992, 81% avg. Hay 62% final cutting, 77% 1992, 56% avg. Peaches 100% harvested, 100% 1992, 100% avg. Rice 76% ripe, 86% 1992, 80% avg. Rice yields reported average, harvest underway in the north. Sorghum 69% ripe, 95% 1992, 76% avg.; 37% harvested, 64% 1992, 52% avg. Harvest progressing smoothly. Soybeans 17% turning color, 37% 1992, 21% avg. Spraying active on insects, especially loopers and armyworms. Sweet potatoes 11% poor, 48% fair, 41% good; 27% harvested, 23% 1992, 29% avg. Sugarcane 1% poor, 5% fair, 94% good; 39% planted, 14% 1992, 26% avg. Planting delayed in some parishes due to short cane. Livestock 2% poor, 37% fair, 59% good, 2% excellent. Pastures 10% very poor, 18% fair, 72% good. Vegetables 14% poor, 69% fair, 17% good.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 0.27 in., normal 0.93 in. Temperature 81.5°, normal 71.6°. Extremes 59°, 98°.

Days suitable for fieldwork 6.5. Topsoil moisture, 29% very short, 42% short, 29% adequate. Subsoil moisture 29% very short, 57% short, 14% adequate. Corn poor to fair; 88% dough, 75% 1992, 89% avg.; 66% dent, 47% 1992, 70% avg.; 19% mature, 7% 1992, 25% avg.; 28% silage harvested, 8% 1992, 28% avg. Soybean poor to mostly fair; 81% setting pods, 72% 1992, 80% avg.; 5% turned, 4% 1992, 8% avg. Sorghum fair; 6% turned, 19% 1992. Tobacco poor to fair; 85% topped, 94% 1992, 84% avg.; 46% cut, 45% 1992, 53% avg. Pasture in very poor

condition; hay supplies short to adequate. Alfalfa hay 97% third cut, 86% 1992, 89% avg.; 44% fourth cut, 19% 1992, 26% avg. Other hay 47% third cut, 36% 1992, 27% avg.; 43% fourth cut, 6% 1992, 4% avg. Sweet corn 95% harvested, 88% 1992, 91% avg. Watermelons 97% harvested, 89% 1992, 92% avg. Potatoes 95% harvested, 97% 1992, 88% avg. Tomatoes 88% harvested, 79% 1992, 86% avg. Peaches 91% picked, 82% 1992, 86% avg. Apples 24% harvested, 16% 1992, 28% avg.

DELAWARE: Precipitation 0.28 in., normal 1.01 inches. Temperature 80.7°, normal 72.3°. Extremes 64°, 97°.

Days suitable for fieldwork 7.0. Topsoil moisture 17% very short, 83% short; subsoil moisture 83% short, 17% adequate. Corn poor; 89% dough, 88% 1992, 94% avg.; 77% dent, 64% 1992, 80% avg.; 25% mature, 4% 1992, 22% avg.; 50% silage harvested, 24% 1992, 36% avg. Soybeans poor to fair; 75% setting pods, 67% 1992, 78% avg.; 7% turned, 0% 1992, 2% avg. Sorghum fair, 13% turned, 11% 1992, 8% avg. Alfalfa hay 12% fourth cut, 18% 1992, 28% avg. Other hay 48% third cut, 59% 1992, 60% avg.; 0% fourth cut, 2% 1992, 8% avg. Pasture extreme drought; hay supplies short to adequate. Sweet corn 97% harvested, 89% 1992, 89% avg. Watermelons 94% harvested, 86% 1992, 91% avg. Potatoes 79% harvested, 84% 1992, 81% avg. Tomatoes 93% harvested, 68% 1992, 80% avg. Peaches 93% harvested, 89% 1992, 95% avg. Apples 33% harvested, 15% 1992, 30% avg.

MICHIGAN: Temperature extremes 95°, 38°. Precipitation ranged from 0.11 to 4.31 inches across the State.

Days suitable for fieldwork 4.0. Soil moisture 5% short, 60% adequate, 35% surplus. Dry Beans 45% turning, 40% 1992, 55% avg.; 20% dropping leaves, 10% 1992, 25% avg; condition 2% very poor, 8% poor, 20% fair, 50% good, 20% excellent. Corn Silage 5% harvested, 2% 1992, 5% avg. Oats 90% harvested, 75% 1992, 95% avg; condition 3% very poor, 10% poor, 35% fair, 40% good, 12% excellent. Potatoes 50% harvested, 45% 1992, 35% avg. Hay 95% second cutting, 90% 1992, 95% avg.; 35% third cutting, 40% 1992, 40% avg.; 3% very poor, 7% poor, 20% fair, 45% good, 25% excellent. Pasture condition 85% of normal. Major activities included baling straw, harvesting potatoes, hauling manure, repairing equipment and buildings, and picking fruit.

MINNESOTA: Temperatures averaged 1° to 4° below normal. Extremes 34°, 82°. Precipitation for the week avg. 0.15 to 0.68 in. above normal for the northern 0.75 of the State, south central, southeast, 0.21 to 0.56 in. below normal elsewhere. Rainfall total avg. 0.06 to 1.54 inches. Greatest weekly rainfall was 2.40 inches.

Days suitable for fieldwork 3.7. Topsoil 40% adequate, 60% surplus. Winter wheat 91% harvested, 99% 1992, 99% avg. Spring wheat 57% cut/swathed, 46% 1992, 88% avg.; 48% combined, 30% 1992, 85% avg. Oats 94% cut/swathed, 90% 1992, 97% avg.; 87% combined, 83% 1992, 96% avg. Barley 80% cut/swathed, 72% 1992, 94% avg.; 74% combined, 54% 1992, 90% avg. Sweet corn for processing 43% harvested, 49% 1992, 72% avg. Hay grain 16% stubble plowed & tilled, 19% 1992, 50% avg. Corn 83% milk, 97% 1992, 99% avg.; 35% dough, 74% 1992, 92% avg.; 8% dent, 18% 1992, 60% avg. Soybeans 91% setting pods, 99% 1992, 100% avg.; 5% yellowing, 12% 1992, 49% avg. Spring Wheat rated 14% very poor, 40% poor, 40% fair, 5% good and 1% excellent. Barley 6% very poor, 25% poor, 51% fair, 17% good, 1% excellent. Corn rated 15% very poor, 40% poor, 40% fair, 5% good. Soybeans 12% very poor, 32% poor, 49% fair, 7% good.

MISSISSIPPI: Temperatures 81°, 2.8° above normal. Extremes 60°, 100°. The coastal district received over three inches of rain, while the entire State avg. over an inch. State avg. 1.14 in., 0.25 in., above normal. Soil temperature 87°.

Days suitable 6.0, 3.3 1992, 5.1 avg. Soil moisture 9% very short, 65% short, 26% adequate. Corn 100% dough, 100% 1992, 100%

5 yr avg.; 96% dent, 100% 1992, 98% 5 yr avg.; 73% mature, 89% 1992, 82% 5 yr avg.; 23% harvested, 30% 1992, 41% 5 yr avg.; 70% silage harvested, 89% 1992, 82% 5 yr avg.; 9% very poor, 13% poor, 48% fair, 29% good, 1% excellent. Cotton 50% open bolls, 45% 1992, 52% 5 yr avg.; 5% very poor, 13% poor, 66% fair, 16% good. Rice 87% heading, 100% 1992, 98% 5 yr avg.; mature 38%, 62% 1992, 57% 5 yr avg.; 5% harvested, 11% 1992, 14% 5 yr avg.; 5% very poor, 20% poor, 39% fair, 31% good, 5% excellent. Sorghum 100% heading, 100% 1992, 100% 5 yr avg.; 93% turning color, 100% 1992, 90% 5 yr avg.; 72% mature, 84% 1992, 66% 5 yr avg.; 28% harvested, 33% 1992, 33% 5 yr avg.; 65% silage harvested, 70% 1992, 75% 5 yr avg.; 11% poor, 51% fair, 38% good. Soybeans 87% podding, 97% 1992, 85% 5 yr avg.; 18% coloring, 35% 1992, 29% 5 yr avg.; 2% shedding, 14% 1992, 10% 5 yr avg.; 5% very poor, 28% poor, 45% fair, 22% good. Sweetpotatoes 24% harvested, 21% 1992, 32% 5 yr avg.; 20% poor, 60% fair, 20% good. Hay 86% harvested, 88% 1992, 84% 5 yr avg. Livestock 6% poor, 15% fair, 71% good, 8% excellent. Pasture 91% of normal. Activities: Insect control, hay harvesting.

MISSOURI: Temperatures 1° to 3° above normal. Rainfall avg. 2.12 in., varying from 0.90 in. southeast to 4.21 in. northeast.

Days suitable for fieldwork 4.9, ranging 3.9 northeast to 6.0 southwest. Topsoil 23% short, 59% adequate, 18% surplus. Corn harvested 2%, 4% 1992, 7% avg. Some reports of aflatoxin in southeast corn. Soybeans dropping leaves 2%, 6% 1992, 5% avg. Third crop alfalfa 63%, 81% 1992, 85% avg. Other hay 95%, 100% 1992, 100% avg. Pasture 4% poor, 45% fair, 44% good, 7% excellent.

MONTANA: Temperatures were 2 to 7° below normal. Varied precipitation statewide.

Days suitable for fieldwork 4.0. Topsoil moisture 8% short, 73% adequate, 19% surplus. Subsoil moisture 9% short, 79% adequate, 12% surplus. Winter wheat harvested 54% complete, 92% 1992, 96% avg. Barley 5% poor, 25% fair, 44% good, 26% excellent. Oats 4% poor, 25% fair, 49% good, 22% excellent. Sugarbeets 2% poor, 15% fair, 58% good, 25% excellent. Second cutting alfalfa hay 52% complete, 84% 1992, 85% avg. Other hay 71% complete, 100% 1992, 100% avg. Pasture, range feed is rated at 104% of normal, up 5 points from last week.

NEBRASKA: Temperatures averaged 5° to 7° below normals. Precipitation varied from .2 in. west to 1.7 in. east, to an extreme of nearly 10 in. northeast.

Days suitable for fieldwork 4.1. Topsoil moisture 3% short, 82% adequate, 15% surplus. Subsoil moisture 88% adequate, 12% surplus. Soybeans 4% turning color, 14% 1992, 40% avg. Alfalfa 1% poor, 16% fair, 74% good, 9% excellent; 56% third cutting, 81% 1992. Dry beans 13% poor, 52% fair, 34% good, 1% excellent; 75% leaves turning, 31% leaves dropping, 10% harvested. Pasture, range 106% of normal.

NEVADA: Rainfall amounts ranged from 0.02 in. north central to over 0.50 in. extreme south. Temperatures little above normal. Extremes 28°; 113°.

Irrigation water supplies 5% very short, 25% short, 65% adequate. Garlic harvested 100%, 95% 1992, 95% avg. Onion harvest not started, 10% 1992, 5% avg. Alfalfa second cutting complete 95%, 95% 1992, 95% avg.; third cutting 20%, 45% 1992, 35% avg. Other hay harvested 90%, 95% 1992 90% avg. Alfalfa seed poor to fair; harvest complete 25%, 65% 1992 40% avg. Winter wheat harvested 100%, 100% 1992, 100% avg. Spring wheat harvested 80%, 90% 1992, 90% avg. Oats harvested 80%, 90% 1992, 90% avg. Barley harvested 95%, 100% 1992, 95% avg.

Pasture, range currently 96% of normal, 37% 1992, 55% avg. Stock water supplies 10% short, 90% adequate.

NEW ENGLAND: Precipitation 0.01 to 2.45 in. in region. Average temperatures 59 to 71 north; 70 to 77 south; maximum 73 to 90 north; 85 to 94 south; minimum 38 to 54 north; 52 to 65 south.

Days suitable for field work 6.0. Soil moisture 21% very short, 46% short, 29% adequate, 4% surplus. Available grazing 22% very short, 43% short, 35% adequate. Fieldwork progress 1 day behind schedule. Pasture condition 63% of normal. Maine early potato harvest 5%. Connecticut, Massachusetts potatoes 40% harvested, 40% 1992, 30% 5 year avg. Rhode Island potatoes 50% harvested, 30% 1992, 45% 5 year avg. Potato good regionwide. Maine oat good; harvested 60%, 40% 1992, 60% 5 year avg. Field corn fair to good; less than 5% harvested, 5% 1992, 5% 5 year avg. Second cutting hay 80% harvested, 80% 1992, 80% 5 year avg; condition good. Third cutting hay 35% harvested, 25% 1992, 45% 5 year avg. Shade tobacco 100% harvested, condition good. Outdoor tobacco 100% harvested, condition good. Sweet corn harvested 80%, 70% 1992, 80% 5 year avg; condition good. Apples 20% harvested, size medium, color good, condition good. Peaches 70% harvested, size medium, condition good. Pears 40% harvested, size medium, condition good. Raspberries 85% harvested, size medium, condition fair to good. Highbush blueberries 90% harvested, size medium, fair to good. Maine wild blueberries 100% harvested, fair. Cranberries size medium, condition good. Farm activities: Preparing for chopping corn, harvesting second cutting, some third cutting of hay, chopping haylage as weather permits. Picking vegetables for roadside stands. Early potato varieties harvested for processing. Harvesting tree fruits. Completed harvest of shade, broadleaf tobacco.

NEW JERSEY: Temperatures averaged much above normal. Extremes 50°; 98°. Rainfall avg. 1.08 in. north, 0.24 in. central, 0.12 in. south. Heaviest 24 hour total 1.58 in. on 3rd, 4th. Estimated soil moisture, in percent field capacity, avg. 51% north, 45% central, 35% south. Four inch soil temperatures avg. 75° north, 76° central, 78° south.

Soil moisture content is short on average. Rainfall is needed in most areas due to extreme condition dry during past week. Irrigation was being used on crops. Harvesting of peaches nearing completion. Apple harvest remains active. Fall planting of vegetables almost complete. Spraying of pesticides active. Pasture conditions averaged normal. Amount of feed requirements pastures are supplying is below average.

NEW MEXICO: Temperatures for the week averaged 2° to 5° below normal. Extremes 37°; 98°. Showery precipitation affected most areas sometime during the week, with several areas receiving over 1 in., but most locations totalling under 0.5 inches.

Days suitable for fieldwork 6.1. Soil moisture 51% short, 46% adequate, 3% surplus. Crop conditions: Alfalfa 6% poor, 22% fair, 69% good, 3% excellent; continued damage from showers. Corn 5% fair, 85% good, 10% excellent; silage harvest active. Chile 6% poor, 19% fair, 62% good, 13% excellent; green harvest active. Onion harvest near end; remaining crop good. Fall lettuce fair to good. Apple harvest active; 3% poor, 47% fair, 50% good. Pecans 2% poor, 22% fair, 76% good. Summer potato harvest near end; fall potato harvest increasing. Cattle, sheep poor to mostly good. Range feed 75% of normal.

NEW YORK: Very warm, wet week. Temperatures averaged 4° to 7° above normal. Extremes 44°; 95°. Most areas received 1 to 2 in. of rain. Less than 0.20 in. of rain was received in this area.

Days suitable for fieldwork 6.0. Soil moisture short to adequate, very short in southeast area. Pasture 74% of normal. Corn in fair to good. Hay in fair to good. Alfalfa second cutting 95% complete,

85% 1992, 92% avg. Third cutting 57% finished, 26% 1992, 35% avg. Oat harvest 84% complete, 58% 1992, 83% avg. Potato harvest gaining momentum. Dry beans showing effects of dryness. Lake Ontario fruit in good condition, although some hail damage experienced. Early varieties of apple being harvested. Bartlett pear harvest near completion. Early grape varieties being picked in Finger Lakes region. Bud damage noted. Vegetable harvests beginning to wind down. Onion harvest continued active. Pumpkin, melon crops in good condition.

NORTH CAROLINA: Daily average temperatures ranged from 5° to 8°F above normal. Precipitation totals ranged from 7.51 inches at Hatteras to no rain at some locations.

Days suitable for fieldwork 6.2. Soil moisture 43% very short, 43% short, 14% adequate. Crop condition: Pasture 11% very poor, 34% poor, 48% fair, 7% good. Field Tobacco 2% very poor, 11% poor, 52% fair, 35% good. Corn 17% very poor, 40% poor, 33% fair, 10% good. Hay 9% very poor, 34% poor, 45% fair, 12% good. Truck Crops 6% very poor, 11% poor, 56% fair, 27% good. Cotton 6% very poor, 10% poor, 78% fair, 6% good. Peanuts 6% very poor, 12% poor, 70% fair, 12% good. Soybeans 8% very poor, 20% poor, 55% fair, 17% good. Sweetpotatoes 16% poor, 68% fair, 16% good. Apples 4% poor, 64% fair, 32% good. Sorghum 2% very poor, 23% poor, 63% fair, 12% good. Hay, roughage supplies 7% very short, 43% short, 49% adequate, 1% surplus. Apples Harvested 17%, 11% 1992, 24% avg. Flue-Cured Tobacco Harvested 55%, 72% 1992, 69% avg. Burley Tobacco Harvested 15%, 25% 1992, 28% avg. Corn for Silage Harvested 60%, 45% 1992, 52% avg. Corn for Grain 20%, 10% 1992, 13% avg. Sorghum for Grain 14%, 9% 1992, 8% avg. Cotton Open Bolls 46%, 25% 1992, 39% avg. Corn Soft Dough 93%, 93% 1992, 97% avg. Corn Dented 91%, 90% 1992, 90% avg. Corn Mature 78%, 77% 1992, 77% avg. Soybeans Flowered 91%, 88% 1992, 88% avg. Soybeans Setting Pods 80%, 80% 1992, 73% avg. Second cutting of the Hay crop is 83% completed. Third cutting of the Hay crop is 45% completed. Major activities: Harvesting, marketing tobacco and harvesting corn for silage. Other activities included: Harvesting vegetables; harvesting apples; cutting hay; harvesting corn for grain; preparing land for fall plantings; tending livestock; general farm maintenance.

NORTH DAKOTA: Scattered showers, thunderstorms on, off throughout the week. Precipitation ranged from 0.27 in. in the southwest to 1.57 in. in the northeast. Temperatures ranged from 0° to 3° below normal. Extremes 34°; 85°.

Days suitable for fieldwork 4.9. Topsoil 6% short, 69% adequate, 25% surplus. Subsoil 2% short, 76% adequate, 22% surplus. Spring wheat 11% poor, 35% fair, 52% good, 2% excellent; durum 6% poor, 40% fair, 53% good, 1% excellent; barley 7% poor, 45% fair, 47% good, 1% excellent; oats 1% poor, 29% fair, 67% good, 3% excellent. Hard red spring wheat 38% harvested, 48% 1992, 88% avg. Durum wheat 12% harvested, 28% 1992, 80% avg. Oats 47% harvested, 73% 1992, 94% avg. Barley 65% harvested, 75% 1992, 95% avg. Winter wheat 83% harvested, 96% 1992, 100% avg. Corn for grain 11% very poor, 52% poor, 37% fair; corn for silage 3% very poor, 14% poor, 58% fair, 25% good; flax 2% poor, 23% fair, 66% good, 9% excellent; sugarbeets 12% poor, 20% fair, 68% good; potatoes 71% fair, 29% good; dry beans 19% poor, 63% fair, 18% good; soybeans 9% very poor, 10% poor, 61% fair, 20% good; sunflowers 5% poor, 59% fair, 36% good. Flax 4% harvested, 5% 1992, 38% avg. Corn for grain 7% denting to dented and beyond, 18% 1992, 65% avg. Corn for silage 1% cut, 2% 1992, 28% avg. Dry beans 15% mature and beyond, 35% 1992, 73% avg. Soybeans 2% mature and beyond, 1% 1992, 38% avg. Sunflowers 12% bracts turned yellow and beyond, 17% 1992, 56% avg. Potatoes 9% dug, 10%

1992, 10% avg. Range, pasture 4% of normal. Hay crop 81% of normal. Alfalfa hay second cutting 80% complete, other hay 85%.

OHIO: Hot weather started the week with highs in the 80s, 90s. A cold front on the 1st provided one day of relief but it took a second cold front on the 3rd to really usher in cooler, less humid air. Much-needed rain on the 2nd and 3rd. Temperatures in the low to mid 80s, 4 to 8° above normal. Average lows were 60° to the mid 60s. Base 50 growing degree days totaled 145 to 170 for the week. Rainfall was commonly 1 to 2 in. with up to 5 in. in some areas.

Days suitable for fieldwork 5.9. Topsoil moisture 74% short, 24% adequate, 2% surplus. Subsoil moisture short. Processing tomatoes harvested 48%, 32% 1992, 42% avg. Summer apples harvested 78%, 77% 1992, 80% avg. Potatoes harvested 35%, 28% 1992, 33% avg. Alfalfa 3rd cut harvested 75%, 48% 1992, 63% avg.; other hay 27%, 30% 1992, 34% avg. Corn harvested for silage 15%, 3% 1992, 17% avg. Pasture 21% very poor, 33% poor, 30% fair, 14% good, 2% excellent. Hay 9% very poor, 24% poor, 38% fair, 26% good, 3% excellent. High-moisture corn harvest began in central, south. Wet weather did not benefit the corn crop but may help fill soybean pods. Spider mite problems in the north. Tomatoes, potatoes smaller than normal. Early squash, pumpkin harvests anticipated. Rain helped sugarbeets considerably but continued rain is needed for development. Fruit crops rate good.

OKLAHOMA: Temperatures 1° below normal southeast district to 6° below normal southwest district. Precipitation 0.22 in. in the Panhandle to 2.04 in. in the west central district.

Days suitable for fieldwork 5.6. Topsoil moisture 46% short, 54% adequate. Subsoil moisture 52% short, 48% adequate. Corn 59% mature, 95% 1992, 74% avg.; 27% harvested, 20% 1992, 26% avg. Sorghum 24% fair, 75% good, 1% excellent; 96% heading, 90% 1992, 95% avg.; 53% milk-to-soft, 54% 1992, 64% avg.; 14% mature, 7% 1992, 7% avg. Soybeans 70% setting pods, 66% 1992, 70% avg.; 22% mature, 11% 1992, 7% avg.; 2% harvested, 0% 1992, 1% avg. Peanuts 1% poor, 10% fair, 89% good; 93% setting pods, 93% 1992, 94% avg.; 29% mature, 8% 1992, 16% avg. Cotton 74% fair, 19% good, 7% excellent; 12% open bolls, 8% 1992, 6% avg. Alfalfa 57% 4th cut, 60% 1992, 67% avg; 0% 5th cut, 2% 1992, 8% avg. Pastures 91% of normal. Cattle prices mixed. Marketings average.

OREGON: Temperatures normal to 5° above normal, except northeast corner 1 to 3° below normal. Precipitation dry statewide, except coast under 0.05 inch.

Soil moisture 15% short, 85% adequate. Winter wheat 96% harvested. Winter wheat 4% harvest. Barley 75% harvested. Winter grain harvest winding down, statewide. Spring grain harvest underway. Grass seed harvest, mint harvest winding down, hop harvest full swing; Willamette Valley. Haying activities continue, second, third cuttings; statewide. Willamette Valley snap beans, sweet corn harvest continued. Columbia Basin early potato, onion, carrot harvest continued. Malheur County potato, onion harvest continued. Cranberry development variable, irrigation adjusted to sustain crop development; southern coast. Evergreen blackberry harvest continued, prune, peach harvest winding down, hazelnut, walnut prospects look good, early apple, plum harvest continued; winter pears, major apple varieties harvest two weeks off; Willamette Valley. Bartlett pear harvest continues, Hood River, Medford districts. Anjou pear harvest expected, lower Hood River. Early apple harvest continued, Hood River, Milton-Freewater districts. Livestock good to excellent. Range, pasture conditions remain above normal both sides of Cascades Range, 106% of normal overall.

PENNSYLVANIA: Early in the week it was hot and humid. A cold front at the end of the week brought above normal

precipitation. Average temperature 12 to 80° above normal. Extremes 48°; 95°. Average precipitation 2.15 in., 1.31 in. above normal.

Days suitable for fieldwork 5. Soil moisture 66% short, 34% adequate. Ensilage corn harvested 11% complete, 5% 1992. Soybean crop 7% very poor, 8% poor, 28% fair, 45% good, 12% excellent. Wheat planted 12% complete, 10% 1992. Oats harvest 95% complete, 91% 1992. Barley planted 32% complete, 12% 1992. Tobacco harvest 54% complete, 37% 1992. Potato harvest 32% complete, 34% 1992. Second cutting alfalfa 100% complete, 92% 1992. Third cutting alfalfa 69% complete, 52% 1992. Fourth-cutting alfalfa 31% complete, 17% 1992. Second cutting clover-timothy 94% complete, 77% 1992. Quality of hay 13% poor, 43% fair, 44% good. Apple harvest 34% complete, 25% 1992. Peach harvest 91% complete, 69% 1992. Grapes harvest 24% complete, 18% 1992. Fall plowing 31% complete, 26% 1992. Activities: Making hay, filling silos; planting wheat, barley; harvesting corn silage; getting corn grain harvest equipment ready; plowing; cleaning, storing equipment; hauling manure; caring for livestock.

PUERTO RICO: Rainfall 1.08 in., 0.77 in. below normal. The highest weekly total rainfall was 3.69 in. at Pico Del Este followed by 3.03 in. at Paraseo, 3.00 in. at Humacao. Highest 24 hour total 1.60 in. at Humacao on 3th. WSFO San Juan Mean temperature was 83.1° is 1.1° above normal, total rainfall 1.14 in. which is 0.26 in. below normal. Island temperatures 80 to 81° on the coasts, 76 to 77° in the Interior with Mean station temperature 85.1° at Guayama to 68.2° at Pico Del Este. Extremes 59°;95°.

SOUTH CAROLINA: Statewide rainfall averaged 0.50 inches. Daily temperatures 5 to 7° above normal.

Days suitable for fieldwork 6.6. Soil moisture 56% very short, 34% short, 10% adequate. Corn very poor to poor; 90% mature, 99% 1992, 96% avg.; 51% harvested, 41% 1992, 42% avg. Sorghum very poor to poor; 31% harvested, 26% 1992, 25% avg. Soybeans 26% very poor, 31% poor, 36% fair, 7% good; 93% blooming, 96% 1992, 94% avg.; 70% setting pods, 80% 1992, 73% avg.; 3% leaves turning, 6% 1992, 5% avg. Cotton 40% very poor, 42% poor, 14% fair, 4% good; 41% open bolls, 33% 1992, 33% avg. Tobacco fair; 59% harvested, 87% 1992, 85% avg.; 12% stalks destroyed, 33% 1992, 22% avg. Cantaloupes poor to fair; 98% harvested, 94% 1992, 96% avg. Sweetpotatoes poor to fair; 10% harvested, 10% 1992, 15% avg. Fall Hay poor; 47% harvested, 60% 1992, 55% avg. Peaches poor; 92% harvested, 97% 1992, 98% avg. Apples poor to fair; 33% harvested, 24% 1992, 41% avg. Pasture condition poor.

SOUTH DAKOTA: Temperatures ranged from 5 to 10° below normal. Extremes 22°;91°. Rainfall was quite variable in amount, coverage. The northeast, south central, Black Hills received around 0.25 to 0.50 of an inch. Most of the west, central, southeast had less than a .25 of an inch. Maximum 1.35 inches.

Days suitable for fieldwork 5.3. Topsoil moisture 3% very short, 35% short, 49% adequate, 13% surplus. Subsoil moisture 1% very short, 19% short, 59% adequate, 21% surplus. Flax 3% very poor, 3% poor, 16% fair, 78% good. Sunflowers 3% poor, 12% fair, 70% good, 15% excellent. Barley 95% harvested, 96% 1992, 99% avg. Flax 44% harvested, 46% 1992, 81% avg. The small grains harvest was near complete. High moisture, scabbing were a problem in the spring wheat. Row crop progress varied but was generally slowed due to cool nights. Good progress was reported in the northeast. In the western two-thirds row crops could use some rain. Winter grains seeding had started, some farmers were waiting for a rain before planting. Livestock 2% fair, 73% good, 25% excellent. Pasture 93% of normal. Pinkeye, footrot in some areas. Haying made good progress.

TENNESSEE: Temperatures averaged near normal to 6° above normal. Highs ranged in the mid 80s to low 90s. Lows ranged in the mid 60s to low 70s. Rainfall averaged between 1.25 and 1.5 inch across much of the State.

Days suitable for fieldwork 6.1. Soil moisture 19% very short, 57% short, 24% adequate. Corn 91% dent stage, 92% 1992, 85% avg.; 40% mature, 42% 1992, 42% avg.; 3% grain harvested, 3% 1992, 5% avg.; 49% silage harvested, 33% 1992, 41% avg.; 2% very poor, 8% poor, 61% fair, 29% good. Cotton 40% open bolls, 11% 1992, 27% avg.; 54% fair, 46% good. Sorghum 90% turning color, 89% 1992, 79% avg.; 35% mature, 35% 1992, 30% avg.; 4% harvested, 5% 1992, 4% avg.; 1% poor, 45% fair, 54% good. Soybeans 89% setting pods, 90% 1992, 84% avg.; 5% dropping leaves, 5% 1992, 7% avg.; 9% poor, 39% fair, 50% good, 2% excellent. Tobacco 40% burley harvested, 59% 1992, 55% avg.; 43% dark air harvested, 61% 1992, 52% avg.; 47% dark fire harvested, 57% 1992, 52% avg.; 7% poor, 54% fair, 39% good. Cotton growers are winding down insecticide applications, some defoliants are being applied. Corn for grain and milo harvests are underway. Soybeans have improved in areas that got rain. Cooler temperatures are in sight, additional moisture would enhance pod fill. Crop improved tremendously with August rainfall.

TEXAS: Texas was influenced by a northwesterly flow last week. Temperatures slightly lower than in recent weeks, especially in High Plains. Slow-moving cold fronts kept a contrast between Panhandle, South Plains and North Texas. Temperatures across South Texas remain near normal levels. Stalled fronts set up showers in West Texas while rain in rest of State was very light. Precipitation totals were above normal for week in High Plains, Trans-Pecos. Colder air anchored over Panhandle kept temperatures somewhat lower there while departures were much smaller across rest of State. Rainfall totals were also below par across rest of State especially in Rice Belt area near Upper Coast.

Crops: Corn silage harvesting continued High Plains. Grain harvest on irrigated fields should start in couple of weeks. Harvest winding down in Coastal Bend, South Texas, South Central Texas, and along Upper Coast. Statewide condition 84% normal, 86% 1992. Cotton Some late harvested fields were still being shredded in Rio Grande Valley. Harvest winding down in Coastal Bend where conditions allowed. Producers were hampered by rains in applying defoliants, harvesting in Blacklands. Some Low Plains fields have been damaged by boll weevils. Statewide condition 76% normal, 61% 1992. Rice scattered thunderstorms slowed harvest along Upper Coast where yields appear to be below average for early varieties but late varieties look good. Rice condition 82% normal, 81% 1992. Grain Sorghum fields were turning color in High Plains where recent rains should benefit crop. Harvest continued in Edwards Plateau where conditions allowed. Harvest was virtually complete along Upper Coast. Statewide condition 78% normal, 82% 1992. Small grains: Rainfall slowed field work in Plains where producers were preparing land, fertilizing, planting seed; however, the moisture was gladly received. Many producers have been waiting for increased soil moisture before planting crop. Cooler, wet conditions should aid emergence of early planted fields. Peanuts producers applied fungicides in Northern Low Plains where harvest of some dry land fields should start soon. Irrigated fields in Low Plains made good progress and irrigation requirements remained high in Edwards Plateau, South Texas. Statewide condition 70% normal, 87% 1992. Soybeans rains could help some late planted fields in Blacklands where some fields continued to be baled for hay. Yields appear to be below normal along Upper Coast where harvest continued.

Commercial Vegetables, Peaches, and Pecans: Rio Grande Valley, land preparation for vegetable planting continued. San Antonio-Winter Garden, land preparation for fall vegetables continued. Some producers continued to plant cabbage. East Texas, sweet

potato harvest started. High Plains, harvest of cabbage, carrots, cucumbers, peppers, tomatoes, watermelons continued where conditions allowed. Good yields being reported for cabbage. Trans-Pecos, harvesting of peppers continued. Land preparation was active. Pecans producers preparing for harvest in South Texas. Irrigation continued where available. For some non-irrigated trees in Southern Low Plains rains came to late. Producers in Cross Timbers sprayed for weevils.

Range and Livestock: Range, pasture conditions should improve where rainfall occurred. Supplemental feeding continued. Ranchers prepared land for winter pastures along coast where conditions allowed. Hornflies increasing in Trans-Pecos. Sheep were being fed in Edwards Plateau, some ranchers were shearing sheep. Most livestock remain in good condition.

UTAH: Temperature maximums averaged 0.50° below normal. Precipitation was light to moderate across the southern portion of the State, light in Western division, zero precipitation for Northern Mountains, North Central, Uintah Basin.

Days suitable for fieldwork 6.7. Soil moisture 55% short, 45% adequate. Irrigation water supply 11% short, 89% adequate. Stock water supply 24% short, 76% adequate. Winter wheat harvested 92%; seeded 27%, 31% 1992, 26% avg. Spring wheat harvested 86%. Barley harvested 84%. Oats: harvested for grain 52%, 85% avg. Corn mature 7%, 28% 1992. Alfalfa hay 3rd cutting 49% complete, 70% 1992, 57% avg. Alfalfa seed harvested 42%, 40% 1992. Peaches picked 79%, 87% 1992, 65% avg. Apples picked 8%, 25% 1992. Pears 67%, 83% 1992. Potatoes harvested 15%, 35% 1992. Onions harvested 14%, 39% 1992. Cattle moved from summer range 7%, 21% 1992. Sheep moved from summer range 6%, 15% 1992. Pasture, range good to excellent.

VIRGINIA: Temperatures averaged 8 to 10° above normal. Extremes 58°;103°. Precipitation variable ranging 1.84 in.

Days suitable for fieldwork 6.2. Topsoil moisture was 59% very short, 29% short and 12% adequate. Pasture condition 38% very poor, 36% poor, 19% fair, 7% good. Alfalfa 10% very poor, 27% poor, 51% fair, 12% good. Other hay 25% very poor, 41% poor, 31% fair and 3% good. Corn in dough stage 95%, 97% 1992, 92% avg. Corn dented 74%, 75% 1992, 72% avg. Corn mature 55%, 60% 1992, 58% avg. Corn silage harvested 34%, 33% 1992, 34% avg. Corn harvested for grain 15%, 7% 1992, 11% avg. Corn 31% very poor, 23% poor, 39% fair and 7% good. Peanut 29% very poor and 71% poor. Soybeans blooming 95%, 93% 1992, 94% avg. Soybeans setting pods 80%, 77% 1992, 74% avg. Soybean 16% very poor, 62% poor, 21% fair and 1% good. All tobacco 1% very poor, 17% poor, 59% fair and 23% good. Flue tobacco 51% harvested, 57% 1992, 56% avg. Fire tobacco 51% harvested, 76% 1992, 75% avg. Sun tobacco 55% harvested, 70% 1992, 58% avg. Burley tobacco 10% harvested, 35% 1992, 40% avg. Cotton 18% very poor, 27% poor, 37% fair and 18% good. Apples 11% poor, 42% fair, 42% good, 5% excellent. Summer apple harvest 83% completed. Fruit size reported smaller than normal. Sweetpotato harvest just beginning. Livestock condition mostly fair to good. Harvesting hay, corn silage. Spider mites reported heavy in several counties on peanuts.

WASHINGTON: Temperatures 2° below normal to 4° above normal west; 4° below normal to 4° above normal east. No precipitation west; none to .08 in. east.

Days suitable for fieldwork averaged 7.0. Soil moisture 15% short, 85% adequate. Irrigation water supply 19% short, 81% adequate. Hay, other roughage 7% short, 81% adequate, 12% surplus. Range, pasture 15% poor, 42% fair, 31% good, 12%

excellent. Winter wheat dryland 90% good, 10% excellent; irrigated 100% good. Spring wheat dryland 5% fair, 85% good, 10% excellent; irrigated 100% good. Barley dryland 90% good, 10% excellent; irrigated 100% good. Potatoes 100% good. Warm, dry week prompted flurry of ag activity. Grain harvest near complete; quality, yields good to excellent. Apple harvest underway for early red delicious varieties. Hay cutting active. Mint, potato, hop, vegetable harvests progressing under near ideal conditions. Pastures, ranges drying; irrigation water supplies limited in some areas.

WEST VIRGINIA: Temperature 76°. Extremes 54°; 99°. Precipitation 1.63 inches.

Days suitable for fieldwork, 5.2. Soil moisture, 52% very short, 41% short, 7% adequate. Tobacco, 1% poor, 27% fair, 72% good; 97% topped, 18% harvested. Hay, 12% very poor, 43% poor, 27% fair, 18% good; 77% 2nd cut, 60% 3rd cut. Pastures, 24% very poor, 38% poor, 23% fair, 15% good; 57% of normal. Gardens, 45% poor, 36% fair, 19% good. Cattle, 10% poor, 20% fair, 70% good. Sheep, 35% fair, 65% good. Apples, poor to fair. Corn, 8% very poor, 8% poor, 79% fair, 5% good; 100% silked, 93% dough stage. Soybeans, 10% fair, 90% good; 99% setting pods. Farm activities: Moving livestock, feeding livestock, cutting hay, harvesting tobacco, harvesting apples, general maintenance.

WISCONSIN: Near normal temperatures, rainfall last week has crops moving along nicely, but a couple more weeks of hot weather is needed. Temperature 2 to 62° below normal. Extremes 34°; 91°. Precipitation 0.30 to 0.90 inches.

Days suitable for fieldwork: 5.0. Soil moisture: 6% short, 74% adequate, 20% surplus. Pasture condition 86% of normal, 68% 1992. General condition of crops: 3% poor, 36% fair, 60% good, 1% excellent. Oats 85% harvested, 81% 1992. Corn 1% very poor, 4% poor, 44% fair, 48% good, 3% excellent; dough 57% in dough, 45% 1992; dent 17% in dent, 10% 1992; mature 2%, 1% 1992. Soybean 1% poor, 21% fair, 68% good, 10% excellent; acreage with leaves turned 11% 1993, 9% 1992. 3rd cut alfalfa 35% harvested, 43% 1992. Small grain, hay harvesting continue this past week. Pasture conditions continue to be above average. Comments from ag agents, farmers have indicated that the general condition of all crops is good. However, for some crops to reach full development, a frost in early to mid October is needed. Farmers continue to have problems getting their alfalfa dry because of the lack of good drying weather. Reporters have indicated the corn looks good, but needs more time. Oats harvest is coming to an end. Yields are being reported average at best, with weeds being a major problem. Weather conditions are making it difficult to dry the straw. Tobacco harvesting is in full swing with a lot of variability in the fields. Cabbage harvest continues to be active.

WYOMING: Temperatures were below normal across the entire State ranging from 2° below normal in Evanston to 11° below normal in Powell. Precipitation was scarce except for a few spots in the Southeast which received around a quarter of an inch.

Days suitable for fieldwork 5.7 days. Topsoil moisture 22% short, 75% adequate, 3% surplus. Spring wheat 34% harvested, 76% 1992, 90% avg. Oats 40% harvested, 77% 1992, 83% avg. Barley 69% harvested, 84% 1992, 86% avg. Winter wheat 90% harvested, 98% 1992, 100% avg. Winter wheat planted for harvest in 1994 24%, 18% 1992, 29% avg. Corn dented 6%, 26% 1992, 36% avg. Dry beans with leaves turning color 72%, 100% 1992, 90% avg. Alfalfa 2nd cutting completed 71%, 79% 1992, 86% avg. Alfalfa 3rd cutting completed 4%, 16% 1992, 19% avg. Other hay harvested 95%. Light frost damage reported in about 20% of the State. Severe damage reported in Teton county, moderate damage reported in Natrona, Lincoln counties.

August 1993

MONTHLY DATA FROM SELECTED FOREIGN CITIES
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
*** = DATA NOT AVAILABLEInternational Weather and Crop Summary
HIGHLIGHTS

August 29 - September 4, 1993

FSU: Widespread light to moderate rain slowed winter grain planting in Russia and summer crop harvesting in Ukraine. In the **New Lands**, unseasonably cool, damp weather slowed spring grain maturation and harvest.

EUROPE: Dryness favored harvesting in the west. Intermittent rain slowed grain and sugar beet harvesting in the east.

SOUTH ASIA: A late surge in the monsoon brought heavy showers to most primary crop areas. The exception was Gujarat, where rainfed crops deteriorated.

SOUTHEAST ASIA: Heavy showers, with some local flooding, covered Indochina's rice regions.

EASTERN ASIA: Typhoon Yancy hit southern Japan with strong winds and heavy rains, causing additional flooding. Dry weather favored maturing summer grains across northern China.

AUSTRALIA: Rains continued to benefit winter wheat across eastern and southern Australia.

SOUTH AMERICA: Showers replenished topsoil moisture for winter wheat in Argentina.

CANADA: Scattered frost hit western Manitoba, but the Prairies avoided a killing freeze. Showers hampered spring wheat harvests.

MEXICO: Heavy showers persisted along the western coast. Moisture remained favorable for filling corn across the main corn belt.

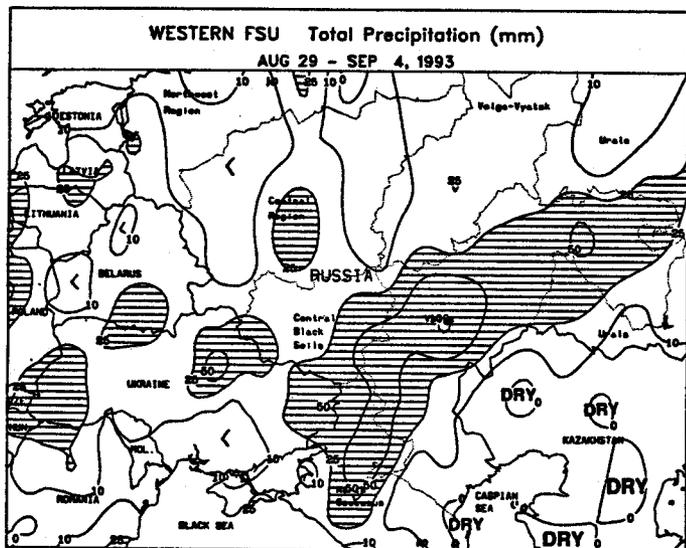
COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI	LO	AVG	DPART F/NRM	TOTAL	DPART F/NRM
NORWAY	OSLO	17	8	21	3	12	-1.6	124	35
SWEDEN	STOCKHOLM	18	11	22	5	14	-1.8	135	70
FINLND	HELSINKI	18	10	23	6	14	-1.2	126	46
U KING	GLASGOW	18	9	23	2	14	-1.8	57	-34
	EDINBURGH	18	10	24	4	14	-0.7	53	-12
	BIRMINGHAM	19	10	26	3	14	-1.2	36	-31
	LONDON	21	10	26	4	16	-0.9	33	-23
IRELND	DUBLIN	18	11	21	6	15	-0.4	36	-35
ICELND	REYKJAVIK	12	7	15	4	10	-0.7	56	-6
DENMRK	COPENHAGEN	19	11	22	7	15	-2.5	65	-1
LUXEMB	LUXEMBOURG	22	11	28	6	17	0.0	23	-49
SWITZL	ZURICH	23	13	30	2	18	1.1	108	-29
	GENEVA	26	14	32	6	20	1.8	67	-14
FRANCE	PARIS/ORLY	25	12	31	7	18	***	4	**
	STRASBOURG	25	12	32	5	19	0.4	31	-37
	BOURGES	25	13	33	6	19	0.6	23	-37
	BORDEAUX	27	15	35	9	21	1.6	29	-25
	TOULOUSE	27	16	34	8	22	1.1	82	35
	MARSEILLE	31	20	35	14	25	2.2	14	-14
SPAIN	VALLADOLID	31	14	39	8	22	1.4	11	-1
	MADRID	32	17	41	10	25	0.7	7	-3
	SEVILLE	35	21	42	15	28	-0.2	0	-4
PORTUG	LISBON	28	18	37	15	23	0.5	0	-7
GERMNY	HAMBURG	19	11	25	6	15	-1.4	83	14
	BERLIN	21	13	30	8	17	-1.3	33	-28
	DUSSELDORF	21	11	26	5	16	-1.7	27	-51
	LEIPZIG	22	12	30	7	17	-0.9	35	-24
	DRESDEN	22	13	31	7	17	-0.6	56	-16
	STUTTGART	23	12	32	6	18	0.7	73	-26
	NURNBERG	24	12	32	3	18	0.1	32	-34
AUSTRI	VIENNA	26	14	34	7	20	0.5	53	-9
	INNSBRUCK	24	13	31	4	18	1.0	111	-8
CZECH	PRAGUE	23	11	32	6	17	0.1	39	-30
POLAND	WARSAW	23	11	34	5	17	-0.5	35	-26
	LODZ	22	11	33	2	17	0.0	51	-17
	KATOWICE	23	11	32	4	17	0.4	40	-51
	PRZEMYSL	22	12	30	7	17	0.0	58	-19
HUNGAR	BUDAPEST	28	16	35	9	22	1.6	14	-38
F YUGO	BELGRADE	31	19	37	12	25	3.4	9	-45
ROMANI	BUCHAREST	29	14	39	6	22	-0.5	29	-23
BULGAR	SOFIA	30	16	38	8	23	4.4	13	-25
ITALY	MILAN	30	19	34	13	24	2.4	31	-62
	VERONA	32	19	36	12	25	2.2	38	-54
	VENICE	30	19	33	14	25	2.1	18	-64
	GENOA	28	22	33	17	25	0.7	36	-18
	ROME	30	20	33	13	25	1.2	0	-31
	NAPLES	32	21	36	15	26	2.4	0	-44
GREECE	THESSALONIKA	32	19	40	15	26	-0.2	1	-20
	LARISSA	34	17	41	13	26	-0.4	3	-13
	ATHENS	33	23	40	21	28	0.7	0	-4
TURKEY	ISTANBUL	29	20	33	16	25	1.3	4	-17
	ANKARA	29	12	34	9	21	-2.6	11	-26
CYPRUS	LARNACA	33	22	36	20	28	0.1	0	-1
ESTONI	TALLINN	17	11	23	5	14	-1.1	104	27
FSU	ST. PETERSBURG	18	12	26	6	15	-1.0	159	80
LITHUA	KAUNAS	19	11	29	4	15	-1.0	140	74
FSU	MINSK	21	11	27	6	16	-0.9	48	-26
	KAZAN	21	12	29	6	16	-0.8	45	-24
	MOSCOW	20	12	27	7	16	-0.3	130	56
	YEKATERINBURG	21	13	27	5	17	1.3	97	32
	OMSK	23	13	31	7	18	2.0	72	18
	KUSTANAY	25	13	33	7	19	1.3	33	1
	KRASNOYARSK	21	11	28	1	16	0.7	58	-6
	NOVOSIBIRSK	22	12	29	4	17	1.2	72	19
	BARNAUL	23	13	31	7	18	1.5	45	-7
	KHABAROVSK	24	14	33	6	19	-0.1	157	9
	VLADIVOSTOK	20	16	25	13	18	-1.3	292	136
	KIEV	22	13	29	9	18	-0.7	55	-16
	LVOV	22	12	28	6	17	-0.3	71	-4
	KIROVOGRAD	25	13	33	7	19	-1.5	20	-24

Based on Preliminary Reports

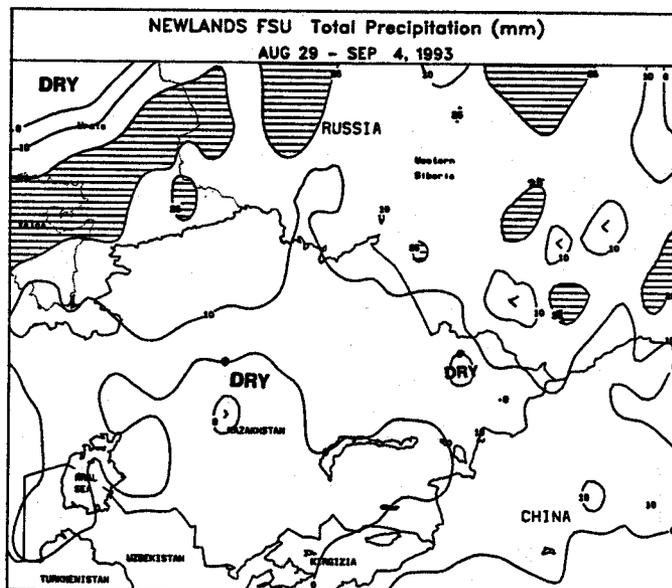
August 1993

COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)			DPART F/NRM			
		AVG	AVG	HI	LO	DPART	AVG	AVG	HI		LO	DPART	DPART
		MAX	MIN	MAX	MIN	AVG	F/NRM	TOTAL	F/NRM				
FSU	ODESSA	26	17	31	13	22	0.5	4	-30				
	YALTA	28	20	33	14	24	0.5	26	0				
	VORONEZH	22	12	30	6	17	-1.4	56	1				
	SARATOV	23	15	30	9	19	0.5	58	17				
	KHARKOV	23	14	30	7	19	-0.7	122	45				
	VOLGOGRAD	26	15	34	8	20	-2.0	52	22				
	ROSTOV	27	17	32	10	22	-0.2	58	22				
	ASTRAKHAN	30	18	36	12	24	0.6	47	28				
	KRASNODAR	29	16	33	11	23	-0.4	5	-50				
	ORENBURG	26	14	34	7	20	0.1	54	22				
	TSELINOGRAD	24	14	32	8	19	1.5	8	-26				
	KARAGANDA	24	13	33	6	18	0.7	15	-17				
	TBILISI	30	19	34	11	25	0.7	81	35				
	TASHKENT	33	17	36	13	25	-0.6	4	2				
	ASHKHABAD	36	19	40	15	28	-1.2	9	8				
SYRIA	DAMASCUS	37	15	41	10	26	-0.2	0	0				
	JERUSALEM	31	18	38	15	24	1.2	0	0				
ISRAEL	JERUSALEM	31	18	38	15	24	1.2	0	0				
PAKIST	KARACHI	33	28	37	26	30	1.4	0	-64				
INDIA	AMRITSAR	37	26	39	24	31	1.7	21	-158				
	NEW DELHI	36	28	38	24	32	2.1	146	-109				
	AHMEDABAD	34	26	36	25	30	1.9	67	-184				
	INDORE	29	22	34	21	26	0.5	233	-80				
	CALCUTTA	32	26	34	25	29	0.2	358	70				
	VERAVAL	31	27	32	25	29	1.6	10	-168				
	BOMBAY	30	26	32	24	28	1.1	383	-278				
	POONA	28	21	30	10	24	-0.1	59	-65				
	BEGAMPET	30	22	32	20	26	-0.1	182	22				
	VISHAKHAPATNAM	32	27	37	24	29	***	191	**				
	MADRAS	34	25	37	23	30	-0.1	224	68				
	MANGALORE	29	23	30	22	26	0.1	604	27				
	H KONG	KINGS PEAK	31	26	33	25	29	***	170	**			
		PYONGYANG	25	17	28	11	21	-3.4	125	-107			
	S KREA	SEOUL	28	20	31	16	24	-1.7	214	-10			
SAPPORO		24	17	30	13	21	-1.0	55	-91				
JAPAN	NAGOYA	29	23	33	19	26	-1.4	170	24				
	TOKYO	28	23	33	19	25	-1.8	233	85				
	YOKOHAMA	28	22	33	18	25	-1.3	229	97				
	KYOTO	30	23	36	18	26	-1.1	356	180				
	OSAKA	31	24	35	20	27	-1.2	182	87				
	THAILN	PHETCHABUN	32	24	36	23	28	0.8	128	-70			
		BANGKOK	33	25	35	23	29	0.3	473	276			
	MALAYS	KUALA LUMPUR	32	24	34	21	28	1.3	115	-22			
		HANOI	33	27	37	23	30	1.7	343	0			
	VIETNM	HARBIN	25	15	28	7	20	-1.4	150	46			
		HAMI	31	15	36	9	23	-2.1	11	6			
	CHINA	LANCHOW	25	15	33	9	20	-1.0	91	17			
		BEIJING	30	21	34	17	25	0.7	86	-95			
		TIENTSIN	31	21	34	18	26	-0.3	94	-65			
		LHASA	21	11	25	7	16	0.8	130	-2			
KUNMING		24	18	27	13	21	1.5	142	-62				
CHENGCHOW		29	21	35	16	25	-0.3	98	-15				
YEHCHANG		29	23	37	18	26	-1.4	160	-24				
HANKOW		30	24	40	19	27	-1.5	122	-5				
CHUNGKING		29	23	36	20	26	***	162	**				
CHIHKIANG		29	23	34	19	26	-1.0	76	-42				
WU HU		29	23	35	19	26	***	138	**				
SHANGHAI		29	24	34	20	26	***	375	**				
NANCHANG		32	25	36	20	28	-0.7	225	126				
TAIPEI		33	26	35	25	29	1.4	204	-81				
CANTON		33	26	36	24	30	1.3	120	-88				
NANNING	33	26	35	24	30	1.1	246	29					
CNRY I	LAS PALMAS	27	21	30	19	24	-0.1	0	0				
	MOROCC	25	20	28	17	23	0.2	0	-1				
MARRAKECH	MARRAKECH	35	20	43	16	28	0.0	0	-2				
	ALGER	32	21	38	16	26	1.3	1	-2				
ALGERI	BATNA	34	**	38	**	**	***	5	-15				
	TUNIS	34	22	42	17	28	1.3	0	-7				
NIGER	NIAMEY	33	24	37	20	29	0.7	124	-42				
MALI	TIMBUKTU	37	26	45	22	32	1.0	62	-1				
BAMAKO	BAMAKO	31	22	35	18	26	0.6	223	-57				
	NOUAKCHOTT	**	25	40	20	**	***	62	33				
SENEGL	DAKAR	31	25	32	21	28	0.7	94	-68				
CHAG A	DIEGO GARCIA	28	25	29	24	26	0.3	53	-131				
LIBYA	TRIPOLI	36	21	42	16	28	2.2	0	0				
	BENGHAZI	31	22	39	18	26	-0.3	0	0				
EGYPT	CAIRO	35	23	38	20	29	0.6	0	0				
	ASWAN	42	27	46	24	34	1.2	0	0				
ETHIOP	ADDIS ABABA	21	11	24	9	16	0.4	333	69				

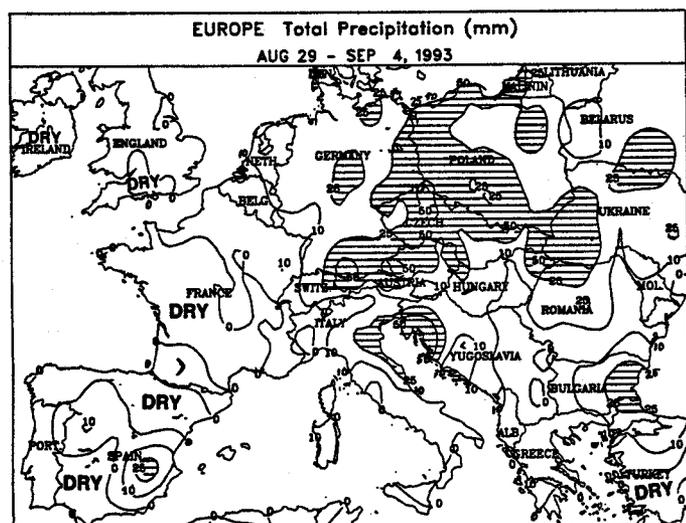
Based on Preliminary Reports



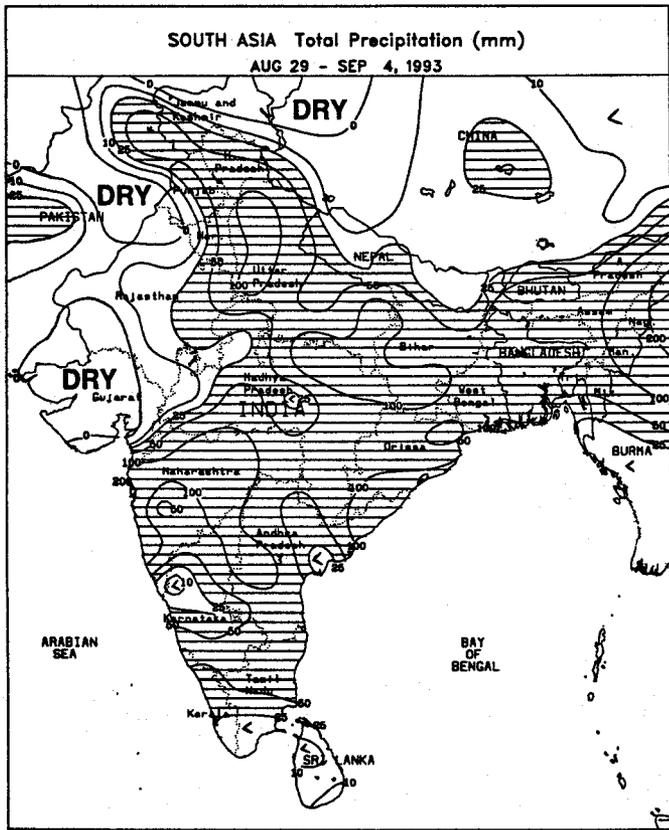
FSU-WESTERN: Two storm systems produced widespread rain over the region. Both storms moved northeastward from Ukraine, through the Volga Valley, into the Urals. This past week's rain slowed final spring grain harvest efforts and winter grain planting. Precipitation amounts varied, with crop areas in the Baltic States, Belarus, southern Ukraine, northern Black Soils Region, Central Region, and Volga Vyatsk receiving 10-30 mm of rain, with local amounts in excess of 40 mm. Greatest amounts of rain (25-50 mm, with local amounts in excess of 50 mm) soaked crop areas in extreme eastern Ukraine, southern Black Soils Region, North Caucasus, and Volga Valley. Usually winter grain planting extends as far south as the northern Ukraine and lower Volga Valley. Although corn and sunflower harvests were underway in southern Ukraine and North Caucasus, progress was delayed by cool, wet weather. Weekly average temperatures were 2-4 degrees Celsius (C) below normal over the region, slowing summer crop development.



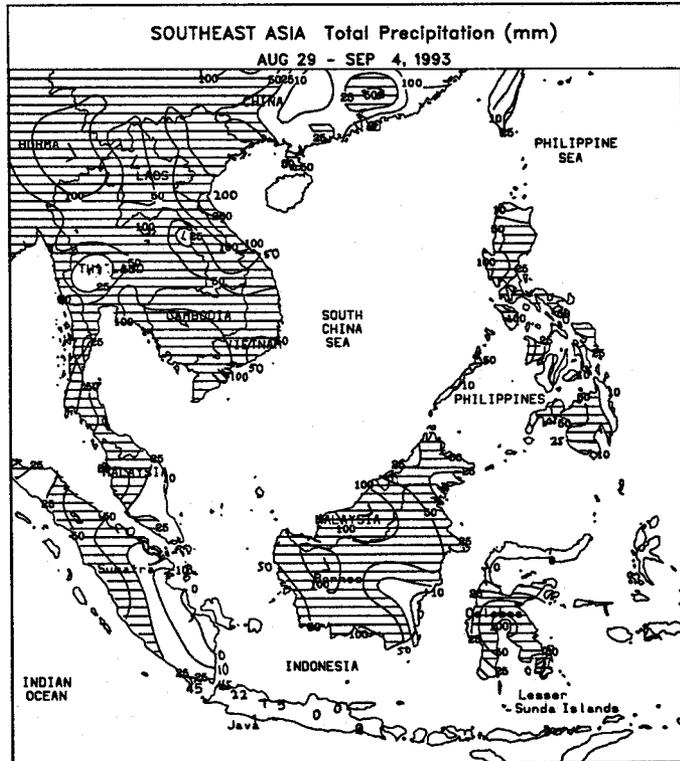
FSU-NEW LANDS: The combination of dampness and unseasonably cool weather in Kazakhstan, Urals, and Western Siberia slowed crop maturation and harvest. Intermittent rain covered spring grains. Rainfall amounts generally ranged from 10 to 25 mm in Kazakhstan and Western Siberia, with the greatest amounts of moisture (18-40 mm) falling over the Urals. As of August 30, reports indicated about 57 percent of spring grains (excluding corn) and pulses were harvested over all of Russia. The bulk of spring grains grown in the New Lands still remained to be harvested, however. Weekly average temperatures were 3-5 degrees Celsius (C) below normal in the west and 1-3 degrees Celsius (C) below normal in the east. Localized frost over the region had little, if any, impact on maturing spring grains.



EUROPE: Dry weather prevailed from the Iberian Peninsula to the United Kingdom, promoting the grain harvest in the northwestern portion of Europe. Dryness also favored maturing corn in France, with the harvest season beginning soon. Light rain (mostly less than 5 mm) caused little fieldwork delay over most of Italy and Greece as well. However, lingering storminess for much of the week dampened fieldwork over central and northeastern European crop areas. Intermittent showers slowed spring grain and sugar beet harvesting in Germany, Poland, and the Czech Republic. Rainfall totaled 25-82 mm from southern Germany to eastern Poland. Elsewhere, rainfall averaged 10-25 mm from northern Germany to northern Romania. More variable rainfall (4-20 mm) was scattered over southern Hungary and Bulgaria, although heavier showers (25-55 mm) fell in far eastern Bulgaria. Corn is nearly mature in Hungary and Romania. Showers (10-22 mm) also covered most of Scandinavia's crop areas, with heavier rain (25-42 mm) hampering harvest progress in southern Sweden. Temperatures generally averaged 1-2 degrees Celsius (C) below normal in western Europe and 3-5 degrees Celsius (C) below normal in the east.

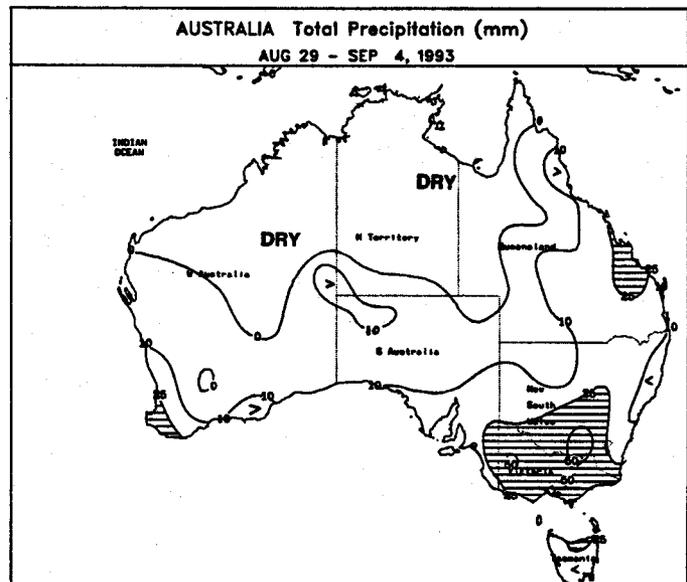


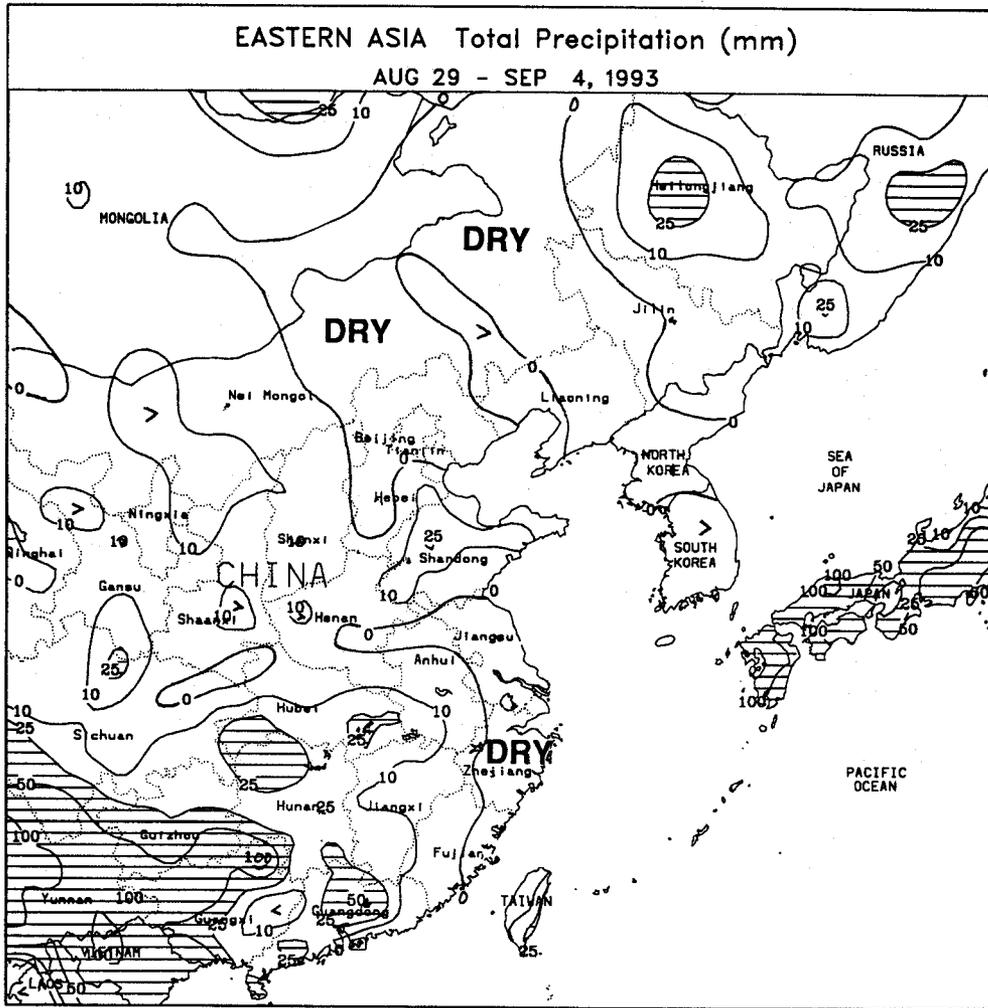
SOUTH ASIA: A late surge in the monsoon brought moderate to heavy rain (50-100 mm) to many crop regions of central, southern, and eastern India, and Bangladesh. In the northwest, showers (25-122 mm) spread from western Uttar Pradesh to northern Pakistan, aiding immature crops and increasing irrigation reserves for upcoming winter grain and oilseed plantings. However, mostly dry, warm weather persisted in primary rainfed oilseed and cotton regions of Gujarat and sections of western Madhya Pradesh. Gujarat's cotton, stressed by unfavorably warm, dry conditions since late-July, usually flowers in September and October, leaving only a few weeks to gain needed rainfall.



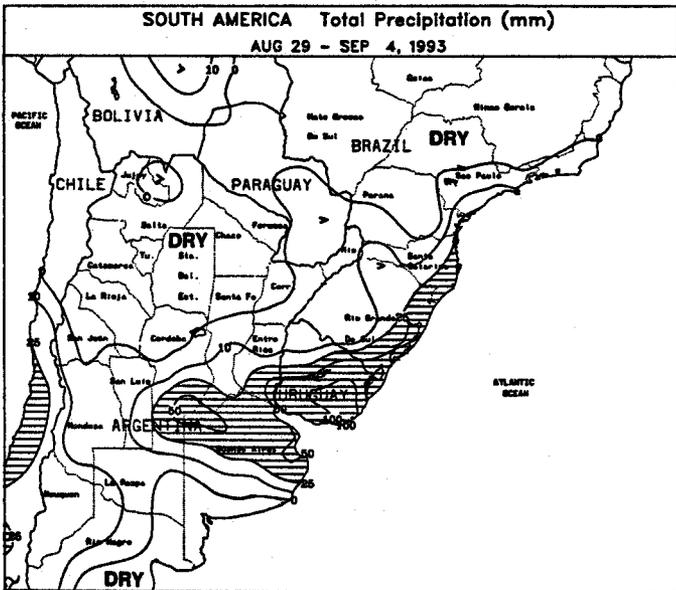
SOUTHEAST ASIA: Tropical Storm Winona hit north-central Vietnam with sustained winds of only 35 knots, bringing locally inundating rains (100-300 mm) to rice areas. However, the storm brought needed rain (38-99 mm) to most central and northern rice areas. Heavy showers (50-161 mm), partly from the remnants of Winona, fell over northern Thailand, boosting moisture for immature rice and helping reservoirs. Heavy rain also fell from Bangkok to the Mekong Delta. Variable showers covered Peninsular Thailand and Malaysia, although light rain (25 mm or less) covered many primary oil palm areas. In the Philippines, moderate to heavy showers (25-50 mm) were scattered throughout the islands, benefiting local grain and sugarcane.

AUSTRALIA: Light to moderate rain (8-18 mm) fell across southern Queensland and northern New South Wales, aiding vegetative to early reproductive winter wheat. Heavier rain (13-50 mm) benefited vegetative wheat across central New South Wales into Victoria. Light rain (5-15 mm) favored wheat across Western and South Australia. Temperatures averaged 2-3 degrees C above normal in the east and 2-3 degrees C below normal in the west.

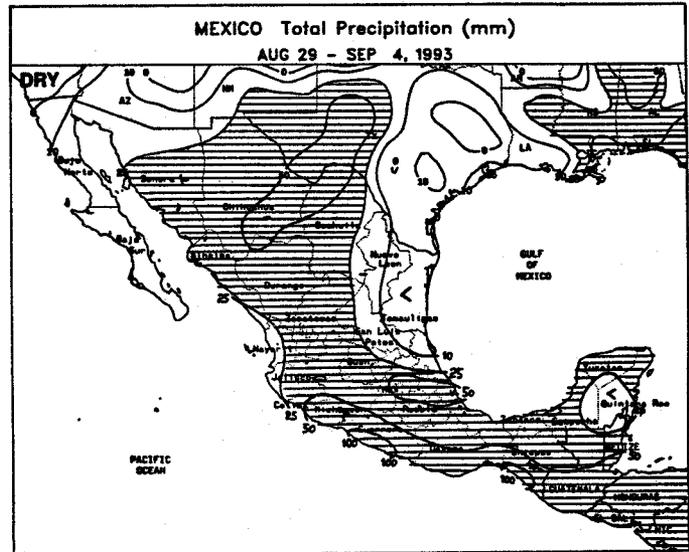




EASTERN ASIA: Typhoon Yancy hit southern Japan on September 3, bringing strong winds and heavy rain (50-130 mm, with isolated amounts greater than 150 mm) which damaged rice, sugarcane, and citrus. The storm produced sustained winds of 125-135 mph as Yancy crossed the southeastern corner of Kyushu Island. Sustained winds were still near 100 mph as it passed between Shikoku Island and the main island of Honshu. Yancy was the fifth typhoon to hit southern Japan since late July. In China, mostly dry weather from central Manchuria, into the North China Plain, favored maturing summer grains and early harvesting. Central and southwestern China received moderate to heavy rains (20-100 mm), favoring late double-crop rice and sugarcane. However, these rains delayed summer crop harvesting across the region. Temperatures averaged 1-3 degrees C below normal across central China and near normal elsewhere.

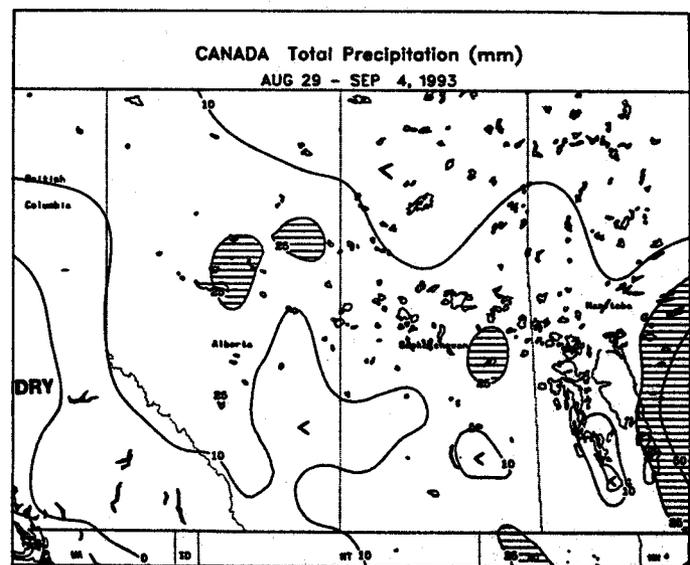


SOUTH AMERICA: In Argentina, light to moderate showers (10-50 mm) covered northern Buenos Aires, southern Cordoba, and southern Santa Fe, increasing topsoil moisture for vegetative winter wheat. Cooler weather prevailed across the region (1-3 degrees C below normal), keeping evaporation rates low. Light showers (5-20 mm) fell across southern Brazil, favoring reproductive to filling winter wheat. Temperatures averaged 2-4 degrees C above normal across Sao Paulo and Minas Gerais, but near normal across the south. Heavy rain (25-125 mm) caused localized flooding in Uruguay.



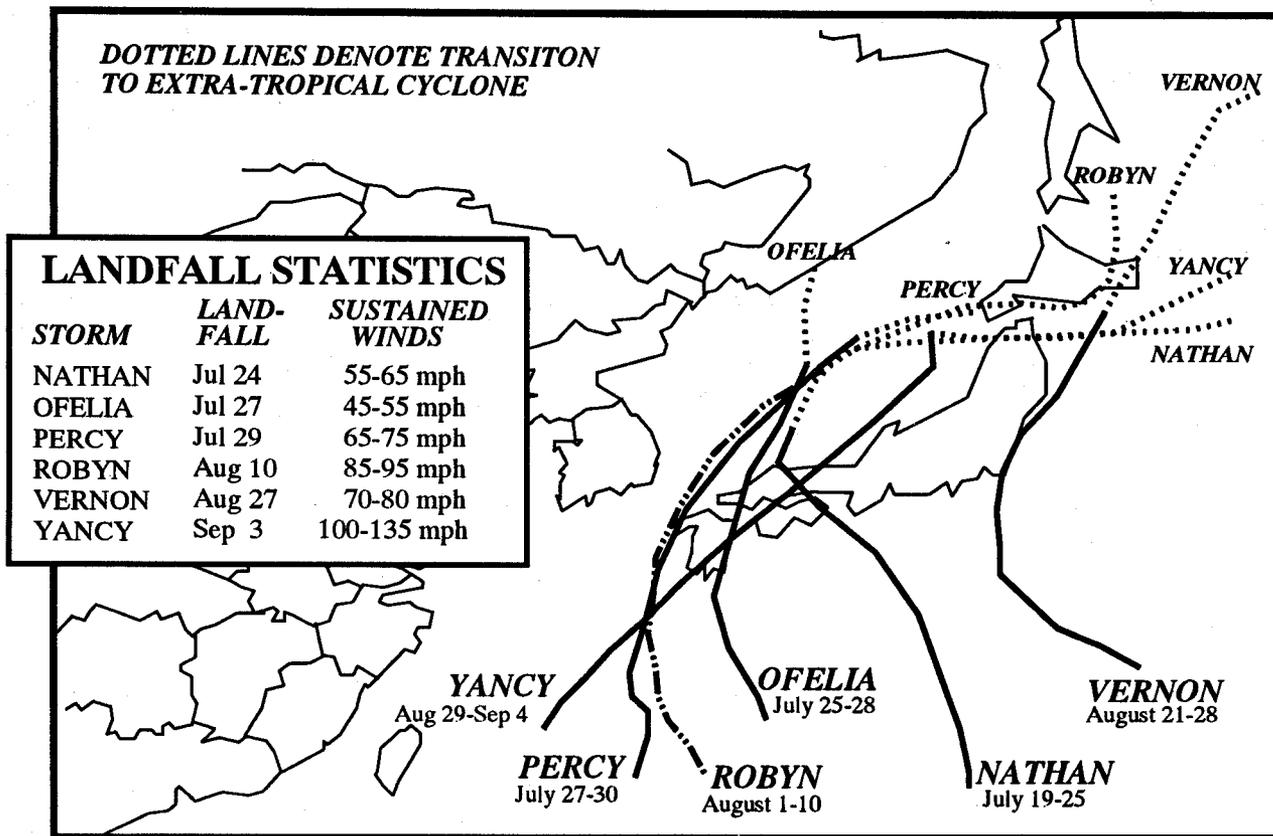
MEXICO: Hurricane Jova stayed offshore of western Mexico, but still produced moderate to heavy showers (50-100 mm, with isolated heavier amounts) along the coast from Michoacan to Jalisco States. The Southern Plateau Corn Belt received moderate showers (25-50 mm), favoring filling corn. Tropical moisture spurred scattered showers (20-40 mm) across northwestern and north-central Mexico, favoring reservoirs and pastures.

CANADA: Temperatures dipped below 5 degrees C at many locations across the Prairies, with frost occurring for the first time in sections of western Manitoba. While scattered frost will cause some damage to filling grains and oilseeds, a hard freeze (-2 degrees C) is generally required to end crop development. Light to moderate rain (10-25 mm) covered the Prairies, hampering fieldwork across the south. Wet, cloudy conditions, which caused this year's late, potentially lower quality crop, are currently holding minimum temperatures above freezing levels. In Ontario, showers (6-30 mm) and seasonably mild weather benefited immature summer crops.



TROPICAL CYCLONES AFFECTING JAPAN

July 19 to Sep 4, 1993



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(Continued from front cover)

miles offshore, wind gusts as high as 132 mph were clocked. Between the hurricane and the cold front, a late-summer heatwave resulted in 40 daily record highs. Records included readings of 100°F in Chattanooga, TN on Sunday, 101°F in Columbia, SC on Tuesday, and 100°F in Newark, NJ on Friday. Meanwhile, a dozen daily record lows were established in the Nation's northwestern quadrant, including Tuesday readings of 30°F in Anaconda, MT and 32°F in Pocatello, ID. Between contrasting airmasses, rainfall exceeded 2 inches from west-central Texas to western New England. More than 4 inches deluged Muskegon, MI and Sioux City, IA, while 3 inches or more pelted locations such as Des Moines, IA, Peoria, IL, South Bend, IN, and Columbia, MO. In San Antonio, TX, 0.02 inches of rain on August 29 ended a 63-day spell without measurable precipitation.

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