

WEEKLY WEATHER AND CROP BULLETIN

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

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

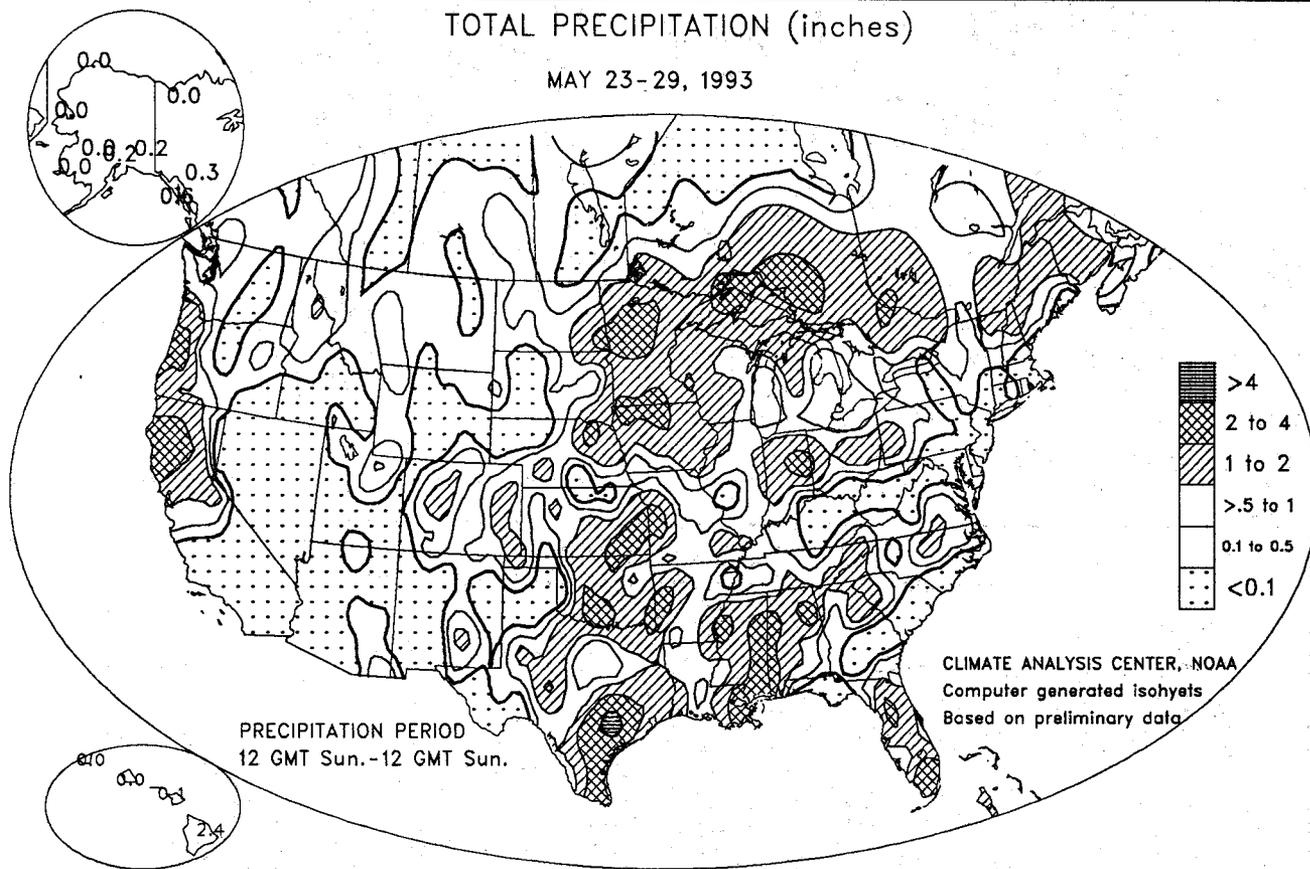
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Washington, D.C.

June 2, 1993

TOTAL PRECIPITATION (inches)

MAY 23-29, 1993



HIGHLIGHTS

May 23 - 29, 1993

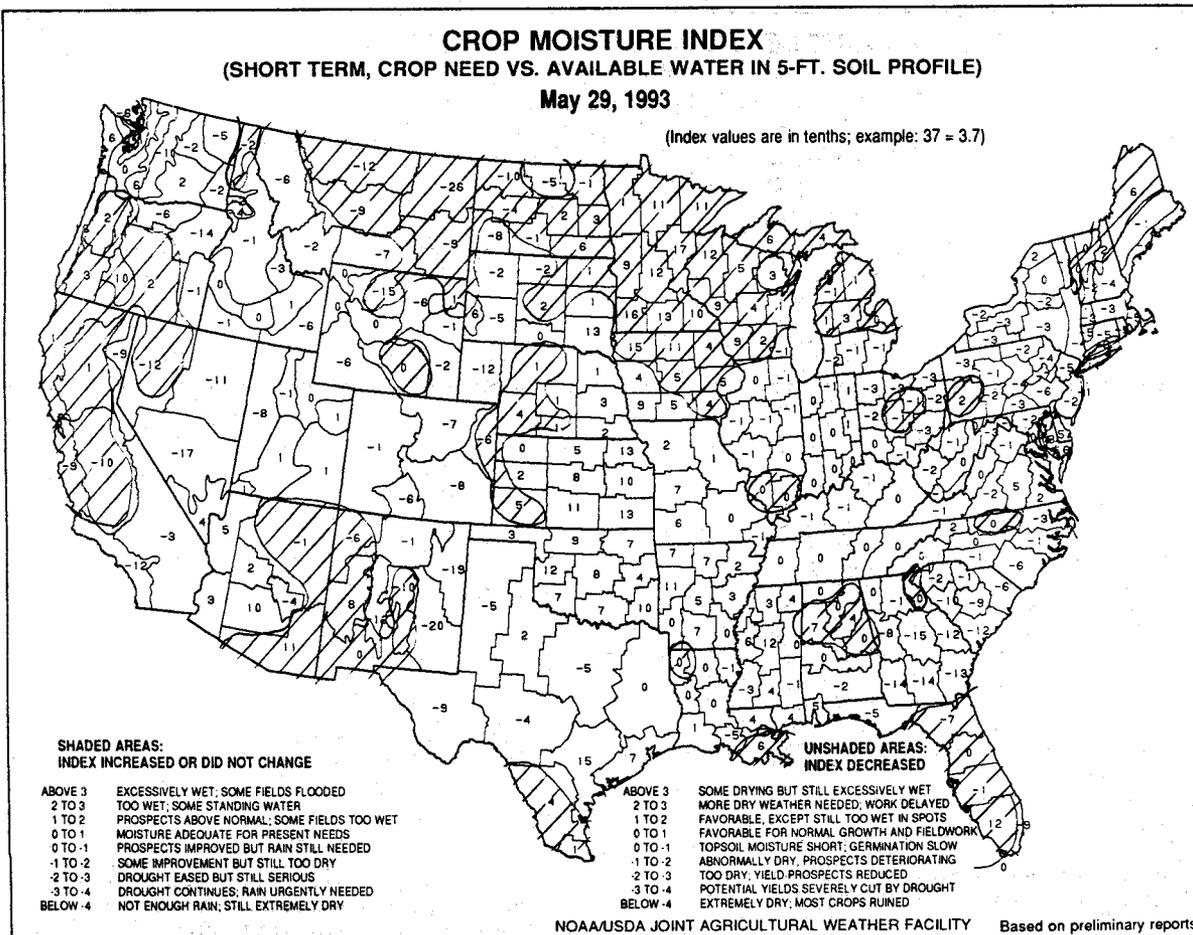
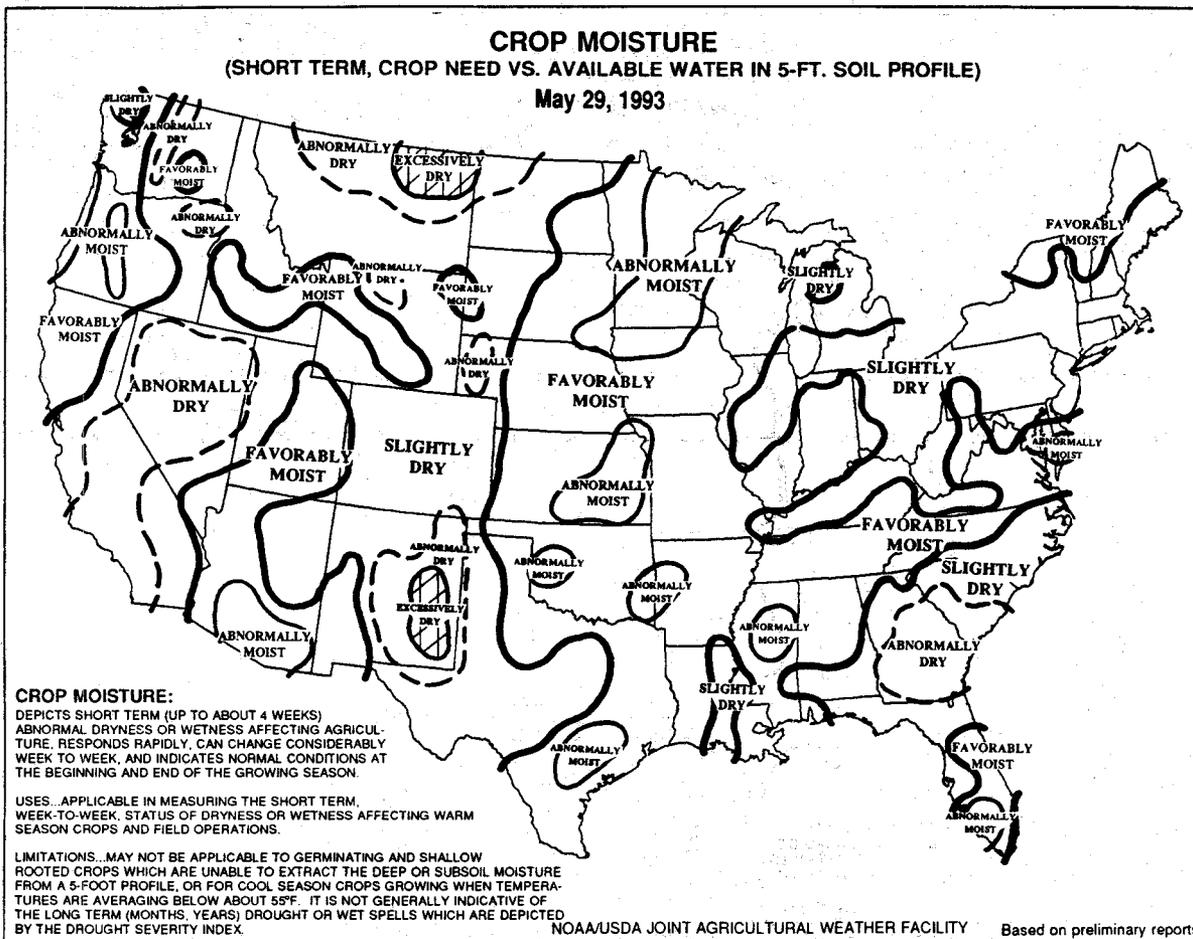
Unusually cool weather continued to hinder crop development in the northern Corn Belt, and late-week rains slowed fieldwork in the east-central Plains. Elsewhere, moisture conditions began to improve in the Southeast, and out-of-season rainfall drenched northern California. However, abnormally dry conditions persisted in Alaska and Hawaii. Early in the week, a broad area of rain fell along a storm's track from the northern Plains to northern New England. Farther south, thunderstorms erupted over the South-Central States, while cool air blanketed the Southeast. On Sunday, Corpus Christi, TX totaled 3.42 inches of rainfall, and Asheville, NC recorded 38°F. In contrast, warmth cloaked the West. Continued snowmelt caused scattered river flooding between the Sierra Crest and the Rocky Divide. By midweek, unseasonable rains pushed into western Oregon and northern California, while a disorganized low pressure center developed over the Gulf of Mexico. Rainfall topped 2 inches in the northern Sacramento Valley of California, and scattered showers eased dryness in the Southeast. Late in the week, thunderstorms fired throughout the Nation's central third. Rainfall exceeded

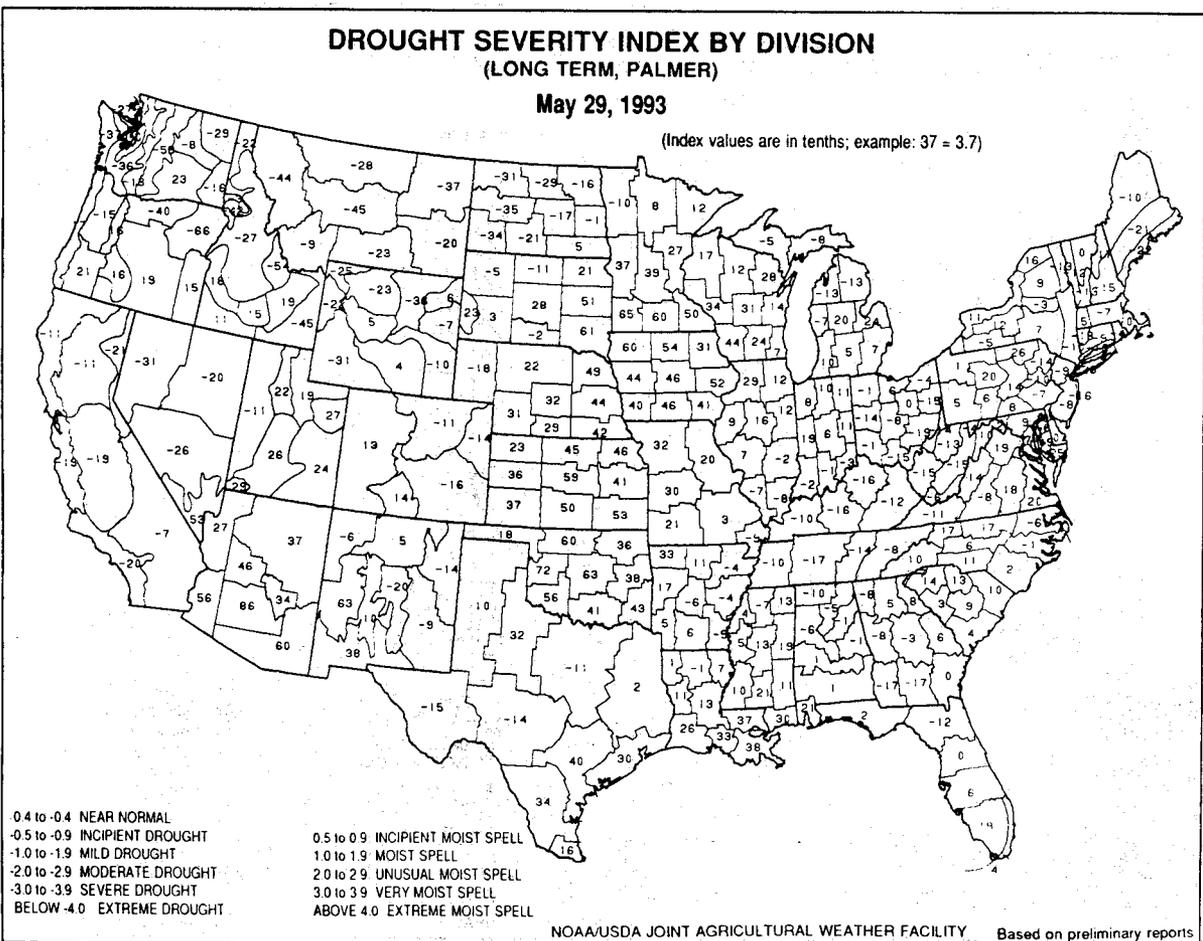
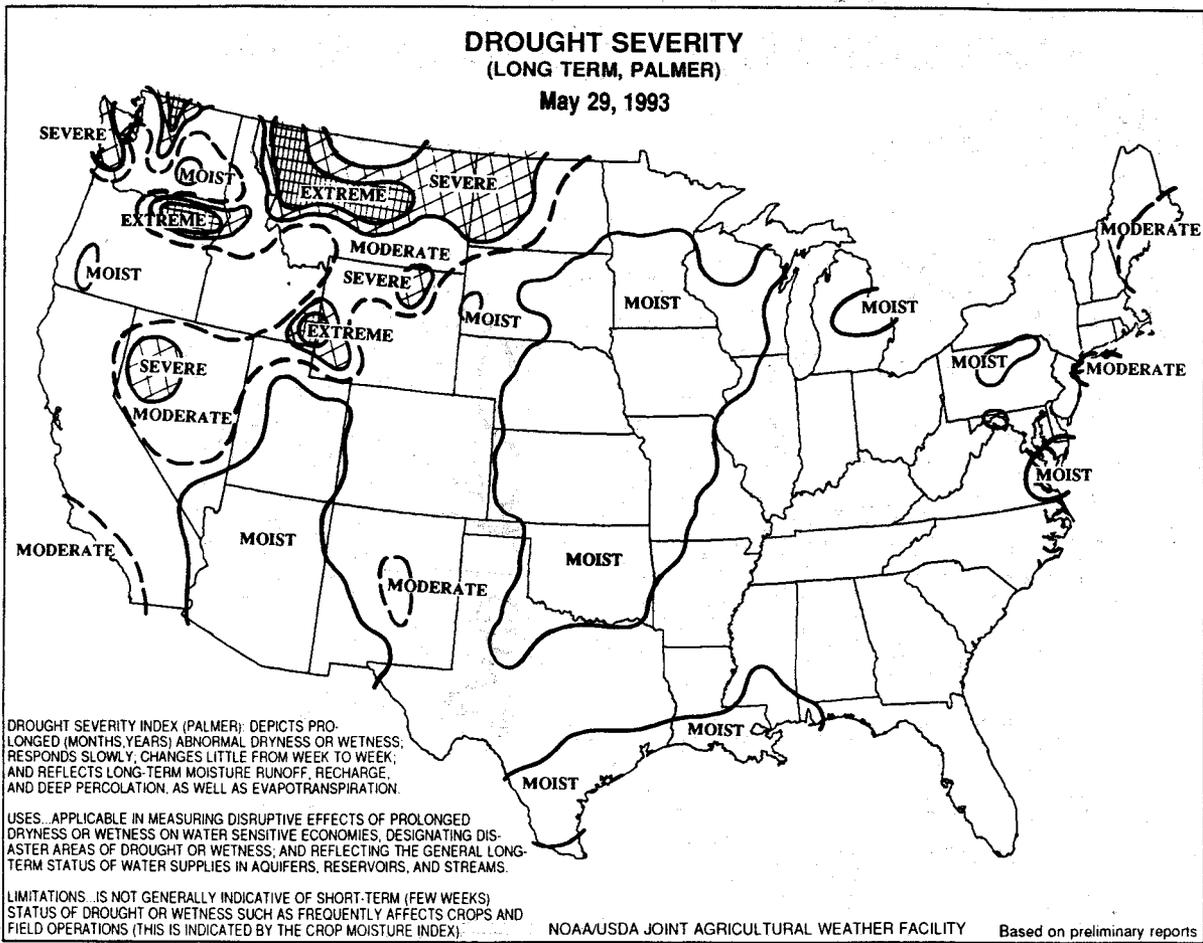
2 inches at locations such as Sioux Falls, SD, Spencer, IA, Chanute, KS, and San Angelo, TX. Meanwhile, the Gulf of Mexico low became better organized as it trekked into the northwestern Caribbean Sea. (The system attained tropical depression status on May 31, and dumped as much as 10 inches of rain on southern Florida and Cuba.)

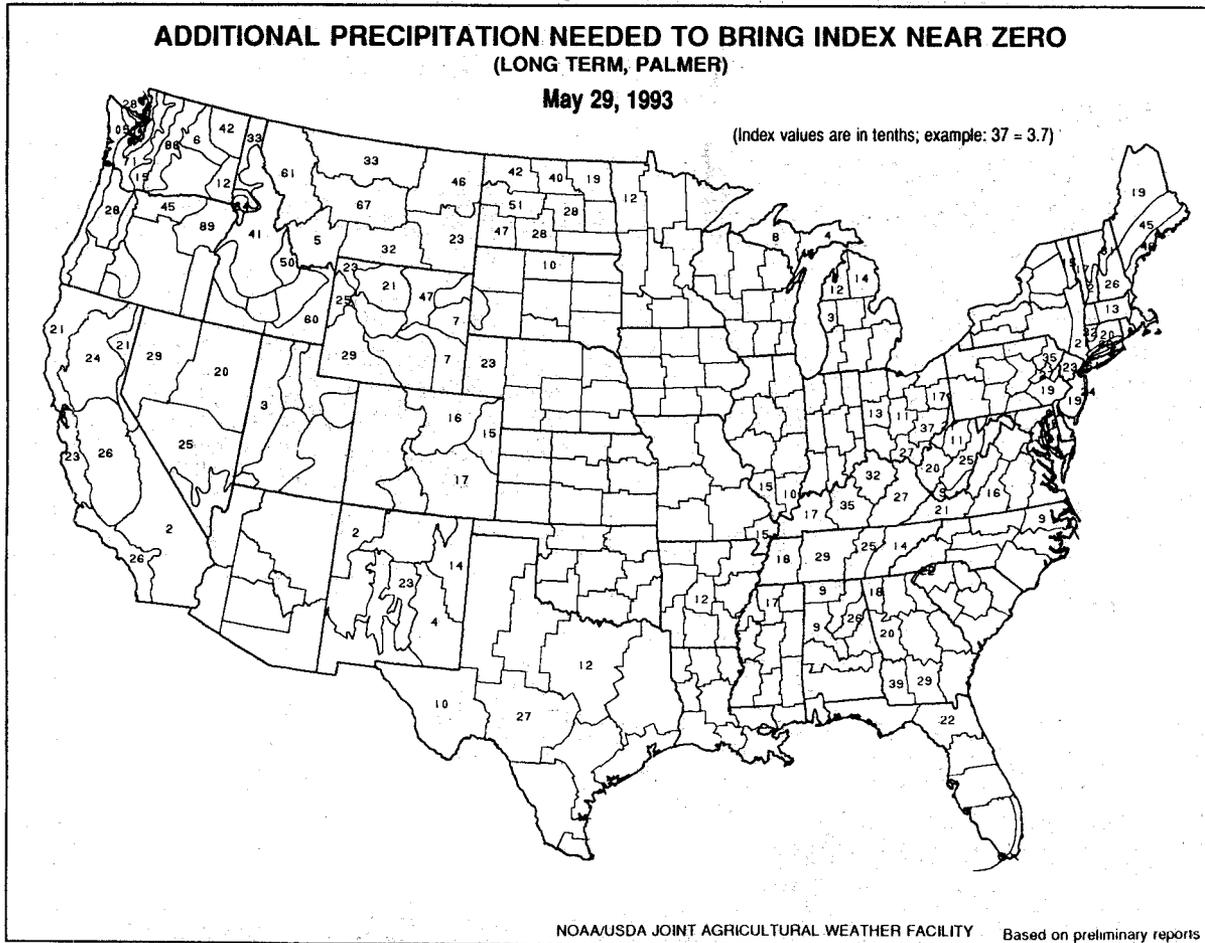
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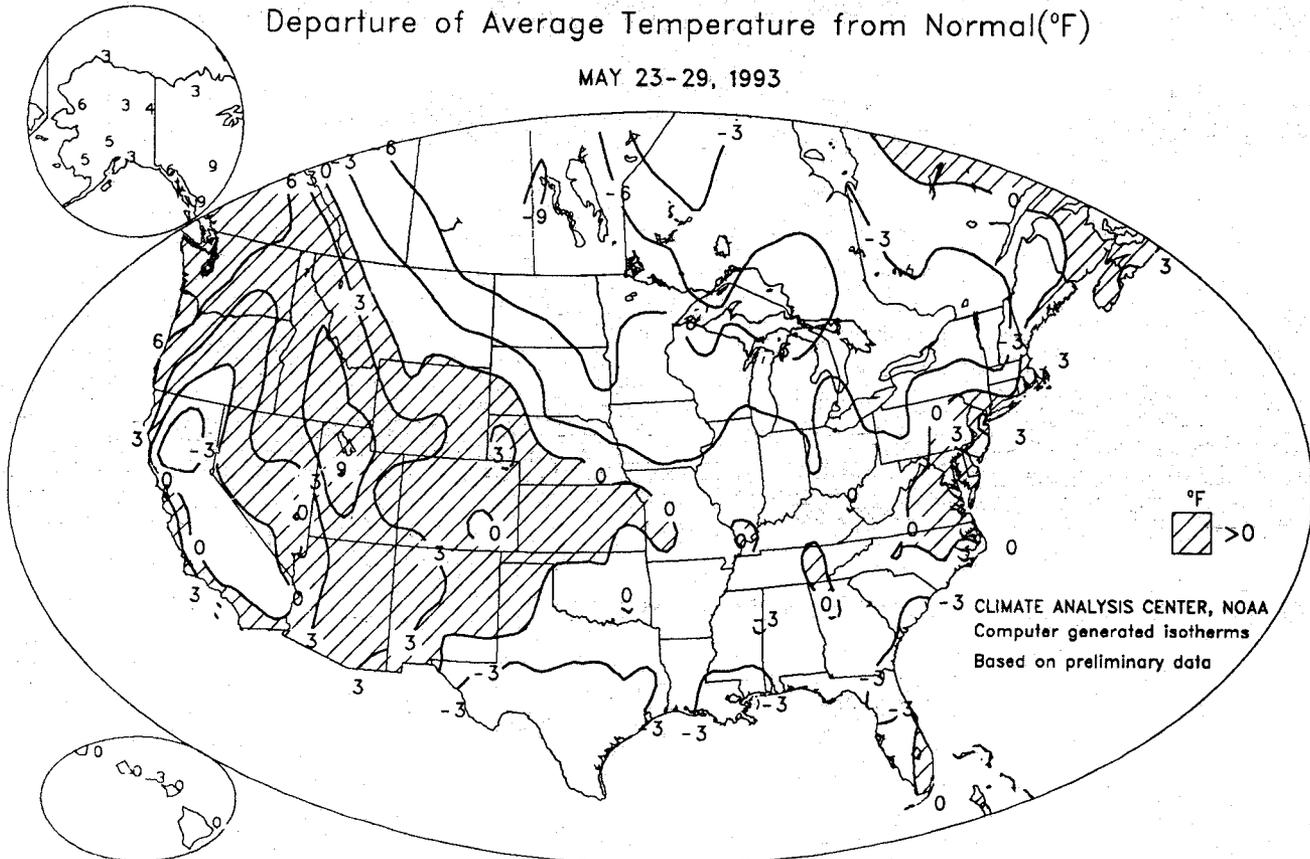






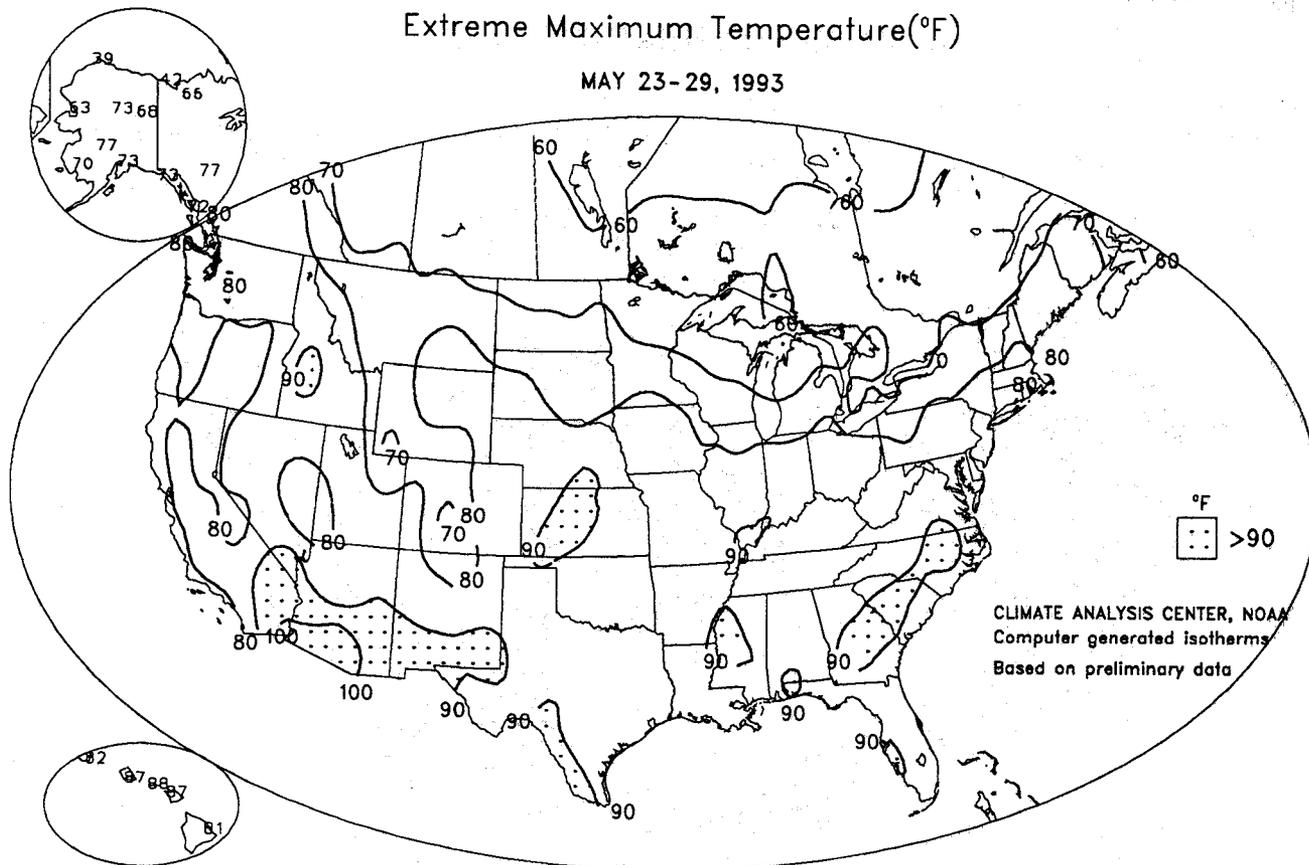
Departure of Average Temperature from Normal (°F)

MAY 23-29, 1993



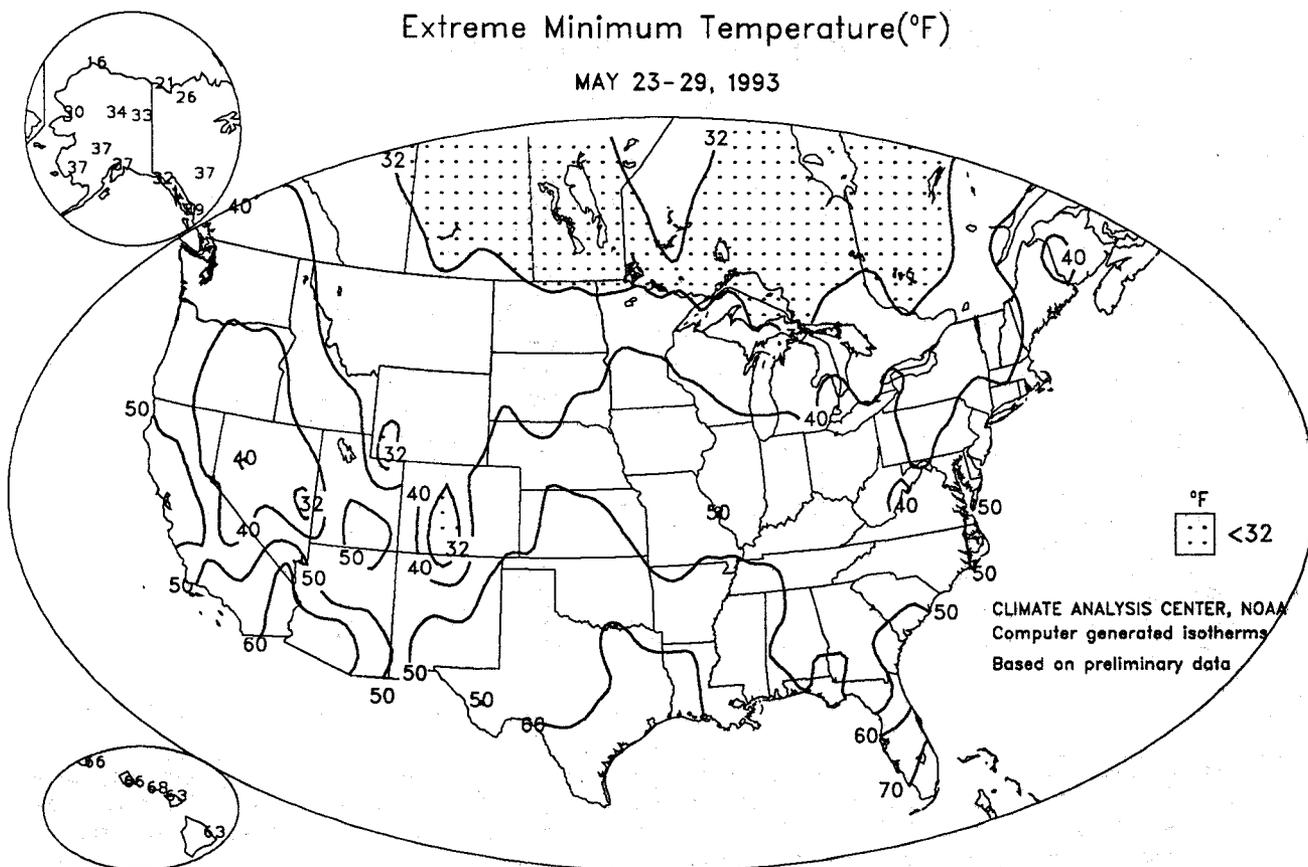
Extreme Maximum Temperature(°F)

MAY 23-29, 1993



Extreme Minimum Temperature(°F)

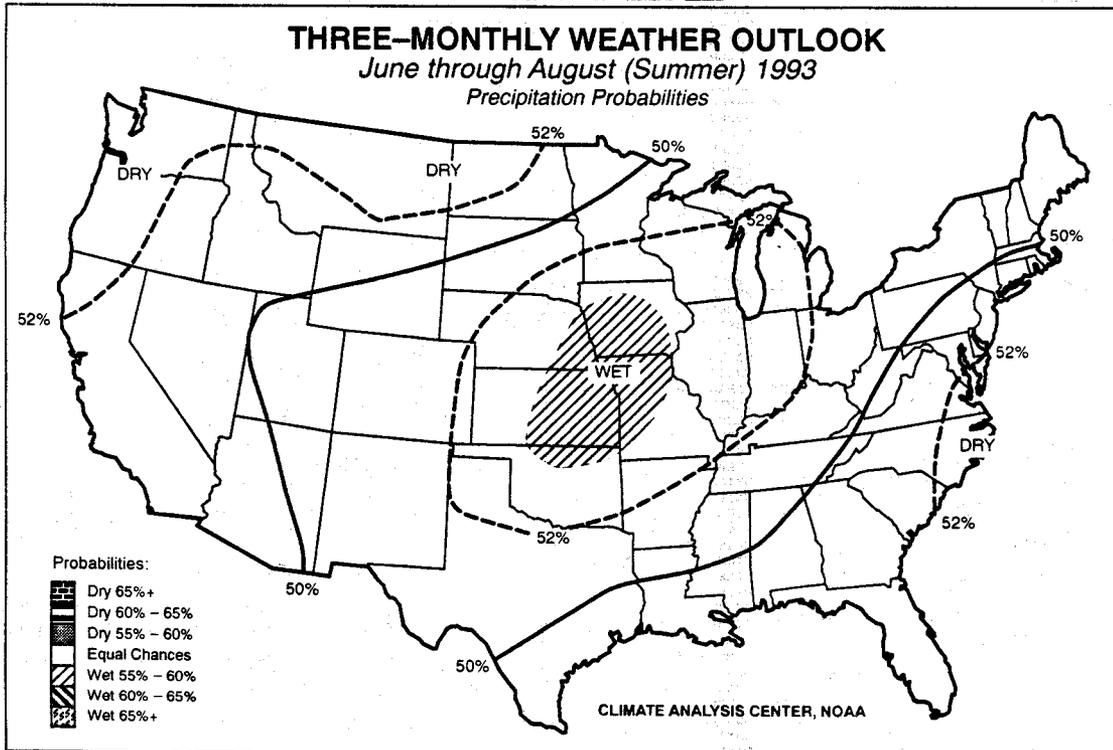
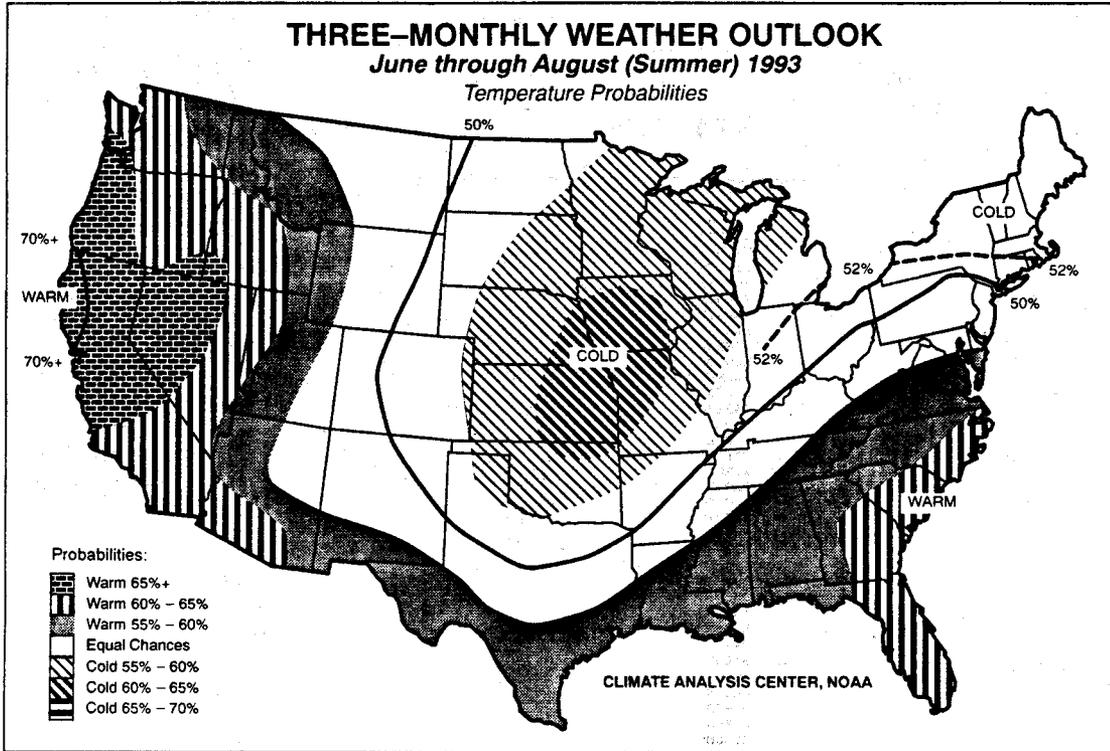
MAY 23-29, 1993



Summer Weather Outlook

The National Weather Service summer outlook calls for continued cool, wet weather for the western Corn Belt. There will be a tendency for warmth across the southeastern portion of the

country and a strong tendency for above-normal temperatures over much of the Far West, especially along the California coast from San Francisco north to the Oregon border.



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

CUMULATIVE GROWING DEGREE DAYS (CORN*) April 1 - May 29, 1993

STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL
AL ANNISTON	875	- 111	SALINA	603	- 93	OK ZANESVILLE	548	- 11
BIRMINGHAM	884	- 117	TOPEKA	576	- 130	ALTUS	893	- 125
MOBILE	1025	- 206	WICHITA	604	- 197	GAGE	728	- 82
MONTGOMERY	982	- 80	KY LEXINGTON	663	- 33	HOBART	774	- 130
MUSCLE SHOALS	869	- 66	BOWLING GREEN	753	- 42	MCALESTER	916	- 48
OZARK	1016	- 133	PADUCAH	804	- 45	PONCA CITY	751	- 97
TUSCALOOSA	947	- 109	LA LAFAYETTE	1093	- 165	TULSA	738	- 185
AZ DOUGLAS	1047	+ 139	LAKE CHARLES	1134	- 120	OR BAKER	432	+ 65
FLAGSTAFF	488	+ 130	MONROE	1005	- 117	EUGENE	447	+ 51
PHOENIX	1516	+ 333	NEW ORLEANS	1076	- 180	NORTH BEND	346	+ 123
TUCSON	1237	+ 170	SHREVEPORT	982	- 152	PENDLETON	539	+ 76
YUMA	1546	+ 294	ME AUGUSTA	350	+ 71	REDMOND	391	+ 20
PRESCOTT	718	+ 153	CARIBOU	240	+ 64	PORTLAND	505	+ 113
AR EL DORADO	910	- 135	HOULTON	277	+ 57	SALEM	527	+ 135
FAYETTEVILLE	683	- 123	PORTLAND	282	+ 32	SEXTON SUMMIT	192	- 26
FORT SMITH	835	- 118	MD SALISBURY	691	+ 54	PA ALLENTOWN	590	+ 90
JONESBORO	817	- 142	MA WORCESTER	391	+ 55	PHILADELPHIA	705	+ 149
LITTLE ROCK	863	- 140	MI BATTLE CREEK	441	- 14	WILLIAMSPORT	599	+ 103
TEXARKANA	929	- 156	JACKSON	443	+ 1	SC BEAUFORT	1068	- 56
CA BAKERSFIELD	990	+ 44	LANING	437	- 30	CHARLESTON	1041	- 30
BLUE CANYON	193	- 50	MUSKEGON	370	+ 18	COLUMBIA	990	- 55
DAGGETT	1159	+ 134	PELLSTON	254	- 27	FLORENCE	1027	- 9
EUREKA	409	+ 245	SAULT STE. MARIE	155	- 51	SD SUMTER/SHAW AFB	961	- 98
FAIRFIELD	745	+ 51	TRAVERSE CITY	319	- 7	ABERDEEN	451	+ 59
FRESNO	957	+ 119	MN DULUTH	186	- 28	HURON	417	- 31
MARYSVILLE	847	+ 30	INT'L FALLS	256	- 17	PIERRE	454	- 22
MERCED	879	+ 46	ALEXANDRIA	322	- 15	RAPID CITY	406	+ 1
MT SHASTA	302	- 68	WARROAD	214	- 58	SIOUX FALLS	387	- 82
PASO ROBLES	827	+ 120	MS BILOXI	1106	- 147	WATERTOWN	320	- 42
RED BLUFF	761	- 41	COLUMBUS	888	- 140	TN BRISTOL	701	- 22
RIVERSIDE	983	+ 175	JACKSON	988	- 83	CHATTAHOOGA	870	+ 1
SANTA ANA	1053	+ 297	MERIDIAN	975	- 104	CROSSVILLE	675	+ 25
SAN DIEGO	889	+ 200	GREENWOOD	952	- 127	MEMPHIS	919	- 81
SACRAMENTO	764	+ 24	MO COLUMBIA	613	- 58	NASHVILLE	804	- 74
THERMAL	1358	+ 108	JOPLIN	710	- 98	TX ABILENE	1044	- 39
CO ALAMOSA	354	- 23	SPRINGFIELD	640	- 104	AMARILLO	753	- 9
DENVER	513	+ 33	VICHY	651	- 77	AUSTIN	1181	- 69
EAGLE	322	- 77	MT BOZEMAN	370	+ 220	BROWNSVILLE	1493	- 39
GRAND JUNCTION	590	- 59	HELENA	398	+ 83	COLLEGE STATION	1110	- 117
LA JUNTA	666	- 15	KALISPELL	403	+ 67	DALHART	723	+ 14
DE DOVER	611	- 69	MILES CITY	482	+ 67	DALLAS/FT. WORTH	1057	- 50
WILMINGTON	665	- 93	NE GRAND ISLAND	496	- 62	GALVESTON	1249	- 48
FL DAYTONA BEACH	1130	- 148	NORFOLK	498	- 31	HOUSTON	1169	- 72
FORT MYERS	1404	- 27	NORTH PLATTE	494	- 12	KINGSVILLE	1407	- 42
GAINESVILLE	1085	- 195	VALENTINE	465	- 48	LAREDO	1496	- 7
JACKSONVILLE	1092	- 131	SCOTTSBLUFF	511	+ 36	LUBBOCK	968	+ 58
FORT LAUDERDALE	1561	+ 62	SIDNEY	453	+ 30	MC ALLEN	1542	+ 42
MIAMI	1567	+ 111	NV ELKO	414	+ 15	MIDLAND	1052	- 37
MILTON	1075	- 111	ELY	423	+ 70	PALACIOS	1200	- 132
PENSACOLA	1082	- 151	LAS VEGAS	1252	+ 226	SAN ANTONIO	1215	- 71
ST. PETERSBURG	1315	- 168	RENO	550	+ 39	VICTORIA	1241	- 71
TALLAHASSEE	1082	- 109	NH WINNEMUCCA	557	+ 73	WACO	1085	- 108
TAMPA	1264	- 120	CONCORD	477	+ 92	WICHITA FALLS	899	- 128
VERO BEACH	1304	- 66	NJ NEWARK	719	+ 188	WINK	1106	+ 16
W. PALM BEACH	1443	- 50	NM ALBUQUERQUE	845	+ 86	UT CEDAR CITY	550	+ 72
GA ATHENS	900	- 41	CARLSBAD	1091	+ 62	VT MONTPELIER	339	+ 59
AUGUSTA	1022	0	CLOVIS	826	+ 44	BURLINGTON	407	+ 80
BRUNSWICK	1015	- 175	GALLUP	642	+ 86	VA CHARLOTTESVILLE	773	+ 24
COLUMBUS	994	- 88	TRUTH OR CONSEQ.	957	+ 95	HAMPTON	810	+ 66
MACON	984	- 117	ALBANY	509	+ 83	LYNCHBURG	811	+ 93
SAVANNAH	1085	- 47	ELMIRA	492	+ 73	NORFOLK	827	+ 58
ID BOISE	566	+ 102	GLENS FALLS	446	+ 74	RICHMOND	812	+ 15
BURLEY	495	+ 91	POUGHKEEPSIE	524	+ 62	WA BELLINGHAM	379	+ 116
IDAHO FALLS	354	+ 6	ROCHESTER	427	+ 35	HOQUIAM	333	+ 101
POCATELLO	407	+ 40	SYRACUSE	464	+ 75	SEATTLE-TACOMA	417	+ 117
IL BELLEVILLE	663	- 84	UTICA	409	+ 59	SPOKANE	412	+ 79
CHICAGO/MIDWAY	497	- 2	WATERTOWN	376	+ 49	TACOMA	444	+ 90
DECATUR	597	- 83	NC ASHEVILLE	648	- 69	WALLA WALLA	564	+ 79
PEORIA	613	+ 48	FAYETTEVILLE	921	- 14	WENATCHEE	596	+ 52
ROCKFORD	514	+ 43	GREENSBORO	868	+ 56	YAKIMA	593	+ 76
SPRINGFIELD	632	- 10	HICKORY	790	- 21	WV HUNTINGTON	720	- 47
QUINCY	575	- 38	RALEIGH	880	+ 17	MARTINSBURG	610	+ 4
IN INDIANAPOLIS	603	- 5	WILMINGTON	968	+ 2	MORGANTOWN	625	+ 17
SOUTH BEND	489	+ 14	NEW BERN	927	- 26	WI EAU CLAIRE	356	- 50
TERRE HAUTE	631	- 1	ND BISMARCK	399	+ 35	GREEN BAY	353	+ 10
IA DES MOINES	489	- 128	DICKINSON	345	+ 17	LACROSSE	470	+ 49
MASON CITY	367	- 128	JAMESTOWN	346	- 2	MADISON	470	+ 17
OTTUMWA	537	- 37	MINOT	339	+ 28	WAUSAU	313	- 38
KS CHANUTE	605	- 163	GRAND FORKS	375	+ 41	WY CASPER	400	+ 57
DODGE CITY	604	- 79	OH AKRON-CANTON	484	+ 8	LANDER	364	+ 37
GARDEN CITY	601	- 79	COLUMBUS	569	- 8	SHERIDAN	416	+ 87
GOODLAND	499	- 39	DAYTON	556	- 20	WORLAND	517	+ 87
MEDICINE LODGE	679	- 152	FINDLAY	452	- 35			
RUSSELL	591	- 68	YOUNGSTOWN	467	+ 28			

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 May 29, 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 Mar 1	PCT. NORMAL SINCE Mar 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	81	59	88	48	70	-.2	.8	-.2	.5	11.1	.70	19.4	.76	92	55	0	0	2	1
MOBILE	82	65	89	51	73	-.3	2.4	1.1	2.3	20.5	126	33.0	125	93	58	0	0	2	1
MONTGOMERY	85	61	91	46	73	-.3	.4	-.6	.3	12.5	87	22.2	90	94	45	1	0	2	0
AK ANCHORAGE	62	45	73	38	53	-.4	.5	-.3	.4	1.6	75	3.7	101	87	41	0	0	5	0
BARROW	33	25	40	16	29	-.4	.2	-.0	.0	.3	51	.9	119	93	74	0	6	1	0
FAIRBANKS	70	45	76	41	58	-.4	.2	-.0	.2	.9	72	3.6	166	76	32	0	0	1	0
JUNEAU	68	46	74	45	57	-.4	.2	-.0	.2	.9	60	23.7	135	91	38	0	0	0	0
KODIAK	57	44	76	36	51	-.5	1.5	-.2	.9	21.8	156	32.0	120	86	54	0	0	4	2
NOME	55	41	62	36	48	-.5	.2	-.0	.2	2.4	131	4.7	145	95	47	0	0	2	0
AZ PHOENIX	99	74	103	69	87	-.6	.0	-.0	.0	1.7	137	8.7	335	36	16	7	0	0	0
PRESCOTT	80	51	84	45	65	-.6	.0	-.0	.0	3.5	110	11.9	191	67	23	0	0	0	0
TUCSON	97	64	104	61	81	-.6	.3	-.3	.3	1.1	90	7.4	270	56	17	7	0	2	0
YUMA	96	70	99	67	83	-.6	.0	-.0	.0	4.4	107	3.4	345	36	16	7	0	0	0
AR FORT SMITH	81	62	85	54	71	-.7	1.3	-.1	.9	14.3	111	21.5	124	93	51	0	0	3	1
LITTLE ROCK	81	62	87	57	72	-.7	.5	-.6	.5	14.1	99	21.1	101	82	44	0	0	2	0
CA BAKERSFIELD	86	58	93	54	72	-.7	.5	-.5	.5	1.8	98	6.1	164	51	23	1	0	0	0
EUREKA	67	54	77	52	61	-.7	1.0	-.0	.7	4.4	133	26.4	130	88	39	0	0	6	6
FRESNO	84	57	91	54	71	-.7	1.1	-.1	.7	2.1	66	9.7	141	75	27	1	0	1	0
LOS ANGELES	71	60	75	57	65	-.7	2.0	-.9	.9	1.9	65	17.7	229	84	53	0	0	0	0
REDDING	75	55	86	53	65	-.7	2.3	-.0	.9	12.5	163	30.4	167	95	38	0	0	4	2
SACRAMENTO	76	55	80	52	65	-.7	.7	-.7	.7	3.8	94	17.4	165	94	45	0	0	2	1
SAN DIEGO	72	61	77	58	67	-.7	.2	-.0	.0	1.2	45	15.1	247	81	52	0	0	0	0
SAN FRANCISCO	72	56	78	54	64	-.7	.5	-.0	.0	2.2	66	19.0	156	84	38	0	0	3	0
CO DENVER	75	48	86	44	62	-.7	.3	-.3	.1	3.1	66	5.0	80	86	35	0	0	5	0
GRAND JUNCTION	81	54	87	46	68	-.7	.3	-.3	.1	3.7	71	5.0	80	86	35	0	0	5	0
PUEBLO	78	48	89	42	63	-.7	1.1	-.1	.2	5.0	166	7.5	182	69	21	0	0	3	0
CT BRIDGEPORT	74	55	82	50	64	-.7	.3	-.2	.1	4.5	161	5.1	149	91	34	0	0	1	0
HARTFORD	73	49	87	42	61	-.7	.3	-.2	.1	10.8	96	16.0	92	69	34	0	0	1	0
DC WASHINGTON	80	59	86	50	70	-.7	.3	-.2	.1	12.1	106	17.6	98	76	34	0	0	0	0
FL APALACHICOLA	82	65	85	52	73	-.7	.2	-.4	.2	13.4	144	18.6	126	78	41	0	0	0	0
DAYTONA BEACH	82	65	83	57	73	-.7	.4	-.6	.3	6.5	79	13.8	98	88	56	0	0	2	0
JACKSONVILLE	83	60	86	48	71	-.7	.4	-.5	.3	8.1	87	14.9	91	92	48	0	0	2	0
KEY WEST	84	76	86	75	80	-.7	.4	-.1	.7	4.6	70	12.9	123	76	65	0	0	2	1
MIAMI	85	75	86	74	80	-.7	.4	-.1	.7	9.7	88	16.8	112	72	57	0	0	3	0
ORLANDO	85	66	86	61	75	-.7	1.8	-.8	1.7	10.1	123	16.5	121	85	48	0	0	2	1
TALLAHASSEE	87	63	89	48	75	-.7	.6	-.6	.6	8.0	56	22.1	90	81	42	0	0	2	1
TAMPA	87	67	89	59	77	-.7	1.1	-.2	.9	7.8	112	13.7	114	81	45	0	0	2	1
WEST PALM BEACH	84	74	86	73	79	-.7	1.0	-.7	.9	15.0	124	25.0	144	76	57	0	0	3	1
GA ATLANTA	83	63	89	53	73	-.7	.3	-.7	.2	13.0	92	21.4	90	81	41	0	0	2	0
AUGUSTA	88	57	95	46	73	-.7	.3	-.7	.2	10.3	89	19.5	98	87	35	2	0	1	0
MACON	86	60	91	46	73	-.7	.3	-.8	.8	12.7	109	22.3	107	87	37	1	0	1	0
SAVANNAH	84	62	89	54	73	-.7	.3	-.8	.8	12.2	115	21.0	121	83	43	0	0	0	0
HI HILO	81	66	81	63	74	-.7	.2	-.1	.6	28.7	74	33.6	57	84	62	0	0	4	0
HONOLULU	85	71	87	66	78	-.7	.0	-.2	.0	4	8	1.5	14	72	44	0	0	0	0
KAHULUI	86	67	87	63	77	-.7	.0	-.1	.0	2.7	52	5.1	42	69	47	0	0	0	0
LIHUE	82	73	82	67	77	-.7	.0	-.6	.6	4.8	45	6.1	30	73	62	0	0	0	0
ID BOISE	80	49	90	41	64	-.7	1.1	-.2	.0	5.3	149	7.9	131	76	27	1	0	2	0
LEWISTON	78	51	86	44	64	-.7	.3	-.0	.2	5.5	162	7.0	125	77	32	0	0	3	0
POCATELLO	78	47	84	42	62	-.7	.4	-.3	.3	5.2	139	9.5	167	73	22	0	0	0	0
IL CHICAGO	70	48	78	41	59	-.7	.4	-.3	.3	10.3	110	15.0	122	91	39	0	0	2	0
MOLINE	72	51	81	44	62	-.7	.8	-.1	.7	13.7	125	16.6	121	87	39	0	0	3	1
PRORIA	74	52	79	46	63	-.7	1.7	-.9	1.0	12.2	121	17.5	134	86	41	0	0	3	2
QUINCY	75	54	81	45	64	-.7	.0	-.0	.7	7.4	65	10.7	76	80	46	0	0	1	0
ROCKFORD	71	49	78	41	60	-.7	.9	-.0	.7	12.0	126	15.3	128	93	51	0	0	3	0
SPRINGFIELD	78	54	85	45	66	-.7	.2	-.6	.2	9.0	88	14.5	107	77	38	0	0	1	0
IN EVANSVILLE	80	58	91	50	69	-.7	.2	-.9	.2	11.7	87	17.9	90	82	40	1	0	1	0
FORT WAYNE	74	50	83	45	62	-.7	1.6	-.8	.8	11.1	117	18.1	137	89	39	0	0	3	1
INDIANAPOLIS	75	52	85	44	63	-.7	.6	-.3	.3	10.1	90	15.8	98	85	44	0	0	3	0
SOUTH BEND	72	51	77	42	61	-.7	.5	-.2	.4	8.0	80	13.5	96	85	39	0	0	3	0
IA DES MOINES	70	53	84	48	62	-.7	1.8	-.8	1.1	13.6	141	16.7	144	88	41	0	0	4	1
SIOUX CITY	70	51	86	43	60	-.7	.4	-.5	.2	7.1	92	9.9	111	88	39	0	0	4	0
WATERLOO	71	51	84	46	61	-.7	2.1	1.1	1.1	13.4	143	15.3	136	93	56	0	0	5	1
KS CONCORDIA	77	57	87	52	67	-.7	1	-.9	.1	8.1	95	10.7	109	90	46	0	0	2	0
DODGE CITY	80	57	91	53	69	-.7	.2	-.5	.2	6.5	102	10.4	138	87	39	1	0	2	0
GOODLAND	73	52	86	47	62	-.7	.8	-.1	.4	4.1	72	5.5	85	91	40	0	0	4	0
TOPEKA	79	58	86	49	68	-.7	1.1	-.0	1.1	14.8	154	18.3	157	88	43	0	0	1	1
WICHITA	78	59	85	55	69	-.7	.0	-.3	.5	12.6	132	15.4	134	92	45	0	0	2	1
KY BOWLING GREEN	81	56	89	47	68	-.7	.8	-.1	.1	9.2	65	15.0	68	88	44	0	0	0	0
LEXINGTON	76	55	85	47	66	-.7	.0	-.1	.0	9.6	77	16.2	87	85	43	0	0	1	0
LOUISVILLE	79	57	87	50	68	-.7	.1	-.9	.1	11.0	83	18.7	96	82	40	0	0	1	0
LA BATON ROUGE	82	64	86	55	73	-.7	.3	-.7	.1	19.1	129	35.3	140	97	60	0	0	4	0
LAKE CHARLES	83	68	89	65	76	-.7	.8	-.5	.4	18.7	157	29.8	149	95	68	0	0	5	0
NEW ORLEANS	83	63	85	50	73	-.7	3.5	2.4	2.6	19.7	145	28.3	114	96	58	0	0	3	2
SHREVEPORT	81	65	87	63	73	-.7	.8	-.6	.7	13.4	100	22.8	105	96	56	0	0	3	1

Based on 1961-90 normals.

Weather Data for the Week Ending May 29, 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 Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
ME CARIBOU	60	45	71	40	52	-2	1.8	1.1	1.5	8.5	110	12.8	106	87	58	0	0	0	0	4	1	
PORTLAND	68	47	73	41	57	1	1.1	1.1	1.7	12.8	115	19.5	108	84	37	0	0	0	0	4	0	
MD BALTIMORE	79	55	87	44	67	1	T	1.7	1.8	15.1	152	20.6	128	73	37	0	0	0	0	4	0	
SALISBURY	80	56	84	46	68	2	1.1	1.8	1.1	16.9	157	23.4	131	68	37	0	0	0	0	1	0	
MA BOSTON	73	55	84	51	64	3	T	1.7	1.3	13.3	129	20.4	117	68	52	0	0	0	0	2	0	
CHATHAM	66	52	70	49	59	4	1.1	1.8	1.0	12.0	107	18.0	95	90	49	0	0	0	0	1	0	
MI ALPENA	60	39	72	32	49	-6	1.9	1.3	1.7	5.3	76	7.4	75	96	30	0	0	0	0	4	1	
DETROIT	71	50	80	43	60	-2	1.5	1.2	1.4	6.6	80	11.8	101	80	53	0	2	2	0	2	0	
FLINT	69	46	77	39	58	-3	1.3	1.3	1.1	7.1	94	11.1	108	83	40	0	0	0	0	3	0	
GRAND RAPIDS	68	47	73	37	58	-3	1.8	1.1	1.5	8.6	97	14.0	115	87	38	0	0	0	0	5	0	
HOUGHTON LAKE	60	44	66	39	52	-5	1.8	1.2	1.5	5.2	79	7.9	84	89	42	0	0	0	0	4	0	
LANSING	69	44	75	33	57	-4	1.3	1.4	1.1	7.7	98	12.1	115	96	55	0	0	0	0	4	0	
MARQUETTE	56	38	62	32	47	-6	1.3	1.6	1.8	8.7	106	11.8	97	92	55	0	0	0	0	3	1	
MUSKEGON	65	46	69	37	56	-4	1.7	1.1	1.4	8.0	101	11.4	97	90	53	0	1	1	4	3	0	
SAULT ST. MARIE	53	37	60	31	45	-9	1.6	1.0	1.7	7.9	109	10.3	90	96	55	0	0	0	0	6	2	
MN ALEXANDRIA	63	47	71	43	55	-5	1.4	1.7	1.8	8.1	128	12.0	115	88	58	0	0	0	0	5	1	
DULUTH	57	41	65	37	49	-5	2.1	1.4	1.1	6.6	95	8.8	98	91	53	0	0	0	0	4	2	
INT'L FALLS	59	39	65	31	49	-7	1.8	1.1	1.0	4.8	97	5.5	86	90	47	0	0	0	0	4	1	
MINNEAPOLIS	65	50	76	46	58	-4	1.9	1.1	1.0	6.7	89	8.3	89	83	46	0	0	0	0	5	0	
ROCHESTER	65	47	77	40	56	-5	1.7	1.1	1.4	10.0	130	12.0	130	91	43	0	0	0	0	4	0	
MS GREENWOOD	81	65	90	59	73	-2	1.3	1.8	1.1	18.4	116	24.1	96	94	61	1	0	0	0	4	0	
JACKSON	82	63	90	54	73	-1	1.4	1.7	1.2	13.6	82	21.1	81	89	52	1	0	0	0	4	0	
MERIDIAN	82	63	90	50	72	-1	1.3	1.6	1.2	14.4	88	28.9	107	94	51	1	0	0	0	3	0	
MO CAPE GIRARDEAU	82	59	91	49	70	0	1.7	1.4	1.7	11.7	81	20.3	99	86	45	1	0	0	0	3	1	
COLUMBIA	76	54	85	46	65	-1	1.1	1.0	1.1	12.3	109	16.7	115	90	40	0	0	0	0	1	0	
KANSAS CITY	78	57	87	48	67	0	1.8	1.8	1.8	15.0	145	18.3	146	84	42	0	0	0	0	1	0	
SAINT LOUIS	79	59	89	51	69	0	T	1.9	1.3	13.3	123	19.6	133	77	40	0	0	0	0	1	0	
SPRINGFIELD	77	56	82	47	67	0	1.3	1.3	1.3	9.5	78	15.1	94	90	42	0	0	0	0	2	0	
MT BILLINGS	71	48	83	44	60	2	1.1	1.5	1.0	2.8	52	3.6	52	80	31	0	0	0	0	2	0	
GLASGOW	64	42	78	35	53	-6	1.2	1.2	1.2	1.8	64	2.3	68	89	38	0	0	0	0	1	0	
GREAT FALLS	65	43	74	34	54	-2	1.1	1.5	1.5	6.9	143	8.8	139	90	37	0	0	0	0	4	1	
HAVRE	63	42	67	39	52	-5	1.0	1.4	1.0	2.2	68	2.8	69	88	46	0	0	0	0	0	0	
HELENA	71	45	79	34	58	3	1.2	1.1	1.1	3.9	116	5.7	129	88	31	0	0	0	0	4	0	
KALISPELL	71	46	79	36	59	5	1.6	1.3	1.3	4.3	112	6.6	102	85	37	0	0	0	0	3	0	
MILES CITY	69	45	80	35	57	-3	T	1.5	T	4.0	99	5.0	96	91	43	0	0	0	0	2	0	
MISSOULA	75	44	85	36	60	5	1.7	1.4	1.4	4.5	125	6.0	107	93	33	0	0	0	0	4	0	
NE GRAND ISLAND	76	54	91	46	65	0	1.1	1.1	1.1	4.9	62	7.6	83	87	43	1	0	0	0	2	0	
LINCOLN	75	54	88	44	65	-1	1.5	1.4	1.4	8.0	105	10.1	104	95	53	0	0	0	0	3	1	
NORFOLK	73	52	86	42	63	-2	1.5	1.5	1.5	10.0	92	10.0	113	87	37	0	0	0	0	2	0	
NORTH PLATTE	74	51	82	49	63	1	1.0	1.7	1.7	4.9	77	7.0	98	89	38	0	0	0	0	2	1	
OMAHA	74	54	89	46	64	-2	1.5	1.4	1.4	9.7	109	11.6	112	85	39	0	0	0	0	2	0	
SCOTTSBLUFF	77	49	92	41	63	3	1.1	1.1	1.1	4.0	77	6.1	99	91	30	1	0	0	0	3	0	
VALENTINE	73	47	83	34	60	-3	1.1	1.8	1.0	5.6	85	6.8	89	87	41	0	0	0	0	3	0	
NV ELY	73	37	77	31	55	1	1.0	1.0	1.0	2.2	72	5.7	129	77	15	0	1	0	0	0	0	
LAS VEGAS	93	67	94	64	80	2	1.0	1.1	1.0	1.8	47	4.5	118	70	26	0	0	0	0	1	0	
RENO	73	47	83	41	60	1	1.1	1.1	1.1	2.3	97	4.9	129	64	21	0	0	0	0	0	0	
WINNEMUCCA	78	45	86	39	62	3	1.0	1.2	1.0	7.6	88	10.7	78	90	37	0	0	0	0	3	0	
NH CONCORD	69	42	84	35	56	-3	1.1	1.1	1.1	12.8	124	17.8	106	84	36	0	0	0	0	1	0	
NJ ATLANTIC CITY	79	49	86	40	64	0	1.0	1.1	1.1	1.2	14	3.0	123	52	18	0	0	0	0	0	0	
NM ALBUQUERQUE	86	56	89	49	71	4	T	1.1	T	1.2	39	2.1	53	75	23	0	0	0	0	1	0	
CLOVIS	84	55	87	54	70	2	1.2	1.2	1.2	1.6	88	2.5	96	69	18	4	0	0	0	2	0	
ROSNELL	89	57	92	52	73	3	T	1.1	T	1.1	39	2.1	53	75	23	0	0	0	0	1	0	
NY ALBANY	71	48	81	41	59	-2	1.1	1.1	1.1	11.8	129	16.8	122	78	38	0	0	0	0	2	0	
BINGHAMTON	68	47	77	41	58	-1	1.1	1.1	1.1	12.2	134	17.0	123	79	39	0	0	0	0	3	0	
BUFFALO	66	48	73	43	57	-3	1.2	1.2	1.2	6.2	73	12.5	93	74	42	0	0	0	0	3	0	
NEW YORK	79	61	88	53	70	0	1.0	1.0	1.0	10.5	96	16.8	100	59	35	0	0	0	0	0	0	
ROCHESTER	68	46	75	41	57	-3	1.3	1.4	1.1	6.3	85	10.2	88	88	43	0	0	0	0	5	0	
SYRACUSE	69	47	79	38	58	-3	1.3	1.5	1.1	11.9	130	17.4	128	82	39	0	0	0	0	4	0	
NC ASHEVILLE	77	50	84	38	63	-3	1.3	1.3	1.3	13.7	96	19.6	87	96	44	0	0	0	0	2	0	
CHARLOTTE	82	60	88	49	71	1	1.3	1.3	1.3	12.1	113	21.0	115	82	41	0	0	0	0	2	0	
GREENSBORO	82	56	88	46	69	1	1.1	1.3	1.3	16.4	160	23.5	140	82	42	0	0	0	0	2	0	
HATTERAS	79	60	80	56	69	0	1.0	1.0	1.0	11.1	96	22.1	105	91	44	0	0	0	0	1	0	
NEW BERN	83	57	88	48	70	2	1.2	1.2	1.2	12.7	112	21.6	109	91	42	0	0	0	0	1	0	
RALEIGH	81	57	88	45	69	1	1.1	1.1	1.1	13.7	137	20.4	119	86	41	0	0	0	0	3	0	
WILMINGTON	82	57	86	48	70	2	1.1	1.1	1.1	14.6	130	23.4	115	95	42	0	0	0	0	0	0	
ND BISMARCK	63	43	78	38	53	-5	1.1	1.1	1.1	4.4	83	4.3	80	92	47	0	0	0	0	4	0	
FARGO	64	44	75	38	54	-6	2.1	1.5	1.0	4.0	78	5.0	80	88	50	0	0	0	0	6	1	
GRAND FORKS	63	41	71	33	52	-7	1.7	1.7	1.7	2.2	53	2.6	49	87	42	0	0	0	0	5	0	
WILLISTON	61	45	72	39	53	-6	1.6	1.1	1.3	2.1	55	2.6	53	92	47	0	0	0	0	3	0	
OH AKRON-CANTON	69	50	83	42	59	-3	1.7	1.7	1.7	5.5	91	15.0	105	86	43	0	0	0	0	4	1	
CINCINNATI	75	53	84	44	64	-2	1.1	1.1	1.1	8.7	73	16.0	93	81	42	0	0	0	0	2	0	
CLEVELAND	69	50	84	42	60	-2	1.1	1.1	1.1	7.9	85	15.0	111	85	43	0	0	0	0	3	0	
COLUMBUS	74	51	86	42	62	-1	1.7	1.3	1.4	9.7	93	15.6	107	89	42	0	0	0	0	4	0	
DAYTON	72	51																				

Weather Data for the Week Ending May 29, 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 Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
TOLEDO	72	50	85	41	61	-1	.3	-4	1	7.2	86	12.0	102	87	43	0	0	3	0		
YOUNGSTOWN	68	46	82	40	57	.3	.3	-6	2	7.5	79	13.2	97	89	40	0	0	2	0		
OK OKLAHOMA CITY	79	60	83	57	70	.6	.6	-7	4	16.2	156	20.7	159	89	48	0	0	2	0		
TULSA	79	60	83	55	70	.2	.2	-7	4	14.3	115	19.2	121	89	49	0	0	2	0		
OR ASTORIA	69	51	84	44	60	.9	.9	-3	4	19.9	137	27.5	86	98	54	0	0	4	0		
BURNS	68	40	77	33	54	1	1	-3	3	4.1	161	6.5	151	86	37	0	0	3	0		
MEDFORD	77	50	88	46	63	.3	.5	-3	3	11.9	119	8.7	101	91	35	0	0	6	0		
PENDLETON	75	49	80	45	62	1	.2	0	0	4.7	146	7.2	124	81	33	0	0	2	0		
PORTLAND	75	53	84	49	64	.8	.8	-4	4	12.6	160	16.4	86	97	36	0	0	2	0		
SALEM	76	51	88	48	64	7	1.0	-6	4	13.3	161	19.8	106	90	36	0	0	1	0		
PA ALLENTOWN	78	53	86	42	65	.2	1.1	-8	1	14.4	131	18.8	132	70	34	0	0	3	0		
ERIE	68	50	77	44	59	.2	.2	-6	2	6.8	68	11.8	85	86	49	0	0	3	0		
HARRISBURG	80	57	90	43	68	3	.2	-10	0	14.4	140	19.1	118	78	31	1	0	1	0		
PHILADELPHIA	81	59	88	52	70	5	.2	-10	0	10.2	102	16.6	92	87	33	0	0	3	0		
PITTSBURGH	72	53	83	49	62	0	1.1	-3	5	9.8	99	15.7	106	63	37	0	0	5	0		
SCRANTON	76	51	84	39	63	1	.2	-6	2	12.7	142	15.7	119	77	36	0	0	2	0		
RI PROVIDENCE	74	52	83	46	63	.2	.1	-8	2	12.8	109	20.3	106	77	33	0	0	2	0		
SC CHARLESTON	82	61	86	52	72	.2	.1	-1.1	0	10.0	94	22.0	126	89	46	0	0	2	0		
COLUMBIA	86	57	93	45	72	.6	.6	-3	6	9.8	85	20.6	103	89	33	1	0	2	0		
FLORENCE	85	57	92	48	71	.2	.2	-8	2	6.1	59	15.1	89	91	38	1	0	0	0		
GREENVILLE	81	57	88	44	69	.2	.2	-8	2	16.1	120	26.8	123	88	42	1	0	2	0		
SD ABERDEEN	66	47	75	38	56	1.0	1.0	-3	3	4.9	88	6.0	89	93	50	0	0	4	0		
HURON	66	47	76	40	57	.2	.2	-5	3	7.9	122	8.7	117	92	40	0	0	3	0		
RAPID CITY	70	47	81	39	59	.1	.1	-6	1	6.4	112	7.4	117	93	40	0	0	1	0		
SIOUX FALLS	67	48	78	40	58	2.3	2.3	1.5	1.7	12.6	180	14.1	173	89	40	0	0	4	0		
TN CHATTANOOGA	82	57	90	47	70	.6	.6	-3	6	13.2	91	22.0	91	98	46	1	0	2	0		
KNOXVILLE	79	55	86	44	67	.2	.2	-3	1	11.8	93	18.1	87	93	48	0	0	3	0		
MEMPHIS	82	63	88	57	73	.6	.6	-4	6	13.3	85	19.3	82	83	46	0	0	2	0		
NASHVILLE	80	58	89	50	69	.1	.1	-1.0	1	12.6	91	18.4	87	87	43	0	0	2	0		
TX ABILENE	85	61	87	57	73	.8	.8	-1	5	3.9	65	6.6	73	90	38	0	0	2	0		
AMARILLO	84	54	89	50	69	.2	.2	-7	5	3.5	82	4.6	86	91	32	0	0	1	0		
AUSTIN	82	67	86	61	74	1.0	1.0	-1	1.0	16.4	110	16.4	128	92	59	0	0	1	0		
BEAUMONT	83	69	87	67	76	1.2	1.2	-2	8	16.5	136	30.5	150	96	66	0	0	3	0		
BROWNSVILLE	85	70	87	67	78	2.2	2.2	1.5	1.2	5.7	117	10.3	138	95	61	0	0	1	0		
CORPUS CHRISTI	82	69	85	65	75	4.5	4.5	3.7	3.6	14.3	246	16.4	174	94	73	0	0	5	0		
DEL RIO	87	65	90	62	76	.1	.1	-7	0	2.5	39	3.9	43	81	41	2	0	6	0		
EL PASO	91	63	93	57	77	.2	.2	-1	0	1.1	17	1.8	115	48	17	6	0	2	0		
FORT WORTH	83	66	88	61	74	0	.7	-5	7	8.3	71	15.8	99	92	50	0	0	2	0		
GALVESTON	79	71	82	67	75	.3	1.1	-2	1.0	13.3	167	26.3	195	87	73	0	0	3	0		
HOUSTON	81	67	86	63	74	2.6	2.6	1.3	1.4	22.5	195	31.0	163	93	63	0	0	5	0		
LUBBOCK	86	59	88	56	72	.1	.1	-5	1	3.6	89	5.0	99	84	31	0	0	1	0		
MIDLAND	85	59	89	57	72	.2	.2	-3	2	2.0	62	4.2	96	91	31	0	0	2	0		
SAN ANGELO	86	60	89	56	73	2.2	2.2	1.5	1.8	5.4	100	7.2	99	91	32	0	0	2	0		
SAN ANTONIO	83	65	88	61	74	3.0	3.0	2.0	1.9	14.9	187	19.9	173	93	53	0	0	3	0		
VICTORIA	80	67	84	64	73	4.2	4.2	3.1	2.2	21.5	235	28.4	185	96	71	0	0	6	0		
WACO	84	64	89	57	74	.3	.3	-7	3	10.0	102	16.3	120	94	49	0	0	2	0		
WICHITA FALLS	81	60	85	57	71	.3	.3	-7	2	11.2	118	15.8	124	96	50	0	0	3	0		
UT CEDAR CITY	79	48	81	44	64	.0	.0	-2	0	2.4	75	6.8	140	46	16	0	0	0	0		
SALT LAKE CITY	83	58	87	48	71	.7	.7	-2	0	6.9	120	11.4	141	56	22	0	0	3	0		
VT BURLINGTON	64	46	73	36	55	.8	.8	-1	0	7.2	92	11.3	99	85	41	0	0	4	0		
VA NORFOLK	82	60	88	50	71	.1	.1	-2	5	12.0	116	19.2	110	78	37	0	0	2	0		
RICHMOND	82	56	88	46	69	.3	.3	-6	2	14.1	138	21.4	129	85	37	0	0	3	0		
ROANOKE	79	52	85	40	66	.1	.1	-8	1	13.1	125	20.3	126	81	39	0	0	1	0		
WA QUILLAYUTE	71	52	83	47	61	.4	.4	-7	2	28.7	119	37.5	73	94	37	0	0	3	0		
SEATTLE-TACOMA	74	52	85	50	63	.2	.2	-2	2	11.3	151	15.7	93	88	35	0	0	2	0		
SPOKANE	75	49	82	45	62	.3	.3	-2	0	3	108	6.6	88	84	30	0	0	3	0		
YAKIMA	80	45	86	38	62	.1	.1	-1	1	4.3	84	3.0	83	87	28	0	0	1	0		
WV BECKLEY	72	49	78	40	60	.1	.1	-9	1	12.4	118	16.9	103	82	46	0	0	1	0		
CHARLESTON	78	52	85	43	65	.1	.1	-9	1	10.1	95	15.0	90	79	41	0	0	0	0		
HUNTINGTON	78	54	85	45	66	.0	.0	-9	0	9.8	88	15.7	92	82	43	0	0	0	0		
PARKERSBURG	76	53	85	45	65	.1	.1	-8	0	11.9	110	16.4	97	85	42	0	0	1	0		
WI GREEN BAY	66	46	68	35	56	.8	.8	-1	6	7.6	107	9.3	101	87	41	0	0	5	0		
LACROSSE	67	51	77	44	59	1.3	1.3	-5	6	13.1	166	15.5	159	89	56	0	0	5	0		
MADISON	69	48	78	40	59	.3	.3	-2	4	11.6	139	14.4	136	86	40	0	0	5	0		
MILWAUKEE	69	48	80	41	59	.4	.4	-3	2	10.8	122	14.4	121	84	41	0	0	3	0		
WAUSAU	62	45	67	36	54	.5	.5	-3	4	9.1	112	10.9	110	94	53	0	0	3	0		
WY CASPER	72	45	83	34	58	.2	.2	-3	1	5.7	127	7.4	132	88	35	0	0	2	0		
CHEYENNE	67	45	79	38	56	1.0	1.0	-4	6	5.0	108	6.2	114	87	40	0	0	5	0		
LANDER	71	45	81	36	58	.2	.2	-5	0	5.0	93	6.4	98	79	34	0	0	0	0		
SHERIDAN	70	45	84	36	58	.2	.3	-3	2	5.6	114	6.5	103	85	36	0	0	3	0		

Based on 1961-90 normals.

National Agricultural Summary

May 24 - 30, 1993

HIGHLIGHTS: Scattered rainfall occurred across the eastern half of the Nation at the beginning and end of the week, hindering planting activities. Favorable conditions the middle of the week allowed producers to make good fieldwork progress. Dry conditions in Georgia and Florida hindered crop progress. Soil moisture improved in northern California and western Oregon as late-season rains occurred. Temperatures were above normal in the West and normal to slightly-below-normal in the East. Sunshine and warmer weather helped improve crop prospects.

SMALL GRAINS: Wet conditions, especially in Arkansas, caused winter wheat condition to decline slightly in the 19 major producing States. Crop development was less than a week behind normal. Heading of the winter wheat crop was at 74 percent (%), compared with 83% last year and the average of 78%. Pressures from foliar diseases increased in Kansas, although the crop remained in good to excellent condition. Rain delayed the winter wheat harvest in California. Spring wheat condition improved from the previous week but still rated mostly good to excellent in the five major producing States. Spring wheat emergence stood at 91%, compared with 92% last year and average. Small grain development was behind average in North Dakota. Some cereal grain fields showed heat and water stress in Washington. Dry, warm conditions allowed small grains to make good progress in South Dakota.

CORN: Corn planting advanced at a rapid pace last week, and progress was only 1 week behind normal. Planting was 87% complete in the 17 major corn-producing States, compared with 99% last year and 92% average. Good progress occurred in Michigan, Missouri, South Dakota, and Wisconsin. Progress in Ohio and Pennsylvania was ahead of average. Due to wet conditions, some producers in Missouri switched intended corn acreage to other crops. Warm, sunny weather aided the growth of corn in Kansas.

SOYBEANS: Soybean planting progress in the 19 major producing States was 45% complete, compared with 77% last year and 61% average. Progress was ahead of average in the Upper Ohio Valley and the Central Atlantic States. Dry soils delayed plantings for some producers in Georgia and Florida. Wet conditions hampered planting in the Upper Coast district of Texas.

COTTON: Cotton planting progress was ahead of average but behind last year. Planting progress, at 82%, compared with 84% last year and 79% average. Warm weather promoted growth in Louisiana. In Arizona, the crop was in good condition with few weed and insect problems. Cool weather in California hampered growth in many areas. The desert fields, however, grew rapidly. In Texas, planting remained active in the High Plains and neared completion in other areas.

SORGHUM: Planting progress in the 12 major producing States trailed last year's progress and average. Acreage planted, at 49% complete, compared with 66% last year and 59% average. Progress was well behind normal in Illinois, Kansas, and Nebraska. In Texas, planting neared completion in the Blacklands. Some Texas fields suffered from yellow sugarcane Aphids.

RICE: Rice planting progress in the five major States reached 86% complete, compared with 98% last year and 91% average. Rice emergence, at 65%, compared with 89% last year and 79% average. Rice condition was reported mostly fair to good. Louisiana fields were treated for rice water weevils. Rice planting and development was behind normal in California and Texas.

OTHER FIELD CROPS: Peanut planting gained momentum in Texas. In Mississippi, progress remained delayed due to wet fields. Progress in Georgia, Alabama, and Oklahoma was ahead of normal. Dry bean planting progress was ahead of last year in North Dakota, but trailed the 1992 progress in Minnesota, Nebraska, Colorado, and Idaho. First cutting hay harvest advanced where conditions allowed. Harvests generally lagged last year's progress in most areas. In central and eastern Kansas, alfalfa weevils caused some producer problems. Recent rains in California damaged some laying hay. Tobacco condition in North Carolina, Kentucky, and Tennessee rated fair to good. Tobacco setting was active in Kentucky, though conventional bed plants were slow developing. Potato planting progress remained ahead of average in Minnesota, North Dakota, and the Connecticut River Valley, while progress in Idaho, Maine, Michigan, and Rhode Island was behind normal. Onions were in good condition in Georgia and Colorado. Harvest was underway in New Mexico and neared completion in Georgia. Flax planting was ahead of normal in Minnesota and North Dakota, and behind normal in South Dakota. Sunflower planting was ahead of normal in the North Central States. Excellent weather promoted sweetpotato planting in Louisiana.

FRUIT AND NUTS: Dry, cool conditions delayed fruit sizing in the Lake Ontario region of New York. The apple crop potential remained good. The tart cherry crop potential, however, declined. The Ohio fruit crop needed rain. The peach crop rated fair to good across the South. Harvest was underway from central Texas to South Carolina, with progress behind normal. The freestone peach harvest advanced in California. Rain at the end of the week eased dry conditions in the Florida citrus areas. Valencia orange and grapefruit harvests continued in Florida and Arizona. The lemon harvests continued in Arizona and California. Rain in California caused concerns to stonefruit growers. Some California prunes showed brown rot. Grape growers treated orchards for mildew.

VEGETABLES: Rain the end of the week ended a 5-week dry spell in Florida's central and southern growing areas. Although the rain hampered harvest activities, no major damage was reported. Planting activities continued in New Jersey with declining soil moisture. Poor weather conditions slowed vegetable growth in New York, with sweet corn needing warm weather. More rain was needed in Ohio for continued vegetable development. Wet fields hampered harvest of watermelons and tomatoes in the Rio Grande Valley of Texas. Vegetable harvests continued in California, New Jersey, and Florida and was active in Louisiana. Lettuce harvest neared completion in New Mexico.

PASTURE AND LIVESTOCK: Pastures continued in good condition over most of the Nation. Recent rains benefited California pasture condition. Livestock condition across the Nation remained good. Livestock suffered parasite problems in some areas of Texas and Arizona. Iowa cattle needed more sun. Pasture, range, and feed supplies remained adequate. Spot shortages occurred, however, in southwestern and east-central Wisconsin.

Crop Progress

for the Week Ending May 30, 1993

COTTON (Percent Planted)

	Current	Last Wk	1992	Avg.
AL	86	82	98	96
AZ	100	98	99	100
AR	95	77	97	91
CA	100	99	100	100
GA	92	87	86	89
LA	100	98	100	90
MS	93	71	97	91
MO	97	92	100	93
NM	97	90	95	98
NC	95	90	91	93
OK	62	25	45	45
SC	97	93	96	94
TN	93	74	98	85
TX	65	53	70	64
14 States	82	70	84	79

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

GRAIN SORGHUM (Percent Planted)

	Current	Last Wk	1992	Avg.
AR	78	58	96	83
CO	21	9	27	24
IL	12	9	69	55
KS	15	5	40	35
LA	88	77	93	83
MS	71	61	90	82
MO	38	22	81	56
NE	34	8	79	66
NM	28	25	30	NA
OK	56	39	33	29
SD	27	7	53	33
TX	80	74	78	76
12 States	49	37	65	NA
Excl. States with NA	49	37	66	59

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

SPRING WHEAT (Percent Emerged)

	Current	Last Wk	1992	Avg.
ID	79	61	99	97
MN	91	87	89	97
MT	90	69	86	86
ND	91	74	92	90
SD	94	83	100	100
5 States	91	76	92	92

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

WINTER WHEAT (Percent Headed)

	Current	Last Wk	1992	Avg.
AR	99	95	100	100
CA	99	99	99	99
CO	64	15	83	51
GA	100	100	100	100
ID	4	1	25	9
IL	89	53	93	94
IN	63	33	72	80
KS	98	55	100	97
MI	5	0	5	15
MO	80	45	94	97
MT	0	0	9	7
NE	34	3	91	73
NC	96	92	97	99
OH	45	15	40	54
OK	99	94	100	100
OR	53	20	87	56
SD	9	0	43	27
TX	97	87	95	96
WA	29	5	55	39
19 States	74	51	83	78

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

CORN (Percent Planted)

	Current	Last Wk	1992	Avg.
CO	90	87	98	93
GA	100	99	100	100
IL	86	75	100	94
IN	94	79	99	89
IA	83	65	100	94
KS	90	75	99	97
KY	92	77	95	85
MI	90	70	95	95
MN	85	67	99	92
MO	79	35	100	87
NE	95	76	100	98
NC	100	98	99	96
OH	96	90	100	85
PA	80	62	78	68
SD	69	48	100	90
TX	100	99	99	100
WI	75	52	94	90
17 States	87	71	99	92

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

Crop Condition (Percent)

for the Week Ending May 30, 1993

SOYBEANS (Percent Planted)

	Current	Last Wk	1992	Avg.
AL	54	36	48	41
AR	18	8	40	27
GA	36	30	42	40
IL	56	31	89	74
IN	70	45	90	68
IA	34	15	95	76
KS	15	4	50	40
KY	25	15	42	34
LA	57	40	64	39
MI	65	35	75	65
MN	49	27	93	76
MS	18	11	46	34
MO	25	5	69	45
NE	46	13	86	74
NC	48	32	45	41
OH	85	60	84	65
SC	38	24	32	34
SD	37	21	86	69
TN	21	9	42	28
19 States	45	25	77	61

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

RICE (Percent Planted)

	Current	Last Wk	1992	Avg.
AR	85	62	99	88
CA	80	60	95	95
LA	98	93	98	94
MS	65	58	100	87
TX	93	83	100	100
5 States	86	70	98	91

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

RICE (Percent Emerged)

	Current	Last Wk	1992	Avg.
AR	61	39	92	74
CA	35	20	70	69
LA	91	83	93	88
MS	47	37	93	77
TX	84	72	89	93
5 States	65	49	89	79

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

WINTER WHEAT

State	VP	P	F	G	EX
AR	0	19	51	30	0
CA	0	0	5	75	20
CO	1	4	19	57	19
GA	0	17	41	42	0
ID	1	4	16	72	7
IL	0	0	17	77	6
IN	0	2	19	71	8
KS	0	1	6	52	41
MI	5	10	30	40	15
MO	2	11	56	31	0
MT	2	6	23	53	16
NE	0	0	21	71	8
NC	0	0	43	57	0
OH	2	8	29	45	16
OK	0	0	44	54	2
OR	0	0	5	67	28
SD	0	2	8	72	18
TX	0	5	39	52	4
WA	0	0	21	79	0
19 State	0	3	24	57	16
Prev Week	0	2	23	58	17
Prev Year	5	17	41	32	5

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

RICE

State	VP	P	F	G	EX
AR	0	0	60	40	0
CA	0	0	5	90	5
LA	0	1	71	28	0
MS	0	21	79	0	0
TX	0	0	58	35	7
5 State	0	2	57	40	1
Prev Week	N/A	N/A	N/A	N/A	N/A
Prev Year	0	3	46	46	5

COTTON

State	VP	P	F	G	EX
AL	0	10	38	52	0
AZ	0	0	0	77	23
AR	0	11	66	23	0
CA	0	0	5	95	0
GA	0	7	66	27	0
LA	0	2	44	54	0
MS	2	44	52	2	0
MO	0	18	46	36	0
NM	0	8	46	46	0
NC	0	0	37	63	0
OK	0	0	41	59	0
SC	0	14	53	33	0
TN	0	24	47	29	0
TX	0	5	48	41	6
14 State	0	10	45	42	3
Prev Week	N/A	N/A	N/A	N/A	N/A
Prev Year	0	5	50	39	6

SPRING WHEAT

State	VP	P	F	G	EX
ID	0	3	10	80	7
MN	0	2	25	63	10
MT	0	6	23	55	16
ND	0	0	22	68	10
SD	0	0	17	72	11
5 State	0	1	21	67	11
Prev Week	0	1	21	70	8
Prev Year	3	8	25	58	6

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 0.28 to 2.41 in. north; 0.16 to 1.54 in. central; 0.06 to 2.42 in. south. Temperatures 4° below normal to 1° above normal north; 3° below normal to 2° above normal central; 2° below normal to 2° above normal south. Lows 47 to 62° north; 53 to 64° central; 58 to 66° south. Highs 84 to 91° north; 87 to 93° central; 88 to 91° south.

Days suitable for fieldwork 5.4. Soil moisture 23% short, 59% adequate, 18% surplus. Corn silked 4%, 8% 1992, 27% avg.; 1% poor, 20% fair, 72% good, 7% excellent. Sorghum planted 52%, 47% 1992, 58% avg.; 32% fair, 68% good. Peanuts planted 93%, 89% 1992, 93% avg.; 12% fair, 88% good. Wheat headed 95%, 100% 1992, 100% avg.; turning color 53%, 92% 1992, 93% avg.; 6% poor, 27% fair, 64% good, 3% excellent. Hay harvested 61%, 67% 1992, 54% avg. Pasture 4% poor, 19% fair, 69% good, 8% excellent. Primary activities: Planting cotton, peanuts, soybeans, vegetables; applying fertilizer; spraying fruit; marketing cattle; general care of livestock, poultry, catfish.

ALASKA: Temperatures throughout Railbelt remained above average third week in a row. Several record highs were again set across State.

A full week was available for general planting, farming activities. Crop growth moderate to rapid on the Kenai Peninsula, in parts of the Fairbanks area where adequate soil moisture was available. In Delta Junction, the Matanuska Valley, growth was slow to moderate due to extremely dry conditions. Progress 5 days ahead of schedule. Barley, oat seeding was wrapping up. Emergence of oats, barley 80%, 10% less than 1992. Commercial potato planting was 80% complete, 65% 1992. Vegetable seeding, transplanting continues. Topsoil 80% short, 20% adequate. Subsoil 50% short, 50% adequate.

ARIZONA: Sunny, warm most areas except scattered thunderstorms 23rd southeast; 24th northeast, far southeast; 25th east, northeast; 26th to 28th east. Temperatures 3° below to 5° above normal. Extremes 34°; 94° higher elevations; 48°; 110° deserts.

Cotton planting complete. Planted 100%, 99% 1992, 100% avg. Squaring 28%, 23% 1992, 31% avg. Activities included: Irrigating, planting, replanting, pesticide applications, pest monitoring, cultivating. Cotton 77% good, 23% excellent. Insects, weeds mostly light. Alfalfa mostly good. Harvest activities moderate to active. Weeds, insects mostly light; disease light. Small grains turning color 100%, 98% 1992, 96% avg.; harvested 35%, 20% 1992, 27% avg. Fields good to excellent. Bell peppers, chile peppers, grapes, watermelons, honeydews, grapes harvested in western areas. Cabbage, carrots, mixed greens, green onions, kale, parsley, dry onions, potatoes, squash, radishes, mixed greens, central. Fruit

harvest limited to valencia oranges, lemons, grapefruit. Available both western, central areas. Tomatoes, head lettuce harvested eastern.

ARKANSAS: Cool week, temperatures averaging below normal. Scattered showers statewide the latter part of week. Extremes 44°; 91°. Rainfall 0.05 to 1.91 in.

Days suitable for fieldwork 5. Moderate rate of crop growth. Soil moisture supplies 4% short, 76% adequate, 20% surplus. Wheat fair to good, needs sunshine, dry weather. Scab, septoria leaf blotch, glume blotch diseases in some wheat fields. Producers continued to apply burn down chemicals to rice fields. Grape colaspis larvae infestation in some rice fields. Some cotton fields sprayed for thrips, cutworms. Corn, cotton cultivation continued. Sunflowers good. Fruit crop good. Vegetable crop good. Corn 87% planted, 100% 1992, 98% avg. Livestock good, parasite problems in some areas. Pasture good, hay cuttings continued.

CALIFORNIA: Weather system moved through the State middle of week bringing above normal rainfall to northern, central areas. Temperatures cooler than normal at most locations.

Small grains mature most areas. Wheat harvest continuing most areas. Wet weather slowed activity. Barley harvest beginning shortly. Rice seeding progressed. Planting, development behind normal. Fertilizer, herbicide application ongoing. Cotton planting virtually complete. Cool temperatures hampered growth many areas. Desert area fields growing rapidly. Pesticide application continued. New crop sugarbeets planted, irrigated, treated mildew. Harvest of over-wintered sugarbeets winding down. Corn planted, irrigated, sprayed weeds. Oats, winter forage cut silage, greenchop. Alfalfa, oats, sudangrass cut hay. Some windrowed alfalfa rain-damaged. Rain caused concern to stonefruit growers. Cherry harvest winding down; apricot picking active with some loss. Brown rot more of a problem to prune growers. Clingstone peaches thinned; freestone peaches picked. Nectarine, plum harvests active. Grape growers cultivated, treated vineyards for mildew, worms. Table grape harvest active in Coachella Valley; table grapes in San Joaquin Valley treated with gibberellic acid to increase berry size. Avocado picking active. Olive, pomegranate trees setting fruit. Apples, pears sizing. Valencia oranges picked for export. South coast lemon harvest active. Asparagus harvest continued San Joaquin Delta. Broccoli harvest moderate, Salinas-Watsonville; fairly light, Santa Maria, generally good quality both locations. Bell pepper harvest ongoing Coachella Valley, planting continued Merced county. Cabbage harvest continued Fresno, winding down Imperial. Imperial carrot harvesting almost completed. Cauliflower harvest Santa Maria fairly light. Cauliflower harvesting Salinas-Watsonville moderate; variable quality both areas. Santa Maria celery harvest fairly light. Fresh market

tomato harvesting continued Coachella, Imperial Valleys, planting continued other regions. Head lettuce harvest moderate, Salinas-Watsonville, fairly light Santa Maria. Harvest of leaf, romaine lettuce Salinas-Watsonville region, moderate; variable quality. Onions harvested Imperial, Fresno, Merced counties. Squash harvested Tulare, Riverside counties. Squash harvest Imperial County winding down. Watermelon harvest continued Imperial Valley. Sweet corn, tomato harvest continued desert region of Riverside County. Other crops harvested included: Cucumbers, green onions, peas, green beans, eggplant, oriental vegetables. Rangeland, pastures continue to dry rapidly, although recent rains benefited pastures. Cattle movement summer range, feed lots active. Ample feed on spring range. Bees placed in melon fields for pollination.

COLORADO: Series of disturbances moved across the State. Widespread rainfall on the 24th produced 0.10 to 0.50 in. over much of the State. Rainfall up to 0.25 to 1.00 in. on 26th, 27th. Tornadoes, golf ball sized hail were reported on the eastern plains on 28th. Thunderstorms continued in the northeast on the 29th. Temperatures mostly 1 to 3° above normal, somewhat cooler on the far eastern plains.

Days suitable for fieldwork 4.7 Soil moisture 4% very short, 21% short, 61% adequate, 14% surplus. Alfalfa 1st cutting 10%, 35% 1992, 13% avg. Spring barley emerged 90%, 99% 1992, 94% avg. Oats emerged 75%, 93% 1992, 88% avg. All spring grains mostly good to excellent. Spring wheat emerged 75%, 86% 1992, 85% avg. Summer storage onions. Sugarbeets improved last week; thinned 10%, 39% 1992, 26% avg. Dry beans planted 17%, 20% 1992, 12% avg.; emerged 1%, 4% 1992, 2% avg. Sorghum planted 21%, 27% 1992, 24% avg.; emerged 5%, 12% 1992, 10% avg. Corn planted 90%, 98% 1992, 93% avg.; 74% emerged, 91% 1992, 76% avg.; good to excellent. Fall potatoes 97% planted 93% 1992, 93% avg.; emerged 5%, 5% 1992, 3% avg. Winter wheat headed 64%, 83% 1992, 51% avg.; 1% very poor, 4% poor, 19% fair, 57% good, 19% excellent. Livestock mostly good to excellent. Pasture, range feed good to excellent.

FLORIDA: Rain 1.00 to 3.00 in. Peninsula, isolated 5.00 in. to over 10.00 in. southern areas, Panhandle under 0.50 in. Temperatures 2° below normal. Highs generally mid to upper 80s, a few low 90s north, west-central. Lows upper 50s to low 60s north, mostly low 70s, extreme southeast.

Soil moisture mostly short throughout State. Winter wheat harvest active. Planting of cotton, peanuts, soybeans delayed by dry soil conditions. Dry land crops under stress most areas. Haying active. Tobacco, sugarcane both made good progress. Rain over weekend relieved dry conditions in citrus growing areas. Remaining Valencias, grapefruit are softening. Valencia harvest slowing. Supplies running low. Grapefruit harvest almost over. Caretakers cutting cover crops, spraying, hedging, checking irrigation equipment. Five week dry spell ended central, south; 4.00 to 8.00 in. reported several central, coastal locations. North 1.00 in. or less of rain. Rain hampered weekend harvesting activities throughout State, no damage from heavy rains. Harvesting activities winding down Everglades. Sweet corn harvest started Zellwood. Volume leaders: Potatoes, watermelons, tomatoes, sweet corn, cucumbers. Also available: Snap beans, cabbage, carrots, celery, eggplant, peppers, radishes, squash, cherry tomatoes. State's pastures very poor to good. Pasture 10% very poor, 45% poor, 35% fair, 10% good. State's cattle herds fair to good.

GEORGIA: Temperatures 2° above normal to 2° below normal. Extreme highs lower 80s northeast mountains, lower 90s central, south. Lows around 50° mountains, with middle to upper 50s south. Rain 1 to 3 days north, 2 days or less central, south. Rainfall generally under 1.00 in. north. Elsewhere under 0.33 in.

Days suitable for fieldwork 6.0. Soil moisture 25% very short, 45% short, 29% adequate, 1% surplus. Corn 2% very poor, 6% poor, 57% fair, 35% good; 1% silked, 5% 1992, 16% avg.; twisting, needing rain. Cotton 4% squaring, 1% 1992, 3% avg. Sorghum 3% poor, 43% fair, 54% good; 63% planted, 57% 1992, 59% avg.

Peanuts 10% poor, 39% fair, 51% good; 95% planted, 94% 1992, 95% avg.; 5% blooming, 4% 1992, 9% avg.; 0% pegging, 0% 1992, 2% avg. Soybeans 2% poor, 53% fair, 45% good; planting stopped in driest areas. Tobacco 17% poor, 58% fair, 25% good; needs rain. Wheat 4% harvested for grain, 13% 1992, 22% avg. Onions 18% fair, 82% good; 94% harvested, 96% 1992, 99% avg. Watermelons 17% poor, 54% fair, 29% good. Other vegetables 51% fair, 49% good. Apples 8% fair, 92% good. Peaches 15% very poor, 9% fair, 76% good; 9% harvested, 18% 1992, 21% avg. Hay, pastures fair to good. Cattle, hogs good.

HAWAII: Weather sunny, dry. Temperatures mid 60 to high 80s. Rainfall none to 0.40 in.

Normal farming schedules were underway. Growers irrigated crops across islands; necessitated by dry conditions. Spraying for insect control increased vegetable, orchard crops to maintain proper development. Banana production steady. Papaya output seasonally low. Watermelon harvesting heavy targeting Memorial Day weekend.

IDAHO: Temperatures above normal throughout the State. Northern areas, 0.50 in. precipitation. Southern areas scattered thundershowers.

Days suitable for fieldwork 7. Soil moisture 8% short, 91% adequate, 1% surplus. Spring wheat 91% not yet jointed, 8% jointed, 1% booted. Spring barley planted 97%, 100% 1992, 98% avg.; emerged 72%, 99% 1992, 94% avg.; 92% not yet jointed, 8% jointed. Oats planted 87%, 100% 1992, 97% avg.; emerged 65%, 96% 1992, 87% avg. Potatoes planted 87%, 99% 1992, 92% avg.; emerged 26%, 61% 1992, 32% avg. Sugarbeets planted 100%, 100% 1992, 100% avg.; emerged 91%, 100% 1992, 99% avg.; thinned 7%, 67% 1992, 48% avg. Dry peas planted 95%, 100% 1992, 98% avg.; emerged 68%, 100% 1992, 94% avg. Lentils planted 94%, 100% 1992, 98% avg.; emerged 42%, 100% 1992, 94% avg. Field corn planted 84%, 92% 1992, 90% avg.; emerged 49%, 69% 1992, 61% avg. Dry beans planted 17%, 53% 1992, 34% avg. Alfalfa first cutting 10%, 33% 1992, 15% avg. Irrigation water supplies 3% poor, 15% fair, 67% good, 15% excellent. Activities: Planting beans, potatoes, corn. Thinning sugarbeets, irrigating, cultivating, putting up alfalfa, chemically thinning apple trees. Pasture, range condition 96% of normal. Livestock mostly good.

ILLINOIS: Cooler, drier than normal. A cold front produced strong thunderstorms on 30th. Temperatures 1 to 6° cooler than normal. Highs 70s to 80s. Lows mid 40s to 50s. Precipitation 0.30 to 1.30 in.

Days suitable for fieldwork 5.0. Soil moisture 13% short, 70% adequate, 17% surplus. Corn 9% excellent, 72% good, 18% fair, 1% poor; corn height in fields 2 in., 6 in. 1992, 7 in. avg. Advanced fields 5 in., 11 in. 1992, 13 in. avg. Wheat filled 24%, 45% 1992, 50% avg. Oat 10% excellent, 69% good 18% fair, 3% poor; planted 98%, 100% 1992, 100% avg.; headed 3%, 13% 1992, 18% avg. Alfalfa 13% excellent, 77% good, 9% fair, 1% poor; first cut 35%, 56% 1992, 46% avg. Red clover 23% excellent, 73% good, 4% fair; cut 34%, 34% 1992, 32% avg. Pasture 95% of normal.

INDIANA: Overall temperatures 3 to 4° below normal north, 2 to 3° below normal south with mean readings near 60° north to the upper 60s south. Maximums 70 to 81°; mean lows between 47 and 57°. Rainfall 0.50 to 3.00 in. across State.

Days suitable for fieldwork 5. Another good week for fieldwork. Planting advanced rapidly, southern areas. Pastures 95% of normal, 96% last week. Wheat crop ratings declined, 79% rated good to excellent. Topsoil 19% short, 75% adequate, 6% surplus. Subsoil 4% short, 85% adequate, 11% surplus. Corn 73% emerged, 91% 1992, 78% avg.; 4 in. high, 5 in. 1992, 6 in. avg. Soybeans 35% emerged, 68% 1992, 52% avg. Spring tillage 96%, 100% 1992, 100% avg. Alfalfa hay 1st cutting 35%, 37% 1992, 38% avg.

IOWA: Temperatures 3 to 5° below normal. Extremes 37° northeast; 90° west central. Precipitation 0.07 in. southwest to 3.63 in. north central; average 1.20 in. (normal 0.96 in.).

Days suitable for fieldwork 3.5. Topsoil 44% adequate, 56% surplus. Subsoil 29% adequate, 71% surplus. Fertilizer application 86%, 100% 1992, 100% normal. Primary seedbed preparation completed 82%, 100% 1992, 100% normal. Oats sown 95%, 100%

1992, 100% normal; emerged 80%, 100% 1992, 100% normal. Corn emerged 35%, 96% 1992, 86% normal. Soybeans emerged 5%, 66% 1992, 46% normal. First crop alfalfa hay harvested 2%, 10% 1992, 10% normal. Corn 1% very poor, 4% poor, 42 fair, 48% good, 5% excellent. Oat 10% poor 37% fair, 48% good, 5% excellent. Winter wheat 1% very poor, 5% poor, 31% fair, 55% good, 8% excellent. Pasture 1% very poor, 2% poor, 17% fair, 55% good, 25% excellent. Hay 3% very poor, 14% poor, 32% fair, 41% good, 10% excellent. Livestock mostly good, need sun.

KANSAS: Temperatures mostly normal over the State. Precipitation received all districts, mostly light with totals 0.19 to 0.98 in.

Days suitable for fieldwork, 4.0. All districts experienced at least 2 days suitable. Two-thirds of the districts averaged 4 to 6 days suitable. Topsoil 9% short, 69% adequate, 22% surplus. Subsurface 74% adequate, 26% surplus. Corn planting 90% complete, 97% avg. Areas with the most corn yet to be planted are north central, central, northeast districts. Warmer temperatures, sunshine have improved growth of corn. Corn acreage 69% good to excellent, 20% fair, 11% poor to very poor. Sorghum 15% planted, 35% avg. Soybeans 15% planted, 40% avg. Virtually all wheat across the State is heading. Wheat 98% headed, 97% avg. Growth still behind normal. Only trace amounts of the wheat acreage in the southern areas of the State have begun to turn color. Wheat 25% acreage has turned. Diseases pressure in wheat widespread. Because of the ideal conditions, pressure from foliar diseases is becoming greater. Wheat 1% poor, 6% fair, 93% good to excellent. Across the State, 35% alfalfa has been cut the first time. Alfalfa weevils are reaching treatment levels in many areas of central, eastern areas. Pastures good.

KENTUCKY: Near normal temperatures, below normal rainfall. High temperatures near 80°, about normal. Low temperatures upper 50s, few degrees below normal. Precipitation around 0.20 in. Isolated locations received over 1.00 in.

Days suitable fieldwork 5.5. Soil moisture 2% very short, 32% short, 63% adequate, 3% surplus. Showers over Memorial Weekend helpful. Tobacco setting active. Burley 40% set, 63% 1992, 54% avg. Early setting primarily from flotation plants as conventional bed plants slow to develop. Condition early set tobacco fair to good. Dark type tobaccos 43% set. Corn planting approaching completion, some lowlands have been too wet. Emerged corn mostly good. Hay crops good to excellent. Cutting, baling very active. Wheat 13% fair, 81% good, 6% excellent. Most harvest will begin after June 15th. Pastures good to excellent, 94% of normal.

LOUISIANA: Temperatures 2.1 to 3.1° below normal. Extremes 50°; 91°. Rainfall 0.30 in. south central to 1.91 in. southeast.

Days suitable for fieldwork 4.8. Soil moisture 2% short, 93% adequate, 5% surplus. Corn 2% poor, 49% fair, 46% good, 3% excellent; 100% emerged, 100% 1992, 99% avg.; 2% silked, 20% 1992, 16% avg. Cotton 2% poor, 44% fair, 54% good; 97% emerged, 98% 1992, 82% avg.; 0% squaring, 7% 1992, 3% avg. Planting complete, warmer weather helped growth. Hay 54% first cutting, 51% 1992, 43% avg. Harvest continued active. Peaches 22% very poor; 4% poor, 52% fair, 22% good; 2% harvested, 13% 1992, 8% avg. Rice 1% poor, 71% fair, 28% good. Rice treated for water weevils. Sorghum 2% poor, 58% fair, 40% good; 82% emerged, 86% 1992, 76% avg. Soybeans 27% fair, 73% good; 43% emerged, 54% 1992, 34% avg. Planting full swing. Spring plowing 96% plowed, 99% 1992, 94% avg. Sweet potatoes 30% planted, 28% 1992, 31% avg. Excellent weather helped speed planting. Wheat 3% very poor, 45% poor, 27% fair, 25% good; 99% turning color, 99% 1992, 99% avg.; 28% harvested, 41% 1992, 47% avg. Sugarcane 2% poor, 14% fair, 65% good, 19% excellent. Layby was active. Livestock 21% fair, 71% good, 8% excellent. Pastures 1% very poor, 3% fair, 96% good. Vegetables 35% fair, 60% good, 5% excellent. Harvest active.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 0.02 in. Temperature 66.6°, normal 67.1°. Extremes 35°; 89°.

Days suitable for fieldwork 6.3. Topsoil 15% short, 85% adequate. Subsoil 10% short, 90% adequate. Small grains fair to mostly good.

Wheat 93% headed, 90% 1992, 94% avg.; 2% turning, 12% 1992, 16% avg. Barley 51% turning, 34% 1992, 58% avg. Rye 7% turning, 32% 1992, 30% avg. Oats 20% headed, 23% 1992, 25% avg. Corn for grain 91% planted, 91% 1992, 88% avg. Sweet corn 81% planted, 70% 1992, 75% avg. Soybeans 27% planted, 35% 1992, 31% avg. Sorghum 25% planted, 22% 1992, 17% avg. Pasture mostly excellent. Alfalfa hay 68% first cut, 48% 1992, 54% avg. Other hay 47% first cut, 30% 1992, 32% avg. Strawberries 17% harvested, 17% 1992, 28% avg. Tobacco 18% transplanted, 54% 1992, 46% avg.

DELAWARE: Precipitation 0.02 in. Temperature 67.6°, normal 67.3°. Extremes 47°; 89°.

Days suitable for fieldwork 6.8. Topsoil 100% adequate. Subsoil 100% adequate. Small grains fair to mostly good. Wheat 95% headed, 92% 1992, 98% avg.; 4% turning, 1% 1992, 21% avg. Barley 59% turning, 55% 1992, 67% avg. Rye 18% turning, 3% 1992, 16% avg. Corn for grain 94% seeded, 99% 1992, 95% avg. Soybeans 40% planted, 21% 1992, 26% avg. Sorghum 21% planted, 42% 1992, 21% avg. Sweet corn 92% planted, 89% 1992, 79% avg. Strawberries 30% harvested, 22% 1992, 29% avg. Alfalfa hay 66% first cut, 35% 1992, 60% avg. Other hay 72% first cut, 35% 1992, 48% avg. Pastures excellent, hay supplies adequate.

MICHIGAN: Extremes 31°; 85°. Precipitation 0.17 to 2.38 in.

Days suitable for fieldwork 6.0. Soil moisture 25% short, 65% adequate, 10% surplus. Corn 40% emerged, 70% 1992, 70% avg.; 1% very poor, 9% poor, 35% fair, 40% good, 15% excellent. Oats 5% poor, 30% fair, 50% good, 15% excellent. Potatoes 80% planted, 85% 1992, 85% avg. Soybeans 20% emerged, 35% 1992, 35% avg. Potatoes 80% planted, 85% 1992, 85% avg. Hay 5% first cutting, 10% 1992, 10% avg.; 5% very poor, 10% poor, 35% fair, 35% good, 15% excellent. Pasture condition 80% of normal. Major activities: Hauling manure, pruning, spraying, spreading fertilizer, tilling, planting.

MINNESOTA: Temperatures 4 to 8° below normal. Extremes 28°; 84°. Divisional precipitation 0.85 to 2.35 in., which was 0.21 to 1.50 in. above normal. Greatest weekly precipitation 6.76 in.

Days suitable for fieldwork 3.1. Topsoil 1% very short, 3% short, 52% adequate, 44% surplus. Spring wheat 91% emerged, 89% 1992, 97% avg.; 10% jointing, 15% 1992, 19% avg. Oats 85% emerged, 97% 1992, 98% avg.; 13% jointing, 16% 1992, 21% avg. Barley 91% emerged, 84% 1992, 96% avg.; 8% jointing, 7% 1992, 15% avg. Sunflowers 91% planted 80% 1992, 81% avg. Potatoes 95% planted, 86% 1992, 89% avg. Flax 96% planted, 62% 1992, 81% avg. Dry bean 67% planted, 82% 1992, 83% avg. Sweet corn 49% planted, 82% 1992, 70% avg. Green peas 77% planted, 98% 1992, 90% avg. Corn 85% planted, 99% 1992, 92% avg.; 45% emerged, 91% 1992, 76% avg.; 2% cultivated once, 13% 1992, 9% avg. Soybeans 49% planted, 93% 1992, 76% avg.; 10% emerged, 69% 1992, 43% avg. Spring wheat 2% poor, 25% fair, 63% good, 10% excellent. Oats 3% poor, 27% fair, 58% good, 12% excellent. Barley 2% poor, 20% fair, 64% good, 14% excellent.

MISSISSIPPI: Temperatures 71°, 2.8° below normal. Extremes 39°; 91°. Northeast received light rainfall, rest of State received over 1.00 in. Rainfall 1.26 in., 0.18 in. above normal. Soil temperature 73°.

Days suitable for fieldwork 3.1, 4.4 1992, 3.4 avg. Soil moisture 48% adequate, 45% surplus, 7% excessive. Corn 89% planted, 100% 1992, 91% avg.; 77% emerged, 98% 1992, 89% avg.; 3% very poor, 14% poor, 56% fair, 26% good, 1% excellent. Cotton 93% planted, 97% 1992, 91% avg.; 74% emerged, 91% 1992, 83% avg.; 1% squaring, 4% 1992, 5% avg.; 2% very poor, 44% poor, 52% fair, 2% good. Peanuts 52% planted, 70% 1992, 70% avg. Rice 65% planted, 100% 1992, 87% avg.; 47% emerged, 93% 1992, 77% avg.; 21% poor, 79% fair. Sorghum 71% planted, 90% 1992, 82% avg.; 60% emerged, 85% 1992, 75% avg.; 22% poor, 52% fair, 26% good. Soybeans 18% planted, 46% 1992, 34% avg.; 10% emerged, 32% 1992, 23% avg. Sweet potatoes 40% planted, 48% 1992, 56% avg.; 67% fair, 22% good, 11% excellent. Watermelons 89% planted, 92% 1992, 93% avg.; 60% fair, 40% good. Wheat 48% mature, 71% 1992, 73% avg.; 3% harvested, 9% 1992, 11% avg.; 38% poor, 59% fair, 3% good. Hay 31% harvested, 42% 1992, 27% avg. Peaches 6% harvested, 24% 1992, 10% avg.; 4% very poor, 39% poor, 39% fair,

18% good. Livestock 15% fair, 69% good, 16% excellent. Pasture 95% of normal. Activities: Planting crops, pest control.

MISSOURI: Temperatures close to or just below normal. Rainfall 0.73 in., west central district highest at 1.73 in. Other districts all less than 1.00 in.; 0.38 in. east central to 0.88 in. southeast.

Days suitable for fieldwork 5.4. Topsoil 1% short, 81% adequate, 18% surplus. Excellent planting progress, still well behind normal. Corn planting least advanced east central 57%, west central 61%, most advanced southeast 100%. Some farmers switching intended corn acres to other crops. Single crop soybean planting by area ranges from 12% southwestern district, around 20% across central districts, to 40% southeast. Sorghum planting most advanced southeastern district, 68%, other main cropping districts range 14 to 29%. Wheat turning color 6%, 22% 1992, 39% avg. First crop alfalfa 35%, 50% 1992, 46% avg. Other hay 19%, 18% 1992, 20% avg. Pasture 11% fair, 67% good, 22% excellent.

MONTANA: Temperatures 2 to 6° above normal west of divide, south-central division; rest of State 2° below normal. Precipitation normal to above normal, except below normal in the southwest, south central, and northeast.

Days suitable for fieldwork 5.9. Topsoil moisture 40% short, 56% adequate, 4% surplus. Subsoil moisture 38% short, 55% adequate, 7% surplus. Barley 4% poor, 24% fair, 50% good, 22% excellent; planted 97%, 99% 1992, 97% avg.; emerged 83%, 86% 1992, 84% avg. Oats 5% poor, 25% fair, 57% good, 13% excellent; planted 96%, 97% 1992, 96% avg.; emerged 78%, 81% 1992, 78% avg. Sugarbeets 8% fair, 72% good, 20% excellent; planted 100%, 100% 1992, 100% avg.; emerged 85%, N.A. 1992, N.A. avg. Corn planted 95%, 95% 1992, 88% avg.; emerged 36%, 76% 1992, N.A. avg. Dry beans planted 95%, 92% 1992, 79% avg.; emerged 30%, 55% 1992, N.A. avg. Potatoes planted 75%, 89% 1992, 78% avg.; emerged 12%, 22% 1992, N.A. avg. Pasture, range feed 79% of normal. Stockwater supply 11% short, 75% adequate, 14% surplus. Movement of cattle, calves to summer ranges 79%, sheep, lambs 68%.

NEBRASKA: Temperatures 1 to 4° below normal. Precipitation fell during the latter half of week with 0.10 in. to almost 1.00 in.

Days suitable for fieldwork 5.3. Topsoil 5% short, 72% adequate, 23% surplus. Subsoil 1% short, 76% adequate, 23% surplus. Winter wheat 21% fair, 71% good, 8% excellent; 34% headed, 91% 1992, 73% avg. Corn 95% planted, 100% 1992, 98% avg.; 59% emerged, 93% 1992, 87% avg. Sorghum 34% planted, 79% 1992, 66% avg.; 5% emerged, 48% 1992, 38% avg. Soybeans 46% planted, 86% 1992, 74% avg.; 7% emerged, 52% 1992, 42% avg. Dry beans 10% planted, 17% 1992. Alfalfa 5% fair, 82% good, 13% excellent; 1st cutting 9% harvested, 38% 1992, 22% avg. Pasture, range condition 100% of normal.

NEVADA: Low pressure prevailed, with partly cloudy skies; gusty southwest winds common. A few afternoon thundershowers produced limited precipitation in northern, central regions. Temperatures 1° below to 7° above normal.

Crop condition remained generally good most areas. Irrigation water supplies generally adequate; conserving practices remain in effect. First cutting alfalfa hay underway central areas, second cutting underway extreme south. Movement of livestock to summer grazing areas continued.

NEW ENGLAND: Precipitation 0.08 to 1.80 in. north; 0.01 to 0.34 in. south. Temperatures 51 to 65° north; 55 to 68° south. Maximum temperatures 68 to 81° north; 73 to 87° south. Minimum temperatures 32 to 45° north; 36 to 49° south.

Days suitable for fieldwork 6.2. Soil moisture 41% short, 50% adequate, 9% surplus. Available grazing 15% short, 78% adequate, 7% surplus. Fieldwork progress 2 days behind schedule. Maine potatoes 75% planted, 75% 1992, 80% avg.; good; emerged 0%, 10% 1992, 10% avg. Connecticut River Valley potatoes 95% planted, 95% 1992, 90% avg.; emerged 60%, 55% 1992, 65% avg.; good. Rhode Island potatoes 75% planted, 90% 1992, 80% avg.; emerged 35%, 50% 1992, 45% avg.; good. Maine oats 80% planted,

85% 1992, 85% avg.; good. Field corn 65% planted, 80% 1992, 70% avg.; emerged 25%, 40% 1992, 40% avg.; good. Sweet corn 70% planted, 75% 1992, 70% avg.; emerged 35%, 45% 1992, 45% avg.; good. Hay good. Pears, peaches in fruit set. Strawberries, apples in petal fall. Massachusetts cranberries bud stage. Shade tobacco 90% planted in CT; 60% in MA. Outdoor tobacco 35% planted in CT, 25% in MA. Major farm activities: Finishing planting corn, potatoes, tobacco, vegetables; irrigation of fields, spraying weeds. Beginning to cut first stand of hay.

NEW JERSEY: Temperatures near normal. Extremes 38°; 89°. Rainfall 0.01 in. north, none central, south. Heaviest 24 hour total 0.06 in. on 28th, 29th. Estimated soil moisture, in percent field capacity, averaged 61% north, 52% central, 61% south. Soil temperature at 4 in. averaged 60° north, 63° central, 64° south.

Field preparation, planting continues. Soil moisture content short overall. Harvest of spring vegetables continues while harvest of strawberries, squash is underway. Planting of sweet corn, fresh tomatoes completed in most areas. Asparagus, beets, leafy greens, endive, escarole, green onions, leeks, lettuce (all types except Iceberg), parsley, spinach available in good supply. Limited supply of Savoy cabbage, peas, Chinese cabbage available. Thinning of peaches reported in some areas. Fruit generally good. Cutting hay. Planting of corn, soybeans continues in some areas. Pastures looks good.

NEW MEXICO: Temperatures 3 to 4° above normal. Readings were especially warm over the northwestern plateau at 6 to 8° above normal. Scattered showers produced generally light totals under 0.10 in., with northern, central mountains receiving 0.20 to 0.30 in.

Days suitable for fieldwork 6.7. Soil moisture 74% short, 26% adequate. Crop conditions: Alfalfa 11% poor, 29% fair, 54% good, 6% excellent with second cutting started. Corn 32% fair, 63% good, 5% excellent. Irrigated wheat 9% poor, 18% fair, 68% good, 5% excellent. Dryland wheat 23% very poor, 26% poor, 28% fair, 23% good. Wheat crop 99% headed. Chile 29% fair, 71% good. Onions 9% poor, 18% fair, 64% good, 9% excellent; harvest underway. Lettuce harvest nearly over. Cattle, sheep fair to good. Range, pasture 72% of normal.

NEW YORK: Week began with highs generally in the 70s, lows in 30s and 40s. Warm front crossed State 24th, bringing near 0.50 in. rain in St. Lawrence Valley. Temperatures reached 80s in Hudson Valley on 25th. May 26 was dry, much cooler in east, 27th was cool statewide. Another warm front crossed State on 28th bringing widespread rain. May 29 was much cooler, mostly dry.

Days suitable for fieldwork 5.5. Soil moisture mostly adequate; some areas short. Hay mostly good, first cuttings have begun many areas. Wheat fair to good, growth slowed by cool, dry weather. Corn planting 78% complete, 72% 1992, 61% avg. Oats 92% planted, 85% 1992, 72% avg. Potato plantings on schedule. Dry, cool weather delaying fruit sizing in Lake Ontario region. Apple crop potential good. Tart cherries exhibit significantly reduced crop from last year. Vegetable growth also slowed by poor weather conditions. Celery planting continues in Orange County. Lettuce blocking underway. Sweet corn needs warmer weather to grow.

NORTH CAROLINA: Temperatures 2° below normal to 2° above normal. Precipitation 2.30 in. at Wilsonville to a trace at Wilmington.

Days suitable for fieldwork 5.8. Soil moisture 6% very short, 37% short, 57% adequate. Crop condition: Pasture 3% poor, 14% fair, 79% good, 4% excellent; winter wheat 43% fair, 57% good; oats 38% fair, 62% good; barley 31% fair, 69% good; rye 29% fair, 71% good; field tobacco 24% fair, 76% good; irish potatoes 18% fair, 73% good, 9% excellent; corn 25% fair, 71% good, 4% excellent; hay 15% fair, 78% good, 7% excellent; peaches 10% fair, 70% good, 20% excellent; truck crops 30% fair, 65% good, 5% excellent; cotton 37% fair, 63% good. Hay, roughage supplies 3% very short, 7% short, 83% adequate, 7% surplus. Corn planted 100%, 99% 1992, 98% avg. Flue-cured tobacco transplanted 97%, 98% 1992, 97% avg.; cotton planted 95%, 91% 1992, 93% avg.; peanuts planted 98%, 89% 1992, 88% avg.; sorghum planted 60%, 55% 1992, 51% avg.; soybeans planted 48%, 45% 1992, 41% avg.; sweet potatoes transplanted 55%,

47% 1992, 46% avg. Burley tobacco transplanted 31%, 33% 1992, 49% avg. Major activities: Transplanting tobacco plants; planting peanuts, sorghum, soybeans; cutting hay. Other activities: Planting corn; sidedressing tobacco; applying nitrogen to corn; preparing for small grains harvest; tending livestock; general farm maintenance.

NORTH DAKOTA: Series of low pressure systems moved south of the State, bringing cool, moist easterly winds. Temperatures 5 to 7° below normal. Extremes 23°, 85°; both northeast. Precipitation 0.39 in. north central to 1.37 in. southeast.

Days suitable for fieldwork 4.5. Topsoil 16% short, 79% adequate, 5% surplus. Subsoil 7% very short, 41% short, 50% adequate, 2% surplus. Small grain planting mostly complete. Emerged crop in mostly good, development was behind last year and average. Spring wheat 22% fair, 68% good, 10% excellent; durum 32%, 67%, 1%; oats 25%, 68%, 7%; barley 23%, 69%, 8%; winter wheat 21%, 73%, 6%. Hard red spring wheat 87% emerged thru stooling, 4% jointing and beyond; 84%, 8% 1992; 79%, 11% avg.; durum wheat 79% emerged thru stooling, 2% jointing and beyond; 79%, 4% 1992; 76%, 5% avg.; barley 86% emerged thru stooling, 7% jointing and beyond; 83%, 8% 1992; 79%, 12% avg.; oats 84% emerged thru stooling, 5% jointing and beyond; 81%, 11% 1992; 77%, 10% avg. Winter wheat 59% jointing, 4% boot and beyond; 55%, 18% 1992; 54%, 19% avg. Sugarbeets 100% emerged, 95% 1992; corn 92% planted, 95% 1992, 90% avg; flax 87%, 83% 1992, 80% avg.; potatoes 98%, 91% 1992, 93% avg.; soybeans 93%, 95% 1992, 86% avg.; dry beans 84%; 77% 1992, 77% avg.; sunflower 68%, 66% 1992, 66% avg. Average height of emerged late season crops: corn, flax, soybeans, sugarbeets 2 in. Post emerged herbicide application for broadleaf control 26% complete, wild oats 44%. Range, pasture conditions 81% of normal; furnished 90% roughage requirements. Stockwater supplies 1% very short, 5% short, 94% adequate.

OHIO: Cool, dry weather continued, with rain arriving during the weekend. Temperatures 1 to 5° below normal. Highs in the 70s, lows were in the upper 40s to mid 50s. Precipitation again on the light side, with around 0.50 in. or less observed in most areas. Coshocton had the most rainfall with 1.77 in.

Days suitable for fieldwork 6.3. Topsoil 48% short, 50% adequate, 2% surplus. Potatoes planted 95%, processing tomatoes planted 70%, strawberries harvested 2%. Alfalfa 1st cut harvested 30%, other hay 1st cut harvested 17%. Pasture 1% very poor, 3% poor, 25% fair, 56% good, 15% excellent. Hay 1% very poor, 3% poor, 26% fair, 55% good, 15% excellent. Oats 3% very poor, 6% poor, 33% fair, 51% good, 7% excellent. Planting activity was limited only by some hard, dry soils. Dry weather has slowed emergence, growth of spring planted crops. Vegetable, fruit crops looked good, were in need of rain for continued development.

OKLAHOMA: Temperatures 2° below normal south central to 2° above normal panhandle, east central. Precipitation none west central to 0.56 in. north central.

Days suitable for fieldwork 4.1. Topsoil 48% adequate, 52% surplus. Subsoil 100% adequate. Wheat 44% fair, 54% good, 2% excellent; 99% heading, 100% 1992, 100% avg.; 44% soft dough, 89% 1992, 66% avg. Oats 96% jointing, 100% 1992, 100% avg.; 79% heading, 100% 1992, 87% avg.; 25% soft dough, 67% 1992, 54% avg. Barley 98% jointing, 100% 1992, 100% avg.; 75% heading, 100% 1992, 82% avg.; 24% soft dough, 81% 1992, 51% avg. Corn 96% up to stand, 98% 1992, 91% avg.; 10% tasselling, 0% 1992, 0% avg. Sorghum 89% seedbed prepared, 84% 1992, 95% avg.; 56% planted, 33% 1992, 29% avg.; 30% up to stand, 16% 1992, 15% avg. Soybeans 61% seedbed prepared, 87% 1992, 97% avg.; 28% planted, 29% 1992, 39% avg.; 18% up to stand, 14% 1992, 15% avg. Peanuts 89% seedbed prepared, 95% 1992, 98% avg.; 51% planted, 51% 1992, 47% avg.; 14% up to stand, 37% 1992, 18% avg. Cotton 90% seedbed prepared, 99% 1992, 98% avg.; 62% planted, 45% 1992, 45% avg.; 27% up to stand, 28% 1992, 21% avg. Alfalfa 75% 1st cut, 70% 1992, 84% avg.; 2% 2nd cut, 1% 1992, 3% avg. Pastures 98% of normal. Livestock 12% fair, 88% good. Prices for feeder steers, heifers steady. Marketings average.

OREGON: Temperatures 4 to 7° above normal west, 1 to 3° above normal east. South-central normal to 1° below normal. Precipitation: coast 1.00 to 2.00 in., western interior 1.00 in., elsewhere 0.50 in. or less. Thunderstorms occurred the later part of the week.

Soil moisture 4% short, 84% adequate, 12% surplus. Winter wheat 5% fair, 67% good, 28% excellent; headed 53%. Barley planted 93%. First crop alfalfa cuttings nearing completion. Dry conditions provide good growing conditions, eastern areas. Wet conditions halted most fieldwork, western areas. Onion planting nearly complete, processing vegetable crop plantings still continue; Willamette Valley. Potato planting 95% complete, 65% emerged; Malheur County. Cranberry development at bloom stage in Stevens beds, hook stage in McFarlin beds; southern coast. Scab sprays being applied, Willamette Valley. Strawberries started to ripen, earliest varieties being picked. Livestock good to excellent. Western pastures showing good growth, livestock could not keep up with rapid growth. Eastern pastures continued growing well. Branding concluding. Summer range turn out underway. Range, pasture condition 100% of normal.

PENNSYLVANIA: Above normal temperatures; below normal precipitation. Frost north central areas. Temperature 66°, 7° above normal. Extremes 29°; 89°. Rainfall 0.25 in., 0.57 in. below normal.

Days suitable for fieldwork 6. Soil moisture 68% short, 31% adequate, 1% surplus. Plowing 95% complete, 94% 1992, 92% avg. Corn 80% planted, 78% 1992, 68% avg. Soybeans 47% planted, 44% 1992, 34% avg. Oats 97% planted, 99% 1992, 98% avg. Potatoes 76% planted, 83% 1992, 81% avg. Barley 81% boot, 84% 1992, 86% avg.; 67% heading or headed, 66% 1992, 72% avg. Wheat 76% boot, 79% 1992, 81% avg.; 39% heading or headed, 45% 1992, 49% avg.; 2% very poor, 5% poor, 19% fair, 57% good, 17% excellent. Oats 4% very poor, 8% poor, 29% fair, 49% good, 10% excellent. Hay stands mostly fair to good. Alfalfa first cutting 30% complete, 26% 1992, 24% avg. Quality of hay made 17% fair, 83% good. Feed from pastures good to excellent. Peaches 100% pink, 99% 1992, 100% avg.; 95% full bloom or past, 98% 1992, 99% avg. Cherries 100% pink, 98% 1992, 100% avg.; 100% full bloom or past, 93% 1992, 97% avg. Apples 100% pink, 98% 1992, 99% avg.; 95% full bloom or past, 95% 1992, 96% avg. Activities: Hauling manure; plowing, seedbed preparation; planting of corn, soybeans, potatoes; making hay; spraying; fixing fence; caring for livestock.

PUERTO RICO: Island rainfall of 2.94 in. was 1.49 in. above normal. Highest weekly totals 6.49 in. at Morovis and 5.97 in. at Roosevelt Roads. Highest 24-hour total was 4.41 in. at Morovis on May 24. Island temperatures 74 to 78° in the interior and around 80° on the coasts. Mean station temperatures 66.6° at Pico del Este--Luquillo to 82.5° at Rincon and Mayaguez. Extremes 63°, 94°.

SOUTH CAROLINA: Temperatures near normal to 2° below normal. Average precipitation 0.20 in., although few areas received heavy rains from sporadic thunderstorms.

Days suitable for fieldwork 6.2. Soil moisture 12% very short, 66% short, 22% adequate. Corn fair to good. Tobacco fair to good. Cantaloupes fair to good; 91% planted, 88% 1992, 87% avg. Watermelons fair to good; 91% planted, 92% 1992, 91% avg. Cucumbers good; 92% planted, 92% 1992, 92% avg. Snapbeans fair to good; 85% planted, 78% 1992, 81% avg. Tomatoes good. Oats fair to good; 85% turning color, 89% 1992, 89% avg.; 42% ripe, 48% 1992, 54% avg. Rye fair to good; 79% turning color, 81% 1992, 84% avg.; 31% ripe, 50% 1992, 49% avg. Wheat fair to good; 83% turning color, 83% 1992, 90% avg.; 21% ripe, 33% 1992, 52% avg. Grain hay fair to good; 80% harvested, 70% 1992, 75% avg. Peaches fair to good; 1% harvested, 3% 1992, 6% avg. Pasture fair to good.

SOUTH DAKOTA: Temperatures 0 to 5° below normal. Extremes 26°; 87°. Precipitation was above normal southeast, near or below normal elsewhere with amounts none to over 2.00 in. Heaviest rainfall 2.45 in. at Sioux Falls. Rainfall since May 5th is 0.50 to 2.00 in. above normal for the State.

Days suitable for fieldwork 4.6. Topsoil 3% very short, 26% short, 49% adequate, 22% surplus. Subsoil 2% very short, 11% short, 65% adequate, 22% surplus. Rye 10% fair, 69% good, 21% excellent. Oats

2% poor, 17% fair, 74% good, 7% excellent. Barley 21% fair, 70% good, 9% excellent; 99% planted, 100% 1992, 100% avg. Oats 96% planted, 100% 1992, 100% avg. Flax 62% planted, 79% 1992, 76% avg. Sunflowers 41% planted, 42% 1992, 30% avg. Drier weather allowed fieldwork to progress rapidly over much of the State. However most fields were still water logged in the southeast part of the State where heavy rains hit again. Small grain development made good progress, Tan Spot Septoria, wheat Streak Mosaic diseases were reported in winter wheat fields. Livestock 2% fair, 78% good, 20% excellent. Pasture conditions 92% of normal.

TENNESSEE: Temperatures close to normal. The east was slightly below normal, west slightly warmer than normal. Extremes 45°, 90°. Rainfall was below normal, amounts 0.09 to 1.31 in.

Days suitable for fieldwork 4.6. Soil moisture 4% short, 93% adequate, 3% surplus. Corn 96% planted, 98% 1992, 90% avg.; 2% poor, 27% fair, 71% good. Cotton 93% planted, 98% 1992, 85% avg.; 24% poor, 47% fair, 29% good. Sorghum 61% planted, 89% 1992, 62% avg. Soybeans 21% planted, 42% 1992, 28% avg. Tobacco 55% transplanted, 72% 1992, 80% avg.; 2% poor, 23% fair, 73% good, 2% excellent. Wheat 40% turning color, 77% 1992, 64% avg.; 5% poor, 28% fair, 65% good, 2% excellent. Alfalfa 83% 1st cutting harvested, 81% 1992, 79% avg. Hay 11% fair, 72% good, 17% excellent. Cattle 6% fair, 82% good, 12% excellent.

TEXAS: A disturbance lingered over coastal sections, triggering thunderstorms Southeast, South Central, Southern areas. Upper air disturbances brought thunderstorms mainly to the High Plains and the north late in week. Cloudiness, showers held down temperatures with readings above normal only for the Northern High Plains.

Crops: Fieldwork resumed as excessive moisture was no longer a problem for most areas. Hot, humid drying conditions were prevalent, except along the Upper coast where rains continued to delay fieldwork. Corn planting was completed in the High Plains. Some fields in the Blacklands were suffering from yellow sugarcane aphid, chinch bug activity. Central Texas showing excellent growth Statewide corn 86% of normal, 93% 1992. Cotton planting remained active in the High Plains, nearing completion in some areas. Rice planting was almost completed in the Upper Coast, continued to lag normal progress. Sorghum planting near complete in Blacklands, some fields suffering from yellow sugarcane Aphids. Small grains harvest in full swing in Central Texas. Limited harvesting had begun in parts of the Low Plains, Cross Timbers, Blacklands, Edwards Plateau. Peanut planting in full swing throughout State. Soybeans planting slowed in the Upper coast due to recent rain. Blackland planting was winding down, stands showed good growth.

Commercial Vegetables: In the Rio Grande Valley, watermelon harvesting continued. Whitefly pressure was light. Harvesting of tomatoes, watermelons was slowed due to wet fields. San Antonio Winter Garden, cucumber harvesting underway. Cabbage, onion harvesting continued. Watermelon crop was progressing well. East Texas sweet potatoes were set out. High Plains producers irrigated onions. Chile, jalapeno peppers were planted. Potatoes, carrots continued to make good progress. Trans-Pecos yields, quality of onions good, some fields were high with root rot. Peach harvesting of early, mid varieties underway Central Texas. Canker showed up in some orchards in East Texas. Disease caused some damage in the Cross Timber. Pecan spraying began in Low Plains with first application for Pecan Nut Casebearer.

Range and Livestock: Range, pasture continued to improve across State. Hornfly population was building in Edwards Plateau where ranchers were spraying for flies, grubs. Ranchers continued to move cattle off of small grain pastures in the Blacklands. For the most part livestock remained in good shape across State.

UTAH: Both maxima, minima 5° above normal. Precipitation was moderate in the northern mountains, light across the rest of State except for Dixie, western which had no measurable precipitation.

Days suitable for fieldwork 6.6. Soil moisture 25% short, 69% adequate, 6% surplus. Winter wheat jointed or better 92%, 100% 1992; headed or better 16%, 53% 1992. Spring wheat jointed or better 42%, 90% 1992, 68% avg. Barley jointed or better 66%, 93% 1992, 81% avg. Oats emerged 92%; jointed or better 22%, 62% 1992. Corn planted 91%, 95% 1992; emerged 60%. Alfalfa 1st cutting 14% complete compared with 42% 1992. Cattle moved to spring range 71%, 71% 1992, 57% avg. Sheep moved to spring range 65%, 61% 1992. Pasture, range good to excellent.

VIRGINIA: Temperatures below normal. Extreme high 88°. Highest precipitation total was the 0.70 in. recorded at Painter.

Days suitable for fieldwork 5.2. Topsoil 10% short, 80% adequate, 10% surplus. Pasture 9% fair, 74% good, 17% excellent. Alfalfa 10% fair, 64% good, 26% excellent. Other hay 16% fair, 63% good, 21% excellent. Barley 1% harvested, 0% 1992, 6% avg. Apple 11% fair, 67% good, 22% excellent. Potato 100% good. Corn 94% planted, 92% 1992, 91% avg.; 34% fair, 61% good, 5% excellent. Peanuts 97% planted, 96% 1992, 98% avg. Soybeans 29% planted, 33% 1992, 36% avg.; 20% fair, 80% good. Cotton planting completed. Flue tobacco 86% transplanted, 98% 1992, 96% avg. Burley tobacco 25% transplanted, 43% 1992, 45% avg. Dark-fired tobacco 65% transplanted, 82% 1992, 77% avg. Sun-cured tobacco 80% planted, 98% 1992, 89% avg. All tobacco 17% poor, 36% fair, 47% good. Cutting, baling hay, spraying for cereal leaf beetles, planting corn, soybeans, topdressing some corn, spraying fruit trees, cultivating tobacco, cotton, planting vegetables, picking strawberries.

WASHINGTON: Temperatures 2 to 7° above normal west; 2° below normal to 6° above normal east. Precipitation 0.05 to 0.92 in. west; none to 0.56 in. east.

Days suitable for fieldwork 6.3. Soil moisture 44% short, 56% adequate. Irrigation water supply 17% short, 83% adequate. Hay, other roughage 11% very short, 26% short, 63% adequate. Range, pasture 18% poor, 22% fair, 50% good, 10% excellent. Winter wheat dryland 25% fair, 75% good; irrigated 100% good. Spring wheat dryland 20% fair, 80% good; irrigated 100% good. Barley dryland 25% fair, 75% good; irrigated 100% good. Warm weather with intermittent showers dominated for most of week. Spring grain seeding was finally wrapping up across the State. Some heat, water stress was reported in the cereal grains. First cutting of alfalfa continued. Berries were in full bloom and beyond. Ranges, pasture condition was widely varied. Green chopping, grass silage making continued.

WEST VIRGINIA: Temperature 64°. Extremes 34°, 90°. Precipitation 0.19 in.

Days suitable for fieldwork 5.7. Soil moisture, 27% short, 73% adequate. Soil prepared, 85%. Wheat, 5% fair, 95% good; 94% headed. Barley, good; 100% headed, 35% ripe. Oats, 62% fair, 38% good; 100% planted, 91% emerged. Corn, 1% poor, 8% fair, 91% good; 78% planted, 53% emerged. Soybeans, 26% planted, 12% emerged. Hay, 34% fair, 51% good, 15% excellent. Apples, good. Peaches, good. Tobacco beds, 38% fair, 62% good. Pastures, 20% fair, 63% good, 17% excellent; 90% of normal. Cattle, 2% fair, 98% good. Sheep, good. Gardens, 6% poor, 29% fair, 59% good, 6% excellent; 72% planted, 50% emerged. Activities: General maintenance, planting corn, gardens, soybeans, cutting hay, setting tobacco.

WISCONSIN: Temperature 54°; 6° below normal. Extremes 24°, 82°. Precipitation 1.10 to 1.90 in.

Days suitable for fieldwork 3.1. Soil moisture 54% adequate, 46% surplus. Pasture 86% of normal, 77% 1992, 77% avg. General condition of crops 5% poor, 30% fair, 59% good, 6% excellent. Oats 7% poor, 29% fair, 58% good, 6% excellent. Corn 1% very poor, 12% poor, 31% fair, 53% good, 3% excellent; 75% planted, 94% 1992, 90% avg. Winter wheat 1% very poor, 4% poor, 21% fair, 67% good, 7% excellent. Soybeans 43%, 84% 1992, 69% avg. Hay, roughage supplies for spring feeding are mostly adequate except in the southwest district, counties surrounding Lake Winnebago.

WYOMING: Statewide average temperature 2° above normal. Warmest in the west, southwest. Precipitation was mostly below normal, except in the north-central and southeast, where it was slightly above normal.

Days suitable for fieldwork 6.0. Topsoil 9% short, 87% adequate, 4% surplus. Subsoil 14% short, 79% adequate, 7% surplus. Spring wheat 84% emerged, 95% 1992, 84% avg.; 3% jointed, 34% 1992. Oat 80% emerged, 85% 1992, 78% avg.; 2% jointed, 26% 1992. Barley 79% emerged, 93% 1992, 90% avg.; 12% jointed, 41% 1992. Sugarbeets 88% emerged, 85% 1992, 86% avg. Corn 88% planted, 96% 1992, 86% avg.; 59% emerged, 56% 1992, 47% avg. Dry beans 26% planted, 41% 1992, 36% avg. Winter wheat 68% jointed, 80% 1992; 25% boot, 37% 1992; 4% headed, 16% 1992. All crops mostly good. Alfalfa prospects 84% good, 16% excellent. Range ewes lambed 88%. Percent of cattle, calves moved to summer ranges 62%. Percent of sheep, lambs moved to summer ranges 53%. Range, pasture good to excellent.

May 1993
MONTHLY DATA FROM SELECTED FOREIGN CITIES
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
***** = DATA NOT AVAILABLE**

International Weather and Crop Summary
HIGHLIGHTS

May 23 - 29, 1993

FSU: Light showers helped spring grain establishment in western Russia. Dry weather in Kazakhstan allowed spring grain planting, but unseasonably cool weather slowed germination.

EUROPE: Beneficial rain fell over western and northern crop areas, but dryness persisted in Hungary.

SOUTH ASIA: Rain improved rice prospects in southern and eastern India.

SOUTHEAST ASIA: Widespread showers benefited Indochina's main season grains.

EASTERN ASIA: Dryness stressed newly emerged crops in Manchuria. Heavy showers caused flooding across southern China.

AUSTRALIA: Dryness continued to delay wheat planting in Queensland. Rain benefited topsoil moisture across Western Australia.

SOUTH AMERICA: Showers caused additional flooding and soybean harvest delays across central Argentina. Sub-freezing weather burned back winter wheat in portions of southern Brazil.

CANADA: Warmer weather is needed for crop development.

MEXICO: Dry weather continued across the western corn belt, while seasonal rains benefited crops in the east.

COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)	
		AVG MAX	AVG MIN	HI	LO	AVG	DPART F/NRM	DPART TOTAL F/NRM
NORWAY	OSLO	17	6	25	1	12	2.3	110 48
SWEDEN	STOCKHOLM	20	7	26	0	14	3.0	6 -24
FINLAND	HELSINKI	19	7	28	-1	13	3.0	17 -17
U KING	GLASGOW	14	6	21	-1	10	-0.9	87 16
	EDINBURGH	13	6	19	0	10	-0.3	129 78
	BIRMINGHAM	16	7	24	-2	12	0.7	73 17
	LONDON	17	8	26	1	13	1.4	65 10
IRELAND	DUBLIN	13	7	17	1	10	-0.2	149 94
ICELND	REYKJAVIK	8	3	12	-2	6	-0.7	62 19
DENMRK	COPENHAGEN	19	9	26	2	14	2.2	6 -36
LUXEMB	LUXEMBOURG	19	10	27	4	15	2.5	128 53
SWITZL	ZURICH	20	10	29	6	15	2.9	128 22
	GENEVA	21	10	30	4	15	2.3	53 -20
FRANCE	PARIS/ORLY	19	11	27	5	15	***	79 **
	STRASBOURG	21	11	30	4	16	2.3	53 -24
	BOURGES	20	10	28	6	15	1.6	71 -10
	BORDEAUX	21	11	28	4	16	1.8	66 -11
	TOULOUSE	21	12	25	8	17	2.0	115 41
	MARSEILLE	23	14	29	9	18	1.5	24 -18
SPAIN	VALLADOLID	19	8	24	2	14	0.1	83 36
	MADRID	22	9	28	1	16	-0.9	54 13
	SEVILLE	25	13	31	10	19	-1.2	64 25
PORTUG	LISBON	19	13	22	9	16	-1.4	102 59
GERMNY	HAMBURG	20	9	28	-1	15	2.3	67 11
	BERLIN	22	12	30	5	17	2.9	67 11
	DUSSELDORF	21	11	29	4	16	2.0	54 -6
	LEIPZIG	21	10	29	3	16	3.2	33 -18
	DRESDEN	22	11	29	4	16	3.4	64 1
	STUTTGART	20	10	29	5	15	2.5	66 -14
	NURNBERG	22	11	30	4	16	3.1	50 -15
AUSTRI	VIENNA	24	11	30	7	17	2.1	23 -39
	INNSBRUCK	24	10	32	5	17	3.4	37 -54
CZECH	PRAGUE	22	9	28	4	16	2.8	49 -30
POLAND	WARSAW	22	10	28	5	16	2.9	38 -20
	LODZ	22	11	29	1	16	3.5	28 -23
	KATOWICE	22	9	28	5	16	2.7	14 -54
	PRZEMYSL	22	10	26	6	16	2.5	67 -9
HUNGAR	BUDAPEST	26	13	30	10	19	3.5	13 -41
F YUGO	BELGRADE	26	14	32	10	20	2.8	13 -59
ROMANI	BUCHAREST	24	11	32	5	17	0.6	91 19
BULGAR	SOFIA	21	10	31	4	16	1.1	96 21
ITALY	MILAN	24	13	32	8	19	2.2	40 -57
	VERONA	27	13	33	9	20	2.8	13 -71
	VENICE	24	15	29	11	20	2.9	19 -47
	GENOA	22	16	26	11	19	0.8	56 -52
	ROME	24	12	29	9	18	0.7	3 -31
	NAPLES	24	14	30	11	19	1.6	38 -14
GREECE	THESSALONIKA	24	14	30	10	19	-0.3	53 7
	LARISSA	26	12	37	6	19	-0.3	76 39
	ATHENS	23	15	33	11	19	-1.1	17 -6
TURKEY	ISTANBUL	19	13	28	7	16	0.4	47 17
	ANKARA	20	7	28	4	13	-3.3	90 48
CYPRUS	LARNACA	24	15	33	10	19	-1.1	9 -2
ESTONI	TALLINN	19	8	25	1	13	3.8	28 -6
FSU	LENINGRAD	19	9	27	3	14	3.1	27 -10
LITHUA	KAUNAS	22	10	27	4	16	3.0	15 -40
FSU	MINSK	22	10	27	4	16	2.5	32 -29
	KAZAN	20	8	28	1	14	0.6	7 -28
	MOSCOW	21	8	27	0	14	1.3	36 -18
	SVERDLOVSK	16	4	26	-7	10	-0.9	62 19
	OMSK	16	4	27	-6	10	-2.0	25 -7
	KUSTANAY	19	6	26	-3	13	-1.2	36 10
	KRASNOYARSK	12	3	25	-6	8	-1.6	94 46
	NOVOSIBIRSK	13	4	27	-4	9	-0.9	40 7
	BARNAUL	15	5	27	-3	10	-2.0	42 4
	KHABAROVSK	19	6	27	-2	12	0.4	35 -24
	VLADIVOSTOK	13	6	27	2	10	0.0	22 -47
	KIEV	22	12	27	6	17	1.7	25 -26
	LVOV	22	10	26	6	16	2.9	44 -31
	KIROVOGRAD	22	11	34	2	17	1.6	37 -11

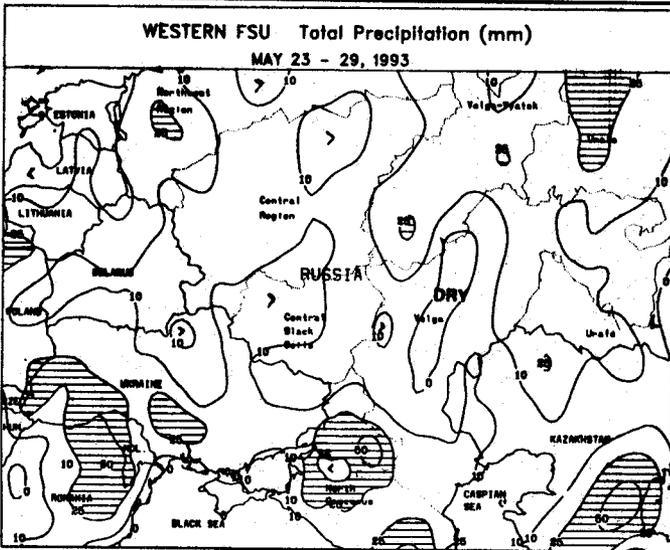
Based on Preliminary Reports

May 1993

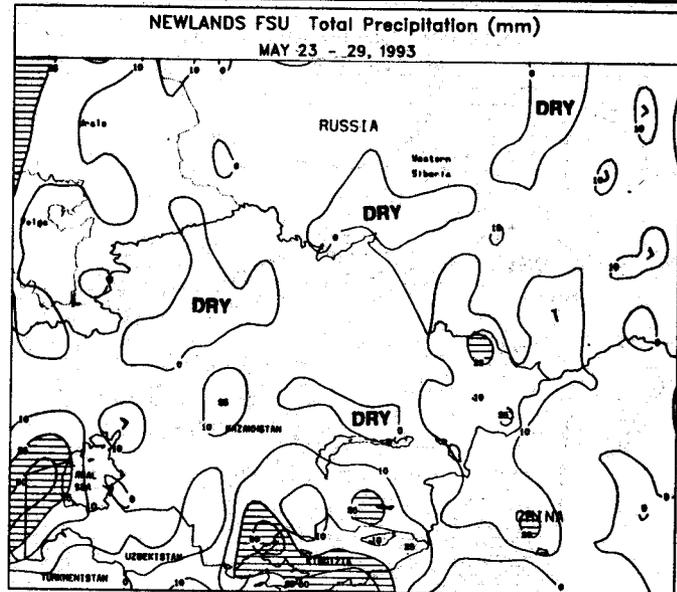
COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG	AVG	HI	LO	DPART	TOTAL	F/NRM	DPART
		MAX	MIN	MAX	MIN	AVG			
FSU	ODESSA	18	13	31	8	15	0.3	36	-3
	YALTA	19	13	33	10	16	-0.6	46	21
	VORONEZH	22	9	28	2	15	0.4	28	-17
	SARATOV	20	11	28	1	16	1.1	13	-36
	KHARKOV	21	11	25	5	16	0.1	25	-22
	VOLGOGRAD	21	10	28	2	16	-1.2	35	3
	ROSTOV	21	11	25	5	16	-1.1	84	31
	ASTRAKHAN	23	12	29	5	18	-0.7	38	14
	KRASNODAR	21	12	26	6	16	-0.8	95	33
	ORENBURG	21	8	29	-2	14	-1.1	12	-16
	TSELINOGRAD	17	6	27	-7	11	-1.1	13	-14
	KARAGANDA	16	4	24	-5	10	-2.9	32	-3
	TBILISI	21	12	29	3	17	-0.4	65	-13
	TASHKENT	24	12	30	3	18	-2.7	86	40
	ASHKABAD	28	16	36	6	22	-1.1	31	3
SYRIA	DAMASCUS	27	9	32	2	18	-2.3	5	0
ISRAEL	JERUSALEM	23	12	31	7	18	-1.4	16	13
PAKIST	KARACHI	36	27	41	23	31	0.8	0	0
INDIA	AMRITSAR	39	22	44	15	30	0.7	18	-1
	NEW DELHI	41	27	45	20	34	1.3	28	4
	AHMEDABAD	43	27	44	25	35	1.0	0	-15
	INDORE	41	25	44	22	33	0.9	6	-12
	CALCUTTA	35	26	37	22	30	-1.2	145	62
	VERAVAL	32	26	33	24	29	0.8	0	-2
	BOMBAY	33	27	37	25	30	0.4	0	-20
	POONA	38	23	42	18	30	0.3	3	-42
	BEGAMPET	41	27	43	22	34	1.1	15	-19
	VISHAKHAPATNAM	32	27	34	21	30	***	93	***
	MADRAS	38	28	41	23	33	-0.1	81	52
	MANGALORE	33	25	36	22	29	0.2	82	-151
H KONG	KINGS PEAK	29	24	32	21	26	***	282	***
N KREA	PYONGYANG	22	10	29	5	16	1.4	160	83
S KREA	SEOUL	24	14	32	10	19	2.4	127	41
JAPAN	SAPPORO	16	9	22	4	12	0.4	48	-7
	NAGOYA	23	13	30	9	18	-0.2	101	-57
	TOKYO	22	15	31	9	19	-0.1	75	-63
	YOKOHAMA	22	14	28	8	18	0.0	70	-94
	KYOTO	24	14	32	9	19	0.3	98	-59
	OSAKA	24	15	31	10	19	0.0	104	-37
THAILN	PHETCHABUN	36	25	40	23	31	1.1	139	-22
	BANGKOK	35	27	38	24	31	1.0	150	-71
MALAYS	KUALA LUMPUR	33	24	35	21	29	1.3	490	298
VIETNM	HANOI	31	25	33	21	28	0.3	228	32
CHINA	HARBIN	21	8	33	-1	15	0.8	26	-10
	HAMI	25	9	34	2	17	-3.1	8	5
	LANCHOW	22	10	30	3	16	-1.1	48	9
	BEIJING	27	15	36	10	21	0.8	10	-19
	TIENTSIN	27	14	35	8	20	0.0	2	-30
	LHASA	20	5	24	0	13	0.2	18	-9
	KUNMING	25	15	28	11	20	0.7	67	-25
	CHENGCHOW	25	14	34	7	19	-1.6	31	-22
	YEHCHANG	24	17	33	13	20	-1.2	91	-32
	HANKOW	24	17	33	13	21	-1.0	265	116
	CHUNGKING	26	19	35	14	22	***	66	**
	CHIHKIANG	24	17	31	14	20	-0.6	172	-36
	WU HU	23	16	33	10	20	***	160	**
	SHANGHAI	22	16	33	12	19	***	70	**
	NANCHANG	24	19	32	15	22	-0.7	249	-6
	TAIPEI	28	23	31	19	25	0.9	170	-49
	CANTON	30	23	33	19	26	0.9	292	26
	NANNING	30	23	36	19	27	0.9	292	104
CNRY I	LAS PALMAS	23	16	25	14	20	0.0	0	-2
MOROCC	CASABLANCA	21	15	25	11	18	0.3	1	-19
	MARRAKECH	26	14	31	10	20	-0.2	4	-17
ALGERI	ALGER	25	14	34	7	19	1.1	38	2
	BATNA	25	**	35	**	**	***	9	-30
TUNISI	TUNIS	26	14	33	9	20	0.8	83	60
NIGER	NIAMEY	42	30	44	27	36	1.9	15	-20
MALI	TIMBUKTU	43	26	46	16	35	0.4	0	-4
	BAMAKO	39	27	42	22	33	1.9	69	17
MAURIT	NOUAKHOTT	36	22	44	18	29	3.5	1	1
SENEGL	DAKAR	26	20	29	18	23	0.3	0	0
CHAG A	DIEGO GARCIA	29	26	31	25	28	0.3	218	29
LIBYA	TRIPOLI	31	17	43	10	24	1.4	1	-3
	BENGHAZI	27	17	37	13	22	-0.9	3	0
EGYPT	CAIRO	30	18	41	10	24	-1.1	2	2
	ASWAN	38	24	42	18	31	0.2	2	2
ETHIOP	ADDIS ABABA	24	11	28	7	17	-0.6	76	0

COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG	AVG	HI	LO	DPART	TOTAL	F/NRM	DPART
		MAX	MIN	MAX	MIN	AVG			
KENYA	NAIROBI	26	14	29	9	20	1.0	42	-68
TANZAN	DAR ES SALAAM	29	22	32	19	26	0.3	164	10
GABON	LIBREVILLE	30	24	37	16	27	0.0	207	-61
B FASO	OUAGADOUGOU	40	28	43	24	34	2.5	11	-61
IVRY C	ABIDJAN	32	26	33	19	29	1.5	51	-225
MOZAMB	MAPUTO	28	19	35	15	23	1.6	17	-13
ZAMBIA	LUSAKA	26	12	31	8	19	0.0	0	-1
ZIMBAB	HARARE	25	12	29	9	19	3.3	1	-9
S AFRI	PRETORIA	26	10	29	6	18	3.8	3	-10
	JOHANNESBURG	22	7	25	-3	14	1.4	0	-14
	BETHAL	22	5	24	-3	14	2.0	11	-8
	DURBAN	26	16	30	12	21	1.4	15	-46
	CAPE TOWN	19	11	26	7	15	0.4	141	74
CANADA	TORONTO	19	6	28	0	12	-0.1	52	-14
	MONTREAL	18	8	27	2	13	0.2	87	19
	WINNIPEG	18	5	29	-3	11	-0.3	35	-24
	REGINA	19	5	30	-3	12	0.7	28	-22
	SASKATCON	19	3	31	-3	11	-0.1	37	-7
	LETHBRIDGE	20	6	31	-2	13	1.9	44	-6
	CALGARY	18	5	29	-3	12	1.8	62	9
	EDMONTON	19	7	32	2	13	1.4	37	-7
	VANCOUVER	19	11	26	7	15	2.6	101	39
MEXICO	GUADALAJARA	29	14	35	9	22	-2.4	0	-27
	MEXICO CITY	**	14	28	8	**	***	40	-12
	ACAPULCO	32	23	35	22	28	-0.4	0	-21
BERMUD	ST. GEORGES	25	20	27	19	23	0.8	17	-85
BAHAMA	NASSAU	29	22	33	19	25	-0.1	23	-91
CUBA	HAVANA	29	22	32	20	26	0.1	27	-88
JAMAIC	KINGSTON	31	25	33	22	28	0.2	176	108
P RICO	SAN JUAN	31	25	34	23	28	0.7	114	-37
GUADEL	RAISET	31	24	33	22	27	1.0	90	-8
MARTINQ	LAMENTIN	30	24	32	22	27	0.9	175	59
BARBAD	BRIDGETOWN	31	26	31	23	28	1.0	53	1
TRINID	PORT OF SPAIN	33	25	34	23	29	1.6	76	-21
COLOMB	BOGOTA	20	10	21	5	15	0.8	106	23
VENEZU	CARACAS	33	25	35	19	29	1.9	63	27
F GUIA	CAYENNE	30	23	31	22	27	0.7	552	-57
BRAZIL	BELO HORIZONTE	**	**	29	15	**	***	**	**
	FRANCA	**	**	27	14	**	***	**	**
	LONDRINA	**	**	29	12	**	***	**	**
	SANTA MARIA	**	**	31	1	**	***	**	**
	PORTO ALEGRE	24	13	31	4	18	1.3	156	41
PERU	LIMA	24	19	26	17	21	2.2	1	1
BOLIVI	LA PAZ	14	-1	18	-5	7	-0.9	15	1
CHILE	SANTIAGO	16	4	23	-3	10	-0.9	63	23
ARGENT	IGUAZU	25	13	32	4	19	***	222	**
	FORMOSA	26	15	36	5	21	1.4	11	-107
	CERES	20	10	29	-1	15	-1.0	0	-29
	CORDOBA	19	8	28	0	13	-1.0	45	24
	RIO CUARTO	17	8	26	-1	13	-0.6	26	3
	ROSARIO	19	10	27	-2	15	0.8	177	129
	BUENOS AIRES	18	9	25	-2	13	0.4	71	-4
	SANTA ROSA	16	6	22	-4	11	-0.2	28	0
	TRES ARROYOS	14	7	22	-1	10	-0.5	171	105
N CALD	NOUMEA	25	20	29	17	22	0.1	23	-67
FIJI	NAUSORI	27	22	30	17	25	0.5	249	-6
SAMOA	PAGO PAGO	29	26	31	23	27	0.5	219	-32
TAHITI	PAPEETE	30	23	32	21	27	0.6	143	49
N ZEAL	AUCKLAND	18	12	21	7	15	1.1	0	-103
	WELLINGTON	14	10	17	4	12	***	149	**
PA N G	PORT MORESBY	30	23	31	21	26	-0.6	108	40
AUSTRL	DARWIN	32	23	34	21	28	0.3	17	-12
	MOREE	23	11	27	4	17	1.4	24	-19
	BRISBANE	23	15	26	12	19	-0.1	24	-73
	PERTH	21	11	28	5	16	-0.4	114	10
	CEDUNA	21	8	29	2	15	-0.1	16	-19
	ADELAIDE	19	9	25	2	14	0.1	40	-17
	MELBOURNE	17	7	24	2	12	-0.7	22	-34
	WAGGA	18	5	23	0	11	-0.6	32	-28
	CANBERRA	16	2	20	-2	9	-0.4	20	-25
INDONE	DJAKARTA	33	23	42	21	28	0.9	177	**
PHILIP	MANILA	35	24	37	21	30	0.2	0	-106

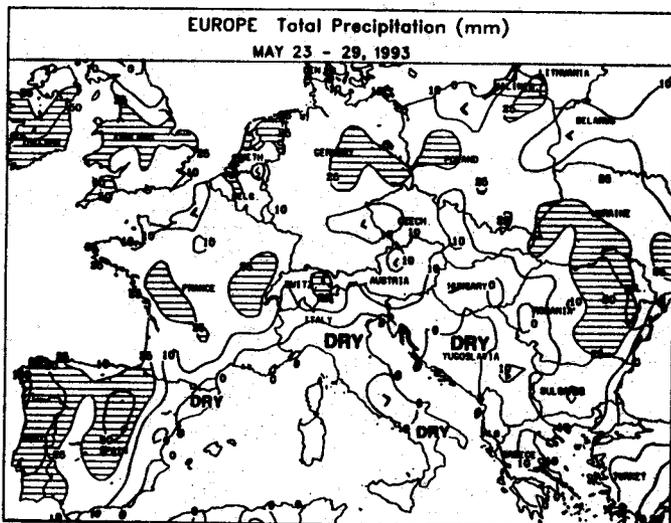
Based on Preliminary Reports



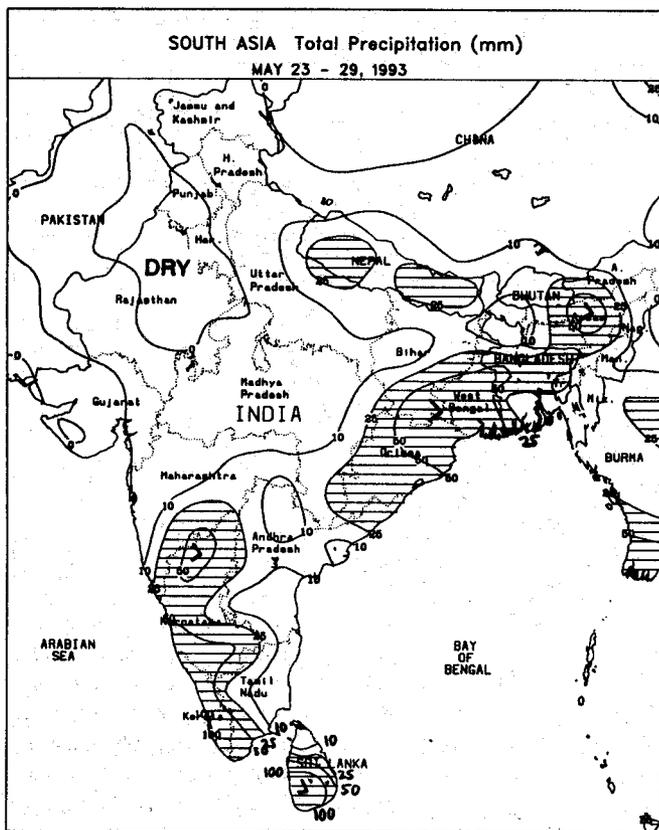
FSU: Light showers (5-20 mm) spread eastward from the Baltic States through Belarus and Russia, easing a month-long dry spell. Even though the precipitation increased moisture for spring grain germination and establishment, more rain is needed. Further south, widespread light to moderate rain (10-30 mm, with local amounts in excess of 50 mm) covered most of Ukraine and North Caucasus. Although the precipitation interrupted summer crop planting, it provided beneficial moisture for summer crop establishment and winter grains in the reproductive phase of development. Unseasonably cool weather covered the region. Sub-freezing temperatures (-1 to -2 degrees C) on May 23 over the Northwest Region, Central Region, Volga Vyatsk, and upper Volga had minimal impact on grain crops but hurt flowering fruit trees and tender vegetables. Average temperatures were 1-3 degrees Celsius (C) below normal in western areas and 2-4 degrees C below normal in the east, slowing growth rates.



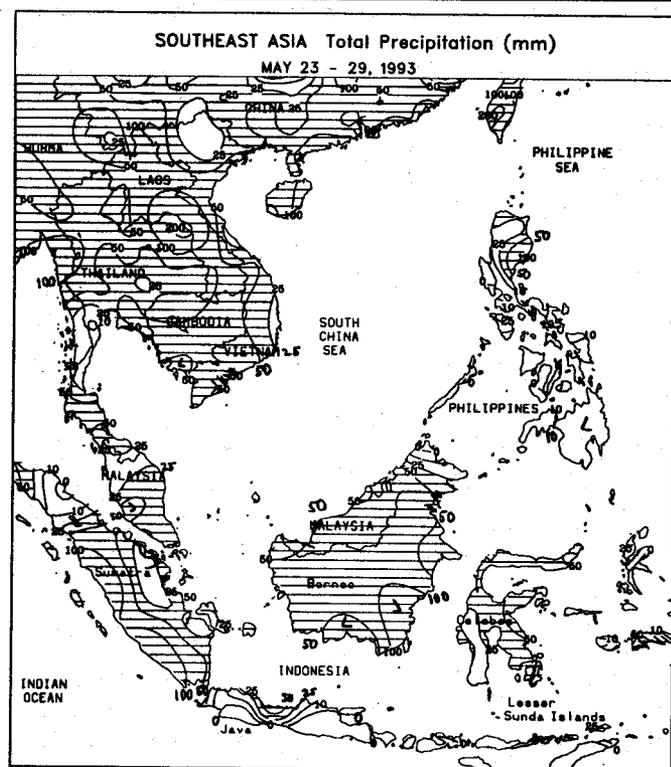
FSU-NEW LANDS: Mostly dry weather covered spring grain areas in Kazakhstan, where planting was nearly complete. Drier weather (precipitation generally less than 10 mm) over the northern Urals and Siberia, along with a warming trend, allowed rapid spring grain planting. Early in the week, sub-freezing temperatures (-1 to -4 degrees C) covered spring grain areas as far south as Kazakhstan. Although the cold weather had little impact on spring grains, some damage to tender vegetable crops likely occurred. Average temperatures were 2-5 degrees C below normal in Kazakhstan, slowing crop emergence and early growth. In south-central FSU cotton areas, wet weather (10-32 mm) over eastern Uzbekistan may have caused some delays in final cotton planting.



EUROPE: Showery weather covered most of western and northern Europe, while dryness prevailed along the Mediterranean and Adriatic regions. Widespread rain (10-30 mm) continued to provide favorable moisture for heading to filling winter grains and summer crop growth from southern England and France to Germany. Timely rain (10-30 mm, with scattered 37-69 mm amounts) also fell over all but extreme northwestern Poland, improving topsoil moisture for grain and oilseed development. Late-season moisture over the Iberian peninsula, suffering from an acute water shortage, eased irrigation requirements for summer crops, but locally heavy rain (50-90 mm) in western Spain and Portugal disrupted winter crop harvesting. In contrast, dryness persisted over much of east-central Europe, stressing heading to filling winter grains and hampering corn establishment in Hungary. Variable showers (2-18 mm) brought some much-needed moisture to Slovakia, but spring rainfall has been below average throughout east-central Europe. Dry weather favored maturing crops in Italy and Greece, while rain in the Balkan region promoted corn emergence. In Scandinavia, light showers (1-9 mm) were scattered over Denmark and southern portions of Sweden and Finland. Beneficial 10-44 mm amounts fell in southeastern Norway and crop areas of Sweden to the west of Stockholm.

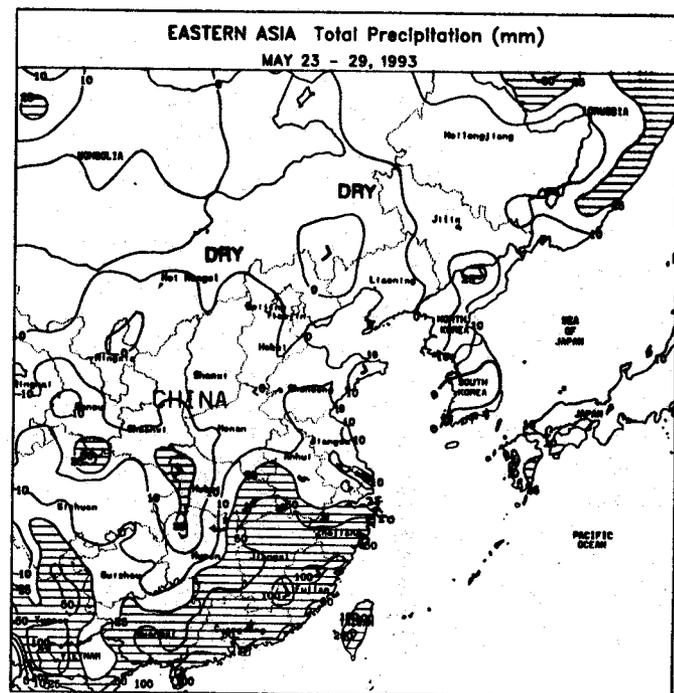


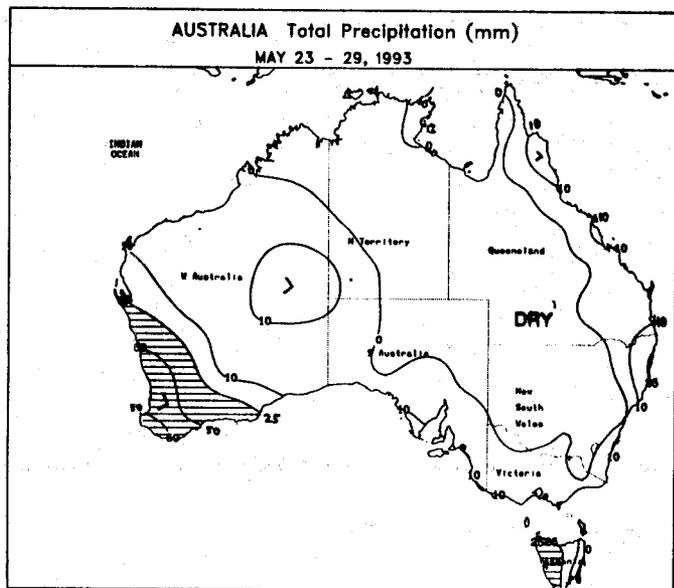
SOUTH ASIA: Showers continued over southern India, with light to moderate rain (10-56 mm) expanding as far north as Maharashtra. The heaviest rain (75-105 mm) was concentrated over rice areas of the southwest coast. Seasonable showers (25-50 mm or more) continued over eastern rice areas as well, increasing irrigation reserves for main season rice planting. The rain was especially timely for planting in the predominately rainfed rice areas of Orissa and eastern-most Madhya Pradesh. The southwest monsoon, usually established over southern India in early June, appears to be on schedule. In contrast, unseasonably hot weather (temperatures 1-4 degrees C above normal, with highs in the mid to upper 40's C) persisted over central and northwestern India and Pakistan, stressing livestock and maintaining high irrigation demands of crops such as cotton. These areas typically experience 3-6 more weeks of hot, dry weather before the monsoon begins.



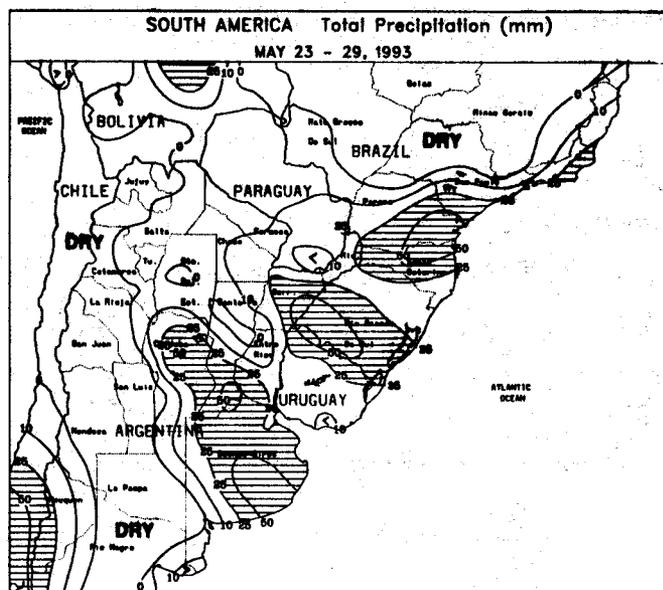
SOUTHEAST ASIA: Widespread showers (25-50 mm or more) improved moisture reserves for Indochina's main season crops, especially in rainfed rice areas of northern Thailand that had been drier than normal for most of the planting period. However, inundating rain (100-227 mm) in northeastern Thailand along the Laotian border caused some flooding of the Mekong River. The rainfall continued southward along the Malay peninsula, with western Malaysia's oil palm regions receiving 16 to 75 mm. Rainfall was highly variable over Indonesia, with most locations in Java reporting 10 mm or less. In the Philippines, unfavorably dry weather persisted over most main season rice and corn areas. By early June, the western crop areas should receive about 25 to 40 mm weekly.

EASTERN ASIA: Dryness continued across Manchuria, stressing newly emerged corn, soybeans, and spring wheat. Scattered light rain (3-15 mm) fell across the North China Plain, favoring emerging summer crops and filling to maturing winter wheat. Widespread moderate showers (15-75 mm) kept irrigation supplies high across the eastern Yangtze Valley and southern China. Heavier showers (greater than 100 mm) produced local flooding across extreme southern China (Guangdong and Fujian). Temperatures averaged near normal across most of China.

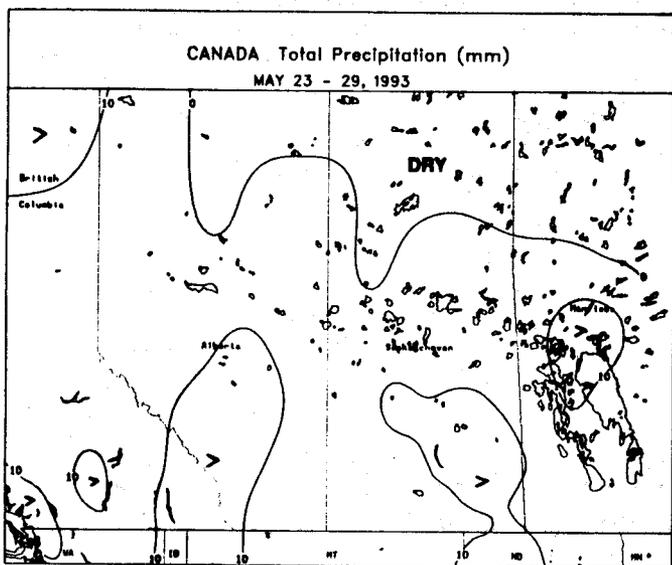




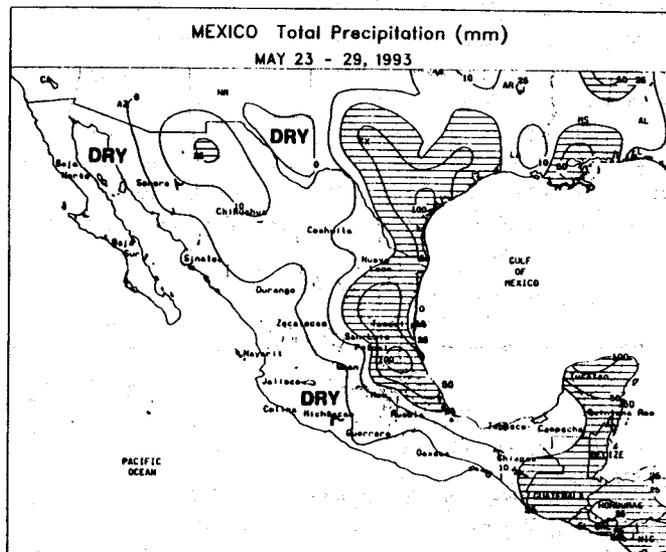
AUSTRALIA: Dry weather prevailed across eastern Australia, allowing winter wheat planting to progress, especially in New South Wales. However, wheat planting is probably still delayed in southern Queensland due to dry topsoils. Moderate rains (10-50 mm) fell across the western wheat areas, benefiting topsoil moisture for wheat planting and germination.



SOUTH AMERICA: Early-week showers and thunderstorms (15-80 mm) fell across southern Santa Fe, central Cordoba, and most of Buenos Aires, causing additional flooding and further soybean harvest delays. The topsoil moisture favored winter wheat planting. The wet weather also may cause possible soybean quality problems. Colder weather swept into the region by mid-week, producing widespread freezing temperatures (minimum temperatures ranged from -1 to -7 degrees C) as far north as northern Santa Fe and Salta. The cool weather might cause some minor damage to the western fruit areas of Argentina. In southern Brazil, moderate showers (25-80 mm) covered Rio Grande do Sul and Santa Catarina, benefiting vegetative winter wheat. Freezing temperatures (minimum temperatures ranged from -1 to -2 degrees C) were reported across eastern Santa Catarina, causing some minor wheat burn back.



CANADA: Temperatures averaged 2-4 degrees below normal over most Prairie crop areas, with minimum temperatures reaching -1 to -4 degrees C in eastern Saskatchewan and Manitoba. Precipitation was variable across the region with moderate accumulations (10-23 mm) concentrated over east-central Saskatchewan. Warmer weather is needed across the region for spring grain and oilseed germination and establishment, especially in parts of Manitoba that need to replant due to the unusually low temperatures. In Ontario, cooler, mostly drier-than-normal conditions continued, slowing winter wheat development and keeping soils too cool for summer crop germination.



MEXICO: Light to moderate showers (10-60 mm) spread across the Yucatan peninsula and eastern Mexico, benefiting corn and coffee. Isolated heavier showers (90-200 mm) fell in east-central Mexico (eastern San Luis Potosi and southern Tamaulipas), possibly causing some flooding. Dry weather prevailed across the western portions of the southern Plateau corn belt, where seasonal rains and corn planting typically start by mid-May.

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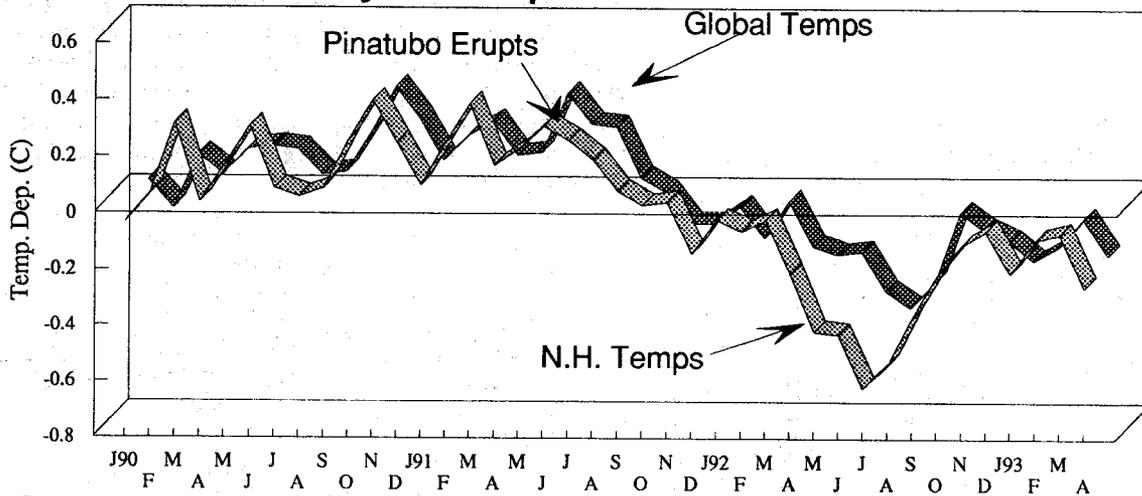
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Global Cooling Update

Satellite Microwave Sounding Unit (MSU) data through April shows that lower tropospheric temperatures remained below the 1982-91 mean. Though temperatures have bounced back from the post-Pinatubo lows reached during the summer of 1992 (see "Mt. Pinatubo and Global Cooling," *Weekly Weather and Crop Bulletin*, January 12,

1993), readings since late last year have been persistently below the 10-year mean. Nevertheless, most of the aerosols (sulfate particles) from the June 1991 eruption have "washed out" of the atmosphere, so it is unlikely the debris from the Philippine volcano is still having a significant impact on global temperature patterns.

Monthly Temperature Anomalies



Departure from 1982-1991 mean
Data from J.Christy, Univ. of AL and R.Spencer, NASA Marshall Space Flight Center

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