

# 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

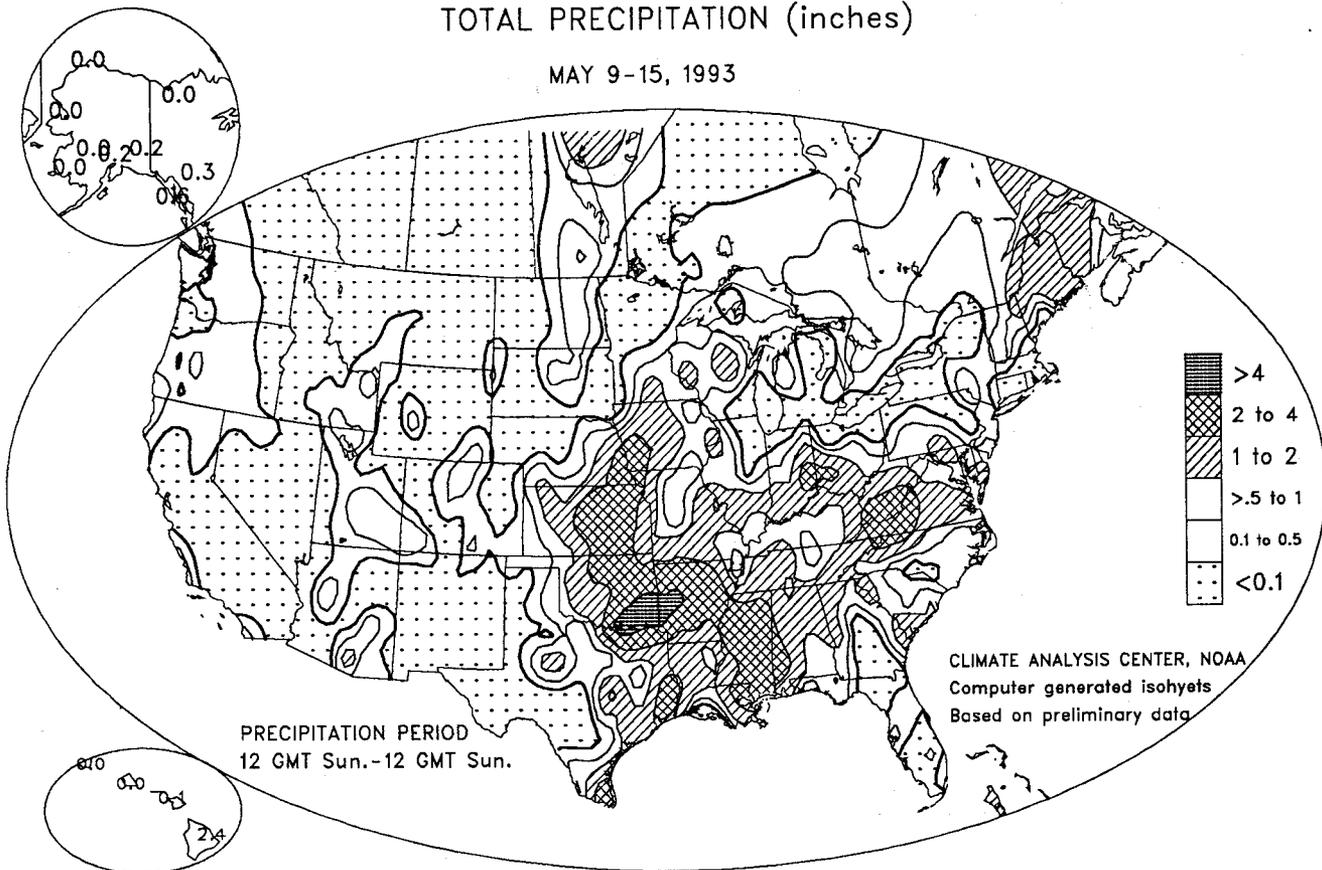
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Washington, D.C.

May 18, 1993

## TOTAL PRECIPITATION (inches)

MAY 9-15, 1993



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

PRECIPITATION PERIOD  
12 GMT Sun.-12 GMT Sun.

## HIGHLIGHTS

May 9 - 15, 1993

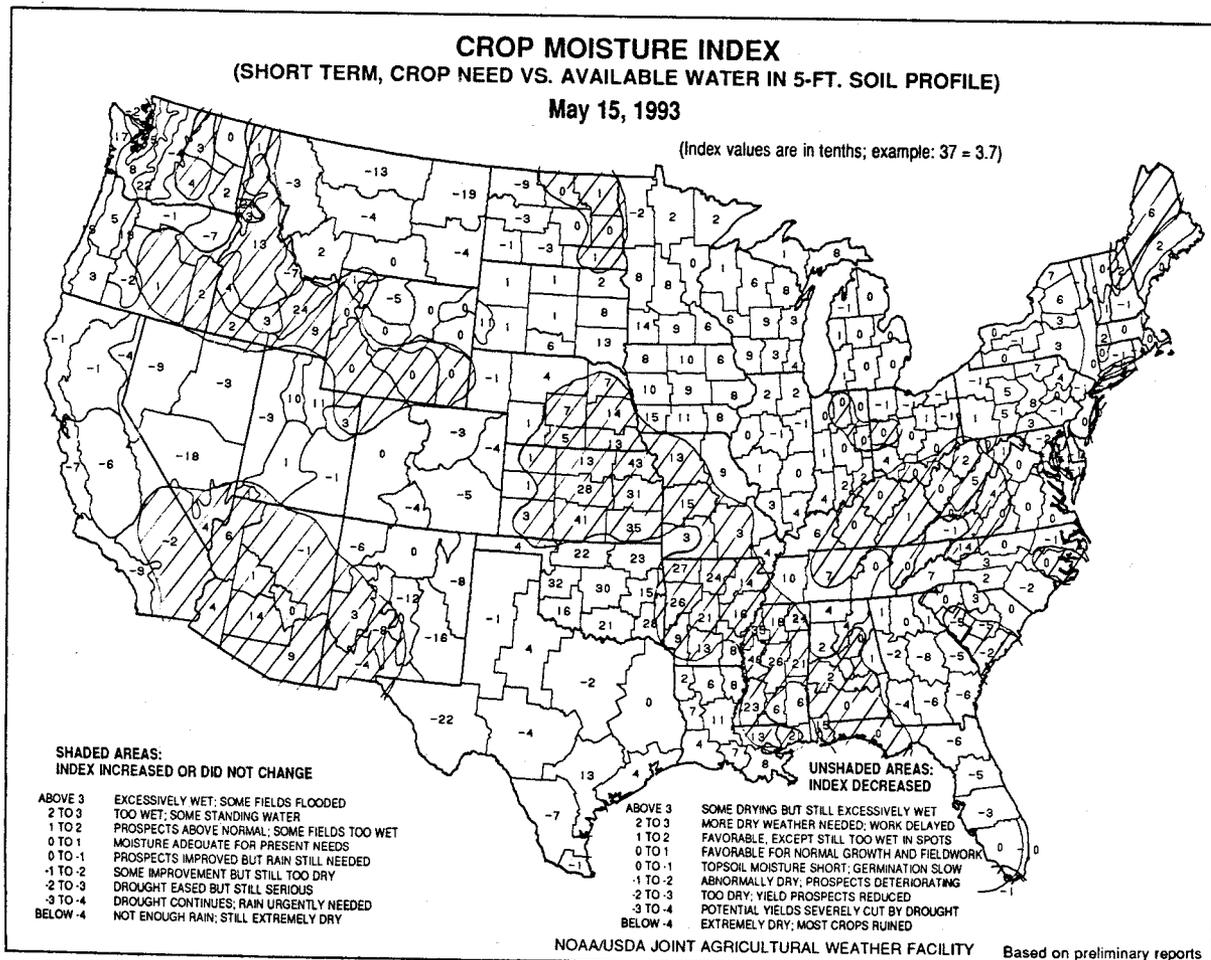
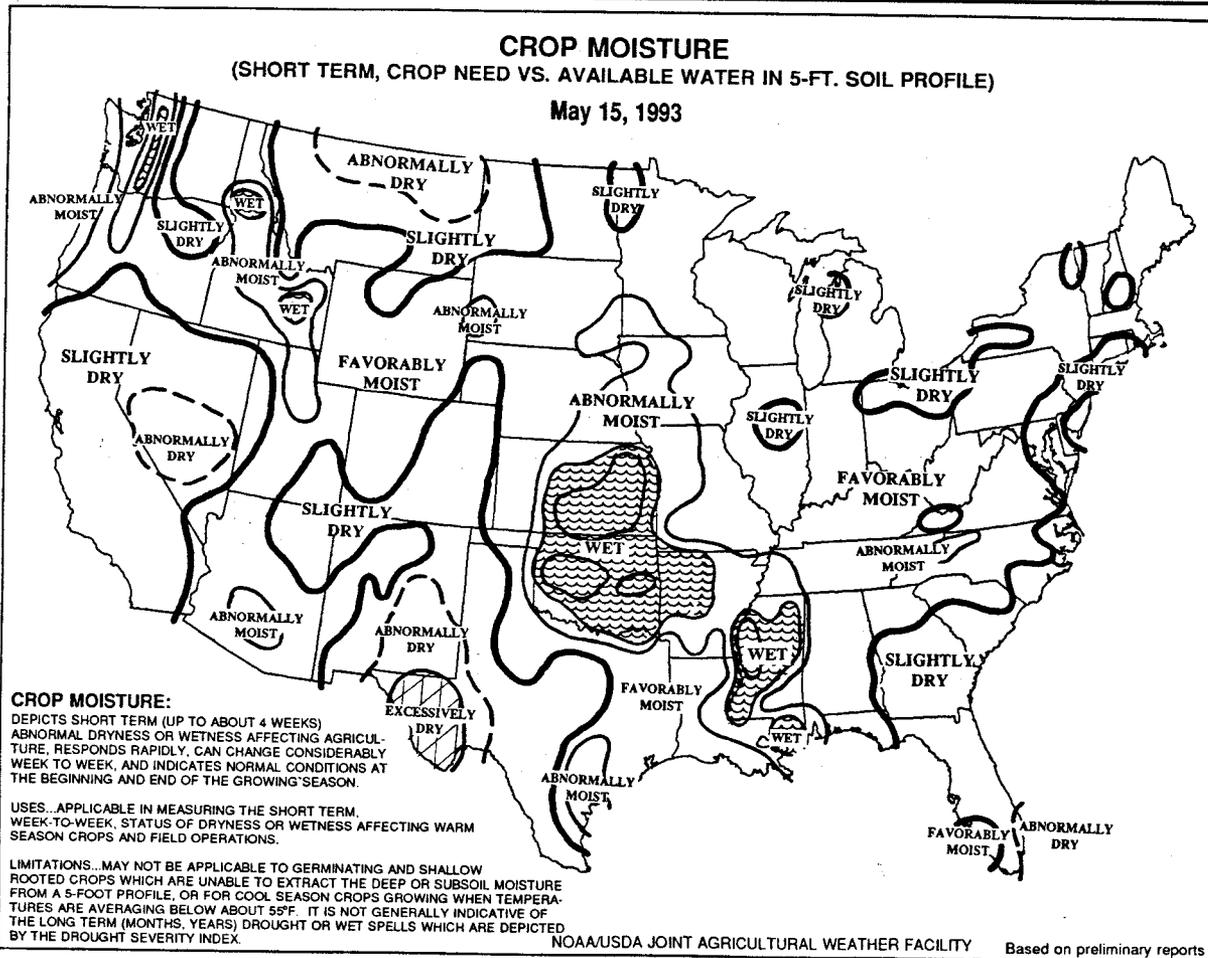
Planting advanced and crops progressed outside the perimeter of a large storm that hovered near the east-central Plains. Heavy rainfall caused additional flooding in parts of the lower Missouri, lower Arkansas, and Red River drainage basins. Flooding also affected parts of the Rocky Mountain States, the result of considerable high-elevation snow melt. Early in the week, more than 2 inches of rain pelted areas from the east-central Plains to the lower Mississippi Valley. Thunderstorms spawned 21 tornadoes in northeastern Texas on Sunday. Cool, dry air trailed the storm into the High Plains and southern Plains, resulting in daily record lows of 29°F in Pueblo, CO on Monday and 55°F in Corpus Christi, TX on Tuesday. But warmth covered the remainder of the Nation. More than 60 daily record highs were established during the week, mostly in an arc from the Northwest to the Northeast. Fort Wayne, IN observed its earliest 90°F day on record on May 10 (previously May 14, 1985). Spokane, WA notched its second-earliest 90°F reading. A high of 86°F on Monday in Buffalo, NY was exceeded only once during the whole of 1992. On Tuesday, Muskegon, MI established its fourth consecutive daily record high. During the second half of the week, rainshowers advanced across the Southeast, while cooler air and attendant

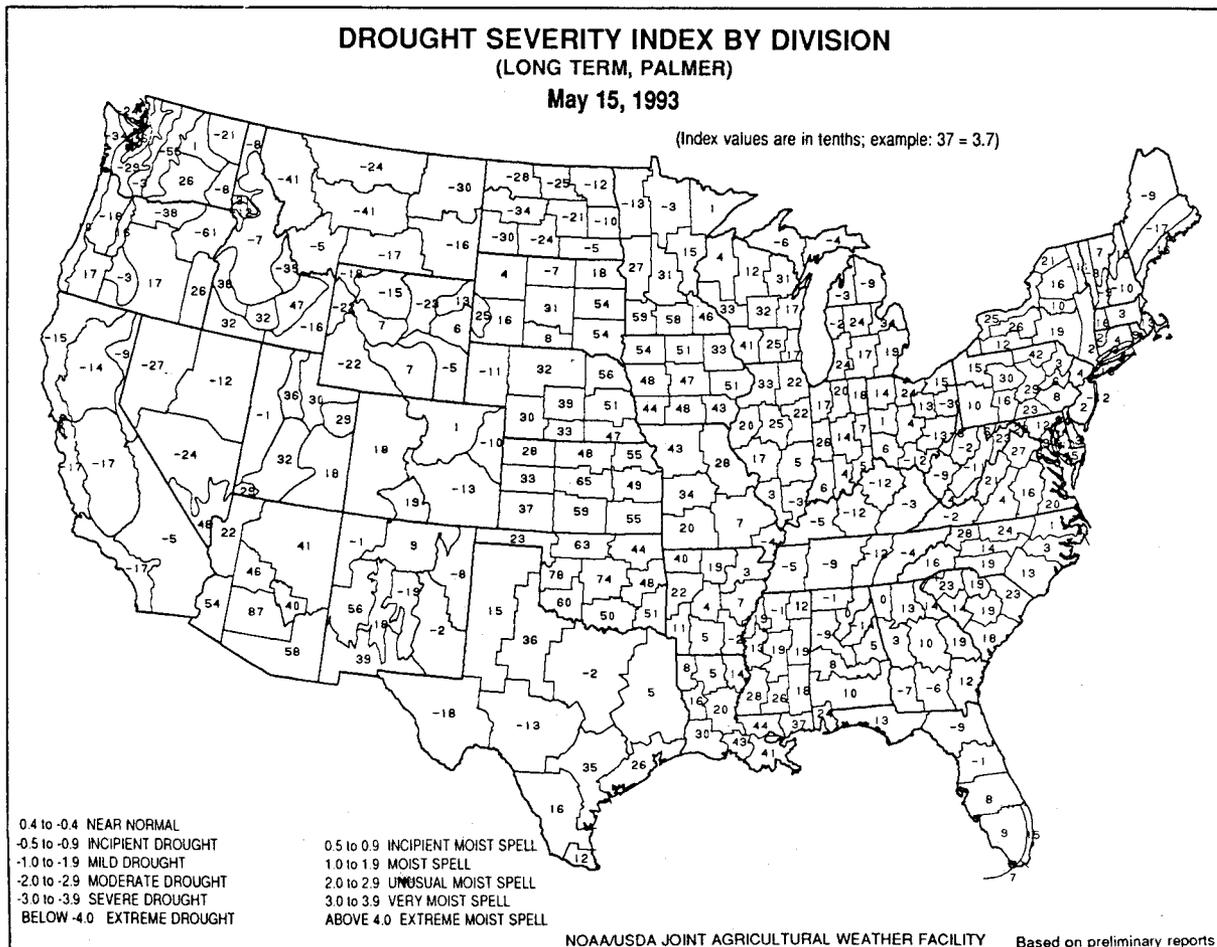
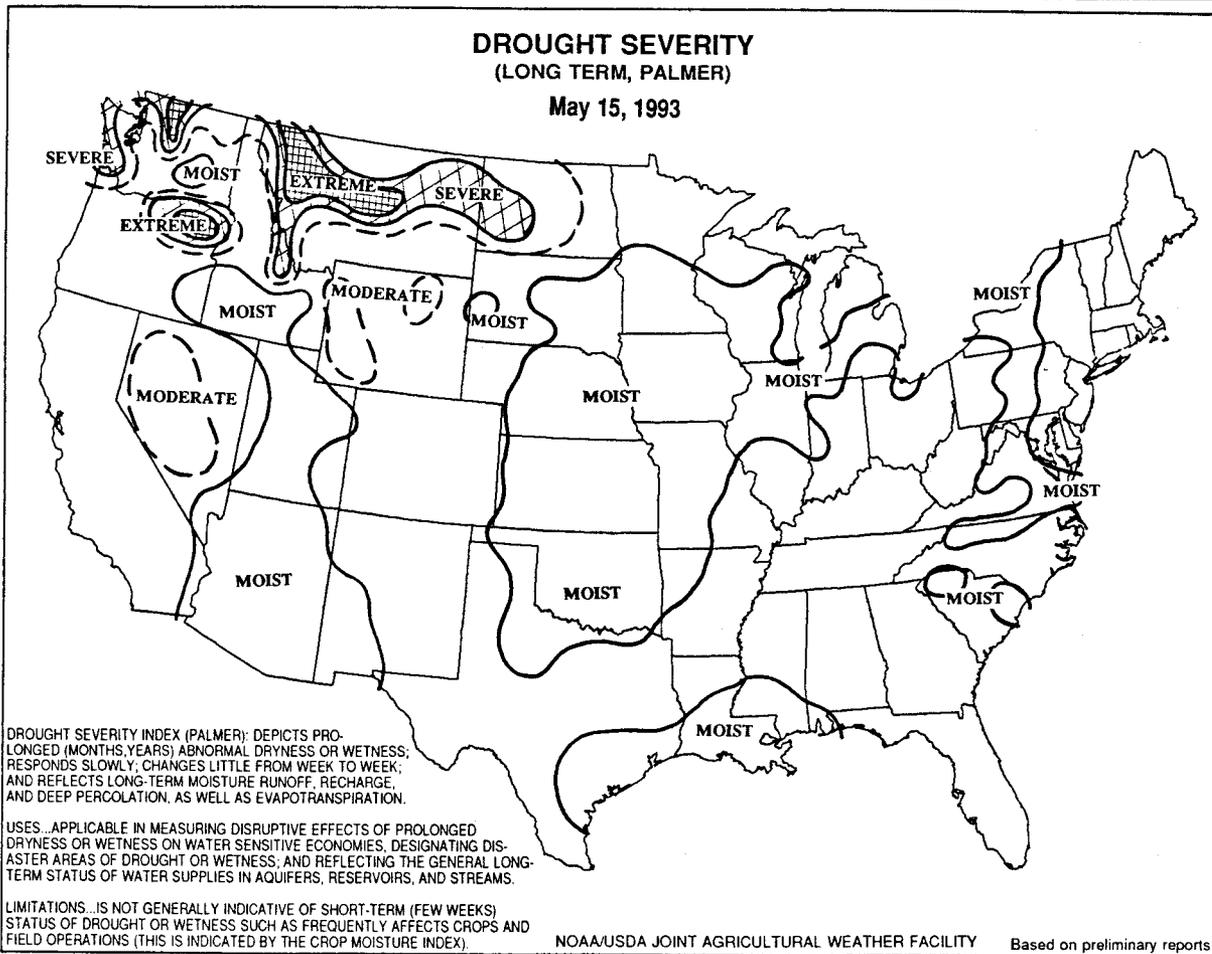
thunderstorms pushed across the Great Lakes and Northeast. On Friday, a 33°F reading in Youngstown, OH tied a daily record low. By Saturday, a new storm system moved into the Southwest, igniting thunderstorms. Even typically arid locations such as Palm Springs, CA and Yuma, AZ received rainfall, each collecting 0.06 inches.

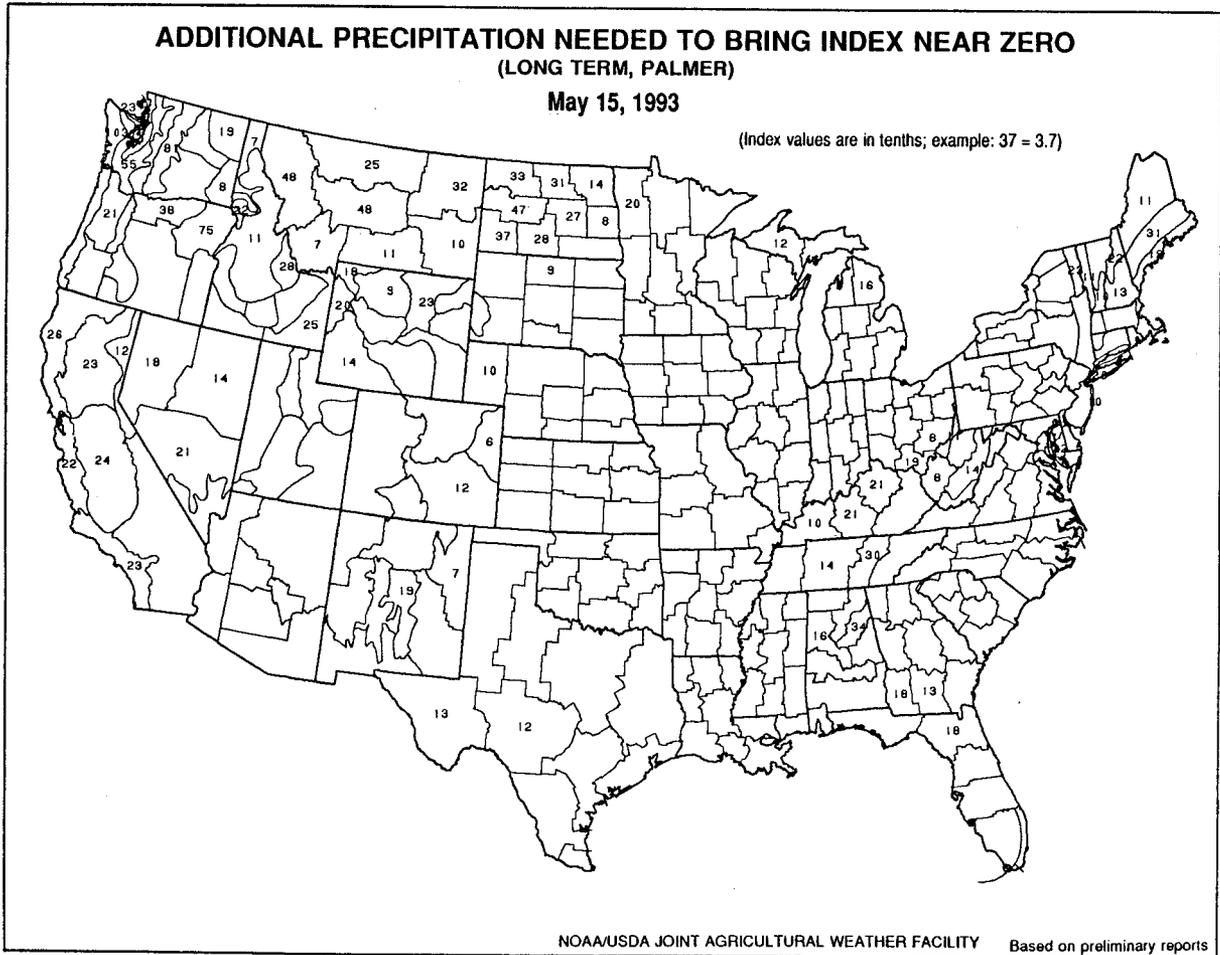
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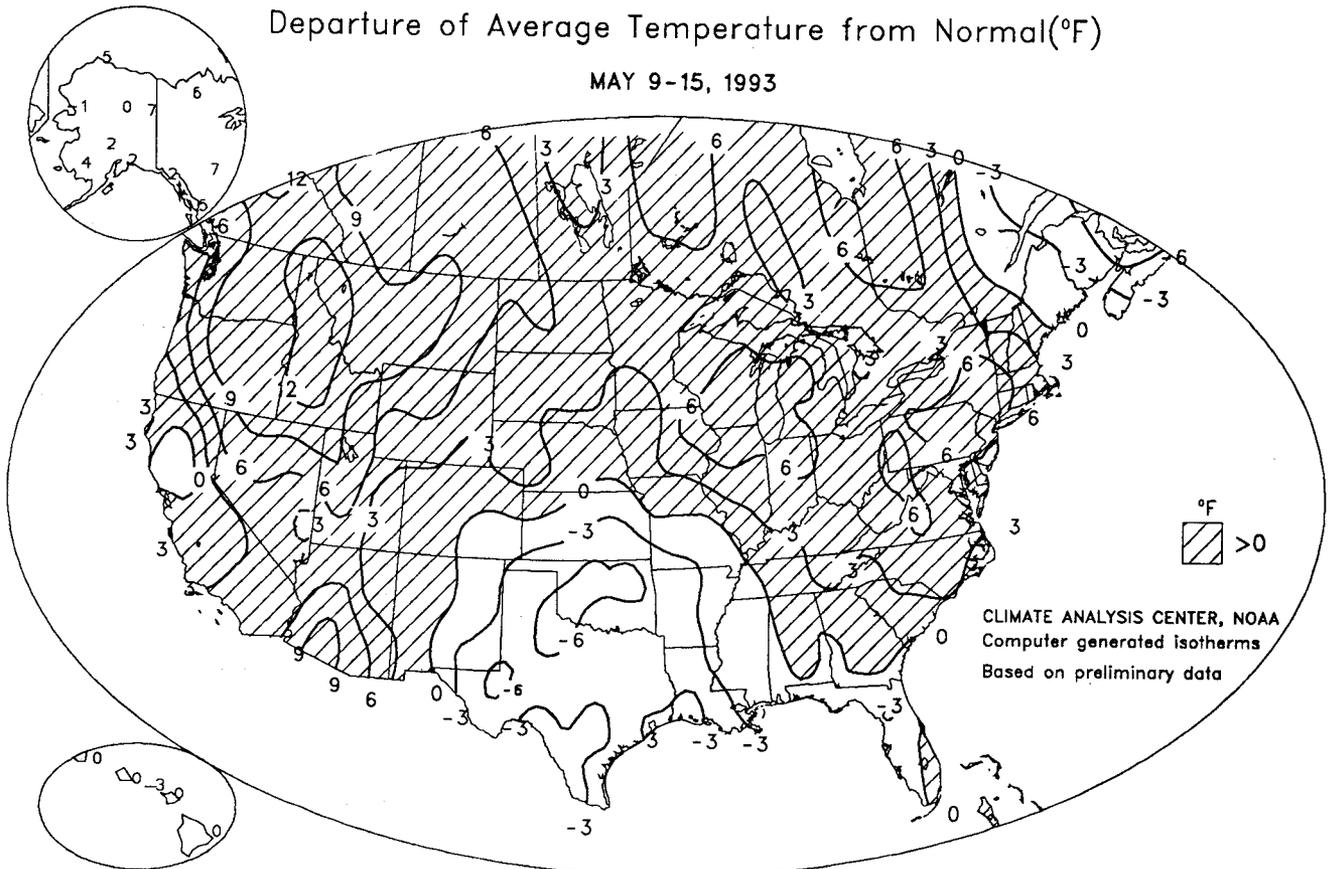






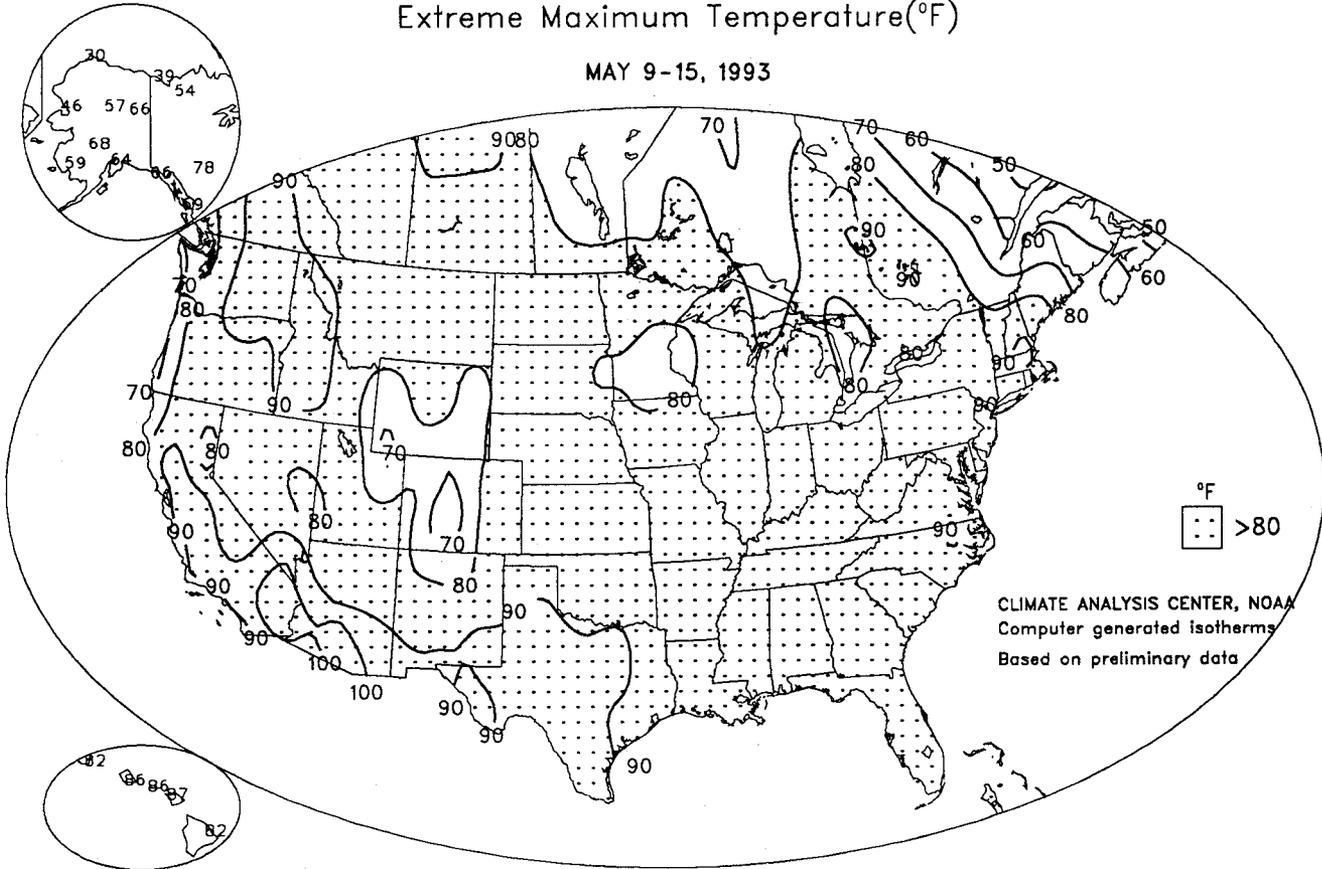
### Departure of Average Temperature from Normal(°F)

MAY 9-15, 1993



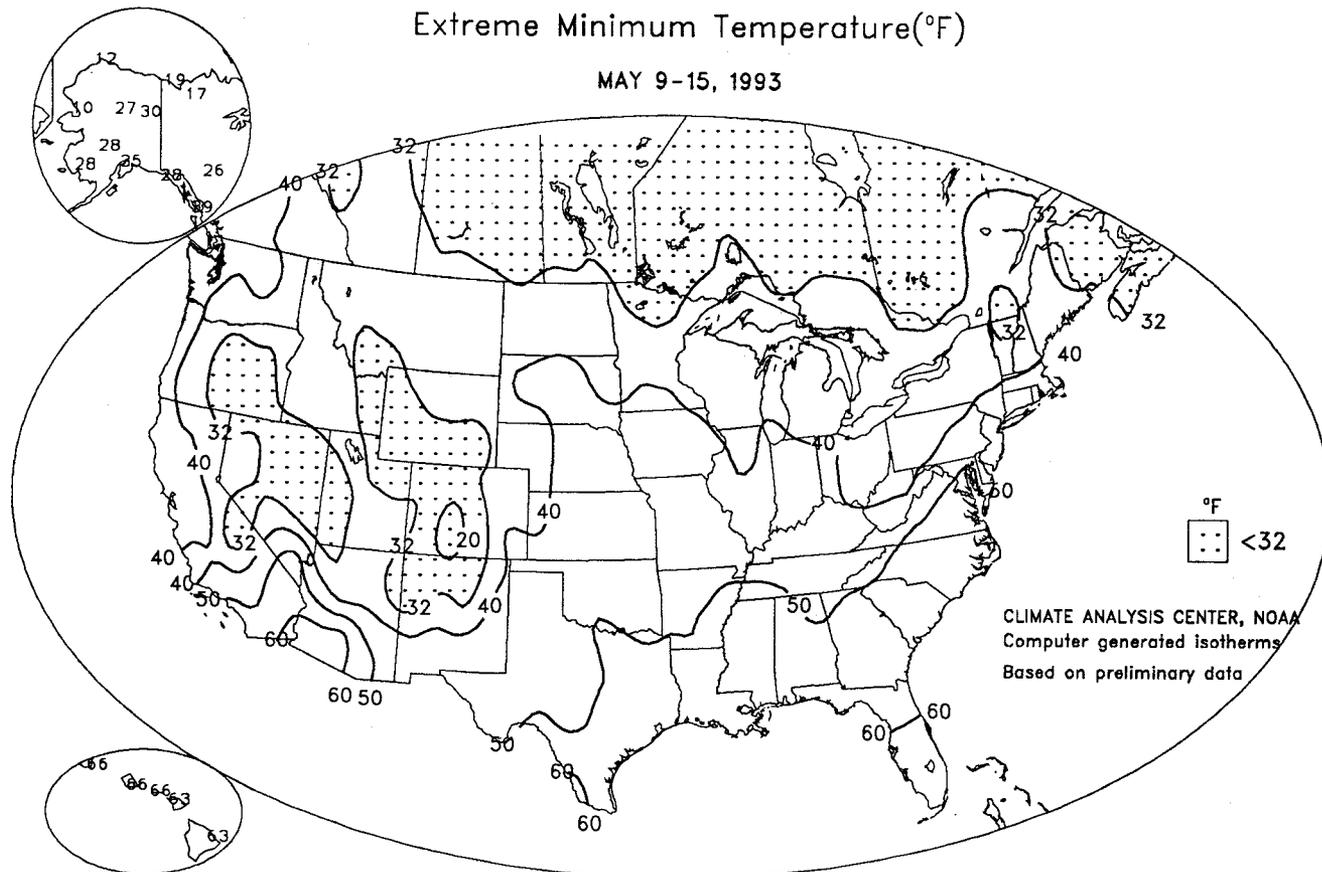
### Extreme Maximum Temperature(°F)

MAY 9-15, 1993



### Extreme Minimum Temperature(°F)

MAY 9-15, 1993



## CUMULATIVE GROWING DEGREE DAYS (CORN\*)

### April 1 - May 15, 1993

STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL
AL ANNISTON	619	- 75	SALINA	388	- 70	ZANESVILLE	407	+ 41
BIRMINGHAM	627	- 75	TOPEKA	380	- 88	OK ALTUS	585	-127
MOBILE	709	-166	WICHITA	384	-158	GAGE	487	- 68
MONTGOMERY	688	- 61	KY LEXINGTON	469	+ 7	HOBART	502	-115
MUSCLE SHOALS	604	- 42	BOWLING GREEN	520	- 16	MCALESTER	632	- 34
OZARK	707	-114	PADUCAH	567	- 12	PONCA CITY	490	- 83
TUSCALOOSA	666	- 77	LA LAFAYETTE	769	-135	TULSA	497	-132
AZ DOUGLAS	757	+107	LAKE CHARLES	797	- 93	OR BAKER	249	+ 15
FLAGSTAFF	323	+ 96	MONROE	695	- 92	EUGENE	276	+ 12
PHOENIX	1094	+250	NEW ORLEANS	754	-148	NORTH BEND	205	+ 57
TUCSON	884	+126	SHREVEPORT	679	-133	PENDLETON	328	+ 26
YUMA	1144	+240	ME AUGUSTA	230	+ 75	REDMOND	233	- 9
AR EL DORADO	507	- 97	CARIBOU	157	+ 78	PORTLAND	296	+ 35
FAYETTEVILLE	471	- 83	HOULTON	181	+ 72	SALEM	321	+ 61
FORT SMITH	568	- 87	PORTLAND	168	+ 29	SEXTON SUMMIT	85	- 50
JONESBORO	560	- 96	MD SALISBURY	477	+ 53	PA ALLENTOWN	414	+ 95
LITTLE ROCK	595	-106	MA WORCESTER	285	+ 83	PHILADELPHIA	485	+123
TEXARKANA	640	-117	MI BATTLE CREEK	319	+ 37	WILLIAMSPORT	432	+115
CA BAKERSFIELD	682	+ 27	JACKSON	320	+ 45	SC BEAUFORT	745	- 50
BLUE CANYON	125	- 14	LANSING	313	+ 20	CHARLESTON	730	- 20
DAGGETT	827	+110	MUSKOGON	275	+ 70	COLUMBIA	711	- 25
EUREKA	256	+146	PELLUS	196	+ 43	FLORENCE	735	+ 12
FAIRFIELD	525	+ 34	SAULT STE. MARIE	122	+ 18	SUMTER/SHAW AFB	688	- 61
FRESNO	657	+ 76	TRaverse CITY	235	+ 49	SD ABERDEEN	317	+ 86
MARYSVILLE	578	+ 13	MN DULUTH	135	+ 23	HURON	283	+ 7
MERCED	602	+ 16	INT'L FALLS	196	+ 51	PIERRE	303	+ 2
MT. SHASTA	199	- 38	ALEXANDRIA	230	+ 41	RAPID CITY	261	0
PASO ROBLES	608	+101	WARROAD	160	+ 17	SIoux FALLS	261	- 28
RED BLUFF	521	- 21	MS BILOXI	769	-122	WATERTOWN	224	+ 13
RIVERSIDE	718	+137	COLUMBUS	623	-100	TN BRISTOL	504	+ 3
SANTA ANA	773	+224	JACKSON	697	- 59	CHATTANOOGA	612	+ 4
SAN DIEGO	654	+18	MERIDIAN	683	- 79	CROSSVILLE	474	+ 34
SACRAMENTO	535	+ 75	GREENWOOD	659	- 92	MEMPHIS	638	- 46
THERMAL	979	- 15	MO COLUMBIA	437	- 8	NASHVILLE	563	- 34
CO ALAMOSA	223	- 75	JOPLIN	492	- 55	TX ABILENE	725	- 37
DENVER	340	+ 21	SPRINGFIELD	449	- 56	AMARILLO	506	- 17
EAGLE	175	- 75	MT VICHY	458	- 30	AUSTIN	835	- 60
GRAND JUNCTION	359	- 70	BOZEMAN	215	+135	BROWNSVILLE	1111	- 21
LA JUNTA	458	- 7	HELENA	232	+ 36	COLLEGE STATION	771	-103
DE DOVER	408	- 45	KALISPELL	232	+ 27	DALHART	487	+ 1
WILMINGTON	457	+ 88	MILES CITY	328	+ 69	DALLAS/FT. WORTH	724	- 56
FL DAYTONA BEACH	804	-123	NE GRAND ISLAND	319	- 42	GALVESTON	888	- 33
FORT MYERS	1019	- 35	NORFOLK	322	- 11	HOUSTON	828	- 64
GAINESVILLE	779	- 99	NORTH PLATTE	325	- 8	KINGSVILLE	1027	- 38
JACKSONVILLE	779	- 99	VALENTINE	300	- 29	LAREDO	1108	0
FORT LAUDERDALE	1146	+ 35	SCOTTSSBLUFF	323	+ 8	LUBBOCK	670	+ 39
MIAMI	1150	- 5	NV SIDNEY	292	+ 11	MC ALLEN	1152	+ 40
MILTON	747	-102	ELKO	228	- 28	MIDLAND	746	- 31
PENSACOLA	749	-122	ELY	255	+ 35	PALACIOS	864	- 90
ST. PETERSBURG	949	-139	LAS VEGAS	879	+167	SAN ANTONIO	871	- 54
TALLAHASSEE	765	- 88	RENO	362	+ 19	VICTORIA	904	- 41
TAMPA	908	-102	WINNEMUCCA	342	+ 23	WACO	748	- 94
VERO BEACH	936	- 67	NH CONCORD	351	+116	WICHITA FALLS	613	-104
W. PALM BEACH	1041	- 69	NJ NEWARK	479	+151	WINK	779	+ 6
GA ATHENS	626	- 27	NM ALBUQUERQUE	567	+ 33	UT CEDAR CITY	350	+ 37
AUGUSTA	739	+ 20	CARLSBAD	771	+ 46	VT MONTPELIER	268	+111
BRUNSWICK	689	-155	CLOVIS	561	+ 18	BURLINGTON	310	+127
COLUMBUS	695	- 69	GALLUP	438	+ 66	VA CHARLOTTESVILLE	556	+ 44
MACON	691	- 89	TRUTH OR CONSEQ.	655	+ 55	HAMPTON	544	+ 49
SAVANNAH	765	- 36	NY ALBANY	383	+122	LYNCHBURG	580	+ 93
ID BOISE	325	+ 24	ELMIRA	359	+ 97	NORFOLK	559	+ 39
BURLEY	271	+ 10	GLENS FALLS	336	+113	RICHMOND	571	+ 22
IDAHO FALLS	173	- 45	POUGHKEEPSIE	374	+ 84	WA BELLINGHAM	208	+ 41
POCATELLO	215	- 15	ROCHESTER	322	+ 87	HOQUIAM	169	+ 19
IL BELLEVILLE	470	- 29	SYRACUSE	350	+116	SEATTLE-TACOMA	229	+ 39
CHICAGO (MIDWAY)	354	+ 46	UTICA	311	+107	SPOKANE	218	+ 14
DECATUR	414	- 32	NC WATERTOWN	292	+108	TACOMA	255	+ 22
PEORIA	446	+ 86	ASHEVILLE	458	- 41	WALLA WALLA	341	+ 23
ROCKFORD	373	+ 85	FAYETTEVILLE	643	- 9	WENATCHEE	350	- 14
SPRINGFIELD	442	+ 29	GREENSBORO	612	+ 56	YAKIMA	371	+ 21
QUINCY	405	+ 10	HICKORY	559	+ 3	WV HUNTINGTON	530	+ 74
IN INDIANAPOLIS	436	+ 42	RALEIGH	624	+ 26	MARTINSBURG	436	+ 29
SOUTH BEND	344	+ 37	WILMINGTON	675	+ 10	MORGANTOWN	471	+ 67
TERRE HAUTE	450	- 55	NEW BERN	639	- 26	WI EAU CLAIRE	254	+ 11
IA DES MOINES	245	- 47	ND BISMARCK	281	+ 62	GREEN BAY	246	+ 48
MASON CITY	355	+ 17	DICKINSON	232	+ 35	LACROSSE	292	+ 10
OTTUMWA	377	-114	JAMESTOWN	253	+ 53	MADISON	341	+ 66
KS CHANUTE	402	- 78	MINOT	248	+ 72	WAUSAU	224	+ 22
DODGE CITY	381	- 68	OH GRAND FORKS	273	+ 89	CASPER	240	+ 24
GARDEN CITY	393	- 30	AKRON-CANTON	364	+ 62	LANDER	212	+ 9
GOODLAND	332	- 135	COLUMBUS	416	+ 37	SHERIDAN	263	+ 42
MEDICINE LODGE	435	- 50	DAYTON	409	+ 38	WORLAND	328	+ 54
RUSSELL	383	- 75	FINDLAY	324	+ 17			
			YOUNGSTOWN	358	+ 81			

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 15, 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		
AL BIRMINGHAM	79	58	84	49	69	0	.6	-.5	.3	9.6	70	17.9	76	91	41	0	0	0	3	0		
MOBILE	80	62	86	55	71	-3	.6	-.7	.6	17.4	128	29.9	126	97	46	0	0	1	1	1		
MONTGOMERY	82	60	86	53	71	1	.4	-.5	.3	11.7	93	21.3	94	91	41	0	0	0	2	0		
AK ANCHORAGE	55	40	65	35	48	2	.2	-.2	.1	.6	37	2.8	84	90	53	0	0	0	3	0		
BARROW	26	18	30	12	22	5	.1	-.0	.0	.2	51	.8	124	90	81	0	7	3	0	0		
FAIRBANKS	65	39	74	32	52	5	.1	-.1	.0	.8	80	3.4	186	86	30	0	1	1	0	0		
JUNEAU	62	39	72	34	50	4	.1	-.7	.3	4.8	63	23.0	144	97	41	0	0	0	1	0		
KODIAK	48	41	51	33	44	2	.8	-.5	.3	20.2	176	30.5	126	95	74	0	0	0	4	0		
NOME	42	29	51	21	36	2	.4	-.2	.2	2.2	145	4.5	154	88	60	0	5	4	0	0		
AZ PHOENIX	99	73	105	66	86	8	.1	-.0	.0	1.6	137	8.6	338	33	13	7	0	0	0	0		
PRESCOTT	80	47	86	34	64	7	.1	-.1	.1	2.6	86	11.0	183	70	20	0	0	0	3	0		
TUCSON	97	63	102	54	80	7	.3	-.2	.3	8.6	67	7.1	265	47	15	7	0	0	1	0		
YUMA	98	73	104	70	86	8	.1	-.1	.1	4	107	3.4	345	37	16	7	0	0	1	0		
AR FORT SMITH	72	54	85	47	63	-5	2.8	1.6	2.5	13.0	124	20.1	134	94	41	0	0	0	4	1		
LITTLE ROCK	76	56	85	52	66	-2	2.0	.8	1.3	12.8	108	19.8	107	85	33	0	0	0	3	1		
CA BAKERSFIELD	86	54	101	47	70	0	.0	-.1	.0	1.8	101	6.1	167	55	21	2	0	0	0	0		
EUREKA	63	50	69	46	57	4	.5	-.1	.3	12.2	135	25.3	128	84	43	0	0	0	2	0		
FRESNO	84	53	99	46	68	1	.1	-.1	.0	2.0	65	9.6	141	69	20	2	0	0	0	0		
LOS ANGELES	74	58	86	54	66	4	.1	-.0	.0	1.9	66	17.7	230	79	37	0	0	0	0	0		
REDDING	78	51	90	48	64	-1	.1	-.3	.1	10.3	144	28.2	160	83	27	1	0	0	1	0		
SACRAMENTO	78	48	89	44	63	-2	.1	-.0	.1	3.1	79	16.8	159	93	36	0	0	0	1	0		
SAN DIEGO	73	60	80	57	67	3	.0	-.1	.0	1.2	46	15.0	249	78	42	0	0	0	0	0		
SAN FRANCISCO	70	51	88	48	61	3	.3	.0	.0	2.8	61	18.7	154	81	31	0	0	0	1	0		
CO DENVER	73	43	83	33	58	2	.2	-.5	.0	3.1	74	4.4	84	75	22	0	0	0	1	0		
GRAND JUNCTION	79	47	84	35	63	1	.0	-.3	.0	3.8	149	6.3	173	61	21	0	0	0	0	0		
FUEBLO	74	40	84	29	57	-2	.6	-.3	.3	4.0	180	4.6	161	77	23	0	0	1	4	0		
CT BRIDGEPORT	74	52	83	48	63	6	.1	-.9	.3	10.5	111	15.7	100	72	33	0	0	0	1	0		
HARTFORD	79	49	92	45	64	6	.1	-.9	.3	11.6	122	17.2	106	77	30	1	0	0	0	0		
DC WASHINGTON	80	59	89	53	70	4	.3	-.5	.3	12.0	159	17.2	132	89	41	0	0	0	2	0		
FL APALACHICOLA	82	63	84	57	73	-1	.0	-.6	.0	4.6	56	14.9	94	94	1	0	0	0	0	0		
DAYTONA BEACH	81	62	85	58	71	-3	.2	-.5	.2	6.1	94	13.4	108	95	51	0	0	0	2	0		
JACKSONVILLE	84	60	87	55	72	-2	.1	-.7	.0	7.3	96	14.0	96	88	32	0	0	0	0	0		
KEY WEST	83	73	86	69	78	-2	.6	-.1	.6	3.8	78	12.1	139	76	50	0	0	1	1	1		
MIAMI	85	72	89	69	79	0	.1	-1.2	.1	9.2	119	16.4	138	73	43	0	0	0	2	0		
ORLANDO	85	65	87	61	75	-2	.1	-.7	.0	8.3	131	14.6	126	88	42	0	0	0	0	0		
TALLAHASSEE	87	57	91	52	72	-1	.1	-1.0	.0	7.4	61	21.5	96	87	27	1	0	0	1	0		
TAMPA	85	67	88	62	76	-1	.1	-.6	.0	6.7	126	12.6	122	83	39	0	0	0	1	0		
WEST PALM BEACH	84	70	88	64	77	0	.1	-1.3	.1	14.0	160	24.0	170	74	41	0	0	0	1	0		
GA ATLANTA	80	60	84	54	70	2	.1	-.9	.1	10.9	90	19.3	89	80	33	0	0	0	2	0		
AUGUSTA	86	59	89	55	72	2	.8	-.1	.8	10.0	103	19.2	106	86	31	0	0	0	2	1		
MACON	83	57	86	53	70	-1	.1	-.7	.1	12.3	124	22.0	114	90	31	0	0	0	1	0		
SAVANNAH	84	61	87	58	72	0	.8	-.0	.8	12.2	141	21.0	136	89	31	0	0	0	1	1		
HI HILO	81	65	82	63	73	-1	2.2	-.2	1.0	25.6	74	30.5	56	90	66	0	0	0	6	2		
HONOLULU	85	69	86	66	77	0	.1	-.2	.0	.3	8	1.4	14	78	52	0	0	0	2	0		
KAHULUI	84	67	87	63	75	0	.1	-.1	.1	2.7	54	5.1	42	78	54	0	0	0	2	0		
LIHUE	80	70	82	66	75	-1	2.0	1.2	1.7	4.7	50	5.9	32	83	64	0	0	0	3	1		
ID BOISE	84	54	94	37	69	13	.0	-.3	.0	5.2	169	7.8	140	57	19	2	0	0	0	0		
LEWISTON	84	53	95	40	68	11	.0	-.3	.0	4.8	171	6.3	126	68	29	2	0	0	0	0		
POCATELLO	77	42	83	31	59	7	.1	-.3	.0	4.9	156	9.2	181	80	23	0	1	1	0	0		
IL CHICAGO	77	50	87	40	64	6	.1	-.7	.0	9.5	120	14.2	131	76	29	0	0	0	0	0		
MOLINE	80	54	86	42	67	7	.6	-.3	.5	11.4	127	14.3	122	81	30	0	0	0	3	1		
PEORIA	80	54	85	40	67	6	.5	-.4	.2	10.3	121	15.5	136	86	33	0	0	0	3	0		
QUINCY	74	53	81	39	63	2	.5	-.6	.4	7.0	77	10.4	86	88	50	0	0	0	2	0		
ROCKFORD	79	52	87	38	65	8	.1	-.8	.0	10.6	136	13.9	136	86	38	0	0	0	0	0		
SPRINGFIELD	77	54	84	40	66	4	.7	-.1	.7	8.7	100	14.2	118	80	36	0	0	0	2	1		
IN EVANSVILLE	80	57	87	45	69	3	1.2	.2	1.1	10.9	95	17.1	96	86	35	0	0	0	3	1		
FORT WAYNE	81	52	90	40	66	7	.8	.0	.8	9.3	117	16.3	139	77	30	1	0	0	1	1		
INDIANAPOLIS	79	55	86	41	67	5	.2	-.7	.2	9.2	98	14.9	105	82	36	0	0	0	1	0		
SOUTH BEND	78	50	87	40	64	6	.1	-.7	.0	7.1	84	12.6	100	75	29	0	0	0	1	0		
IA DES MOINES	76	54	82	46	65	5	1.6	.7	.8	11.1	144	14.3	147	89	43	0	0	0	5	1		
SIoux CITY	73	51	85	43	62	2	.4	-.4	.3	6.1	103	8.9	124	85	37	0	0	0	3	0		
WATERLOO	79	54	88	41	66	7	1.5	.6	.7	11.2	149	13.0	139	92	40	0	0	0	4	2		
KS CONCORDIA	70	52	82	49	61	-1	1.9	1.0	.7	7.1	110	9.7	125	93	52	0	0	0	5	2		
DODGE CITY	72	48	85	44	60	-3	.9	.2	.4	6.0	120	9.9	161	94	41	0	0	0	5	0		
GOODLAND	71	44	85	36	58	0	.3	-.5	.3	2.6	66	4.0	84	89	30	0	0	0	2	0		
TOPEKA	72	52	82	47	62	-1	.6	-.3	.5	12.8	170	16.3	171	91	46	0	0	0	4	1		
WICHITA	68	52	81	47	60	-5	2.8	1.9	1.9	11.4	155	14.3	153	94	58	0	0	0	5	2		
KY BOWLING GREEN	79	54	87	44	66	2	.5	-.7	.5	8.4	71	14.3	72	94	51	0	0	0	2	0		
LEXINGTON	77	55	85	40	66	3	.5	-.5	.4	8.4	81	15.0	91	88	38	0	0	0	2	0		
LOUISVILLE	80	57	88	44	69	4	.7	-.4	.3	9.9	89	17.6	101	85	32	0	0	0	2	0		
LA BATON ROUGE	81	59	84	54	70	-4	.6	-.6	.5	18.7	148	34.9	151	96	46	0	0	0	2	0		
LAKE CHARLES	82	62	85	56	72	-2	1.6	.4	1.6	15.7	170	26.9	155	93	39	0	0	0	1	1		
NEW ORLEANS	82	61	85	55	72	-3	1.4	.4	.6	16.2	141	24.7	110	95	39	0	0	0	4	2		
SHREVEPORT	81	57	86	52	69	-2	.9	-.4	.6	12.1	112	21.5	113	96	34	0	0	0	3	1		

Based on 1961-90 normals.

Weather Data for the Week Ending May 15, 1993

STATES  AND  STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS									
	AVERAGE	MAXIMUM	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		
ME CARIBOU	56	39	67	30	48	-2	.9	.2	.4	6.4	101	10.7	100	84	47	0	1	4	0	0	0	0		
ME PORTLAND	62	42	88	37	52	0	.4	-.5	.3	12.4	130	19.1	116	86	40	0	0	3	0	0	0	0		
MD BALTIMORE	80	55	89	50	68	6	1.3	.4	1.3	13.4	163	19.0	131	89	34	0	0	1	1	1	0	0		
MD SALISBURY	80	52	85	43	66	4	1.2	.4	.6	13.1	144	19.6	121	97	48	0	0	2	2	2	0	0		
MA BOSTON	70	50	91	48	60	4	.1	-.7	.1	12.6	142	19.7	123	81	31	1	0	1	0	0	0	0		
MA CHATHAM	61	46	71	45	53	2	.2	-.9	.7	10.9	115	16.9	99	90	39	0	0	1	0	0	0	0		
MI ALPENA	69	42	85	33	56	5	.2	-.4	.1	4.0	71	6.1	72	87	37	0	0	2	0	0	0	0		
MI DETROIT	78	49	87	41	64	7	.7	-.6	.6	6.0	88	11.2	108	70	26	0	0	0	0	0	0	0		
MI FLINT	76	46	87	38	61	5	.2	-.4	.2	6.6	103	10.5	117	75	28	0	0	1	0	0	0	0		
MI GRAND RAPIDS	77	48	87	36	62	6	.6	-.6	.1	7.8	104	13.1	122	76	34	0	0	1	0	0	0	0		
MI HOUGHTON LAKE	74	47	89	33	60	7	.1	-.5	.1	4.3	79	6.9	85	72	29	0	0	1	0	0	0	0		
MI LANSING	76	45	89	37	61	5	.1	-.5	.1	7.3	113	11.7	128	88	42	0	0	1	0	0	0	0		
MI MARQUETTE	70	43	85	30	56	7	.3	-.4	.2	6.9	101	10.0	93	77	35	0	1	2	0	0	0	0		
MI MUSKOGON	74	48	89	38	61	6	.2	-.4	.2	7.1	106	10.6	100	79	32	0	0	1	0	0	0	0		
MI SAULT ST. MARIE	65	40	87	34	53	3	.4	-.2	.3	6.0	102	8.4	84	79	41	0	0	3	0	0	0	0		
MN ALEXANDRIA	69	48	79	39	59	4	.7	-.6	.7	5.7	117	6.7	104	77	32	0	0	1	0	0	0	0		
MN DULUTH	67	44	81	36	55	6	.3	-.4	.2	4.3	79	6.5	87	74	28	0	0	3	0	0	0	0		
MN INT'L FALLS	69	41	83	32	55	4	.1	-.5	.0	2.6	71	3.4	65	75	31	0	1	2	0	0	0	0		
MN MINNEAPOLIS	70	51	80	41	61	3	.8	-.1	.7	5.3	90	7.0	91	74	36	0	0	2	1	1	0	0		
MN ROCHESTER	70	50	74	39	60	4	.7	-.1	.3	8.8	145	10.8	142	82	40	0	0	3	0	0	0	0		
MS GREENWOOD	79	58	88	53	68	-3	4.7	3.5	2.7	17.9	133	23.6	103	99	52	0	0	3	3	3	0	0		
MS JACKSON	81	57	87	52	69	-1	1.8	.5	1.0	13.2	92	21.3	87	96	36	0	0	3	2	2	0	0		
MS MERIDIAN	79	59	87	52	69	-1	2.0	1.0	1.3	14.1	98	28.6	114	95	41	0	0	3	1	1	0	0		
MO CAPE GIRARDEAU	77	56	85	46	67	1	.8	-.4	.4	10.9	90	19.5	107	92	50	0	0	2	0	0	0	0		
MO COLUMBIA	73	53	80	45	63	1	1.0	-.1	.9	11.5	127	15.8	128	95	37	0	0	3	1	1	0	0		
MO KANSAS CITY	73	53	82	48	63	0	2.0	-.9	1.5	13.4	169	16.7	164	88	40	0	0	3	1	1	0	0		
MO SAINT LOUIS	75	57	84	44	66	1	1.7	-.8	1.0	12.3	137	18.6	144	84	42	0	0	3	1	1	0	0		
MO SPRINGFIELD	70	51	82	42	60	-3	1.3	-.3	.6	8.3	83	13.8	101	94	39	0	0	5	1	1	0	0		
MT BILLINGS	78	49	90	39	64	10	.1	-.5	.0	2.5	61	3.3	58	61	22	1	0	2	0	0	0	0		
MT GLASGOW	80	47	91	40	63	10	.7	-.4	.7	1.4	75	1.9	78	60	17	1	0	1	0	0	0	0		
MT GREAT FALLS	75	46	84	37	61	9	.2	-.4	.2	5.5	150	7.4	143	70	26	0	0	1	0	0	0	0		
MT HAVRE	77	46	87	37	62	8	.0	-.4	.0	2.1	88	2.7	84	66	23	0	0	0	0	0	0	0		
MT HELENA	79	43	87	34	61	10	.1	-.3	.1	3.3	132	5.1	145	74	22	0	0	2	0	0	0	0		
MT KALISPELL	82	48	90	34	65	14	.1	-.3	.1	3.3	114	5.6	101	71	24	1	0	2	0	0	0	0		
MT MILES CITY	77	48	87	40	62	7	.7	-.5	.7	3.4	113	4.3	108	82	23	0	0	0	0	0	0	0		
MT MISSOULA	84	45	91	35	65	14	.1	-.3	.1	2.9	105	4.4	92	77	22	2	0	1	0	0	0	0		
NE GRAND ISLAND	71	49	85	43	60	0	.3	-.6	.1	4.5	74	7.2	98	90	33	0	0	3	0	0	0	0		
NE LINCOLN	71	51	83	45	61	1	1.5	-.6	.8	6.9	104	8.1	103	95	54	0	0	4	0	0	0	0		
NE NORFOLK	73	50	87	45	62	2	.5	-.3	.3	6.4	112	9.4	134	86	35	0	0	4	0	0	0	0		
NE NORTH PLATTE	74	46	85	39	60	3	.5	-.3	.3	3.8	79	5.9	106	86	26	0	0	4	0	0	0	0		
NE OMAHA	72	53	85	48	63	1	2.3	1.4	1.8	8.8	128	10.6	128	84	40	0	0	4	1	1	0	0		
NE SCOTTSBLUFF	74	41	85	33	58	3	.1	-.5	.1	3.7	95	5.8	119	85	25	0	0	1	0	0	0	0		
NE VALENTINE	74	44	85	39	59	1	.2	-.6	.2	5.4	109	6.6	110	87	30	0	0	1	0	0	0	0		
NV ELY	74	36	80	20	55	5	.7	-.3	.7	1.9	77	5.4	139	65	19	0	2	0	0	0	0	0		
NV LAS VEGAS	92	65	99	55	78	6	.7	-.1	.7	.2	22	4.3	251	36	18	6	0	1	0	0	0	0		
NV RENO	77	41	83	36	59	4	.0	-.2	.0	.7	48	4.4	125	57	15	0	0	0	0	0	0	0		
NV WINNEMUCCA	83	44	90	34	64	9	.4	-.2	.4	2.3	115	4.9	143	49	14	1	0	0	0	0	0	0		
NH CONCORD	75	41	91	36	58	4	.2	-.5	.2	7.2	100	10.3	84	86	27	1	0	2	0	0	0	0		
NJ ATLANTIC CITY	81	50	88	43	66	6	.4	-.4	.4	11.5	130	16.6	108	89	28	0	0	1	0	0	0	0		
NM ALBUQUERQUE	80	50	86	38	65	2	.0	-.1	.0	.2	13	2.9	134	53	18	0	0	0	0	0	0	0		
NM CLOVIS	76	49	86	45	63	-1	.7	-.4	.7	.6	29	1.5	50	66	22	0	0	0	0	0	0	0		
NM ROSWELL	81	51	92	44	66	-2	.0	-.2	.0	1.2	96	2.1	103	61	18	1	0	0	0	0	0	0		
NY ALBANY	79	49	87	38	64	8	.6	-.1	.6	11.3	150	16.3	134	72	25	0	0	1	1	1	0	0		
NY BINGHAMTON	73	48	83	37	61	6	.7	-.7	.7	11.7	155	16.5	135	68	31	0	0	1	0	0	0	0		
NY BUFFALO	72	47	86	39	59	4	.1	-.6	.1	6.0	86	12.3	102	66	29	0	0	3	0	0	0	0		
NY NEW YORK	78	57	90	52	67	7	.1	-.8	.0	10.2	111	16.6	109	77	29	1	0	2	0	0	0	0		
NY ROCHESTER	75	46	83	38	60	4	.1	-.6	.0	6.0	96	9.8	95	82	29	0	0	2	0	0	0	0		
NY SYRACUSE	77	47	85	37	62	6	.1	-.7	.0	10.8	141	16.3	134	76	27	0	0	2	0	0	0	0		
NC ASHEVILLE	77	53	82	47	65	2	.4	-.7	.4	12.0	101	17.9	88	97	35	0	0	1	0	0	0	0		
NC CHARLOTTE	82	60	86	54	71	5	.1	-.8	.1	10.9	123	19.8	121	86	35	0	0	1	0	0	0	0		
NC GREENSBORO	82	58	88	54	70	5	1.0	-.1	.8	15.5	184	22.5	151	93	36	0	0	2	1	1	0	0		
NC HATTERAS	76	56	79	49	66	0	.7	-.9	.7	10.6	109	21.7	113	91	34	0	0	0	0	0	0	0		
NC NEW BERN	82	59	87	52	70	2	.1	-1.0	.1	11.2	122	20.2	114	92	48	0	0	1	0	0	0	0		
NC RALEIGH	82	58	86	53	70	4	.3	-.6	.3	12.0	146	18.7	122	91	38	0	0	2	0	0	0	0		
NC WILMINGTON	82	60	87	54	71	3	.4	-.5	.4	12.6	136	21.4	117	94	55	0	0	1	0	0	0	0		
ND BISMARCK	76	43	88	39	60	6	.7	-.4	.7	2.3	68	2.9	68	82	23	0	0	1	0	0	0	0		
ND FARGO	75	45	89	32	60	6	.7	-.5	.7	1.9	46	2.9	55	74	25	0	1	0	0	0	0	0		
ND GRAND FORKS	73	45	90	35	59	5	.1	-.4	.1	1.5	47	1.9	43	72	25	1	0	1	0	0	0	0		
ND WILLISTON	78	42	89	36	60	6	.7	-.4	.7	1.5	52	2.0	51	70	19	0	0	0	0	0	0	0		
OH AKRON-CANTON	77	49	86	39	63	5	.1	-.8	.1	8.3	101	14.3	113	69	28	0	0	1	0	0	0	0		
OH CINCINNATI	78	55	87	41	66	5	1.0	-.0	.6	8.1	81	15.3	100	89	37	0	0	3	1	1	0	0		
OH CLEVELAND	75	47	83	39	61	5	.0	-.8	.0	7.6	99	14.7	123	85	31	0	0	0	0	0	0	0		

Weather Data for the Week Ending May 15, 1993

STATES  AND  STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS							
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTRME HIGH	EXTRME 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		
TOLEDO	80	47	88	39	63	6	T	-.6		6.7	96	11.6	111	79	28			0	0	0	0	
YOUNGSTOWN	78	45	86	33	61	5		-.8		7.2	92	12.9	107	73	27			0	0	0	0	
OK OKLAHOMA CITY	70	53	83	48	62	-5	1.5	-.3	1.0	15.2	193	19.7	186	92	45			0	0	3	3	
TULSA	69	54	83	46	61	-7	1.8	.5	1.0	13.2	135	18.2	136	93	40			0	0	5	2	
OR ASTORIA	62	49	65	40	55	3		-.6		18.0	136	25.6	83	91	37			0	0	2	0	
BURNS	77	43	86	30	60	11		-.2		3.6	171	6.0	155	58	21			0	1	0	0	
MEDFORD	76	45	88	39	61	4		-.2		3.5	100	7.5	93	82	23			0	0	0	0	
PENDLETON	84	53	97	37	69	12		-.2		4.1	149	6.7	124	64	23			2	0	0	0	
PORTLAND	73	51	85	42	62	6		-.4		10.8	155	14.6	90	88	28			0	0	1	1	
SALEM	74	49	82	40	61	8		-.4		12.1	160	18.4	103	83	27			0	0	1	1	
PA ALLENTOWN	81	52	90	42	66	7		-.1		13.6	154	18.4	123	79	27			1	0	1	1	
ERIE	73	48	82	41	60	5		-.7		6.1	78	11.5	93	89	35			0	0	1	1	
HARRISBURG	85	61	90	56	73	13								83	33			1	0	1	0	
PHILADELPHIA	81	57	89	52	69	8		-.9		11.1	118	16.1	101	83	32			0	0	1	1	
PITTSBURGH	80	51	90	39	66	7		-.7		8.5	103	14.4	110	74	31			1	0	2	2	
SCRANTON	80	52	89	39	66	8		-.8		12.3	171	15.3	133	69	31			0	0	1	0	
RI PROVIDENCE	77	51	93	44	64	8		-.8		12.1	121	19.6	112	86	33			1	0	2	2	
SC CHARLESTON	83	62	86	59	72	0		-.3		9.5	110	21.5	140	96	36			0	0	2	1	
COLUMBIA	84	59	89	53	72	2		-.3		8.7	89	19.5	106	89	32			0	0	2	2	
FLORENCE	84	62	90	55	73	3		-.6		5.7	67	14.8	97	92	42			1	0	1	0	
GREENVILLE	80	57	83	53	68	2		-.7		15.4	136	26.1	132	93	36			0	0	1	0	
SD ABERDEEN	76	48	84	41	62	6		-.8		3.9	92	5.0	92	83	28			0	0	1	1	
HURON	73	46	81	41	60	4		-.4		7.3	145	8.2	134	91	30			0	0	1	0	
RAPID CITY	70	45	82	40	58	4		-.6		5.6	135	6.9	138	75	28			0	0	1	0	
STIOUX FALLS	70	48	81	40	59	2		-.7		7.7	138	9.2	137	80	36			0	0	1	0	
TN CHATTANOOGA	81	56	86	50	69	3		-.7		11.9	95	20.8	93	95	29			0	0	2	0	
KNOXVILLE	78	57	83	50	68	4		-.1	1.0	10.5	97	16.8	88	86	41			0	0	2	1	
MEMPHIS	78	57	88	53	68	-3		-.2	.9	11.4	85	17.5	81	87	36			0	0	2	1	
NASHVILLE	79	57	85	50	68	1		-.5	1.1	11.7	100	17.5	92	87	36			0	0	3	2	
TX ABILENE	81	51	94	45	66	-6		-.6		2.9	63	5.0	74	80	26			1	0	1	1	
AMARILLO	74	46	89	40	60	-4		-.3		2.9	99	4.0	99	88	28			0	0	2	0	
AUSTIN	85	60	91	57	73	-2		-.5	1.5	8.8	132	15.3	146	75	32			2	0	1	1	
BEAUMONT	84	60	87	56	72	-3		-.8	1.8	14.7	157	28.7	164	96	49			0	0	1	1	
BROWNSVILLE	88	65	93	58	76	-3		-.5	1.2	3.2	93	7.9	130	92	38			3	0	1	1	
CORPUS CHRISTI	85	63	91	55	74	-3		-.6		8.0	193	10.1	130	94	33			1	0	1	0	
DEL RIO	92	61	98	56	77	1		-.7		1.2	24	2.6	35	69	23			5	0	0	0	
EL PASO	86	56	93	49	71	0		-.1		.1	21	1.8	125	47	18			1	0	0	0	
FORT WORTH	81	57	94	54	69	-2		-.8		7.5	81	15.1	111	85	32			1	0	3	0	
GALVESTON	81	67	84	64	74	-1		-.3	.5	12.2	196	25.2	214	80	40			0	0	2	0	
HOUSTON	84	60	90	56	72	-2		-.6	.5	19.2	214	27.7	169	87	31			1	0	2	0	
LUBBOCK	80	51	93	44	65	-3		-.5		1.7	60	3.1	80	68	20			2	0	0	0	
MIDLAND	83	49	95	43	66	-6		-.5		.8	37	2.9	89	60	18			2	0	0	0	
SAN ANGELO	85	53	96	49	69	-4		-.6		3.0	76	4.8	82	76	20			2	0	1	0	
SAN ANTONIO	88	58	94	51	73	-2		-.9		9.8	164	14.8	156	78	29			2	0	1	0	
VICTORIA	85	61	91	58	73	-2		-.9		15.5	221	22.3	169	90	35			1	0	1	0	
WACO	83	54	93	50	69	-5		-1.0		9.7	126	16.0	140	91	33			1	0	1	0	
WICHITA FALLS	76	53	88	50	65	-5		-.1	.9	10.3	140	14.9	139	98	38			0	0	4	1	
UT CEDAR CITY	77	44	82	26	60	5		.0		2.2	76	6.6	147	70	20			0	1	3	0	
SALT LAKE CITY	78	53	87	36	66	8		-.4		6.4	129	11.0	150	69	24			0	0	0	0	
VT BURLINGTON	72	44	83	32	58	3		-.6		5.9	92	9.9	101	85	33			0	1	3	0	
VA NORFOLK	82	58	89	53	70	5		-.2		10.5	123	17.8	113	82	34			0	0	3	0	
RICHMOND	83	57	89	53	70	5		.4	.7	12.5	149	19.8	134	84	36			0	0	2	2	
ROANOKE	81	56	86	51	69	6		.3	.5	12.5	145	19.8	138	92	34			0	0	4	1	
WA QUILLAYUTE	63	48	66	40	55	5		-.7	.3	26.7	122	35.4	73	96	31			0	0	5	0	
SEATTLE-TACOMA	71	50	80	44	61	6		-.2		10.5	157	15.0	93	85	29			0	0	2	0	
SPOKANE	80	51	92	38	66	13		-.3		3.9	117	6.2	91	65	24			1	0	0	0	
YAKIMA	84	50	96	34	67	11		-.1		1.3	91	2.9	86	64	22			2	0	0	0	
WV BECKLEY	74	50	81	41	62	3		1.6	2.1	11.6	133	16.0	110	91	40			0	0	4	1	
CHARLESTON	81	55	88	41	68	5		-.5		8.9	101	13.8	93	94	36			0	0	3	0	
HUNTINGTON	81	56	89	44	69	8		-.2	.5	8.7	95	14.7	96	88	37			0	0	3	0	
PARKERSBURG	79	52	89	38	66	4		-.4	.4	11.5	125	16.0	105	93	42			0	0	2	0	
WI GREEN BAY	75	48	84	36	61	7		-.4		6.6	115	8.4	105	79	32			0	0	4	0	
LACROSSE	75	53	82	40	64	6		-.6		11.6	182	14.0	170	85	39			0	0	2	1	
MADISON	77	51	87	35	64	7		-.7		10.4	152	13.2	145	74	37			0	0	3	0	
MILWAUKEE	72	49	81	41	61	8		-.6		10.1	133	13.7	129	69	35			0	0	3	0	
WAUSAU	72	50	83	37	61	6		1.0		8.0	126	9.9	120	90	37			0	0	3	1	
WY CASPER	72	42	82	34	57	6		-.4		4.9	138	6.6	141	84	24			0	0	2	2	
CHEYENNE	66	40	75	30	53	2		-.3		3.8	110	5.0	117	76	26			0	0	2	0	
LANDER	73	43	81	31	58	6		-.2		4.7	107	6.1	111	68	22			0	2	1	3	
SHERIDAN	73	43	84	36	58	7		-.5		5.0	131	5.8	112	72	29			0	0	0	0	

Based on 1961-90 normals.

## National Agricultural Summary

May 10 - 16, 1993

**HIGHLIGHTS:** Scattered showers occurred across the central part of the Nation most of the week. However, fieldwork advanced where conditions allowed, especially in the eastern Corn Belt. Fieldwork in the lower Mississippi Valley was delayed by heavy rains at the beginning of the week. Temperatures across the Nation were above normal for the period except in the south-central Plains where a lingering storm kept temperatures cool. The warm temperatures aided crop development and helped dry fields.

**SMALL GRAINS:** Winter wheat condition slipped slightly but remained mostly good in the 19 major producing States. Crop development remained more than a week behind normal. Heading of the winter wheat crop stood at 32 percent (%), compared with 63% last year and the 5-year average of 54%. Wheat in Georgia and the Texas High Plains needed moisture. In Kansas disease pressure was widespread due to persistent wet conditions. Insect infestations remained light but were intensifying. Planting progress neared normal as favorable conditions continued across the major spring wheat States. Spring wheat acreage was 88% planted, compared with 89% last year and 90% average. Spring wheat emergence stood at 53%, compared with 66% last year and 64% average. Progress was ahead of average in North Dakota and Minnesota.

**CORN:** Good weather allowed planting progress to accelerate in the eastern Corn Belt. However, progress remained nearly 2 weeks behind average. Planting was 40% complete in the 17 major corn-producing States, compared with 87% last year and 78% average. Favorable weather over the eastern Corn Belt allowed good progress to be made, especially in Illinois, Indiana, Ohio, and Michigan. Corn planting progressed in other areas of the Corn Belt where conditions allowed. Corn was tasseling in the Coastal Bend of Texas. Condition of the Texas crop rated 81% of normal, compared with 88% last year.

**SOYBEANS:** Soybean planting progress in the 19 major producing States was 9% complete, compared with 43% last year and 29% average. Progress in the Southeast remained ahead of average. Rain delayed planting in Mississippi. All major States had some acreage planted, though progress in Kansas was slight.

**COTTON:** Cotton planting progress approached normal with 54% planted, compared with 71% last year and 58% average. Wet conditions continued to hinder planting in the lower Mississippi Valley. Although wind damaged some cotton in Arizona, the crop remained in good condition, with light weed and insect pressure. Wind, blowing sand, and hail damaged some cotton in Texas. Warm temperatures aided germination and emergence of the crop in California.

**SORGHUM:** Planting progress in the 12 major producing States continued about 1 week behind average, with 31% of the acreage planted. This compared with 47% last year and 40% average. Green bugs and yellow aphids plagued some fields in the Badlands and central parts of Texas. Sorghum condition in Texas rated 79% of normal, compared with 86% last year.

**RICE:** Rice planting progress in the five major States reached 51% complete, compared with 89% last year and 75% average. Progress remained 2 weeks behind normal. Rice emergence, at 35%, compared with 68% last year and 51% average. In Arkansas, some producers used aerial seeding to plant muddy fields. Other producers flushed fields to aid germination. In California, planting, ground preparation, and weed and insect treatments continued.

**OTHER FIELD CROPS:** Onion harvests continued in California, Texas, and Georgia. The Georgia harvest advanced under ideal

conditions, though progress was behind last year and average. The Colorado crop was rated in good to excellent condition. Crop emergence in Idaho was well behind that of last year and average. Sugar beet planting reached completion in Wyoming, Minnesota, North Dakota, and Idaho. Planting progress in Michigan still lagged last year and average. Harvesting of California over-winter sugar beets advanced. Potato planting activities advanced across the Nation, although progress was behind that of last year and average in Idaho and Maine. Planting progress in Minnesota, North Dakota, and southern New England was ahead of average. In Florida and California, harvesting continued. Tobacco condition remained fair to good in Georgia and South Carolina. Transplanting of tobacco in Tennessee, at 16%, lagged last year and average, with only greenhouse-produced plants transplanted. Peanut planting progress was at or ahead of normal in Alabama and Georgia. Wet weather delayed planting in Mississippi. In Texas, planting began in the Low Plains and neared completion in the south.

**FRUIT AND NUTS:** Florida citrus trees needed rain and nonirrigated citrus groves showed stress. Quality deteriorated on some unharvested fruits. Valencia orange harvests advanced in Arizona but slowed in Florida. The Arizona and Florida grapefruit harvests continued. Grape picking was active in the Coachella Valley of California. Apples, peaches, and pears were in good condition in the East. The New Jersey crop showed no damage from this spring's harsh weather. New York apples and peaches showed good fruit set. Ohio apple producers were concerned over the lack of bees for pollination. Tart cherries showed frost damage in orchards west of Rochester, New York. Peaches were in good condition from Georgia to Virginia, and harvests advanced in California, Texas, and Georgia. East Texas producers were pessimistic about their crop due to earlier frosts. Leaf curl continued to be a problem for some Texas producers. Cherry, nectarine, and apricot harvests advanced in California. The Texas pecan crop remained in good condition.

**VEGETABLES:** Vegetables in Florida and Georgia needed more rain, although the condition of the Florida crop remained good, and that of the Georgia crop was fair to good. New York vegetables received needed rainfall at the end of the week. Vegetable planting in New Jersey was hampered by excessively wet fields. Wet weather caused disease problems in some Texas strawberry fields. Spider mite problems occurred in some Texas tomato fields and high winds damaged some Texas cabbage. Vegetable harvesting continued in central Arizona and began in northern Florida. Early crop vegetables were also harvested in Georgia and New Jersey. Watermelon and cabbage harvests advanced in Texas. Asparagus harvest slowed in the Fresno and Delta areas and finished in the Sutter area of California. Lettuce and cauliflower harvests continued in California with a crop of variable quality.

**PASTURE AND LIVESTOCK:** Pastures remained in good condition over most of the Nation, although dry weather across California rapidly dried foothill pastures. The warmer temperatures improved livestock conditions in Iowa. Some cattle deaths occurred in Texas due to peavine toxicity. Livestock conditions continued good across the Nation. The movement of cattle and sheep to summer pastures continued. Nearly a quarter of Utah and almost half of Montana's livestock were on summer pastures. Pasture, range, and feed supplies remained adequate.

### Crop Progress

for the Week Ending May 16, 1993

#### COTTON (Percent Planted)

	Current	Last Wk	1992	Avg.
AL	65	53	91	83
AZ	93	87	90	93
AR	48	21	82	64
CA	98	95	99	98
GA	67	53	71	60
LA	71	45	97	76
MS	46	22	92	73
MO	46	12	86	67
NM	86	76	88	91
NC	70	40	60	63
OK	14	6	36	15
SC	81	53	69	68
TN	43	22	87	65
TX	42	27	51	39

14 States 54 36 71 58

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

#### WINTER WHEAT (Percent Headed)

	Current	Last Wk	1992	Avg.
AR	87	69	97	98
CA	98	97	98	97
CO	0	0	54	13
GA	98	95	100	100
ID	0	0	3	1
IL	19	2	46	49
IN	12	0	22	27
KS	15	1	85	70
MI	0	0	0	0
MO	19	5	58	65
MT	0	0	0	0
NE	0	0	27	15
NC	89	60	90	91
OH	8	0	1	0
OK	76	46	100	91
OR	2	0	34	13
SD	0	0	1	0
TX	78	55	85	78
WA	0	0	15	8

19 States 32 19 63 54

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

#### SOYBEANS (Percent Planted)

	Current	Last Wk	1992	Avg.
AL	22	12	24	21
AR	7	5	16	10
GA	16	7	14	14
IL	5	0	60	44
IN	17	3	50	37
IA	5	0	61	33
KS	1	1	25	20
KY	6	2	19	14
LA	15	4	29	16
MI	20	3	20	20
MN	9	3	61	37
MS	5	4	26	17
MO	1	0	30	20
NE	1	0	37	27
NC	19	8	15	16
OH	30	5	38	36
SC	12	5	12	10
SD	6	0	35	19
TN	3	0	15	10

19 States 9 2 43 29

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

#### GRAIN SORGHUM (Percent Planted)

	Current	Last Wk	1992	Avg.
AR	41	32	89	66
CO	7	6	15	8
IL	0	0	34	27
KS	4	1	20	15
LA	56	33	82	73
MS	45	37	84	66
MO	8	3	51	34
NE	1	0	32	22
NM	19	15	20	NA
OK	8	5	22	9
SD	1	0	19	8
TX	71	67	72	68

12 States 31 28 47 NA

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

#### CORN (Percent Planted)

	Current	Last Wk	1992	Avg.
CO	69	52	90	76
GA	99	97	100	98
IL	41	4	93	86
IN	52	10	84	75
IA	20	7	96	84
KS	70	65	97	85
KY	60	37	85	71
MI	45	5	60	65
MN	34	18	91	76
MO	16	13	88	76
NE	36	27	92	85
NC	93	76	93	89
OH	67	25	73	68
PA	40	16	38	40
SD	23	7	86	66
TX	95	87	97	97
WI	21	8	65	60

17 States 40 18 87 78

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

#### SPRING WHEAT (Percent Planted)

	Current	Last Wk	1992	Avg.
ID	66	56	99	95
MN	95	80	81	93
MT	86	70	95	91
ND	87	65	85	86
SD	89	77	100	99

5 States 88 70 89 90

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

#### SPRING WHEAT (Percent Emerged)

	Current	Last Wk	1992	Avg.
ID	48	29	91	77
MN	61	24	49	72
MT	44	17	71	60
ND	47	23	58	54
SD	73	37	97	91

5 States 53 25 66 64

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

#### RICE (Percent Planted)

	Current	Last Wk	1992	Avg.
AR	40	24	96	71
CA	35	20	50	51
LA	81	70	93	86
MS	36	24	98	78
TX	75	67	92	94

5 States 51 38 89 75

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

#### RICE (Percent Emerged)

	Current	Last Wk	1992	Avg.
AR	22	12	74	42
CA	5	1	10	11
LA	71	60	85	77
MS	23	10	80	57
TX	63	46	68	81

5 States 35 24 68 51

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

### Crop Condition (Percent)

for the Week Ending May 16, 1993

#### WINTER WHEAT

State	VP	P	F	G	EX
AR	0	0	54	43	3
CA	0	0	5	60	35
CO	0	3	13	63	21
GA	0	12	36	48	4
ID	1	6	18	67	8
IL	0	0	17	80	3
IN	0	1	10	78	11
KS	0	1	14	44	41
MI	5	10	30	45	10
MO	2	8	59	31	0
MT	1	2	21	64	12
NE	0	0	22	64	14
NC	0	0	29	68	3
OH	2	8	30	46	14
OK	0	1	20	79	0
OR	0	2	4	67	27
SD	0	2	13	54	31
TX	0	4	44	50	2
WA	0	0	4	92	4
19 State	0	2	22	59	17
Prev Week	0	2	20	61	17
Prev Year	4	14	43	34	5

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

## State Summaries of Weather and Agriculture

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

**ALABAMA:** Rainfall 0.47 to 1.56 in. north; 0.24 to 1.53 in. central; 0.22 to 2.94 in. south. Temperatures 4° below normal to normal north; 4° below normal to 1° above normal central; 1 to 4° below normal south. Lows 43 to 53° north; 45 to 55° central; 52 to 59° south. Highs 81 to 85° north; 84 to 88° central; 85 to 88° south.

Days suitable for fieldwork 4.6. Soil moisture 9% short, 65% adequate, 26% surplus. Acreage prepared 91%, 94% 1992, 91% avg. Corn planted 90%, 99% 1992, 95% avg. Corn 32% fair, 63% good, 5% excellent. Sorghum planted 35%, 39% 1992, 43% avg. Peanuts planted 73%, 73% 1992, 75% avg. Wheat headed 78%, 98% 1992, 98% avg.; turning color 25%, 55% 1992, 62% avg.; 5% poor, 24% fair, 71% good. Hay harvested 25%, 37% 1992, 29% avg. Pasture conditions 1% poor, 23% fair, 70% good, 6% excellent. Primary activities: Harvesting timber; land preparation; planting corn, cotton, peanuts, soybeans, spring vegetables; applying fertilizer; spraying fruit; marketing cattle; general care of livestock, poultry, catfish.

**ALASKA:** Statewide, temperatures were generally above normal for this time of year. A lack of rainfall in the Matanuska, Tanana Valleys has put somewhat of a drain on available soil moisture.

An average of 6 days were available for planting and ground preparation. Fieldwork progress slightly behind schedule to up to 10 days ahead of normal. Barley planting 65% completed, 0% 1992. Commercial potato planting was well underway. Livestock 10% fair, 70% good, 20% excellent. Topsoil moisture 50% short, 50% adequate. Subsoil moisture 45% short, 55% adequate.

**ARIZONA:** Clear, sunny, warm 9th to 11th statewide. Thunderstorms 12th central, southeast; 13th central, northeast; statewide 14th to 15th. Temperatures 1 to 9° above normal. Extremes 24°; 94° higher elevations; 43°; 109° deserts.

Cotton planting active. Planted 93%, 90% 1992, 90% avg. Activities included: Irrigating, planting, replanting, pesticide applications, pest monitoring, cultivating. Cotton condition mostly good. Insects, weeds light to moderate. Wind damage some areas. Alfalfa condition good to excellent. Harvest activities moderate to active. Weeds light to moderate; insect infestations light to moderate statewide; disease light. Small grains heading 100%, 100% 1992, 99% avg; turning color 88%, 84% 1992, 82% avg. Fields in good to excellent condition. Harvesting small grains underway western areas. Western area vegetable harvest virtually complete with bell, chile peppers being harvested; Cabbage, carrots, mixed greens, green onions, kale, parsley, dry onions, potatoes, squash, radishes, spinach available, central. Fruit harvest limited to valencia oranges, lemons, grapefruit, available both western, central areas. Tomatoes, head lettuce harvested eastern.

**ARKANSAS:** Cool wet week, temperatures below normal. Heavy rains, scattered showers statewide first part of week. Extremes 40°; 88°. Rainfall 0.52 to 3.88 in.

Days suitable for fieldwork 3. Moderate rate of crop growth. Soil moisture supplies 2% short, 22% adequate, 76% surplus. Wheat fair to good, needs sunshine, dry weather. Some wheat fields were treated with fungicides. Producers flushed rice fields to help with germination in some areas. Aerial seeding was used to plant rice in some muddied areas. Fruit crop good

condition. Vegetable crop good condition. Cotton, rice, soybeans, sorghum plantings continued as weather allowed. Corn 78% planted, 99% 1992, 94% avg. Livestock good condition; horsefly, lice, tick problems were reported in some areas. Pastures good condition.

**CALIFORNIA:** Last week was generally warm and dry. The only rain reported was less than a tenth of an inch at only a handful of places. Week's weather was dominated by an upper level low in the Pacific that moved very slowly up the coast. Strong gusty winds, little rain. Field activities good progress. Scattered rain, cool temperatures some areas. Small grains maturing rapidly most areas. Winter wheat harvest beginning shortly. Seeding higher elevation fields winding down. Rice seeding progressed. Ground preparation, weed, water weevil treatment ongoing. Cotton planting nearing completion. Warm temperatures aided germination, emergence. Cooler weather some areas hampered development. New crop sugarbeets planted, hand weeded, sprayed mildew. Harvest over-wintered beets continued. Hay harvest progressed. Second alfalfa cutting beginning southern counties. Rainfall may decrease quality cut hay scattered areas. Corn, dry edible beans planted, showed excellent growth. Oats, winter forage cut hay, green chopped. Apricot, cherry, nectarine, freestone peach picking active. Coachella Valley table grape harvest active. San Joaquin Valley grapes treated for mildew; apples treated for codling moth. Clingstone peaches thinned. Avocados picked. Olives, pomegranates, new crop avocados bloomed. Valencia orange picking active. Asparagus harvesting slowed Delta, Fresno; completed Sutter. Bell pepper planting continued Merced, Modesto; harvesting Coachella Valley, Imperial valley. Broccoli harvest moderate Salinas-Watsonville, Santa Maria generally good. Cabbage harvest continued Fresno, Modesto. Imperial carrot harvesting slowed. Central coast cauliflower harvest moderate, variable quality. Fresh market tomato harvesting continued in the Coachella, Imperial valleys. Head lettuce harvest fairly heavy Salinas-Watsonville, Santa Maria, variable quality. Harvest of leaf, romaine lettuce Salinas-Watsonville fairly heavy, variable quality. Onion harvesting continued Imperial Valley, Palo Verde, Fresno. Watermelon harvest began Imperial Valley, continued Coachella Valley. Potato harvest continued Coachella Valley. Processing tomatoes were irrigated in the Fresno area, planting continues in other areas. Squash harvest slowed Imperial Valley, picking steady Visalia. Other crops harvested included: radishes, green onions, peas, turnips, celery, green beans, eggplant and oriental vegetables. Feed conditions good. Foothill grasses drying rapidly, increased temperatures. Livestock movement moderate to heavy.

**COLORADO:** Dry conditions most of the week. No significant rain until the 14th, 15th when 0.25 to 0.50 in. fell in several locations in the east. Western valleys, San Luis Valley required flash flood watches on 16th when up to 1.00 in. fell which added to melting snowpack. Temperatures mostly 2 to 4° below normal except in the South Platte Basin where temperatures 1 to 2° above normal.

Days suitable for fieldwork 5.6. Soil moisture 5% very short, 30% short, 62% adequate, 3% surplus. Spring barley seeded 88%, 95% 1992, 95% avg.; emerged 69%, 79% 1992, 76% avg. Oats seeded 65%, 90% 1992, 92% avg. Barley, oats condition mostly good to excellent. Spring wheat seeded 47%, 91% 1992, 86% avg.; emerged 28%, 53% 1992, 57% avg. Summer storage onions

developing in good to excellent condition as are sugarbeets. Dry Beans planted 4%, 11% 1992, 3% avg. Sorghum planted 7%, 15% 1992, 8% avg. Corn planted 69%, 90% 1992, 76% avg. Corn 26% emerged, 60% 1992, 25% avg. Fall potatoes are 40% planted 65% 1992, 50% avg. Winter wheat jointed 78%, 95% 1992, 76% avg.; 3% poor, 13% fair, 63% good, 21% excellent. Livestock rated mostly good to excellent. Pasture, range feed condition good.

**FLORIDA:** Temperatures 1 to 3° below normal, except 5 to 6° below normal northeast, around normal lower southeast coast. Highs; upper 80s, low 90s. Lows; low to middle 50s north, around 60° central, interior south except middle, upper 60s southeast coast. Rain 1 or 2 days, with some areas receiving none. Rainfall under 0.33 in. Except 1.00 in. western Panhandle.

Soil moisture mostly short throughout State. Cotton planting active where moisture adequate. Soybean planting, small grain harvest starting. Corn, sugarcane, tobacco making good progress. Citrus groves, trees many areas being irrigated. Rain needed. Minimum care groves showing stress. Bloom over. Some fruit remaining for harvest softening. Valencia harvest slowing. White grapefruit harvest almost over. Colored grapefruit still going to fresh, process markets. Caretakers cutting cover crops, hedging, topping, post bloom spraying. Dry, 2 to 6° cooler than normal over major vegetable production areas. Crop condition good throughout State. Harvest started melons west central, except to start north area next week. Harvest started squash north. Volume leaders: Potatoes, tomatoes, watermelons, cucumbers, corn. Also available: Snap beans, cabbage, carrots, celery, chinese cabbage, eggplant, escarole, romaine lettuce, specialty lettuces, peppers, radishes, squash, cherry tomatoes. Pasture ratings: 20% poor, 45% fair, 25% good, 10% excellent. Cattle herd fair to good condition.

**GEORGIA:** Temperatures near normal. Warmest low 80s mountains, upper 80s, low 90s central, south. Coolest low to mid 40s mountains, low 60s along coast. Most of week dry, scattered showers, thunderstorms mid to late week, mainly 13th. Rain amounts none to more than 1.00 in., most over north.

Days suitable for fieldwork 5.8. Soil moisture 6% very short, 45% short, 48% adequate, 1% surplus. Corn 8% poor, 16% fair, 71% good, 5% excellent; planting nearing completion north, complete elsewhere. Cotton 4% poor, 35% fair, 61% good; dry soils hindering planting, replanting south. Sorghum 25% fair, 75% good; 40% planted, 35% 1992, 35% avg. Peanuts 14% fair, 82% good, 4% excellent; 83% planted, 74% 1992, 72% avg. Soybeans 34% fair, 66% good; planting ahead of average, rain needed. Tobacco 35% fair, 59% good, 6% excellent; irrigation active. Wheat needs rain. Onions 1% fair, 95% good, 4% excellent; 70% harvested, 89% 1992, 87% avg.; weather near perfect for harvest, quality good. Watermelons 2% poor, 73% fair, 18% good, 7% excellent; 98% planted, 97% 1992, 97% avg. Other vegetables 57% fair, 40% good, 3% excellent; rain needed, moderate supply early vegetables. Apples 9% fair, 91% good. Peaches 5% fair, 95% good; 1% harvested, 5% 1992, 10% avg. Hay, pastures fair to good. Hay harvest active. Cattle, hogs good. Activities: Weed control active in row crops, spraying tobacco for insect control, spraying pecans, land preparation.

**HAWAII:** Weather hot, humid earlier part of week, with gusty winds, rain second half. Snow upper elevations Mauna Kea, Hawaii island. Hazy conditions beginning of week prompted ban on agricultural and other outdoor burning. State of emergency declared by County for western areas island due to drought. A low pressure trough passing through islands brought humid conditions, rains. Rainfall 0.03 to 3.60 in.

Irrigation, spraying underway during week. Banana production steady. Papaya output seasonally low. Watermelon crop made good progress, harvesting gaining momentum.

**IDAHO:** Temperatures 4 to 21° above normal throughout State. All areas received below normal or no precipitation, except Emmett received 0.60 in.

Days suitable for fieldwork 6. Soil moisture 7% short, 85% adequate, 8% surplus. Spring barley planted 65%, 98% 1992, 93% avg.; emerged 43%, 88% 1992, 75% avg. Oats planted 48%, 93% 1992, 86% avg.; emerged 22%, 80% 1992, 62% avg. Potatoes planted 46%, 82% 1992, 71% avg.; emerged 1%, 10% 1992, 7% avg. Sugarbeets planted 97%, 100% 1992, 100% avg.; emerged 34%, 95% 1992, 91% avg. Onions emerged 15%, 100% 1992, 100% avg. Dry peas planted 23%, 99% 1992, 95% avg.; emerged 3%, 93% 1992, 62% avg. Lentils planted 16%, 98% 1992, 93% avg. Field corn planted 26%, 64% 1992, 66% avg. Dry beans planted 1%, 11% 1992, 5% avg. Irrigation water supplies 3% poor, 20% fair, 64% good, 13% excellent. Hay, roughage supplies 12% very short, 12% short, 75% adequate, 1% surplus. Activities: Field cultivation, seeding, weed control, irrigation, preparing first cutting alfalfa. Pasture, range condition 95% of normal. Livestock reported in mostly good condition.

**ILLINOIS:** Favorable weather conditions, with some exceptions over southern, western locales, occurred last week as temperatures averaged above normal to the north, near normal south. Highs low to upper 70s. Lows mid 40s; mid 50s. Precipitation 0.10 to 1.60 in., with greatest amounts reported south, southwest.

Days suitable for fieldwork 4.5. Soil moisture 1% short, 43% adequate, 56% surplus. Oats planted 81%, 100% 1992, 100% avg. Alfalfa 13% excellent, 74% good, 13% fair. Fieldwork progressed some as farmers applied fertilizers, seeded oats, planted some corn, tended livestock. Pasture condition 94% of normal.

**INDIANA:** Temperatures 3 to 7° above normal. Highs mid 70s to 80°. Mean lows in the mid 40s to low 50s. Rainfall varied from none to over 1.00 in. Summer-like weather occurred.

Days suitable for fieldwork 5.2. Favorable conditions allowed rapid advancement of planting, tillage operations. Pastures are rated 96% of normal, 93% last week. Wheat crop ratings improved, 89% rated good to excellent. Topsoil 2% short, 67% adequate, 31% surplus. Subsoil moisture 69% adequate, 31% surplus. Oats seeded 85%, 100% 1992, 95% avg. Spring tillage 72%, 100% 1992, 92% avg. Alfalfa hay 1st cutting 5%, 5% 1992, 10% avg.

**IOWA:** Temperatures 2 to 5° above normal. Extremes 33°; 88°. Precipitation 0.02 in. northeast to 3.29 in. west central; average 0.70 in. (normal 0.89 in.).

Days suitable for fieldwork 1.7. Topsoil 25% adequate, 75% surplus. Subsoil 17% adequate, 83% surplus. Fertilizer application 52%, 98% 1992, 97% normal. Primary seedbed preparation completed 42%, 96% 1992, 97% normal. Oats sown 58%, 100% 1992, 100% normal; emerged 40%, 97% 1992, 96% normal. Corn emerged 10%, 50% 1992, 37% normal. Oat condition 3% very poor, 8% poor 34% fair, 45% good 10% excellent. Winter wheat condition 7% poor, 37% fair, 52% good, 4% excellent. Pasture condition 3% poor, 19% fair, 62% good, 16% excellent. Hay condition 1% very poor, 11% poor, 33% fair, 47% good, 8% excellent. Warmer temperatures have improved livestock conditions.

**KANSAS:** Temperatures mostly 2 to 5° below normal. Precipitation received all districts. In the western districts averages of approximately 0.50 in. Heaviest precipitation fell in the central, eastern districts where averages were 2.00 to 4.00 in.

Days suitable for fieldwork 1.5. Western districts experienced 3.5 to 4.5 days suitable. Rain slowed fieldwork the past week, especially in the central, eastern districts. For State, topsoil moisture 1% short, 28% adequate, 71% surplus. Subsurface moisture 1% short, 45% adequate, 54% surplus. Corn planting 70% complete, 85% avg. Western districts made good progress planting corn. Four percent of the sorghum acreage planted compared, 15% avg. Soybeans planted stand at 1%, 20% avg. Most sorghum and soybeans planted thus far are located in the southern districts. Persisting wet conditions are becoming detrimental to the health and condition of the wheat crop in some areas. Wheat 1% poor, 14% fair, 85% good to excellent. Growth still behind normal. Ninety-six percent of State's wheat acreage jointed compared, 99% avg. Acreage headed is 15% State, compared 70% avg. Disease pressure in wheat is widespread. Infestations have been light but are becoming more severe. Because of wet conditions, potential for foliar diseases is great. Pastures are in good condition. Farmers' activities are seedbed tillage, corn planting as weather allows.

**KENTUCKY:** First half of week was very warm. Afternoon highs low to mid 80s. Temperatures 10 to 12° above normal. Last half of week cooler. Highs 60s to 70s. Temperatures 65 to 70°, a few degrees above normal. All reporting stations had rain. Heaviest rain southeast with more than 1.00 in. The rest of the State received between 0.25 to 1.00 in.

Days suitable for fieldwork 4.2. Soil moisture 20% surplus, 71% adequate, 8% short, 1% very short. Wheat headed 85%, 90% 1992, 87% avg. Wheat 2% very poor, 4% poor, 8% fair, 75% good, 11% excellent. Emerged corn 53% of planted corn, 67% 1992, 58% avg.; condition 2% very poor, 2% poor, 33% fair, 54% good, 9% excellent. Burley 8% set. Dark tobacco 6% set. Tobacco plants 42% less than 2 inches, 38% 2 to 4 inches, 20% greater than 4 inches. Hay crop condition 2% poor, 11% fair, 69% good, 18% excellent. Pastures good to mostly excellent. Fruit prospects excellent.

**LOUISIANA:** Temperatures 1.6 to 3.2° below normal. Extremes 49°; 90°. Rainfall 0.29 in. south central to 1.63 in. east central.

Days suitable for fieldwork 4.5. Soil moisture 79% adequate, 21% surplus. Corn 25% poor, 35% fair, 40% good; 100% planted, 100% 1992, 99% avg.; 99% emerged, 100% 1992, 98% avg.; 0% silked, 3% 1992, 1% avg. Cotton 47% emerged, 90% 1992, 63% avg. Planting very active. Hay 29% first cutting, 30% 1992, 25% avg. Harvesting rye grass hay, haylage. Peaches 0% harvested, 6% 1992, 2% avg. Rice 1% poor, 92% fair, 7% good. Fertilizing, spraying active. Sorghum 44% emerged, 70% 1992, 62% avg. Soybeans 6% emerged, 17% 1992, 9% avg. Seedbed preparation, planting active. Spring plowing 91% plowed, 97% 1992, 91% avg. Nearing completion. Sweet potatoes 15% planted, 15% 1992, 16% avg. Transplanting active. Wheat 9% very poor, 30% poor, 47% fair, 14% good; 100% headed, 100% 1992, 98% avg.; 52% turning color, 79% 1992, 81% avg.; 0% harvested, 9% 1992, 10% avg. Sugarcane 2% poor, 23% fair, 65% good, 10% excellent. Fieldwork active in all phases. Livestock 2% poor, 18% fair, 73% good, 7% excellent. Pastures 3% very poor, 1% poor, 7% fair, 85% good, 4% excellent. Top dressing pastures continued. Vegetables 6% poor, 43% fair, 48% good, 3% excellent.

**MARYLAND & DELAWARE:** **MARYLAND:** Precipitation 0.71 in. Temperature 68.2°, normal 63.0°. Extremes 31°; 91°.

Days suitable for fieldwork 5.3. Topsoil moisture 85% adequate, 15% surplus. Subsoil moisture 89% adequate, 11% surplus. Small grains fair to mostly good condition, barley headed 92%, 95% 1992, 94% avg.; turning 11%, 6% 1992, 13% avg.; rye 75% headed, 91% 1992, 95% avg.; just starting to turn; wheat headed 53%, 62% 1992, 59% avg.; oats 10% headed, 13%

1992, 8% avg. Spring oat seeding winding down. Light pest problems--powdery mildew, cereal leaf beetle--continue, mostly in wheat. Field corn 59% planted, 73% 1992, 63% avg. Sweet corn 62% planted, 48% 1992, 48% avg. Soybeans planted 8%, 8% 1992, 7% avg. Pasture in mostly excellent condition, some hay cut including alfalfa. Vegetable, melon planting near mid-point to normal. Apple bloom virtually all trees: Strawberries 91% blooming, 84% 1992, 90% avg.; few harvested. Tobacco 6% transplanted, 21% 1992, 15% avg.

**DELAWARE:** Precipitation 0.73 in. Temperature 67.0°, normal 63.3°. Extremes 46°; 87°.

Days suitable for fieldwork 5.83. Topsoil moisture 13% short, 75% adequate, 12% surplus; subsoil moisture 100% adequate. Small grains fair to mostly good condition, light infestation of powdery mildew on wheat. Barley 98% headed, 99% 1992, 97% avg.; 38% turning; rye 54% headed, 87% 1992, 96% avg.; wheat 38% headed, 36% 1992, 71% avg. Corn for grain 69% seeded, 87% 1992, 77% avg. Sweet corn 71% planted, 76% 1992, 61% avg. Potato, green pea planting almost complete. Apples all blooming; strawberries 89% blooming, 91% 1992, 96% avg.; few picked. Pastures, livestock excellent condition, haymaking active.

**MICHIGAN:** Extremes 28°; 92°. Precipitation none to 0.37 in. across the State.

Days suitable for fieldwork 6.5. Soil moisture 5% short, 85% adequate, 10% surplus. Oats 75% planted, 85% 1992, 90% avg. Barley 75% planted, 85% 1992, 85% avg. Potatoes 55% planted, 45% 1992, 55% avg. Sugarbeets 85% planted, 95% 1992, 95% avg. Pasture condition 90% of normal. Major activities: Hauling manure, spraying weeds, spreading fertilizer, tilling, planting.

**MINNESOTA:** Temperatures 1 to 4° above normal for State. Extremes 29°; 90°. Precipitation none to 1.02 in. for State. Greatest weekly precipitation 1.10 in.

Days suitable for fieldwork 3.4. Topsoil 2% very short, 6% short, 48% adequate, 44% surplus. Spring wheat 95% planted, 81% 1992, 93% avg.; 61% emerged, 49% 1992, 72% avg.; 1% jointing, 2% 1992, 1% avg. Oats 83% seeded, 94% 1992, 94% avg.; 55% emerged, 74% 1992, 76% avg.; 1% jointing, 2% 1992, 2% avg. Barley 95% seeded, 73% 1992, 89% avg.; 54% emerged, 38% 1992, 61% avg.; 1% jointing, 1% 1992, 1% avg. Sunflowers 49% planted, 25% 1992, 33% avg. Sugarbeets 95% planted, 92% 1992, 94% avg. Potatoes 60% planted, 46% 1992, 52% avg. Flax 48% planted, 18% 1992, 34% avg. Dry beans 16% planted, 36% 1992, 30% avg. Sweet corn 14% planted, 56% 1992, 43% avg. Green peas 34% planted, 84 1992, 73% avg. Corn 43% ground prepared, 97% 1992, 86% avg.; 34% planted, 91% 1992, 76% avg.; 8% emerged, 40% 1992, 22% avg. Soybeans 21% land prepared, 78% 1992, 59% avg.; 9% planted, 61% 1992, 37% avg.; 1% emerged, 7% 1992, 2% avg.

**MISSISSIPPI:** Temperature 69°, 1.7° below normal. Extremes 36°; 90°. State received 1.00 to 3.00 in. of rainfall. State average 1.82 in., 0.62 above normal. Soil temperatures 72°.

Days suitable for fieldwork 3.4, 6.4 1992, 4.3 avg. Soil moisture 28% adequate, 50% surplus, 22% excessive. Corn 76% planted, 98% 1992, 87 avg.; 60% emerged, 95% 1992, 82% avg.; 12% poor, 60% fair, 27% good, 1% excellent. Cotton 46% planted, 92% 1992, 73% avg.; 21% emerged, 70% 1992, 57% avg.; 45% poor, 29% fair, 26% good. Peanuts 18% planted, 48% 1992, 47% avg. Rice 36% planted, 98% 1992, 78% avg.; 23% emerged, 80% 1992, 57% avg.; 7% poor, 74% fair, 19% good. Sorghum 45% planted, 84% 1992, 66% avg.; 33% emerged, 74% 1992, 56% avg.; 37% poor, 34% fair, 29% good. Soybeans 5% planted, 26% 1992, 17% avg.; 3% emerged, 16% 1992, 10% avg. Sweet potatoes 10% planted, 36% 1992, 36% avg. Watermelons 72% planted, 84% 1992, 84% avg.; 11% very poor, 11% poor, 33% fair, 45% good. Wheat 91% heading, 100% 1992, 100% avg.; 10% mature, 26% 1992, 30% avg.; 13% poor, 23% fair, 64%

good. Hay 15% harvested, 36% 1992, 21% avg. Peaches 2% harvested, 10% 1992, 3% avg.; 2% very poor, 16% poor, 26% fair, 56% good. Livestock 6% fair, 91% good, 3% excellent. Pasture 94% of normal. Activities: Planting cotton, shop work.

**MISSOURI:** Temperatures near normal. Rainfall 0.84 in., varying from 0.52 in. in the southwestern district to over 1.00 in. east central, southeastern districts. Rivers remain high.

Days suitable for fieldwork 1.2. Topsoil moisture 17% adequate, 83% surplus. Progress of tillage, planting sharply limited except southeastern district. Corn planting by area varies from 2% north central, northeastern district to 69% southeast. Soybean, sorghum planting generally limited to southeastern district. Ground worked once for spring crops 44%, 92% 1992, 89% avg. Wheat heading 10 days behind avg., not begun northern districts. Alfalfa first cutting 2%, 17% 1992, 19% avg. Pastures 1% poor, 24% fair, 53% good, 22% excellent.

**MONTANA:** Temperatures well above normal for week, 8 to 13° above normal in the northeast, north central. Precipitation varied across the State with most areas receiving below normal amounts.

Days suitable for fieldwork 6.3. Topsoil moisture 24% short, 64% adequate, 12% surplus. Subsoil moisture 26% short, 73% adequate, 1% surplus. Spring wheat 1% poor, 19% fair, 68% good, 12% excellent. Barley planted 80%, 95% 1992, 87% avg.; emerged 35%, 72% 1992, 57% avg. Oats planted 82%, 95% 1992, 85% avg.; emerged 41%, 67% 1992, 48% avg. Sugarbeets planted 94%, 99% 1992, 99% avg.; emerged 63%, 65% 1992, N.A. avg. Corn planted 58%, 71% 1992, 57% avg.; emerged 12%, 37% 1992, N.A. avg. Dry beans planted 62%, 51% 1992, 35% avg.; emerged 10%, 23% 1992, N.A. avg. Potatoes planted 14%, 62% 1992, 34% avg.; emerged 2%, 3% 1992, N.A. avg. Pasture, range feed condition is rated at 89% of normal. Movement of cattle, calves to summer ranges 46%, sheep, lambs 44%.

**NEBRASKA:** Temperatures 1 to 4° above normal. Scattered precipitation throughout week varied from less than 0.10 in. west to over 2.00 in. east.

Days suitable for fieldwork 2.4. Topsoil moisture 3% short, 42% adequate, 55% surplus. Subsoil moisture 2% short, 62% adequate, 36% surplus. Winter wheat condition 22% fair, 64% good, 14% excellent; 73% jointed, 95% 1992, 86% avg. Corn 36% planted, 92% 1992, 85% avg.; 8% emerged, 51% 1992, 39% avg. Sorghum 1% planted, 32% 1992, 22% avg. Soybeans 1% planted, 37% 1992, 27% avg. Alfalfa 4% fair, 68% good, 28% excellent. Wild hay condition 11% fair, 83% good, 6% excellent. Pasture, range condition 98% of normal.

**NEVADA:** Week began warm, sunny. As week progressed low pressure system caused gusty winds throughout State, cooler temperatures. Few showers, thunderstorms eastern areas midweek, extended into southern areas by end of period.

Planting spring grains, potatoes nearing completion. Condition all crops generally good. Irrigation water supplies generally adequate. Calving, lambing, shearing about complete. Livestock good condition, movement continues to spring, summer ranges.

**NEW ENGLAND:** Precipitation 0.11 to 1.47 in. north; none to 0.16 in. south. Temperatures 47 to 54° Maine; 56 to 65° rest of region. High temperatures 67 to 87° Maine; 79 to 94° rest of region. Minimum temperatures 22° Worcester, MA; 27 to 48° rest of region.

Days suitable for fieldwork 6.5. Soil moisture 16% short, 74% adequate, 10% surplus. Available grazing 19% short, 69% adequate, 12% surplus. Fieldwork progress 5 days behind

schedule southern States; on schedule northern States. Maine potatoes 5% planted, 25% 1992, 25% avg.; condition good. Connecticut River Valley potatoes 70% planted, 60% 1992, 60% avg.; condition good. Rhode Island potatoes 50% planted, 45% 1992, 60% avg.; condition good. Maine oats 20% planted, 25% 1992, 40% avg. Field corn 25% planted, 25% 1992, 25% avg.; condition good. Sweet corn 35% planted, 30% 1992, 30% avg.; condition fair. Hay in good condition. Apple, pears, peaches full bloom. Strawberries bud stage New Hampshire; early bloom southern States. Blueberries bud stage north to full bloom south. Massachusetts cranberries bud stage. Major farm activities: Plowing, fertilizing, spreading manure on fields. Seeding potatoes, field corn, sweet corn has begun. Oil sprays applied to fruit trees. Harvesting asparagus. Initial signs of insects appearing.

**NEW JERSEY:** Temperatures above normal. Extremes 37°; 92°. Rainfall 0.12 in. north, 0.27 in. central, 1.13 in. south. Heaviest 24 hour total 1.05 in. on 16th, 17th. Estimated soil moisture, in percent field capacity, averaged 69% north, 64% central, 67% south. Four inch soil temperatures averaged 63° north, 63° central, 66° south.

Field preparation, planting still very active. Ground preparation remains behind due to excessive topsoil moisture, rains. Topsoil moisture supply adequate. Harvest of spring vegetables continues. Planting of spring cabbage, snap beans, potatoes, sweet corn continues. Asparagus, lettuce (Boston, Bibb, Leaf), parsley, leeks, radishes, spinach, greens of all types available in good supply. Green onions and beets in moderate supply. Peach set good. Apples and blueberries in bloom. Fruit condition good and no apparent frost damage reported.

**NEW MEXICO:** Temperatures about 3° above normal over the west, near normal in the east. Extremes 22°; 96°. Precipitation most widespread in the north central mountains, northeast plains. No reports of over 0.50 in. for the week.

Days suitable for fieldwork 6.7. Soil moisture 73% short, 27% adequate. Light to moderate wind damage mostly affecting emerging crops. Crop conditions: Alfalfa 7% poor, 34% fair, 59% good; first cutting 67% complete. Cotton 4% poor, 46% fair, 50% good. Irrigated wheat 5% poor, 27% fair, 68% good. Dryland wheat 15% very poor, 31% poor, 39% fair, 15% good. Wheat crop 98% headed. Chile 46% fair, 45% good, 9% excellent. Onions 10% poor, 21% fair, 61% good, 8% excellent. Lettuce mostly good with harvest about midpoint. Cattle, sheep fair to good. Range, pasture 74% of normal.

**NEW YORK:** Started quite warm with highs in the 80s, turned cooler at midweek with highs in the 60s, returned to seasonal normals at end of week with highs in the 70s. Extremes 26°; 92°. It was a dry week; most areas received less than 0.25 in. of rain. Isolated spots received 0.50 to 0.75 in. On the 12th, thunderstorm winds reaching 100 mph damaged silos in Washington County. A tornado destroyed a barn in Oneida County on the 15th.

Days suitable for fieldwork 6.5. Soil moisture mostly adequate. Pasture condition 91% of normal. Hay in fair to good condition. Wheat mostly good condition. Corn planting 28% complete, 16% 1992, 24% avg. Oats 49% planted, 54% 1992, 56% avg. Potato planting advanced to 23% finished. Conditions excellent in Lake Ontario region for planting trees, applying insecticides, fungicides. Pears in full bloom, Frost damage to tart cherries, limited to sites west of Rochester. Hudson Valley fruit developing rapidly. Apples, peaches show good fruit set. All tree fruits progressed to or beyond petal fall stage in this region. Oswego onion planting finished. Lettuce, sweet corn planting gained momentum. Cabbage planting underway. Orange County onion planting near complete. Earliest plantings in three leaf stage. Strawberries in good condition. Spinach planting in full swing. Needed rainfall received many areas at weekend.

**NORTH CAROLINA:** Temperatures near normal to 6° above normal. Lowest temperatures were reported along the Outer Banks, the highest in the Piedmont, Sandhills. Precipitation 2.15 in. Mount Airy to no rain at Badin, High Rock.

Days suitable for fieldwork 5.7. Soil moisture 17% short, 80% adequate, 3% surplus. Crop condition: Pasture 2% poor, 12% fair, 75% good, 11% excellent; winter wheat 29% fair, 68% good, 3% excellent; oats 27% fair, 73% good; barley 27% fair, 71% good, 2% excellent; rye 29% fair, 69% good, 2% excellent; tobacco plant beds 5% poor, 46% fair, 47% good, 2% excellent; field tobacco 2% poor, 28% fair, 69% good, 1% excellent; Irish potatoes 6% poor, 15% fair, 79% good; corn 27% fair, 72% good, 1% excellent; hay 1% poor, 17% fair, 73% good, 9% excellent; peaches 4% poor, 11% fair, 78% good, 7% excellent; truck crops 36% fair, 62% good, 2% excellent; hay, roughage supplies 4% short, 89% adequate, 7% surplus. Tobacco plant bed supply 3% very short, 30% short, 61% adequate, 6% surplus; corn planted 93%, 93% 1992, 89% avg. Flue-cured tobacco transplanted 78%, 90% 1992, 77% avg.; cotton planted 70%, 60% 1992, 63% avg.; peanuts planted 65%, 43% 1992, 45% avg.; sorghum planted 29%, 38% 1992, 35% avg.; soybeans planted 19%, 15% 1992, 16% avg.; sweet potatoes transplanted 17%, 27% 1992, 20% avg. Burley tobacco transplanted 5%, 9% 1992, 10% avg. Major activities: Transplanting tobacco plants; planting corn; cutting hay. Other activities: Planting peanuts, cotton, soybeans; land preparation; tending livestock; general farm maintenance.

**NORTH DAKOTA:** Warm high pressure covered the State through midweek. A cold front system moved through late in the week. Temperatures 5 to 6° above normal for the week. Extremes 25° northwest; 90° northeast, northwest. Precipitation none in northwest to 1.02 in. northeast.

Days suitable for fieldwork 6.7. Topsoil 4% very short, 12% short, 82% adequate, 2% surplus. Subsoil 11% very short, 38% short, 49% adequate, 2% surplus. Small grains planting progress moved slightly ahead of last year. Hard red spring wheat 87% planted, 47% emerged and beyond; 85%, 58% 1992; 86%, 54% avg.; durum wheat 71% planted, 25% emerged and beyond; 67%, 28% 1992; 71%, 30% avg.; barley 90% planted, 48% emerged and beyond; 83%, 53% 1992, 86%, 54% avg.; oats 85% planted, 46% emerged and beyond; 85%, 60% 1992, 82%, 49% avg. Winter wheat 17% jointing and beyond; condition none very poor or poor, 23% fair, 77% good, none excellent. Sugarbeets 99% planted, 91% 1992, 96% avg.; corn 44%, 62% 1992, 45% avg; flax 40%, 32% 1992, 27% avg.; potatoes 45%, 32% 1992, 40% avg.; soybeans 35%, 36% 1992, 22% avg.; dry beans 15%; 14% 1992, 10% avg.; sunflower 9%, 8% 1992, 8% avg. Post-emerged herbicide application for broadleaf control 5% complete, wild oats 9%. Roughage requirements furnished by pastures 70%; pasture condition 79% of normal. Stockwater supplies 1% very short, 5% short, 92% adequate, 2% surplus.

**OHIO:** Temperatures soared to midsummer heights early in the week before a cold front brought cooler weather after midweek. Week was fairly dry with most of the precipitation coming 12th with the passage of the cold front. Some widely scattered storms also developed 16th. Thanks to high temperatures in the 80s or lower 90s 10th to 11th, weekly temperatures 1 to 6° above normal. Highs were in the middle to upper 70s with average lows mostly in the middle 40s to lower 50s. Cool Canadian air 14th, over the weekend dropped temperatures to lows in the middle 30s to middle 40s. Rainfall for the week was quite variable in coverage, in amount. Northern areas were the driest with rainfall generally under 0.20 in. More common amounts were 0.25 to 0.60 in.; however, some of southwest areas received over 1.00 in. Rainfall has been below normal over much of State the past 2 to 4 weeks.

Days suitable for fieldwork 5.8. Topsoil moisture 7% short, 71% adequate, 22% surplus. Oats planted 93%, 1992 98%, 96% avg. Oats emerged 60%, 1992 82%, 80% avg. Potatoes planted 65%, processing tomatoes planted 40%, sugarbeets planted 90%. Pasture 1% very poor, 3% poor, 25% fair, 58% good, 13% excellent. Hay 4% poor, 25% fair, 59% good, 12% excellent. Apple trees are in full bloom, but growers are concerned by the lack of bees. Other farmer concerns included alfalfa weevil, weeds. Planting activity was progressing rapidly.

**OKLAHOMA:** Temperatures 4° below normal southeast to 1° below normal Panhandle. Precipitation 0.14 in. southwest to 0.93 in. northeast.

Days suitable for fieldwork 2.8. Topsoil moisture 20% adequate, 80% surplus. Subsoil moisture 100% adequate. Wheat 1% poor, 20% fair, 79% good; 76% heading, 100% 1992, 91% avg.; 2% soft dough, 53% 1992, 26% avg. Oats 75% jointing, 100% 1992, 100% avg.; 50% heading, 79% 1992, 73% avg. Barley 70% jointing, 100% 1992, 100% avg.; 50% heading, 83% 1992, 59% avg. Corn 96% planted, 99% 1992, 93% avg.; 80% up-to stand, 80% 1992, 71% avg. Sorghum 45% seedbed prepared, 70% 1992, 70% avg.; 8% planted, 22% 1992, 9% avg.; 2% up-to-stand, 7% 1992, 4% avg. Soybeans 49% seedbed prepared, 80% 1992, 76% avg.; 19% planted, 19% 1992, 25% avg.; 8% up-to-stand, 3% 1992, 5% avg. Peanuts 71% seedbed prepared, 90% 1992, 77% avg.; 12% planted, 40% 1992, 17% avg.; 1% up-to-stand, 11% 1992, 2% avg. Cotton 77% seedbed prepared, 92% 1992, 84% avg.; 14% planted, 36% 1992, 15% avg.; 6% up-to-stand, 24% 1992, 7% avg. Alfalfa 19% 1st cut, 55% 1992, 51% avg. Pastures 97% of normal. Livestock 19% fair, 81% good. Prices for feeder steers, heifers steady to higher. Marketings average.

**OREGON:** Temperatures above normal statewide. Northeast, north central, south central 10° above normal; elsewhere 4 to 5° above normal. Precipitation 0.02 in. western areas, eastern areas a trace. Thunderstorms, light wind, hail, statewide.

Soil moisture 1% short, 88% adequate, 11% surplus. Winter wheat 2% poor, 4% fair, 67% good, 27% excellent; headed 2%. Barley planted 85%. Dry, warm weather help dry out fields, accelerate crop development, fieldwork. Sugarbeets 75% planted; 25% emerged Klamath Basin. First crop alfalfa cut in many areas. Onion planting continues, Willamette Valley; complete elsewhere. Potato planting 30% complete Klamath Basin, nearing complete Malheur County. Pears full bloom, mid to upper Hood River Valley. Apples in full bloom Hood River Valley. Cherries dropping shucks. Willamette Valley stone fruit prospects below normal, poor pollination conditions. Aphids problems in Hazelnuts. Cranberry development at hook stage in Stevens beds, roughneck stage in McFarlin beds. Livestock good to excellent. Livestock producers completing branding, moving, working stock. Range, pasture condition 99% of normal.

**PENNSYLVANIA:** Hot, dry beginning of week, cool end of week. Precipitation well below normal. Temperature 69°, much above normal. Extremes 30°; 92°. Precipitation 0.17 in., 0.65 in. below normal.

Days suitable for fieldwork 6. Soil moisture 12% short, 75% adequate, 13% surplus. Plowing 69% complete, 79% 1992, 82% avg. Corn 40% planted, 38% 1992, 40% avg. Soybeans 7% planted, 10% 1992; 9% avg. Oats 81% planted, 86% 1992, 89% avg. Potatoes 51% planted, 53% 1992, 63% avg. Barley 57% boot, 53% 1992, 61% avg.; 28% heading or headed, 28% 1992, 36% avg. Wheat 38% boot, 37% 1992, 39% avg.; 2% heading or headed, 6% 1992, 7% avg.; 2% very poor, 4% poor, 20% fair, 55% good, 19% excellent. Oats crop condition 1% very poor, 8% poor, 27% fair, 52% good, 12% excellent. Hay stands mostly fair to good. Alfalfa first cutting 2% complete, 1% 1992, 2% avg. Feed from pastures good to excellent. Peaches 98% pink, 91% 1992, 91% avg.; 90% full bloom or past, 79% 1992, 81% avg. Cherries

99% pink, 91% 1992, 91% avg.; 95% full bloom or past, 75% 1992, 81% avg. Apples 93% pink, 74% 1992, 84% avg.; 81% full bloom or past, 55% 1992, 67% avg. Activities: Hauling manure; plowing, seedbed preparation; planting of oats, corn, soybeans, potatoes; first alfalfa cutting started; fixing fence; caring for livestock.

**PUERTO RICO:** Island rainfall of 1.54 in. was 0.01 in. below normal. Highest weekly totals 5.14 in. at Pico Del Este and 3.91 in. at Negro Corozal. Highest 24 hour total 2.30 in. at Pico Del Este on 9th. Island temperatures 78° on Coasts, 73 to 75° in the Interior with mean station temperature 80.7° at Roosevelt roads to 64.2° at Pico Del Este--Luquillo. Extremes 59°; 94°.

**SOUTH CAROLINA:** Temperatures across the State 1 to 3° above normal. Average precipitation 0.50 in.

Days suitable for fieldwork 5.7. Soil moisture 7% very short, 52% short, 41% adequate. Corn fair to good. Tobacco fair to good; 98% planted, 100% 1992, 99% avg. Cantaloupes fair to good; 87% planted, 86% 1992, 83% avg. Watermelons fair to good; 88% planted, 89% 1992, 88% avg. Cucumbers fair to good; 88% planted, 87% 1992, 86% avg. Snapbeans good; 78% planted, 72% 1992, 72% avg. Tomatoes good. Oats fair to good; 93% headed, 95% 1992, 97% avg.; 39% turning color, 43% 1992, 50% avg. Rye fair to good; 41% turning color, 53% 1992, 54% avg. Wheat fair to good; 92% headed, 96% 1992, 98% avg. Grain Hay fair to good; 57% harvested, 48% 1992, 52% avg. Peaches fair to good. Pastures fair to good.

**SOUTH DAKOTA:** Temperatures near normal to slightly above normal. Extremes 22°; 88°. Precipitation was light, spotty with amounts 0.20 to a few one hundredths. Maximum 0.24 in.

Days suitable for fieldwork 3.2. Topsoil moisture 6% short, 57% adequate, 37% surplus. Subsoil moisture 7% short, 61% adequate, 32% surplus. Rye 3% very poor, 8% fair, 63% good, 26% excellent. Barley 83% planted, 100% 1992, 97% avg. Oats 75% planted, 100% 1992, 98% avg. Flax 29% planted, 69% 1992, 55% avg. Sunflowers 1% planted, 17% 1992, 6% avg. Field conditions varied greatly across the State as in some areas the fields are dry enough to work while in other areas there are many wet spots to work around while in other areas the ground is to wet to get into the field at all. Livestock: 1% very poor, 2% fair, 81% good, 16% excellent. Lambing was 93% complete, calving was 91% complete. Pasture conditions 93% of normal.

**TENNESSEE:** Temperatures near normal. Rainfall was above normal in middle, west, below normal in east. Extremes 45°; 86°. Memphis, Nashville both received 1.99 in. of rain. Bristol received the lowest amount with only 0.15 in. recorded.

Days suitable for fieldwork 3.7. Soil moisture 6% short, 67% adequate, 27% surplus. Corn 81% planted, 93% 1992, 75% avg. Cotton 42% planted, 87% 1992, 65% avg. Sorghum 19% planted, 68% 1992, 39% avg. Soybeans 3% planted, 15% 1992, 10% avg. Tobacco 16% transplanted, 31% 1992, 19% avg. Wheat 89% headed, 97% 1992, 96% avg.; 1% poor, 9% fair, 82% good, 9% excellent. Alfalfa 23% 1st cutting harvested, 37% 1992, 42% avg. Pastures 5% fair, 75% good, 20% excellent. Hay 1% poor, 16% fair, 76% good, 7% excellent. Cattle 1% poor, 3% fair, 87% good, 9% excellent. Hay harvest was very active. Cotton, corn planting is just about wrapped up in many locations. Farmers are waiting for low-lying fields to dry out, before more planting takes place. Tobacco transplanting is just beginning. Greenhouse-produced plants have been the only tobacco set out.

**TEXAS:** North to northwest flow aloft kept State dry, cool through week. By weekend, pattern changed to a more west to

southwest flow helping produce some rainfall mainly in West Texas. Temperatures for week were near or below normal all districts. Rainfall also below normal in all districts. Precipitation: no rainfall in southern, Southeast Texas to near one-quarter of an inch in the Northern Plains.

**Crops:** Corn planting winding down High Plains, Blacklands producers were cultivating, adding needed fertilizer. Corn tasseling taking place Coastal Bend, southern parts Central Texas. Statewide corn condition was rated at 81% normal, 88% 1992. Sorghum planting winding down Blacklands; where some fields showed signs of green bug activity. Central Texas, Yellow Aphids continued to be a problem some fields. Early sorghum beginning to head, Coastal Bend. Statewide sorghum condition was rated at 79% normal, 86% 1992. Cotton planting full swing in High Plains where soil moisture adequate. Some emerged plants were damaged by blowing sand from high winds. Blacklands producers were planting, where soil conditions allowed. Some replanting taking place Upper Coast where fields were damaged from hail, standing water. Rice planting continued along Upper Coast. Permanent flooding has begun. Soybean planting continued Upper Coast, wet soil conditions continued to hamper planting activity. Small grains across State got another shot of moisture, but High Plains dryland wheat still in need of rain. Wild oats still problem some fields on Low Plains. Rust was becoming more extensive Blacklands, where grain harvesting will soon be full swing. Harvesting was underway South Central Texas. Statewide wheat 75% normal, 82% 1992. Peanut planting under way Low Plains. Pre-emergence herbicide applications continued Cross Timbers, planting winding down South Texas.

**Commercial Vegetables:** Rio Grande Valley, watermelon harvesting continued, yields continued to improve. San Antonio-Winter Garden, vegetables showed good progress. Watermelons blooming, setting good crop. Tomatoes blooming, squash being harvested. Cabbage harvest continued, while lettuce harvest winding down. East Texas, sweet potatoes being transplanted to fields. Some Spider Mites showed up some tomato fields. Some harvesting of onions, potatoes taking place. Strawberries still good supply, high demand. Disease problems showing up due wet weather some areas. High Plains, irrigation of onions continued, Thrips still problem for some producers. Cabbage progressing well. Some fields experienced damage from high winds. Trans-Pecos, onion harvesting continued. Cabbage harvesting had begun. Peppers were thinned. Cantaloupes, watermelons made good progress. Peach harvesting early varieties underway Upper Coast. Leaf curl continued to be problem some orchards Cross Timbers, Low Plains. Producers Edwards Plateau expecting good crop; East Texas producers pessimistic about the crop due earlier freezes. Pecan crop looked good Edwards Plateau, Central Texas, where producers were spraying zinc, for scab, pecan nut casebearers. Trans-Pecos, Yellow Aphid populations building up some orchards. Black Aphids also present, only small numbers.

**Range and Livestock:** Hay baling activities increasing. Movement of livestock to grass pastures increased. Edwards Plateau, some cattle losses occurred from Peavine Toxicity. Horn fly population building in Blacklands. Spraying for pasture weed control active most areas of State. Wheat grazing coming to end in High, Low Plains. Livestock conditions good all areas of the State.

**UTAH:** Temperature maximums 2.0° above normal, minimums 0.5° above normal. Precipitation was moderate in north central, northern mountains. Remainder of the State received light precipitation.

Days suitable for fieldwork 6.1. Soil moisture 6% short, 91% adequate, 3% surplus. Winter wheat 61% good, 29% fair, 10% poor. Fall barley 48% good, 31% fair, 21% poor. Winter wheat jointed or better 56%, 88% 1992, 60% avg. Spring wheat emerged 80%, 100% 1992; jointed or better 9%, 52% 1992, 42% avg. Barley emerged 82%, 100% 1992, 95% avg.; jointed or better

14%, 57% 1992, 33% avg. Oats planted 82%; emerged 46%, 88% 1992, 79% avg. Corn planted 59%, 86% 1992, 69% avg.; emerged 7%. Alfalfa hay height 12.1 inches, 16.7 inches 1992, 13.7 inches avg. Cattle moved to spring range 29%, 39% 1992. Sheep moved to spring range 20%, 26% 1992. Pasture, range condition good to excellent.

**VIRGINIA:** Temperatures 5 to 6° above normal. Extreme high 92°. Precipitation 0.10 to 2.51 in.

Days suitable for fieldwork 4.6. Topsoil moisture was 6% short, 85% adequate, 9% surplus. Pasture 19% fair, 64% good, 17% excellent. Alfalfa condition 12% fair, 68% good, 20% excellent. Other hay condition 4% poor, 12% fair, 67% good, 17% excellent. Wheat 4% poor, 46% fair, 43% good, 7% excellent. Barley 1% poor, 37% fair, 52% good, 10% excellent. Peach 19% fair, 62% good, 19% excellent. Apple 12% fair, 59% good, 29% excellent. Potato 9% poor, 46% fair, 45% good. Corn 71% planted, 80% 1992, 73% avg. Corn condition 1% very poor, 2% poor, 34% fair, 63% good. Peanuts 80% planted, 90% 1992, 83% avg. Soybeans 13% planted, 12% 1992, 13% avg. Cotton 91% planted, 90% 1992, 85% avg. Flue tobacco 53% transplanted, 67% 1992, 60% avg. Burley tobacco 5% transplanted, 5% 1992, 8% avg. Dark-fired tobacco 10% transplanted, 40% 1992, 36% avg. Liming, fertilizing land, applying pesticides, spraying fruit trees, planting snapbeans, cucumbers, cutting hay, picking strawberries.

**WASHINGTON:** Temperatures 1° above normal to 7° above normal west; 1° above normal to 11° above normal east. Precipitation 0.17 to 0.58 in. west; none to 0.25 in. east.

Days suitable for fieldwork 6.1. Soil moisture 23% short, 74% adequate, 3% surplus. Irrigation water supply 16% short, 84% adequate. Hay, other roughage 3% very short, 63% short, 34% adequate. Range, pasture 10% fair, 90% good. Winter wheat dryland 5% fair, 90% good, 5% excellent; irrigated 100% good. Spring wheat dryland 15% fair, 85% good; irrigated 100% good. Barley dryland 25% fair, 75% good; irrigated 100% good. Long awaited warm, dry weather finally arrived. Spring grain seeding proceeded rapidly with many producers working day, night. First cutting of alfalfa began in a few areas. Losses are expected in many vegetable crops due to the late planting season. Fruit thinning was slowed due to the hot weather. Ranges, pastures began to dry, grow with the warmer weather. Green chopping was underway. Spring pastures were being utilized more as they dried out.

**WEST VIRGINIA:** Temperature 64°. Extremes 36°, 92°. Precipitation 0.95 in.

Days suitable for fieldwork 4.6. Soil moisture, 10% short, 90% adequate. Soil prepared, 73%. Wheat, mostly good. Barley, good. Oats good; 90% planted; 77% emerged. Corn 56% planted; 15% emerged. Soybeans 15% planted; 5% emerged. Hay 9% poor, 44% fair, 47% good. Apples good. Peaches good. Tobacco beds 66% fair, 34% good. Pastures 7% poor, 22% fair, 71% good; 86% of normal. Cattle 2% fair, 98% good. Sheep 1% fair, 99% good. Gardens 56% planted, 35% emerged. Farm activities: planting corn, oats, gardens, soybeans, preparing soil.

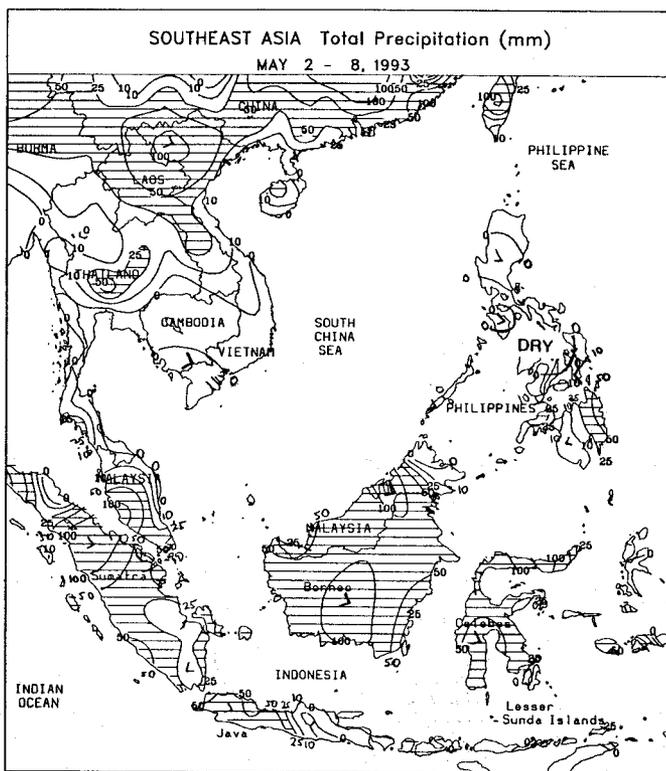
**WISCONSIN:** Temperature 59°; 4° above normal. Extremes 20°; 89°. Precipitation a trace to 0.70 in.

Days suitable for fieldwork 5.6. Intended spring tillage 45% complete. Soil moisture 42% adequate, 58% surplus. Pasture condition 83% of normal, 78% 1992, 77% avg. General condition of crops 2% very poor, 10% poor, 29% fair, 47% good, 12% excellent. Oats condition 2% very poor, 8% poor, 29% fair, 48% good, 13% excellent; 50% planted, 90% 1992, 91% avg. Corn 21% planted, 65% 1992, 60% avg. Winter wheat 3% poor, 23% fair, 63% good; 11% severe damage.

**WYOMING:** Temperatures normal to slightly above normal. Some areas were as much as 5° above normal. Precipitation fell over most of the State, but amounts were below normal in most places. A few areas in the northeast had above normal precipitation.

Days suitable for fieldwork 5.6. Topsoil 17% short, 75% adequate, 8% surplus. Subsoil 14% short, 75% adequate, 1% surplus. Spring wheat 79% planted, 98% 1992, 89% avg., 31% emerged, 80% 1992, 60% avg. Oats 75% planted, 92% 1992, 83% avg.; 28% emerged, 61% 1992, 50% avg. Barley 80% planted, 96% 1992, 91% avg.; 63% emerged, 75% 1992, 74% avg. Sugarbeets 99% planted, 100% 1992, 100% avg.; 40% emerged, 59% 1992, 52% avg. Corn 55% planted, 74% 1992, 57% avg.; 2% emerged, 19% 1992, 13% avg. Potatoes 82% planted, 63% 1992, 47% avg.; 2% emerged, 42% 1992, 24% avg. Winter wheat 1% fair, 99% good. Barley 1% fair, 87% good, 12% excellent. Alfalfa 89% good, 11% excellent. Range flock ewes lambing 68%. Range flock sheep shorn 90%. Lamb death losses 9% light, 80% normal, 11% heavy. Percent of cattle, calves moved to summer ranges 29%. Percent of sheep, lambs moved to summer ranges 18%. Rate of hay, range grass growth 41% slow, 55% average, 4% above average.

**ERRATA:** As we inadvertently replaced the Southeast Asia rainfall map with the South Asia map in last week's issue, we are including it here for your information.



## International Weather and Crop Summary HIGHLIGHTS

May 9 - 15, 1993

**FSU:** Continued warm, dry weather in Baltic States, Belarus, Ukraine, and western areas in Russia favored rapid spring crop planting, but reduced topsoil moisture. Spring grain planting began in Kazakhstan and Siberia.

**EUROPE:** Unfavorably warm, dry weather accelerated spring growth in the northeast. Widespread rain helped crop development in the west.

**NORTHWESTERN AFRICA:** Dry weather benefited early winter grain harvesting in Morocco. Wet weather slowed harvests in Algeria and Tunisia.

**SOUTH AFRICA:** Light rain benefited establishment of winter wheat.

**SOUTH ASIA:** Hot weather in the northwest further stressed cotton and livestock. Showers increased moisture for rice planting in the east and southwest.

**EASTERN ASIA:** Plentiful rains covered China, especially favoring heading wheat in the North China Plain.

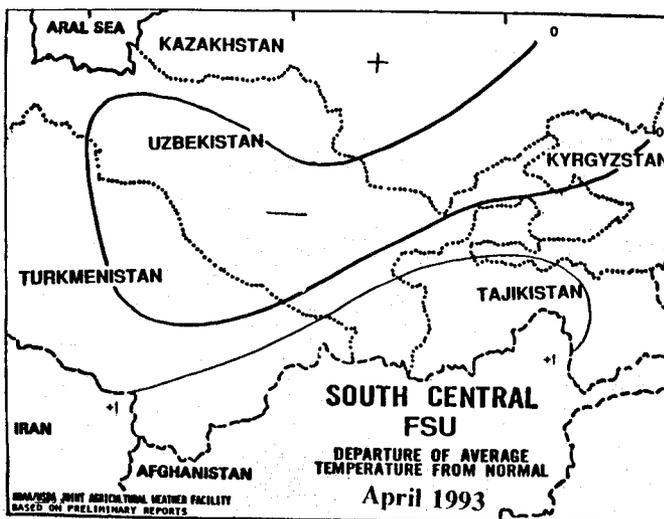
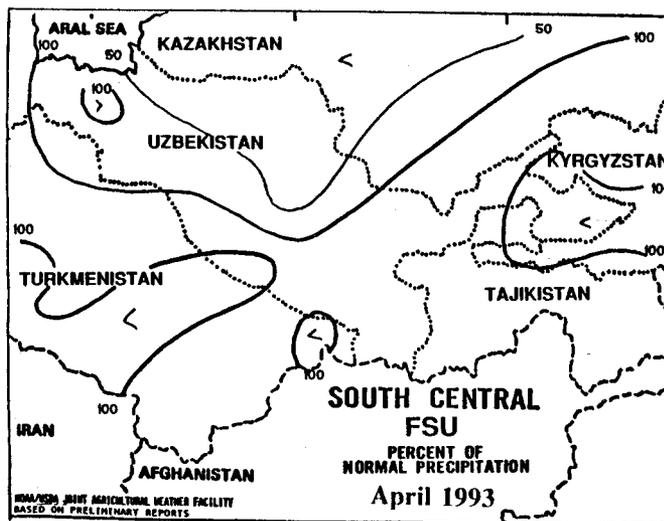
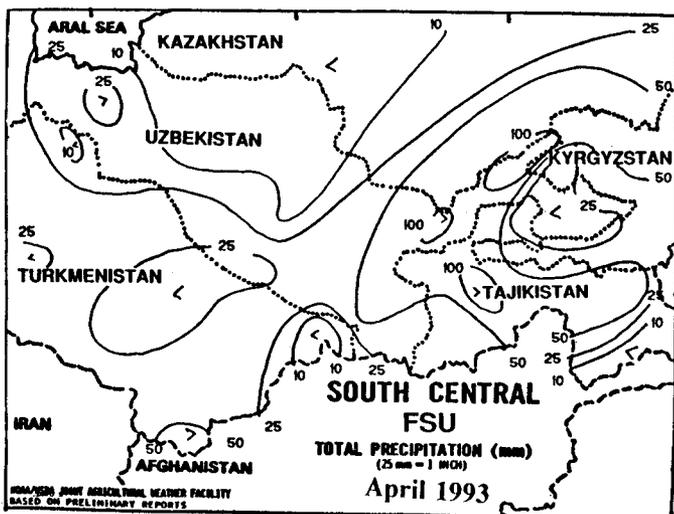
**SOUTHEAST ASIA:** Widespread rain benefited Thailand's rainfed rice and corn.

**AUSTRALIA:** Beneficial rain aided topsoils for winter wheat planting and pasture growth across eastern Australia.

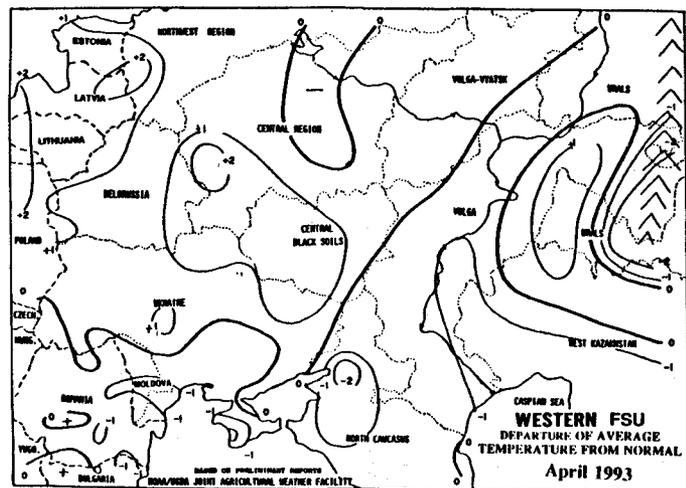
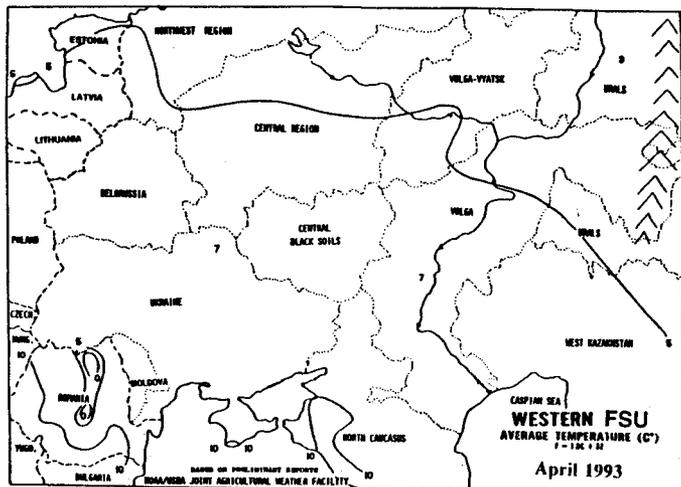
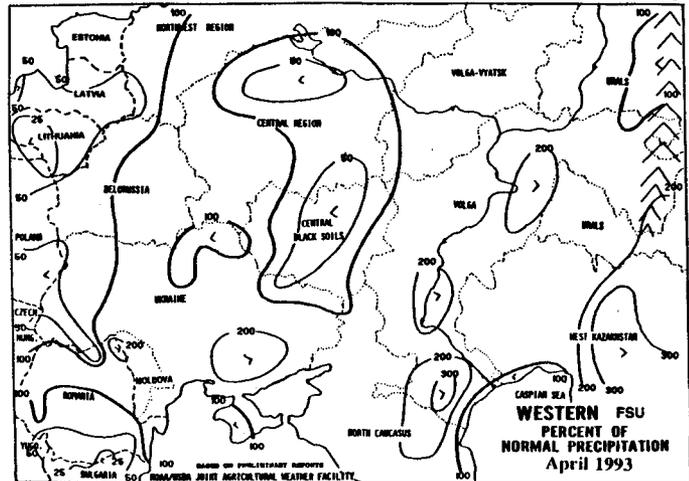
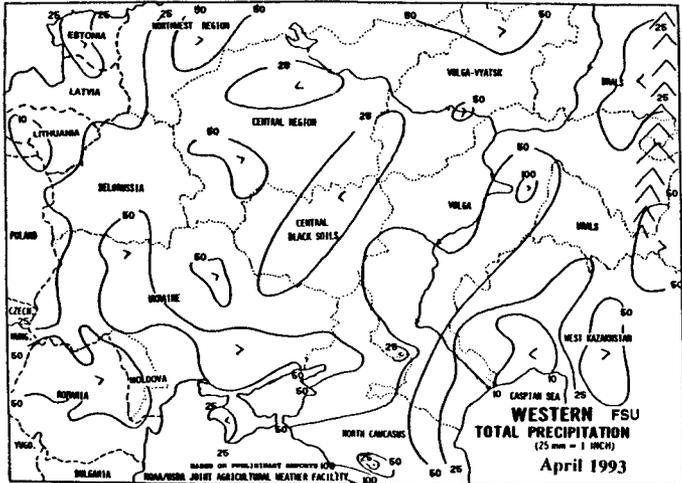
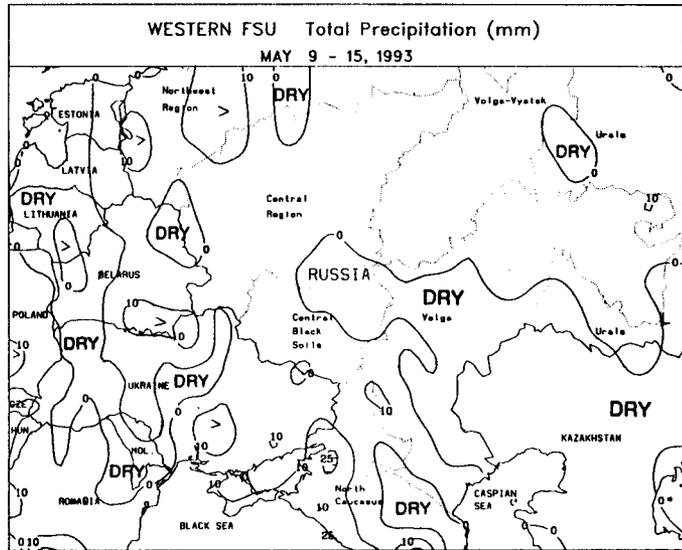
**CANADA:** Rain in Manitoba increased topsoil moisture for spring grain and oilseed germination.

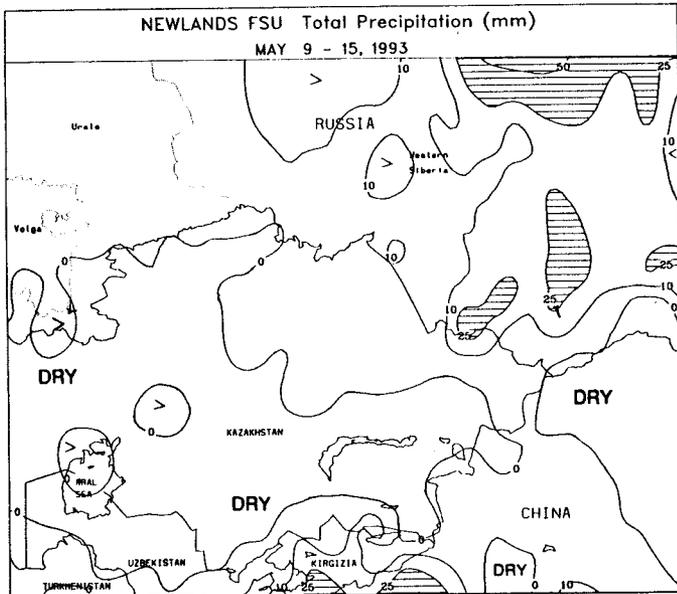
**MEXICO:** Adequate irrigation supplies exist in the northwest and central crop areas.

**SOUTH AMERICA:** Much-needed drier weather encompassed central Argentina, allowing summer crop harvesting to progress. Heavy showers delayed soybean harvesting in extreme southern Brazil.

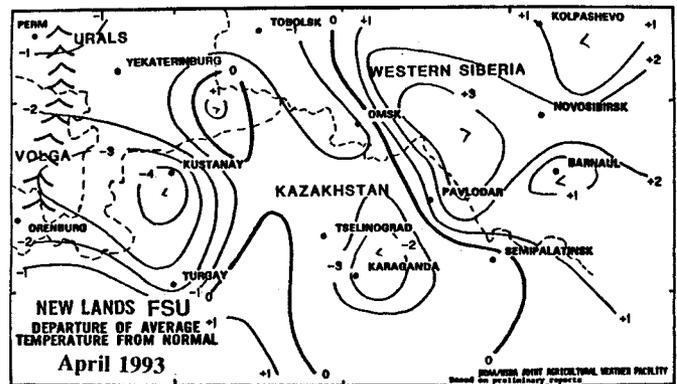
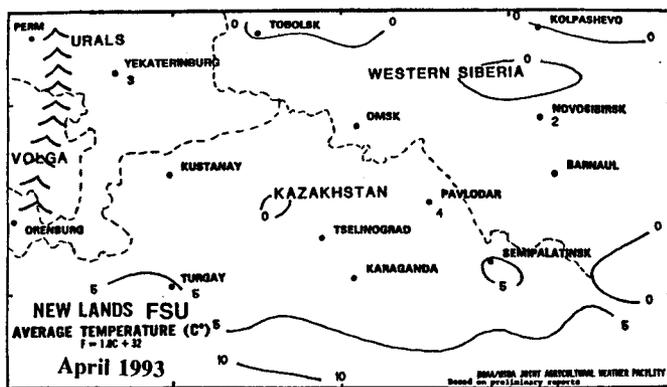
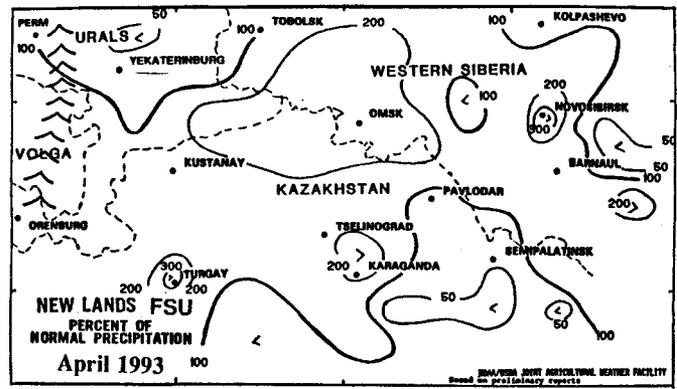
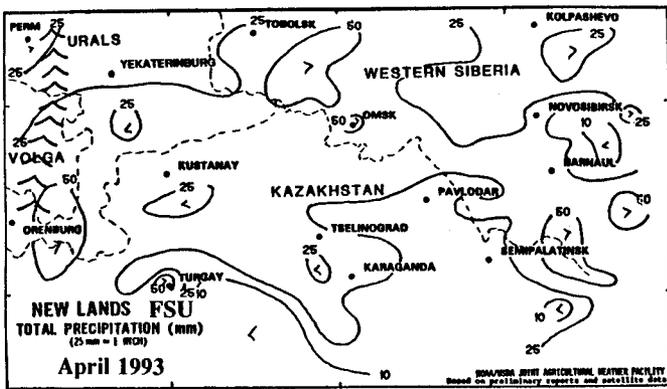


**FSU-WESTERN:** Unseasonably warm weather prevailed over most of the region. Weekly average temperatures in most areas ranged from 2 to 5 degrees Celsius (C) above normal, accelerating crop growth. The exceptions were crop areas in southern Ukraine and North Caucasus, where weekly temperatures averaged 1-2 degrees C below normal. Little if any precipitation (generally less than 5 mm) fell over most areas, except for scattered local amounts (10-34 mm). While the combination of warm, dry weather for the past 3 weeks favored rapid spring crop planting, it reduced topsoil moisture. Widespread rain is needed for spring crop emergence and establishment. Subsoil moisture was adequate for winter grains in the jointing stage. In April, unseasonably warm, dry weather prevailed during the first week, but a period of wet, cold weather occurred from April 7 to April 23. The cold weather delayed winter grain greening in the north, and slowed vegetative growth in the south. Although the cold, wet weather halted spring grain planting, it increased soil moisture, especially in Ukraine, North Caucasus, and Volga Valley. These areas received twice the normal monthly amount of rain. April precipitation in Estonia, Latvia, and Lithuania was below normal, allowing spring grain planting. Since April 24, unseasonably warm, dry weather has persisted over the region, accelerating growth in winter grains and allowing spring crop planting to advance northward.

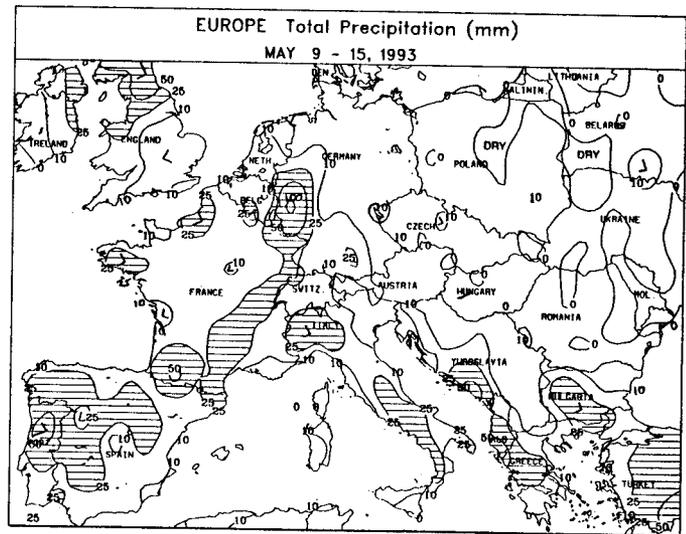




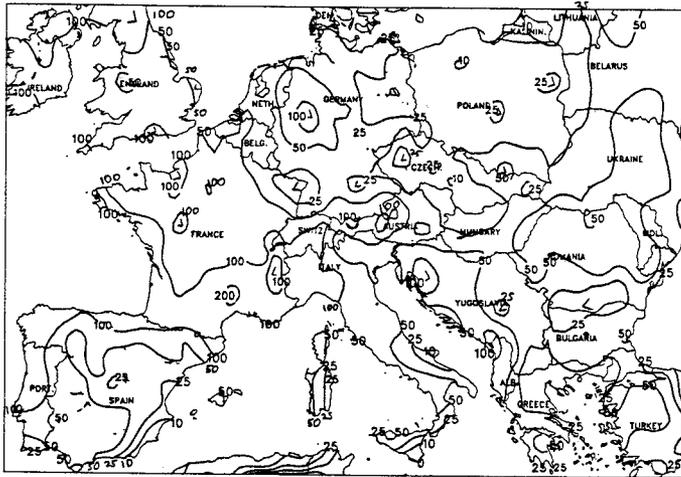
**FSU-NEW LANDS:** Unseasonably warm, dry weather covered Urals, Kazakhstan, and western areas in Siberia, favoring early fieldwork. Spring grain planting usually begins in southern Urals and Kazakhstan around mid-May and progresses north and east. In April, above-normal precipitation provided abundant topsoil moisture for upcoming spring grain planting. Furthermore, near- to above-normal precipitation since last September helped replenish subsoil moisture. In cotton growing areas of Central Asia, planting usually begins in mid-April and extends through May. Moderate to heavy rains in late April and early May in eastern Uzbekistan and western Tajikistan caused local washouts, necessitating replanting.



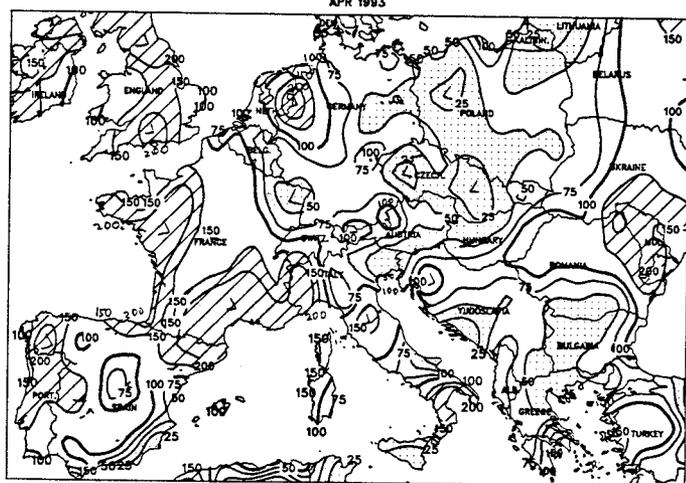
**EUROPE:** Unseasonably warm, dry weather prevailed again over northeastern and east-central Europe, promoting rapid crop growth but depleting soil moisture. Temperatures averaged 3-8 degrees C above normal across Germany and Poland to Hungary, with maximum temperatures averaging 22-26 degrees C. The warm weather will accelerate crop development ahead of average, heightening concern about insufficient soil moisture for reproduction phases. Showery weather covered western and southern Europe. The rain (10-50 mm, with scattered 50-75 mm) continued to favor crop development in the northwest, brought timely moisture to crops in western Germany, and boosted late-season moisture supplies along the Mediterranean region. For April, near- to above-average rainfall throughout most of western Europe and in Romania provided a good start to the growing season. However, a drying trend that began in March expanded over northeastern and east-central Europe.



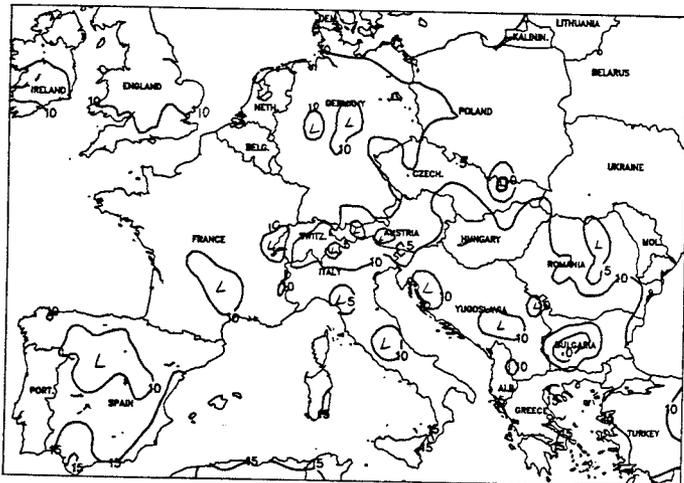
EUROPE...TOTAL PRECIPITATION (mm)  
APR 1993



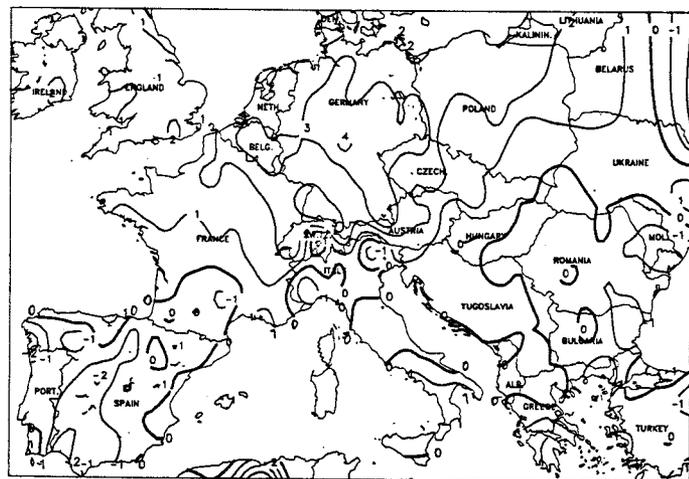
EUROPE...PERCENT OF NORMAL PRECIPITATION  
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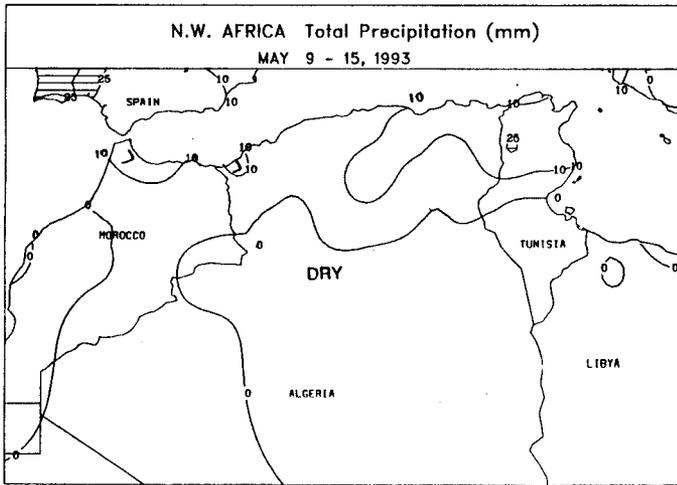


EUROPE...AVERAGE TEMPERATURE (°C)  
APR 1993

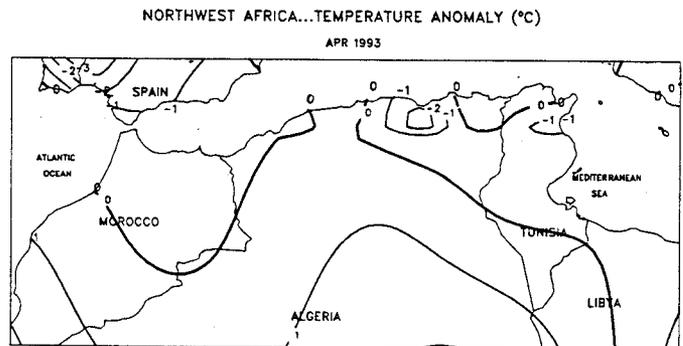
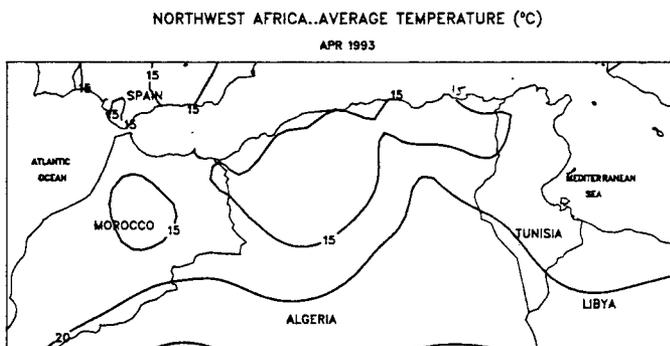
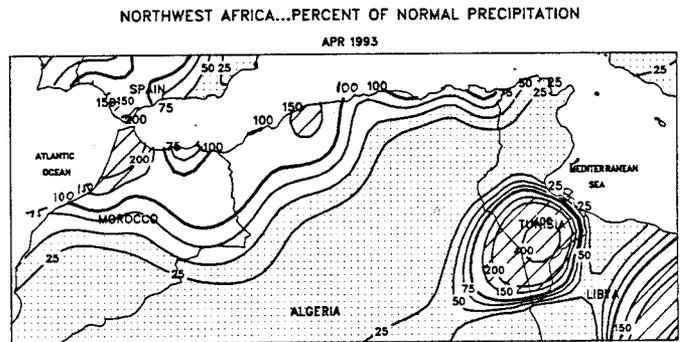
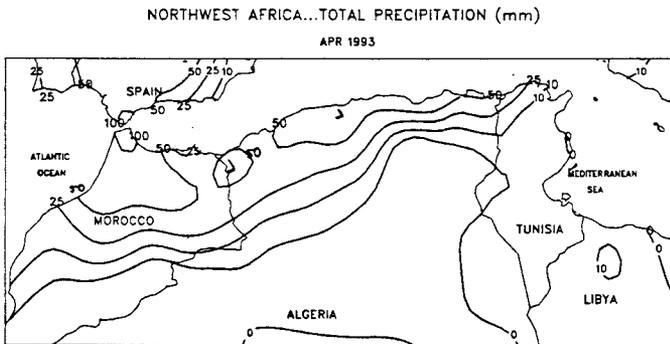


EUROPE...TEMPERATURE ANOMALY (°C)  
APR 1993

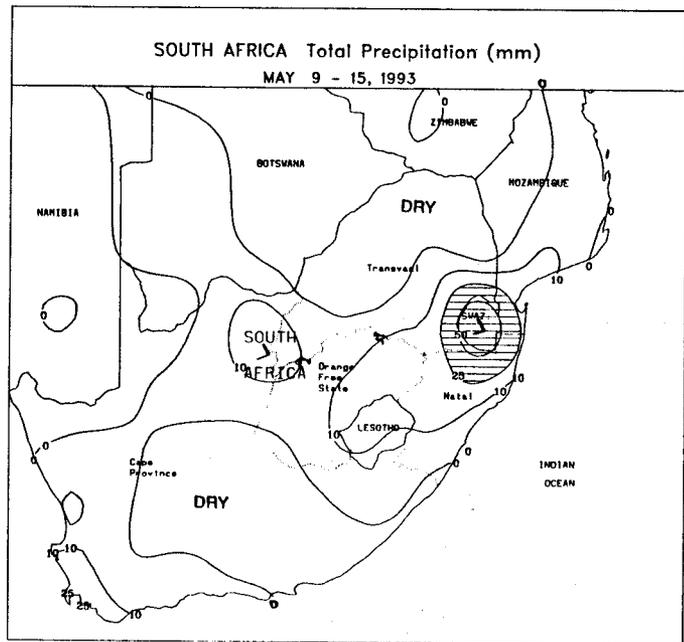




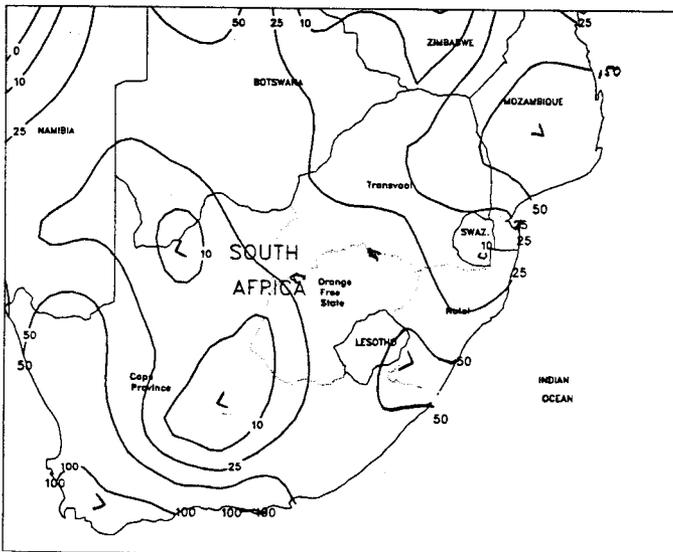
**NORTHWESTERN AFRICA:** Mostly dry weather in Morocco benefited early winter grain harvesting. In contrast, wet, cool weather (precipitation ranging from 10 to 25 mm) in Algeria and Tunisia slowed crop maturation and early harvest. To review the season, the second consecutive year of drought over Moroccan winter grains reduced wheat and barley yields. In Algeria, adverse dryness in western areas at planting caused spotty emergence and limited crop establishment. In March, above-normal rainfall in western Algeria helped to stabilize crop conditions. In eastern Algeria and Tunisia, growing season rainfall generally benefited winter grains, especially in crop areas near the coast. Further inland, well below-normal precipitation in April limited moisture for winter grains in the filling stage. Beginning with next week's bulletin, weekly summaries for northwestern Africa will be discontinued until the beginning of next year's planting season.



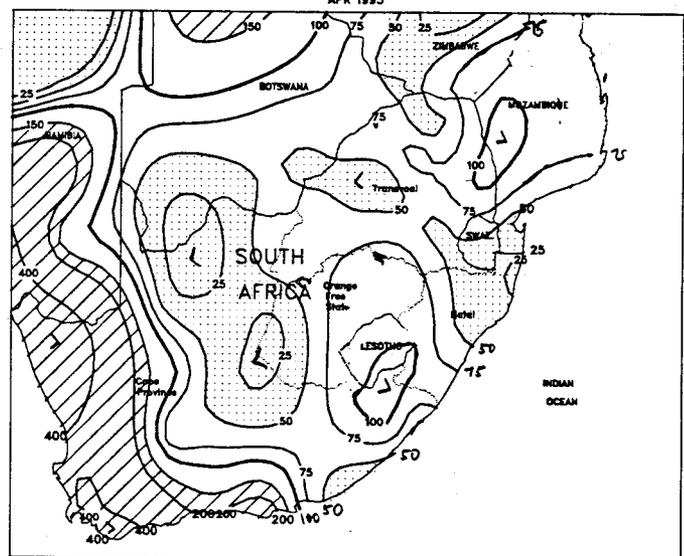
**SOUTH AFRICA:** Light rain (5-24 mm) benefited establishing winter wheat in most primary areas. Temperatures continued to be seasonably mild, with only a few reports of frost. Corn harvests progressed. In April, timely, soaking rains aided winter wheat planting in southern Cape Province. Further east, light showers in early April benefited emerging wheat, but drier conditions developed in mid-April, resulting in below-normal monthly rainfall. The dryness benefited maturing corn. Beginning next week, coverage of South Africa will be suspended until next season, when corn planting begins.



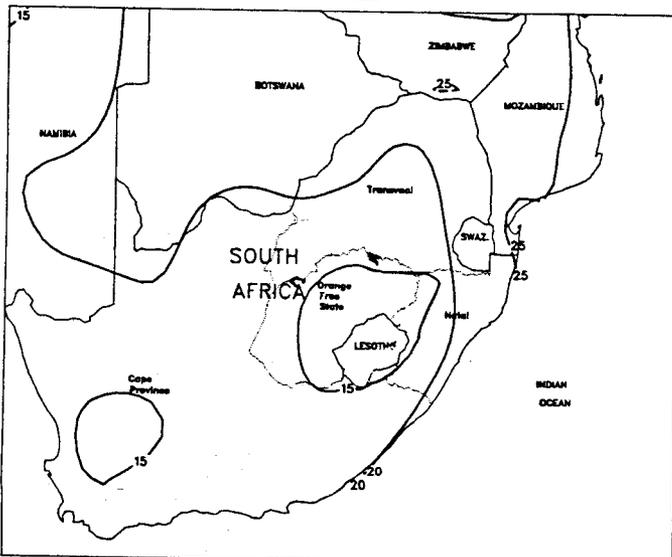
SOUTH AFRICA...TOTAL PRECIPITATION (mm)  
APR 1993



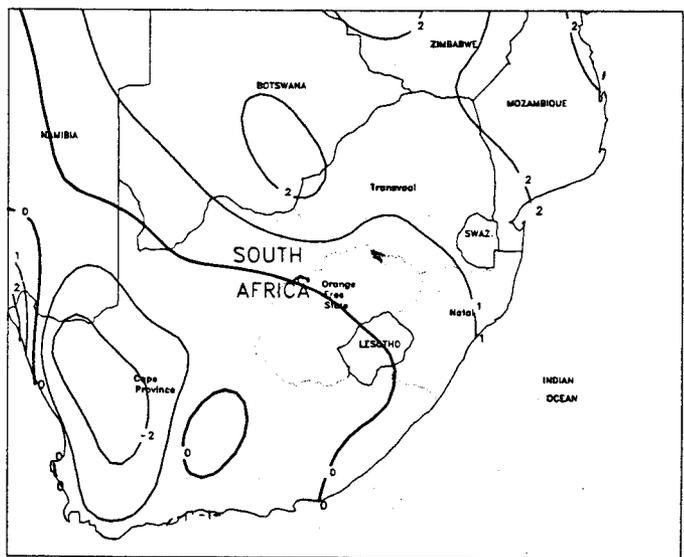
SOUTH AFRICA...PERCENT OF NORMAL PRECIPITATION  
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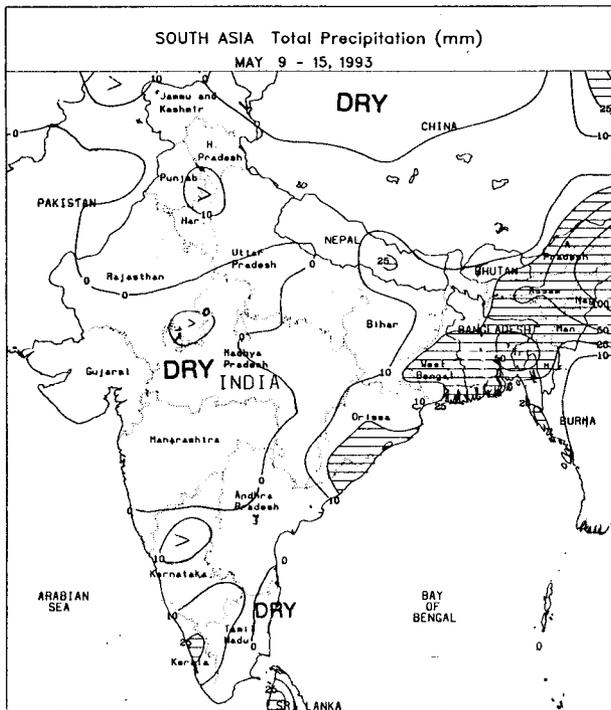


SOUTH AFRICA...AVERAGE TEMPERATURE (°C)  
APR 1993

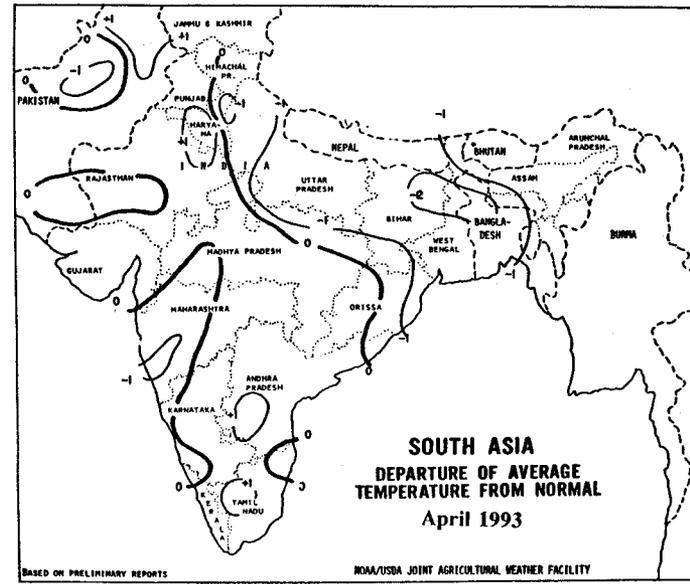
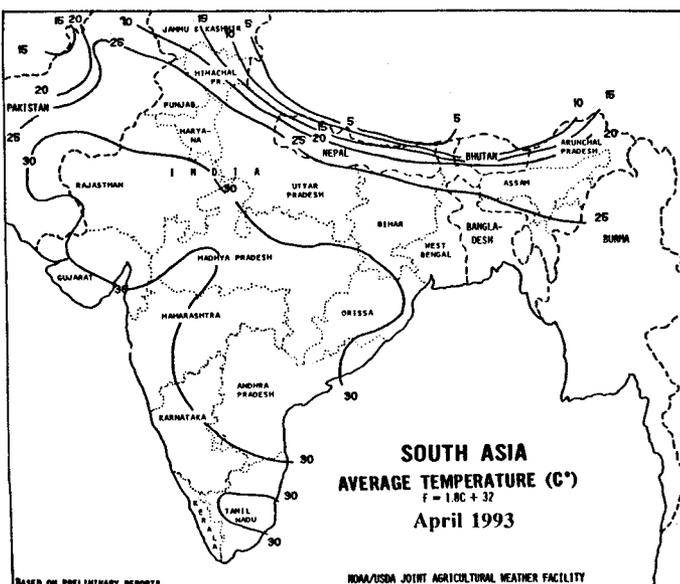
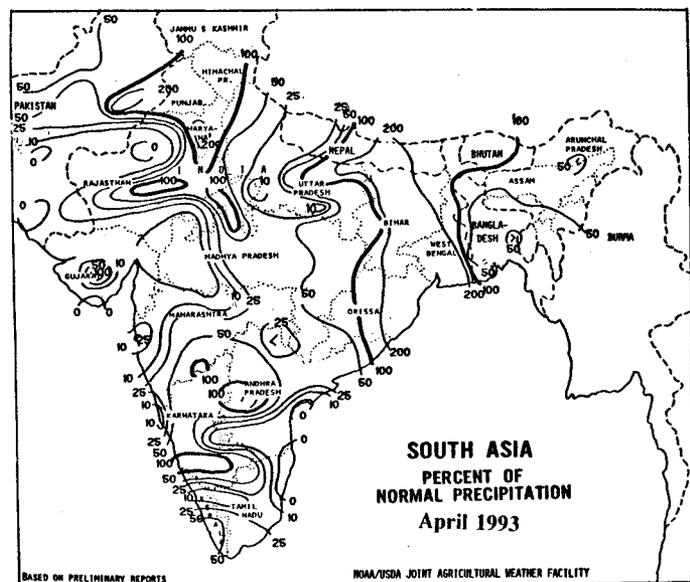
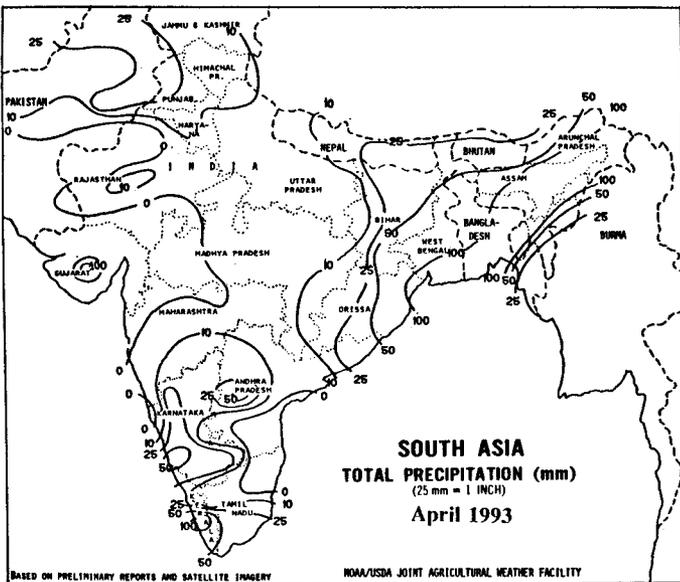


SOUTH AFRICA...TEMPERATURE ANOMALY (°C)  
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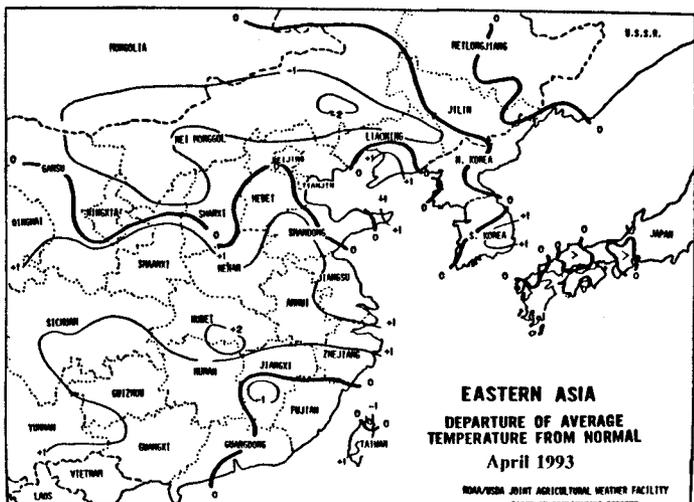
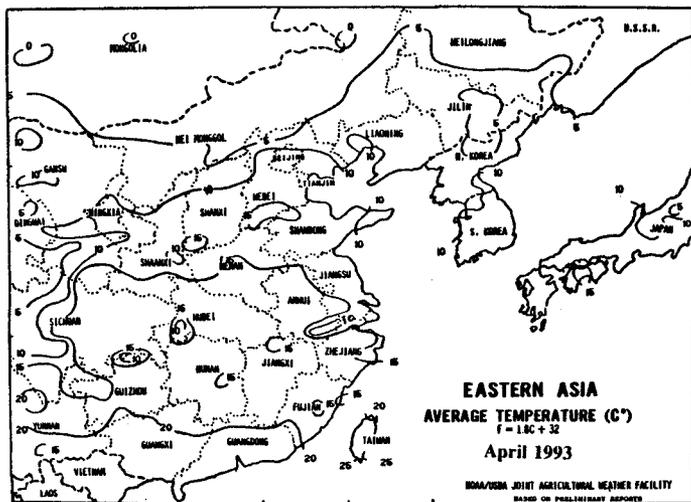
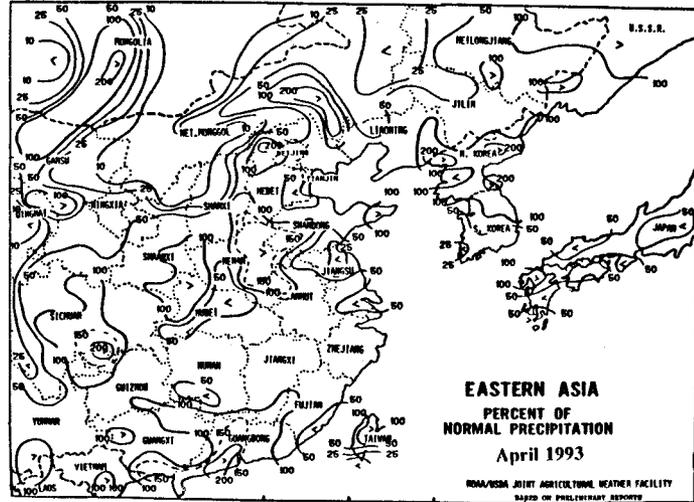
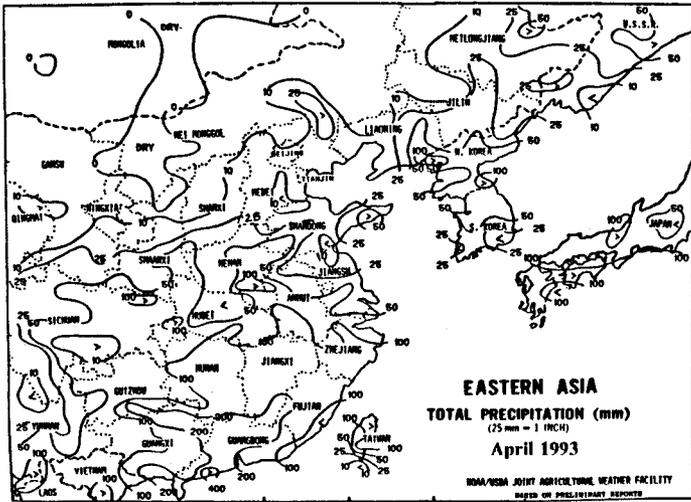
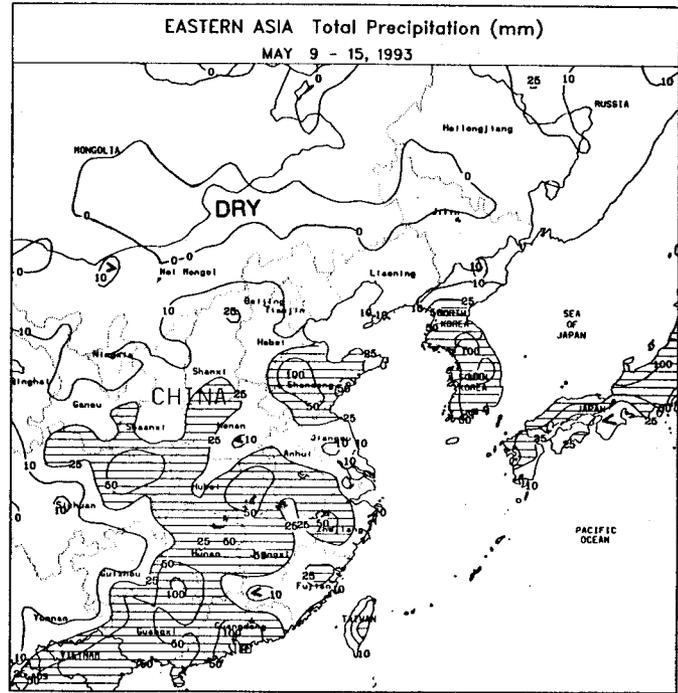


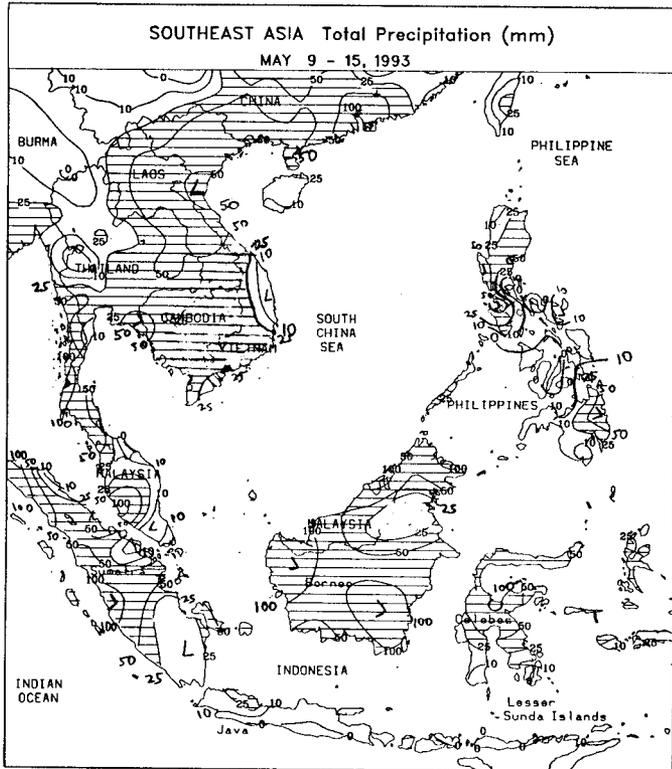


**SOUTH ASIA:** Temperatures averaged near normal across Pakistan and northwest and central India, but intensive heat (highs in the mid 40's C) returned late in the week, stressing livestock and increasing cotton irrigation demands. Moderate to heavy showers (25-130 mm) from eastern Orissa to Assam increased moisture for rice planting but worsened local flooding. Pre-monsoon showers (10-29 mm) also picked up over southwestern India, but more precipitation is needed for rainfed crop establishment. During April, unseasonably hot weather developed over central India and spread northwestward by month's end. Initially beneficial for winter grain and oilseed drydown, the heat intensified to levels that stressed livestock and maintained high moisture demands on cotton, typically planted as early as March. In contrast, wet weather in eastern India and Bangladesh increased irrigation for upcoming spring plantings but caused flooding and slowed harvests of winter wheat and rice.



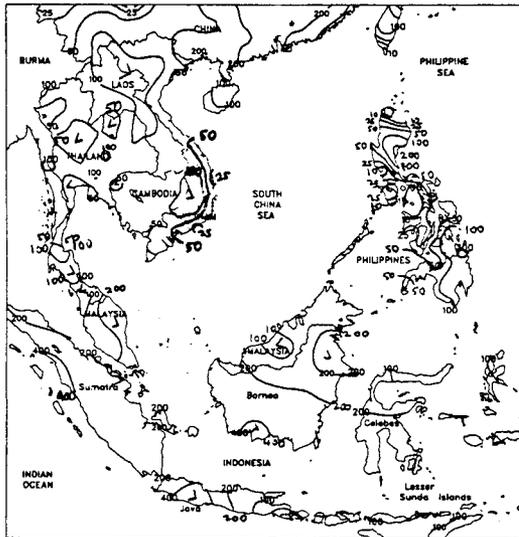
**EASTERN ASIA:** Widespread light to moderate rain (10-30 mm) fell across the North China Plain, aiding heading winter wheat and germinating summer crops. Heavier rains (50-100 mm) were reported in Shangdong, possibly causing local flooding but favoring underground irrigation supplies. Abundant rains (15-60 mm, with isolated amounts greater than 100 mm) covered central and southern China, helping to maintain favorable irrigation supplies. Dry weather prevailed across Manchuria, aiding summer crop planting. Weekly temperatures averaged 2-4 degrees C below normal across the North China Plain, north-central China (Gansu and Shaanxi) and Sichuan. Elsewhere temperatures averaged near normal. During April, near- to above-normal rainfall occurred from Sichuan to the North China Plain and across southern China. Manchuria received near normal April rainfall, while portions of the Yangtze Valley experienced slightly below normal rainfall (60-90 percent of normal).



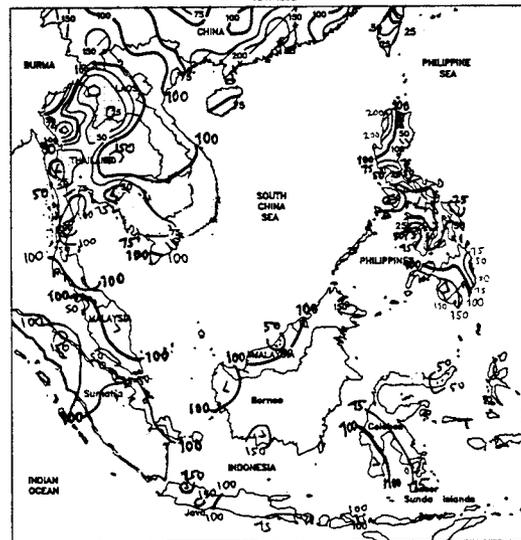


**SOUTHEAST ASIA:** Moderate to heavy showers (25-50 mm or more) benefited newly planted rice and corn across Indochina, including most of Thailand's rainfed crops. Widespread showers in early April provided timely planting moisture, but 2 weeks of dry, warm weather that began late in the month reduced moisture for crop establishment. To the south, heavy showers (50-153 mm) likely caused local flooding in peninsular Thailand and eastern Malaysia. Except for isolated locations, rainfall was generally light over primary rice and oil palm areas of western Malaysia and Java. In April, an erratic rainfall pattern over Malaysia resulted in below-normal accumulations, but frequent showers over Java, while causing some flooding, increased irrigation supplies for dry season crops. In the Philippines, mostly dry weather prevailed, reflecting a trend that has plagued the region since last fall.

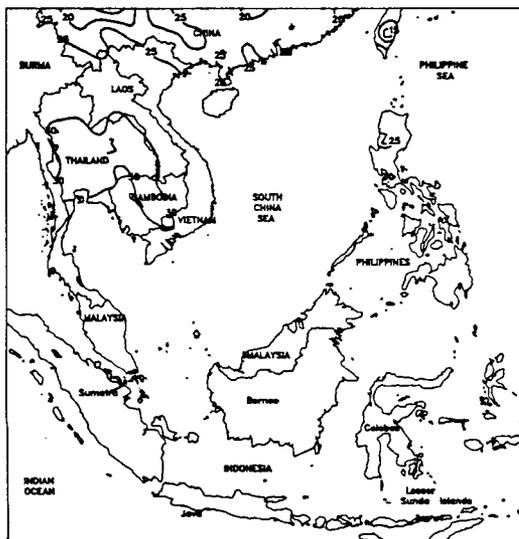
SOUTHEAST ASIA...TOTAL PRECIPITATION (mm)  
APR 1993



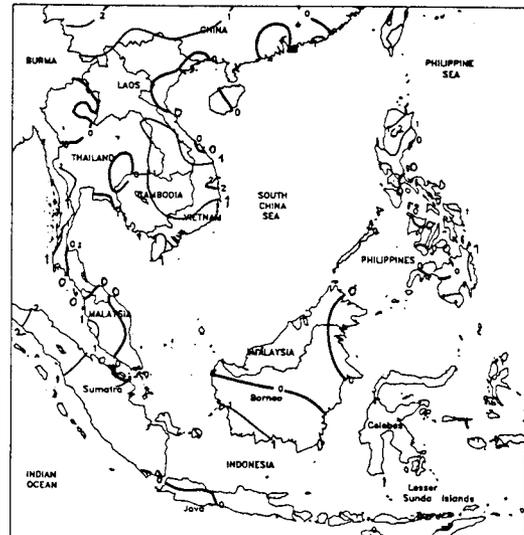
SOUTHEAST ASIA...PERCENT OF NORMAL PRECIPITATION  
APR 1993



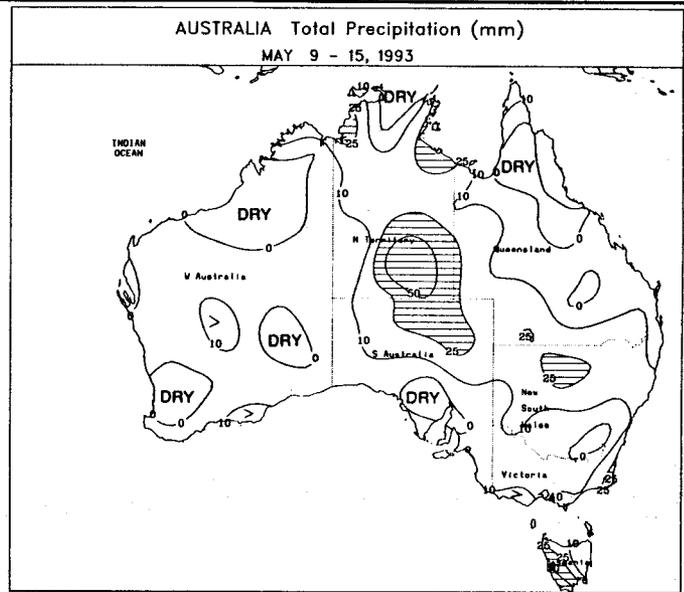
SOUTHEAST ASIA...AVERAGE TEMPERATURE (°C)  
APR 1993



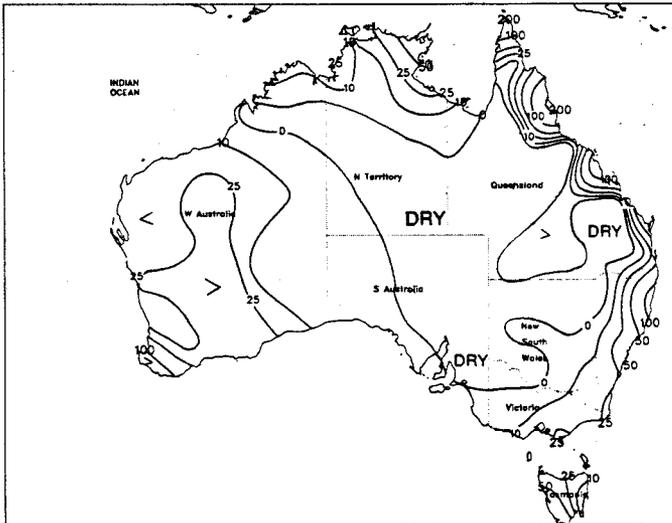
SOUTHEAST ASIA...TEMPERATURE ANOMALY (°C)  
APR 1993



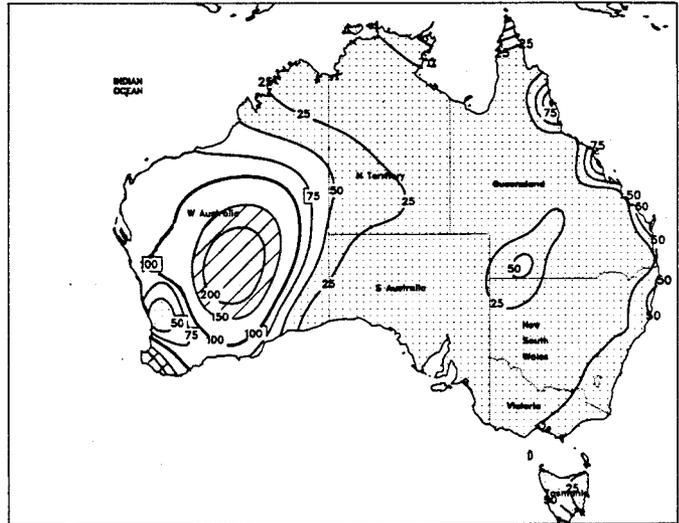
**AUSTRALIA:** Beneficial rains (6-25 mm) fell across northern New South Wales, extreme southern Queensland, and southwestern Queensland, favoring topsoils for winter wheat planting and pasture growth. However, the remaining wheat areas of southern Queensland received only light rain (less than 5 mm). Additional rain is still needed throughout eastern Australia to relieve long-term dryness. Across southern Australia, scattered light rain (2-13 mm) moistened topsoils. Weekly temperatures averaged 2-4 degrees C above normal across southern Queensland, increasing evaporative moisture loss from topsoils. During April, the eastern half of the country received much-below-normal rainfall (25-50 percent of normal), keeping topsoils dry. Near-to above-normal rainfall in western Australia kept topsoils moist for wheat planting.



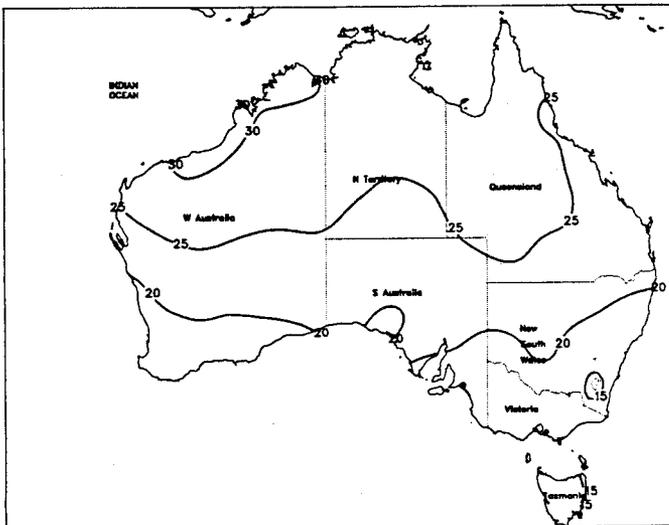
AUSTRALIA...TOTAL PRECIPITATION (mm)  
APR 1993



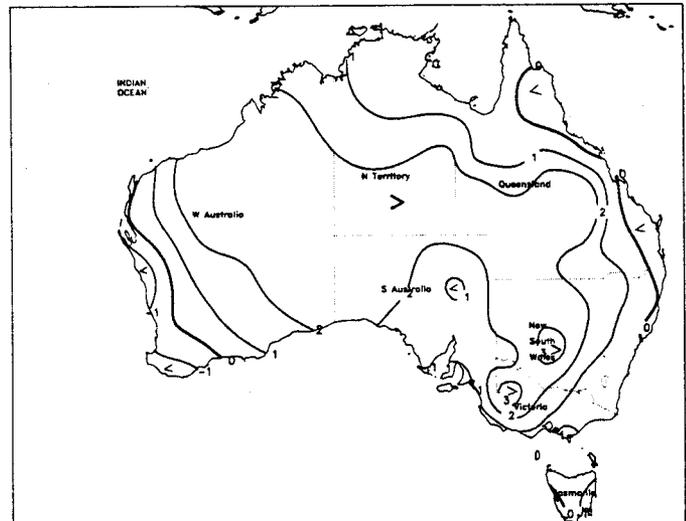
AUSTRALIA...PERCENT OF NORMAL PRECIPITATION  
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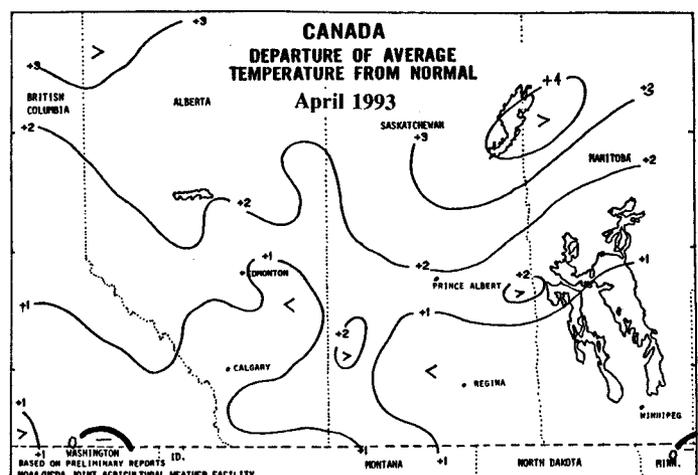
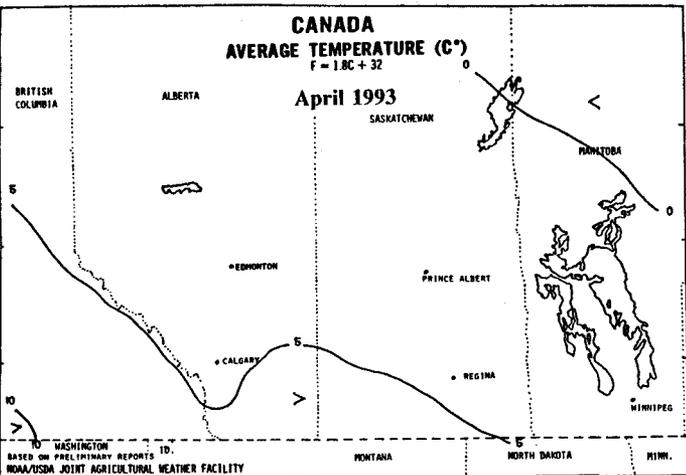
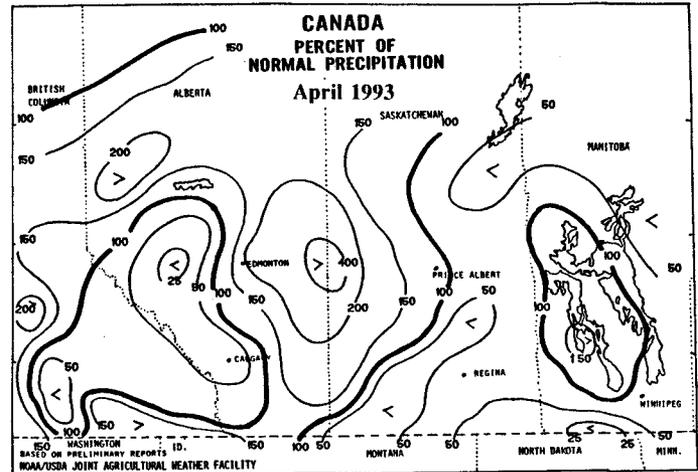
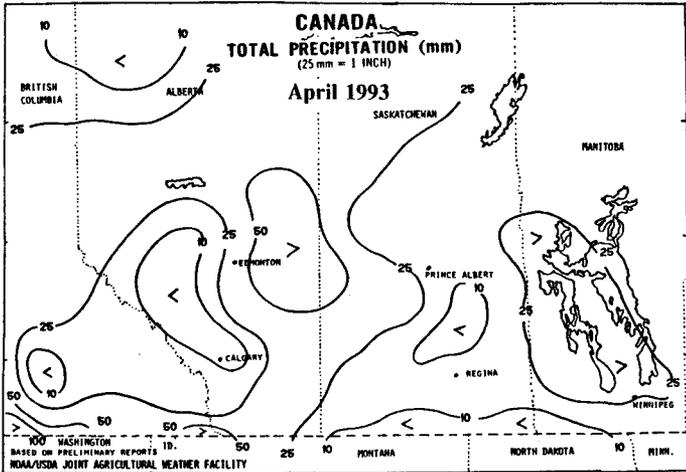
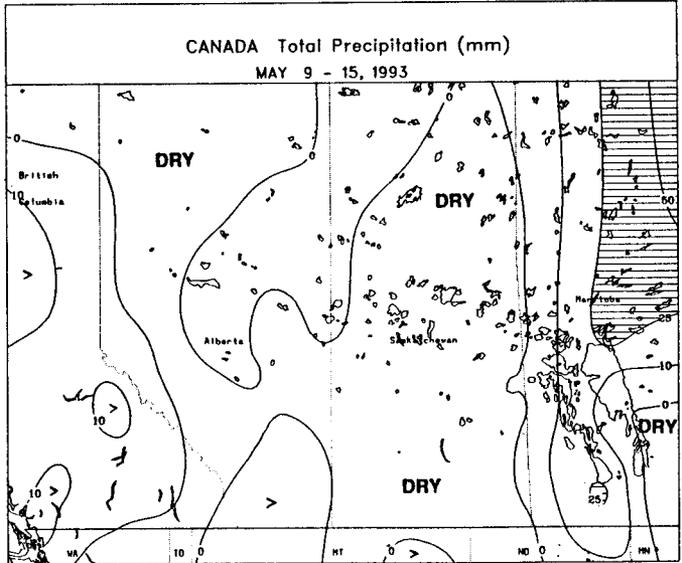
AUSTRALIA...AVERAGE TEMPERATURE (°C)  
APR 1993



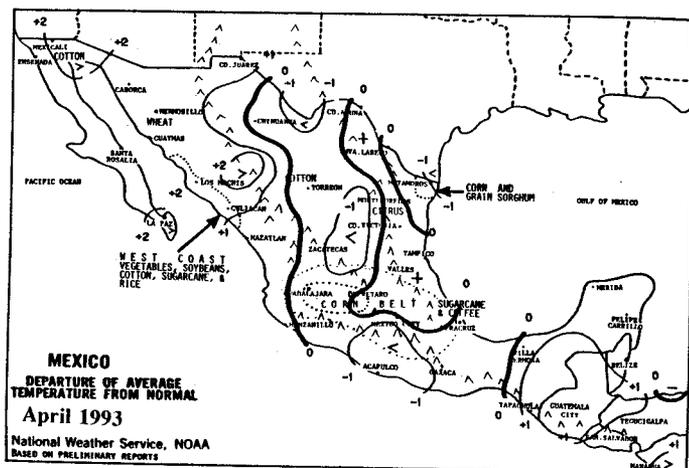
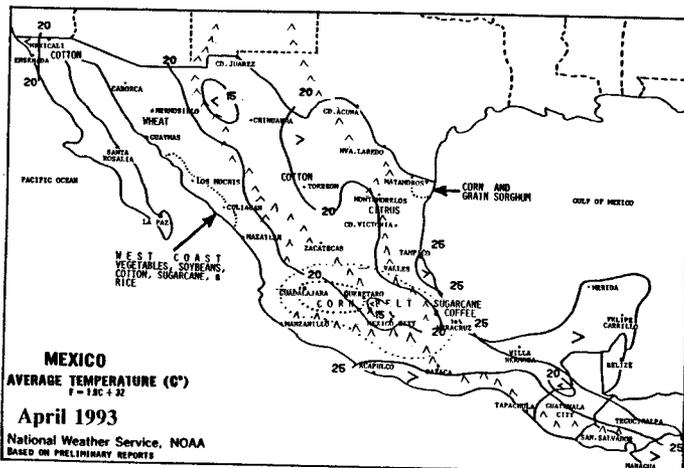
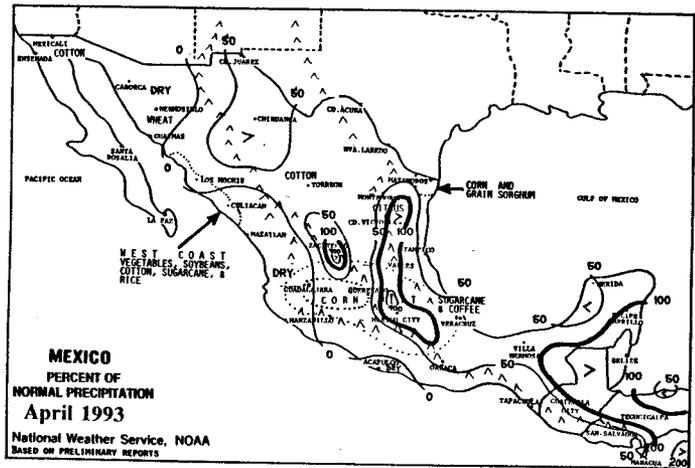
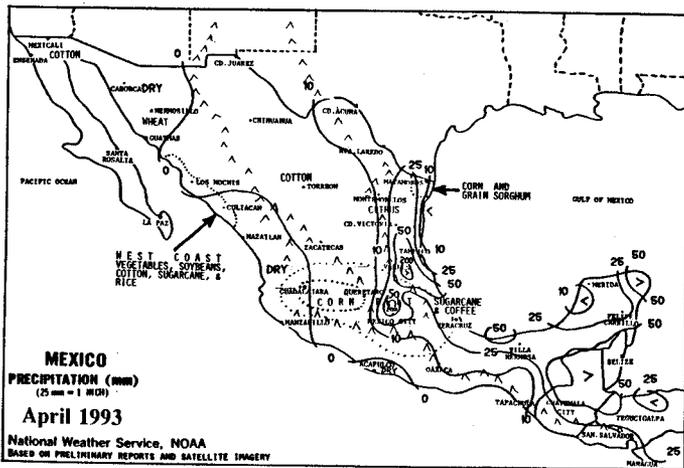
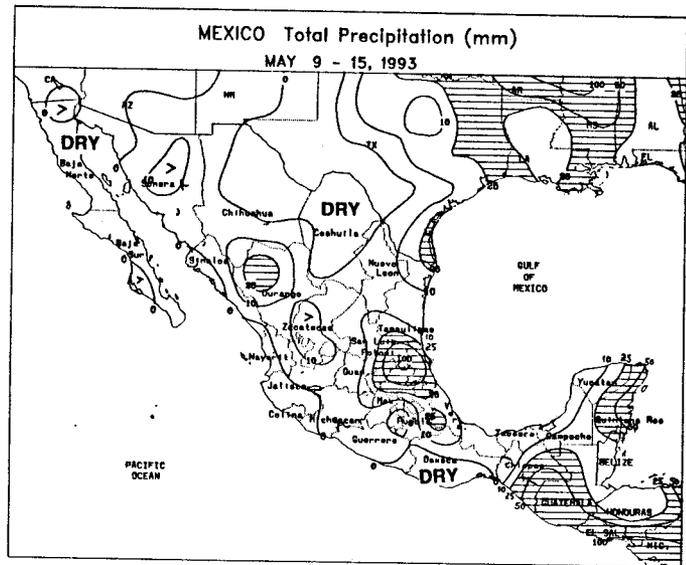
AUSTRALIA...TEMPERATURE ANOMALY (°C)  
APR 1993

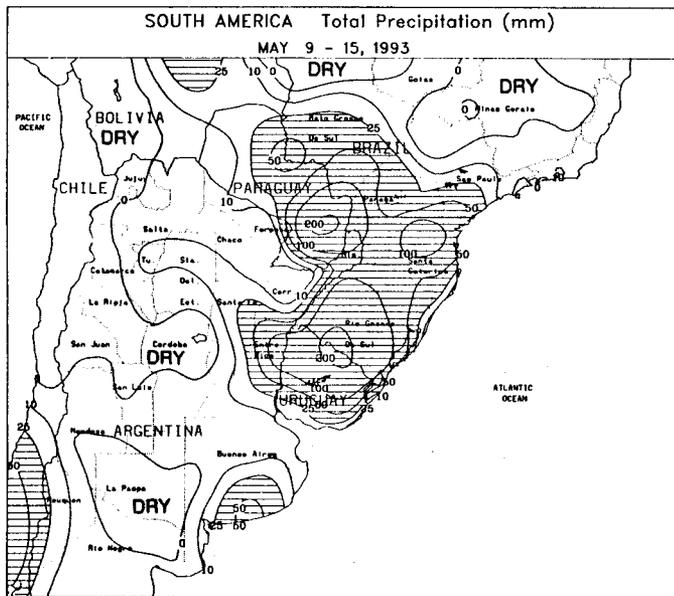


**CANADA:** Beneficial rain (10-27 mm, with isolated locations receiving more than 50 mm) covered Manitoba's primary spring grain and oilseed areas, boosting topsoil moisture for germination. Dry weather elsewhere across the Prairies aided early fieldwork. Although temperatures averaged 3-5 degrees C above normal across the Prairies, freezing temperatures returned at week's end, limiting early crop development. April precipitation was near to above normal over Alberta, northwestern Saskatchewan, and Manitoba's interlake region, but nearly all major spring crop areas need precipitation for establishment following a drying trend that began last fall. In the east, drier, warmer-than-normal weather benefited Ontario's vegetative winter wheat, although scattered frost lingered over northern growing areas. April precipitation was near to above normal, continuing a trend that has dominated the past two growing seasons.

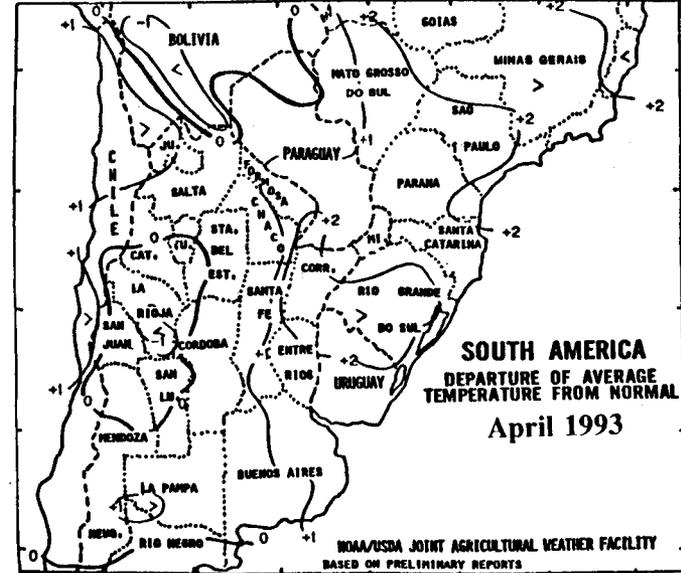
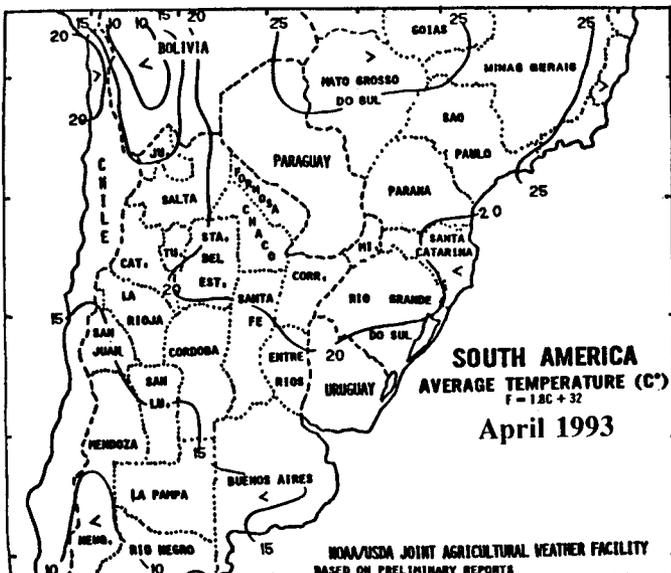
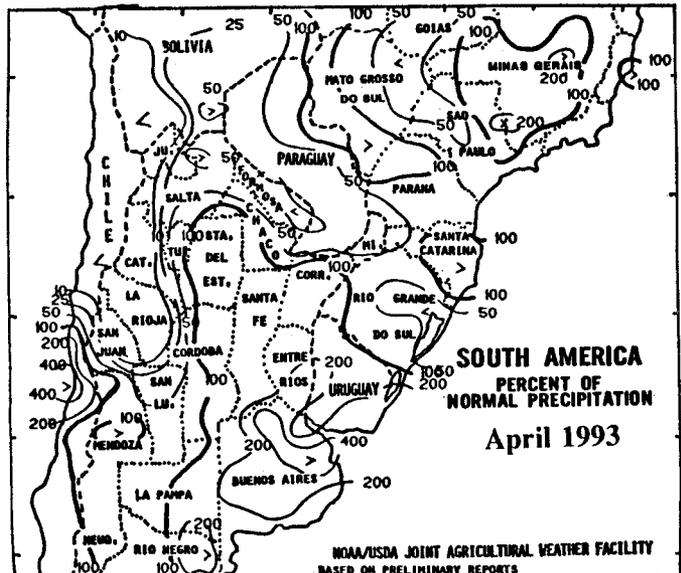
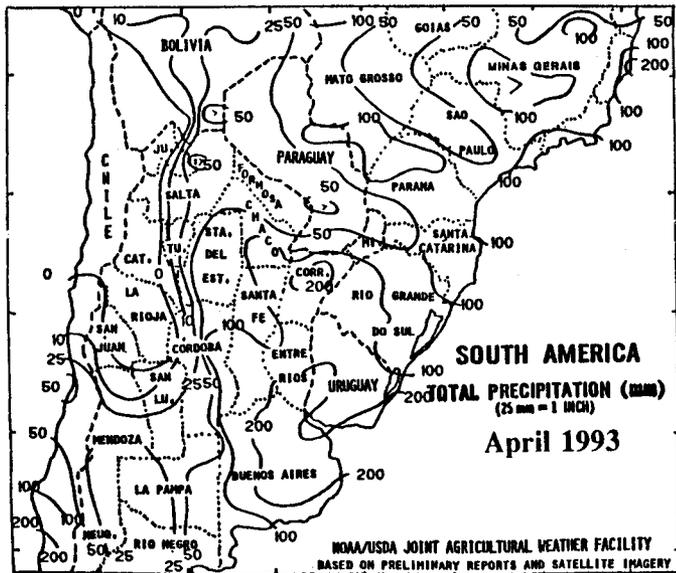


**MEXICO:** Scattered showers (15-50 mm, with isolated amounts greater than 100 mm) fell across the east coast and western Sierra Madre. Although near- to above-normal winter rains boosted reservoir levels in the northwest and central crop regions, they remain below those of last year, when winter rains were exceptional. During April, near-normal precipitation fell across east-central Mexico, with the remaining areas of the country receiving 50 percent or less of normal rainfall.





**SOUTH AMERICA:** Much-needed drier weather encompassed central Argentina (rainfall amounts ranged from 2-13 mm), allowing summer crop harvesting and early winter wheat planting to progress. Light to moderate rain (12-40 mm) fell across southern Buenos Aires, favoring topsoils for winter wheat planting. Scattered frost occurred across the western crop areas (southern Cordoba, La Pampa and southwestern Buenos Aires), but no significant impact is expected since most of the summer crops are mature and winter grain planting has just begun. During April, above- to much-above-normal rain (150-300 percent of normal rainfall) fell across central Argentina, delaying corn and soybean harvesting and causing flooding. Scattered showers prevailed across Parana, Mato Grosso do Sul, and Sao Paulo, causing minor harvesting delays. Soybean harvesting is about 80-90 percent complete. Temperatures averaged 2-4 degrees C above normal across southern Brazil. Southern Paraguay and Uruguay also experienced heavy showers (greater than 100 mm), which delayed late harvesting and caused flooding. During April, near- to below-normal rainfall favored Brazilian soybean harvesting. Central Chile reported 200-400 percent of normal April rainfall, favoring irrigation supplies but possibly causing flooding.



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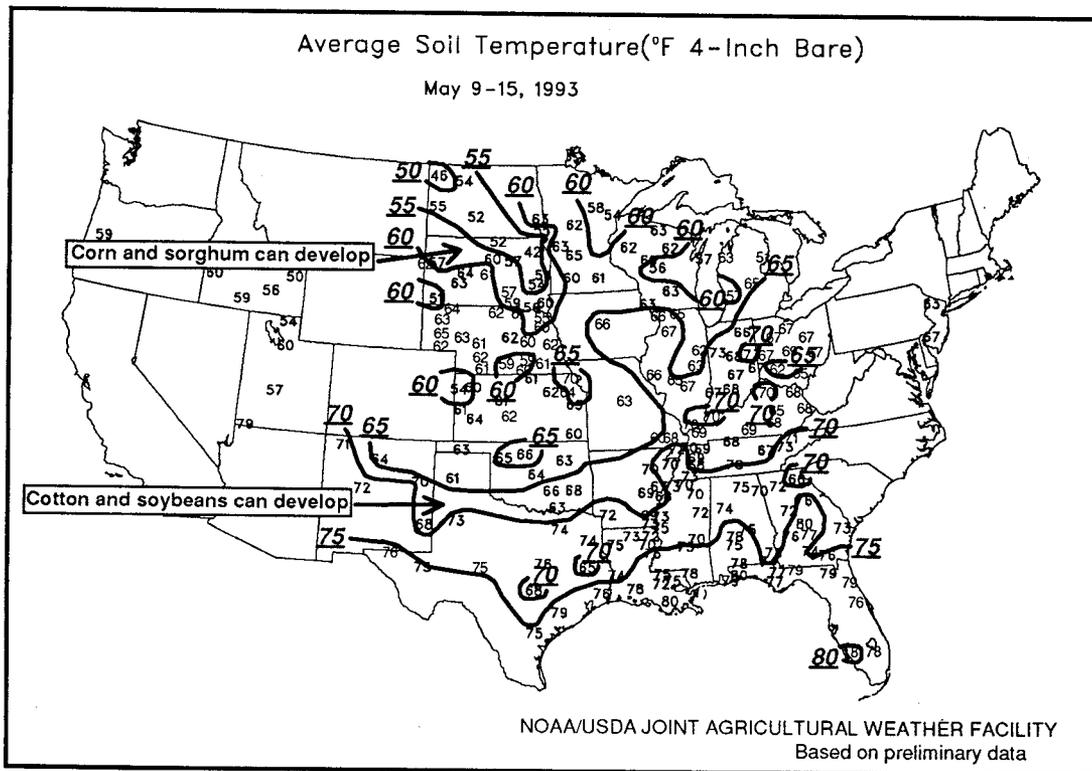
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