

WEEKLY WEATHER AND CROP BULLETIN

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

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

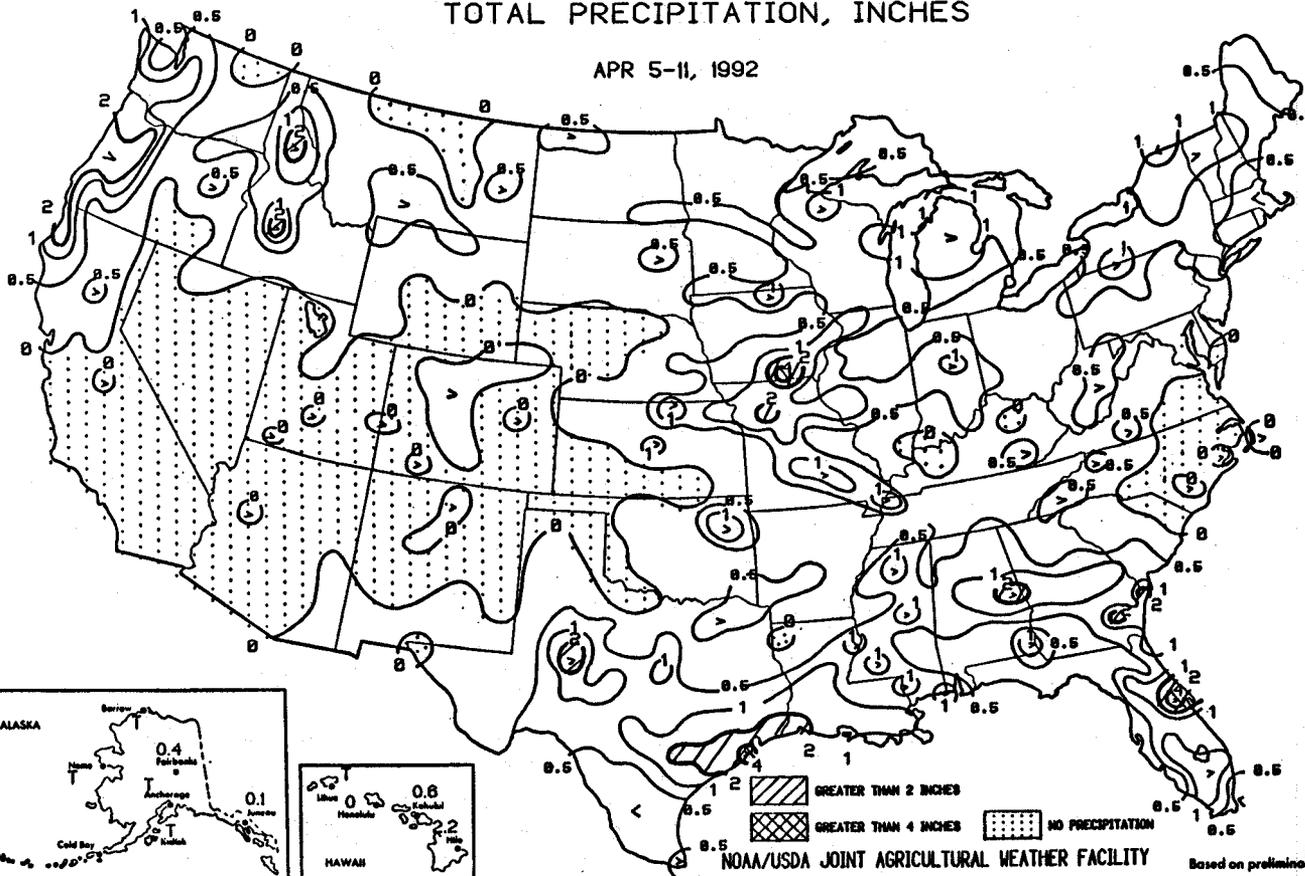
Volume 79, No. 15

Washington, D.C.

April 14, 1992

TOTAL PRECIPITATION, INCHES

APR 5-11, 1992



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

HIGHLIGHTS

April 5 - 11, 1992

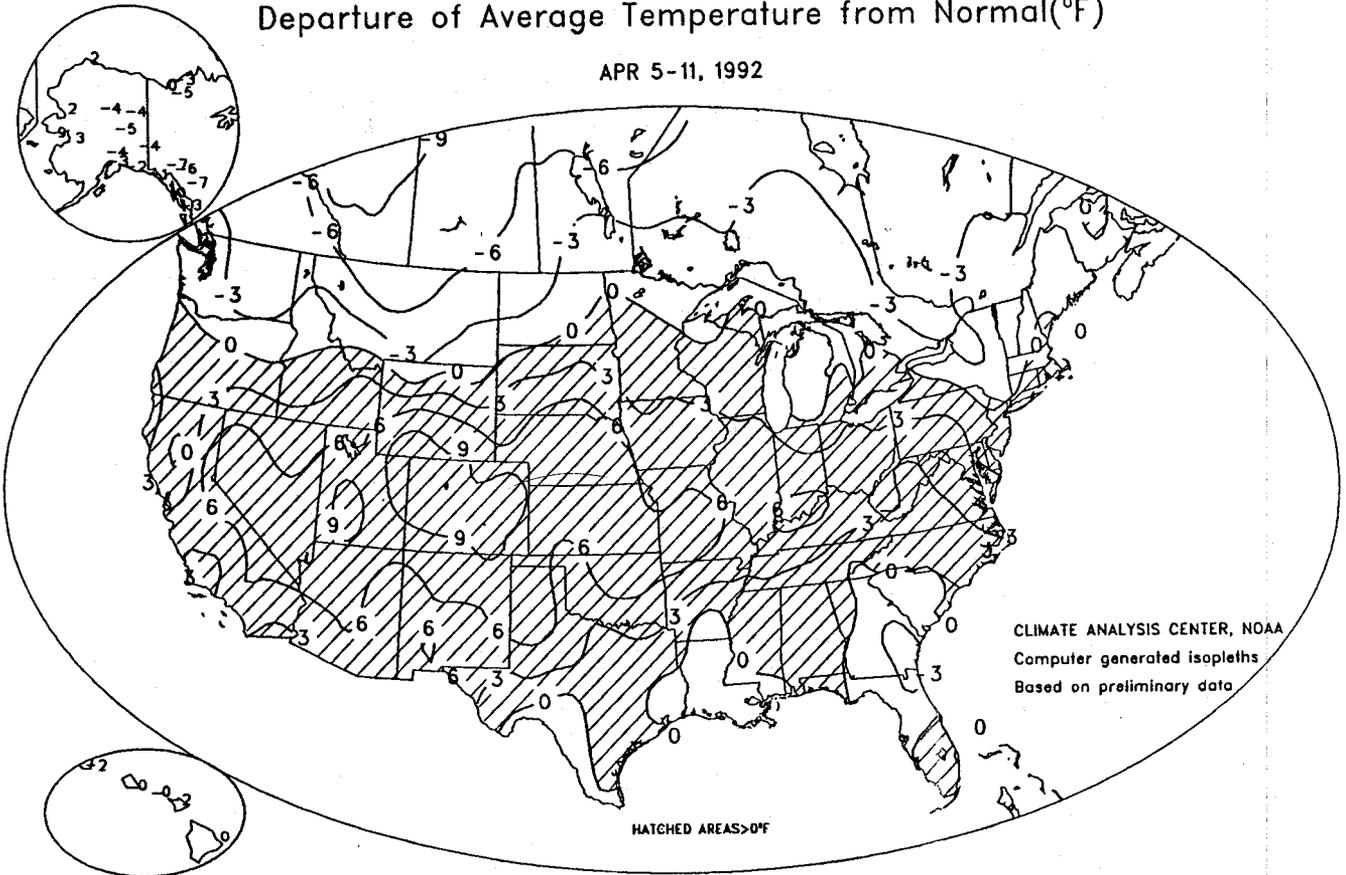
The **Northwestern States** had below-normal temperatures for the first time in 4 months, but benefited from significant rainfall, while the **Southeast** posted its first warmer-than-normal week since early March. Early in the week, arctic high pressure over the **East** produced a dozen daily record lows, including 29°F in **Raleigh, NC**, and 31°F in **Augusta, GA**. Pacific high pressure in the **Northwest** also allowed temperatures to drop to daily record low levels in **Klamath Falls, OR** (20°F), and **Spokane, WA** (24°F). Meanwhile, a storm edged along the **Gulf coast**, delivering locally heavy rain from **central Texas** to **southern Georgia**. At midweek, a Pacific storm unleashed heavy rain on the **Northwest**. More than 2 inches of precipitation deluged the **western third of Oregon**, as well as parts of the **Bitterroot** and **Sawtooth ranges of Idaho**. By late in the week, an arctic high pressure system pressed into the **North Central States**, setting up a sharp north-to-south contrast in conditions across the Nation. One foot of snow covered **Grantsburg,**

WI, but heavy rain and hail peppered parts of **Iowa, Missouri, and Kansas**. Six inches of snow blanketed **Lake Placid, NY**, while **Jackson, KY**, warmed to 87°F. At week's end, a few heavy thunderstorms developed along the **southern Atlantic coast**, with rainfall locally topping 5 inches in **Orlando, FL**.

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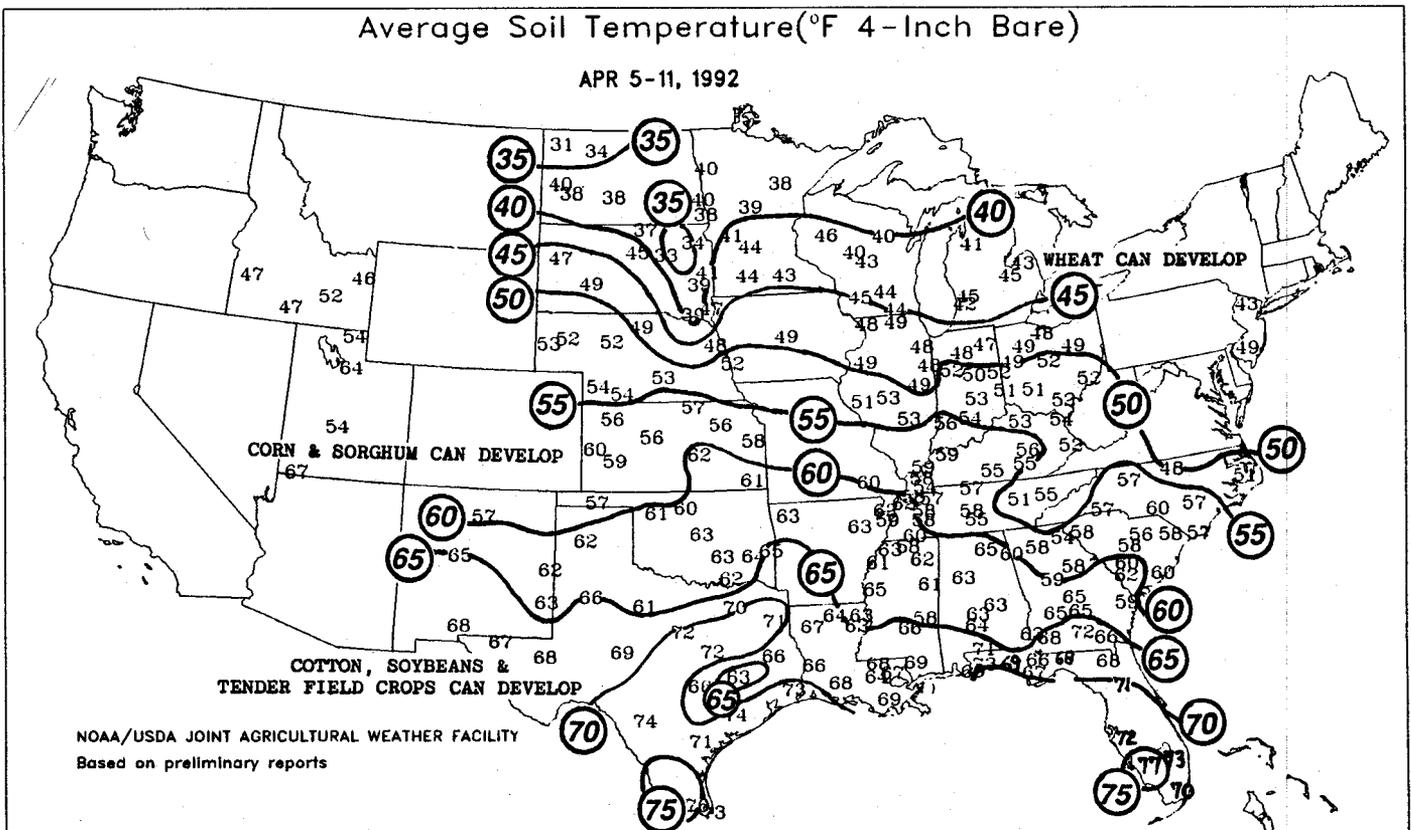
Departure of Average Temperature from Normal(°F)

APR 5-11, 1992



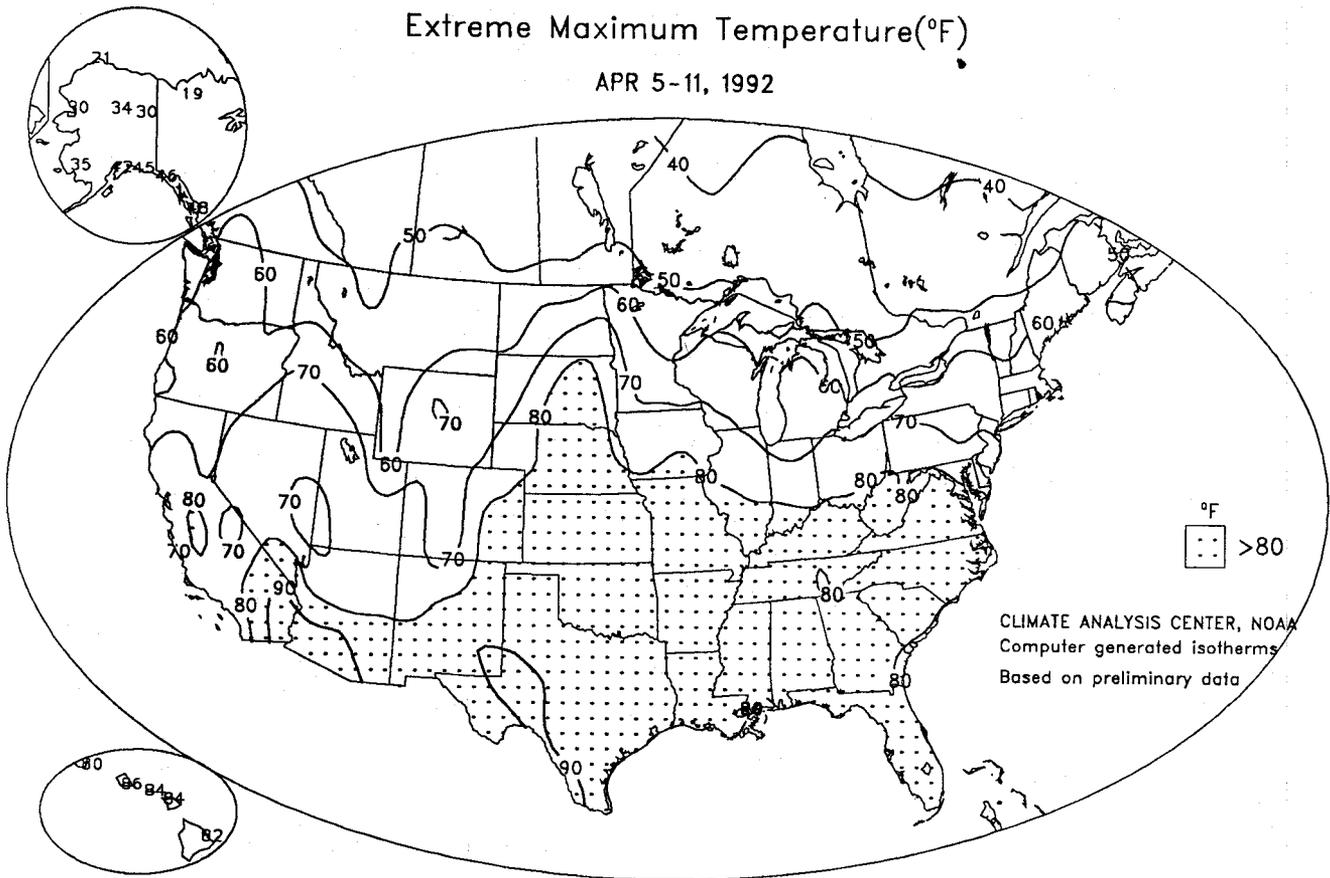
Average Soil Temperature(°F 4-Inch Bare)

APR 5-11, 1992



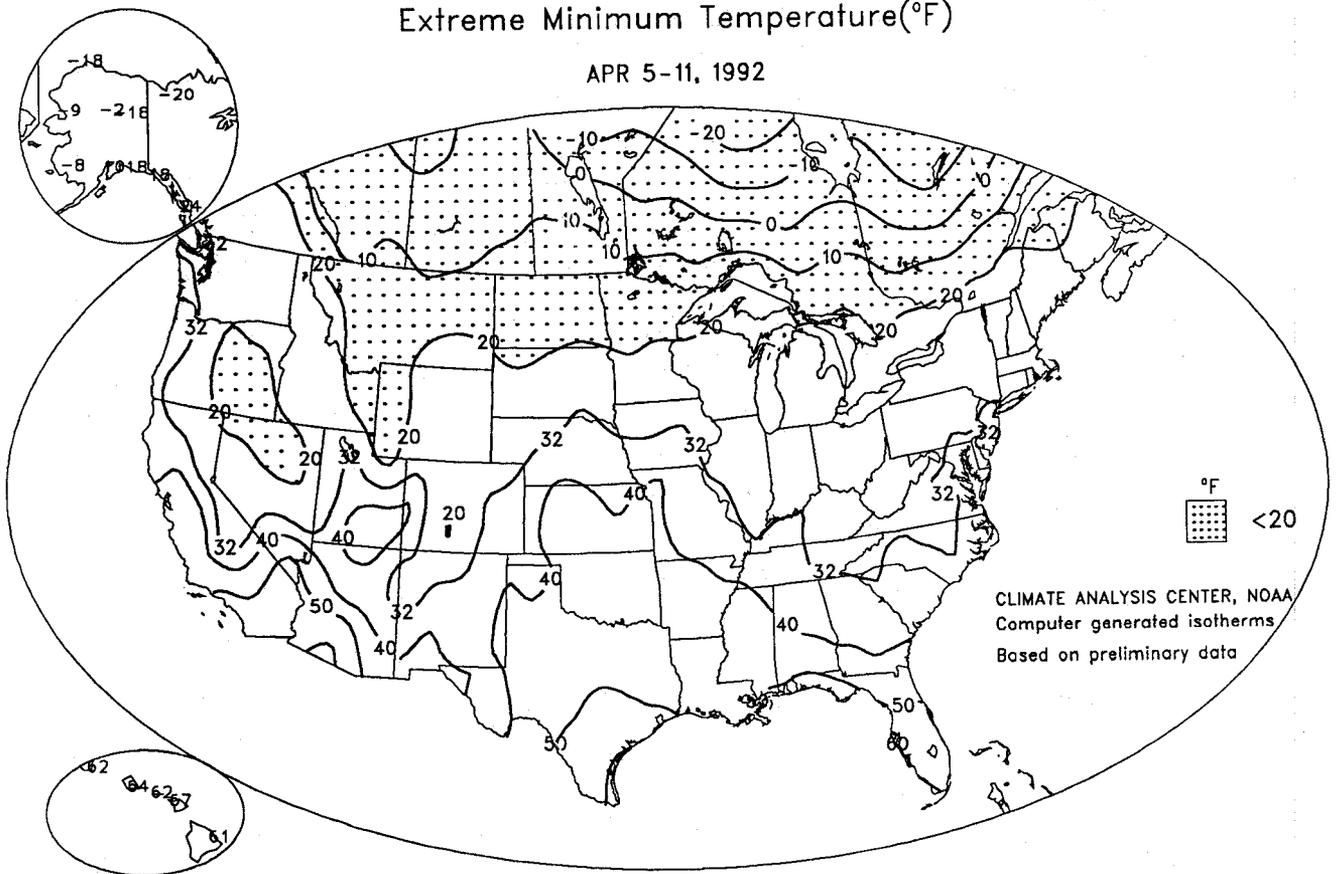
Extreme Maximum Temperature(°F)

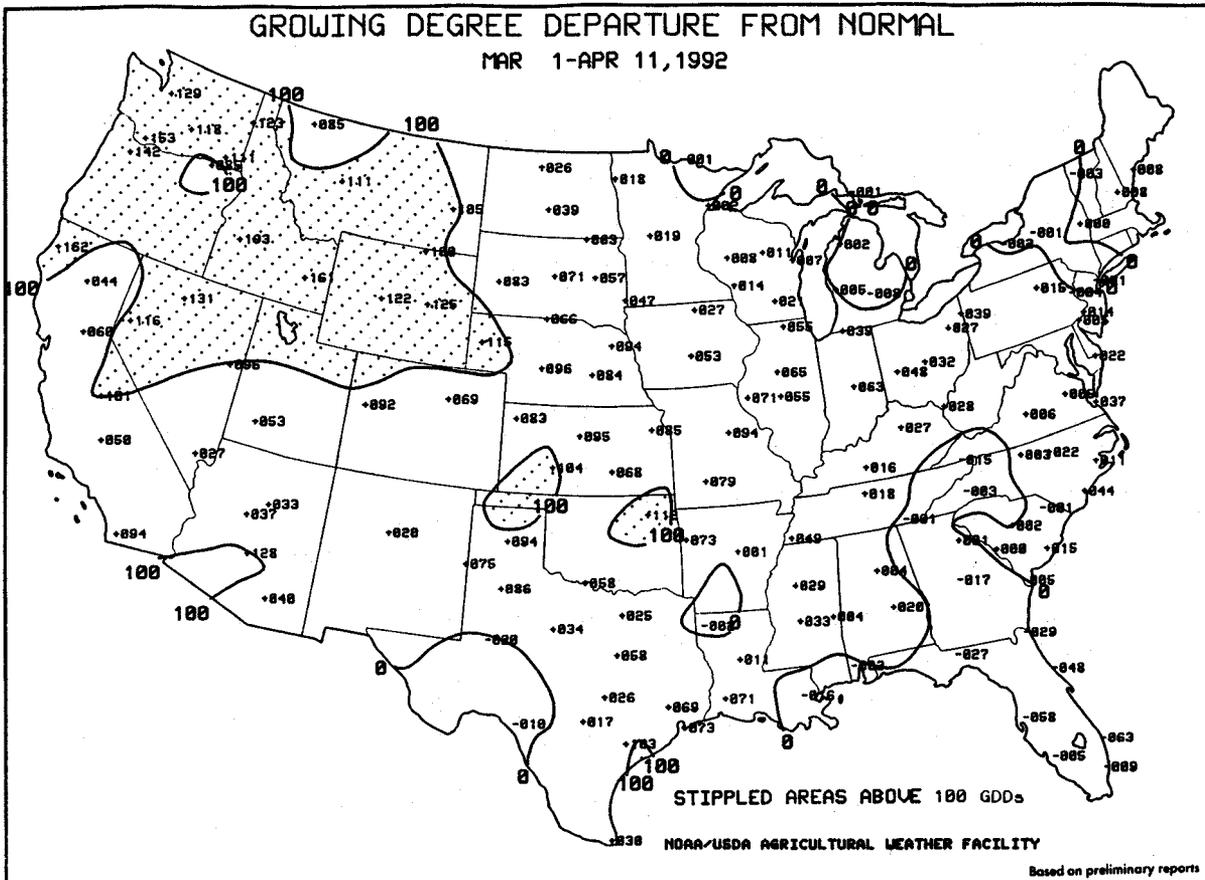
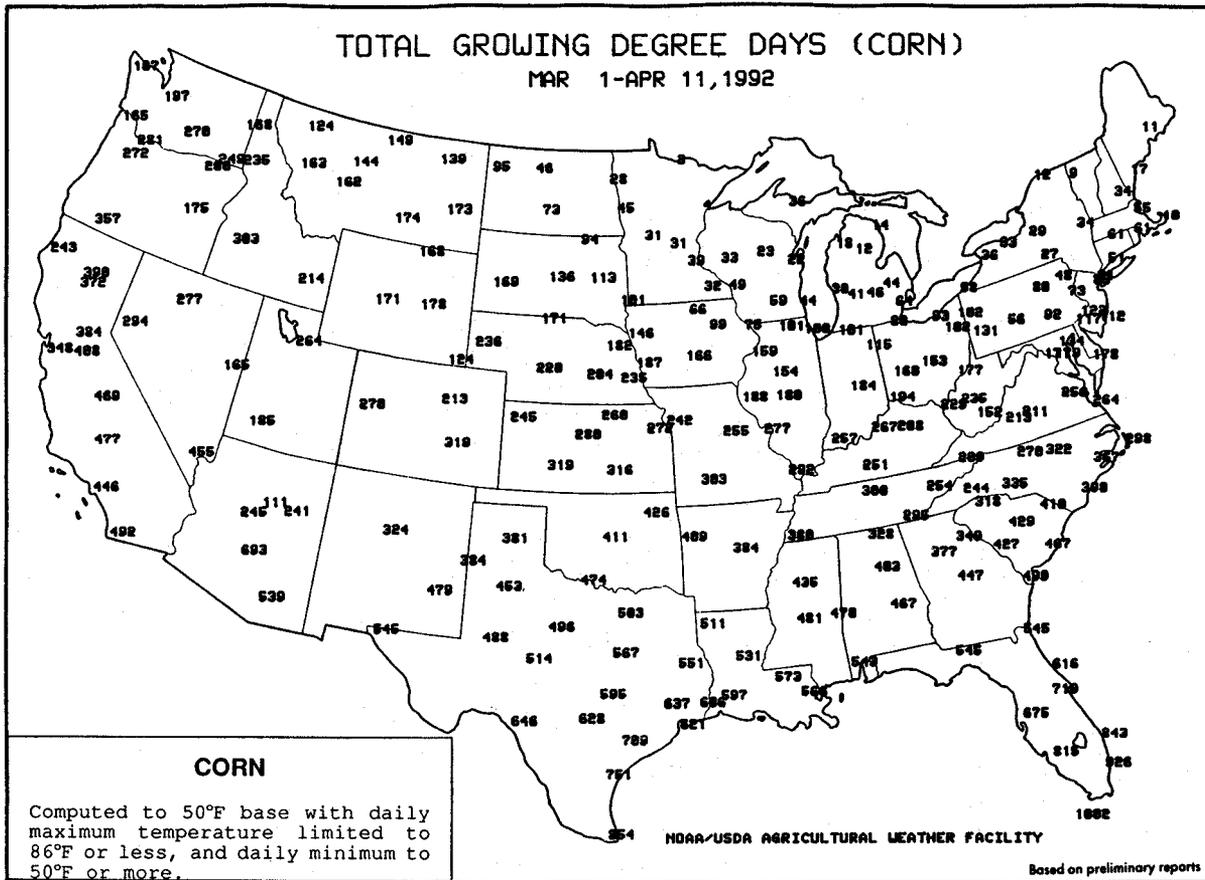
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Extreme Minimum Temperature(°F)

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National Weather Data for Selected Cities

Weather Data for the Week Ending April 11, 1992

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE		
AL BIRMINGHAM	74	48	83	32	61	0	.8	-.4	.7	4.1	48	11.9	64	89	40	0	1	2	1		
MOBILE	76	56	81	47	66	0	.5	-.8	.5	4.1	49	24.0	132	98	49	0	0	0	0		
MONTGOMERY	76	51	85	41	63	0	.3	-.7	.3	4.2	55	20.2	122	93	43	0	0	2	0		
AK ANCHORAGE	38	21	42	14	29	-3	.4	-.2	.3	.3	35	2.5	98	78	40	0	7	0	0		
BARROW	4	-12	21	-18	-4	2	.4	.0	.0	.2	71	.3	53	84	74	0	7	3	0		
FAIRBANKS	30	10	35	-6	20	-6	.4	.3	.5	100	2.0	136	89	55	0	7	4	0	0		
JUNEAU	43	26	46	23	35	-3	.3	-.3	.3	7.9	182	23.9	201	87	40	0	6	2	0		
KODIAK	45	29	50	25	37	2	.4	-.8	.4	5.6	109	16.8	104	72	41	0	6	0	0		
NOME	29	19	33	-7	24	10	.4	-.1	.4	1.2	156	2.1	101	90	72	0	7	0	0		
AZ PHOENIX	88	61	93	60	75	8	.0	-.1	.0	3.0	320	5.5	246	62	20	2	0	0	0		
PRESCOTT	72	40	78	39	56	7	.0	-.2	.0	1.6	153	5.2	183	68	18	0	0	0	0		
TUCSON	85	52	90	50	68	5	.0	-.1	.0	2.3	284	5.4	237	69	15	1	0	0	0		
YUMA	90	60	95	57	75	6	.0	.0	.0	1.6	863	2.9	353	--	--	4	0	0	0		
AR FORT SMITH	77	52	87	47	65	5	.3	-.6	.3	2.6	49	5.5	56	91	38	0	0	1	0		
LITTLE ROCK	72	53	83	46	62	2	.4	-.9	.4	8.0	121	12.1	84	82	49	0	0	1	0		
CA BAKERSFIELD	78	49	83	44	64	2	.0	-.2	.0	1.9	163	5.6	174	83	30	0	0	0	0		
EUREKA	60	48	64	40	54	5	1.0	-.2	.6	4.5	72	12.3	66	88	66	0	0	4	1		
FRESNO	78	48	82	44	63	4	.0	-.3	.0	2.1	103	8.8	146	84	28	0	0	0	0		
LOS ANGELES	68	59	69	57	64	4	.0	-.3	.0	5.3	245	11.6	150	90	68	0	0	0	0		
REDDING	67	45	73	35	56	-3	.5	-.3	.4	3.9	63	17.1	81	92	41	0	0	2	0		
SACRAMENTO	72	44	76	40	58	1	.1	-.2	.1	2.2	83	9.0	94	93	39	0	0	1	0		
SAN DIEGO	69	60	71	59	65	4	.4	-.2	.4	4.7	241	9.8	179	84	61	0	0	0	0		
SAN FRANCISCO	66	50	70	46	58	4	.1	-.3	.1	4.3	130	12.8	114	87	54	0	0	1	0		
CO DENVER	70	40	78	33	55	10	.4	-.4	.4	3.5	197	4.8	160	68	22	0	0	0	0		
GRAND JUNCTION	74	47	78	43	60	11	.4	-.2	.4	1.7	172	2.3	105	52	15	0	0	0	0		
PUEBLO	77	35	84	31	56	7	.0	-.2	.0	1.4	135	1.6	105	75	16	0	2	0	0		
CT BRIDGEPORT	56	39	64	32	47	1	.2	-.7	.1	3.9	73	7.9	68	74	38	0	1	3	0		
HARTFORD	58	36	67	28	47	1	.3	-.6	.3	4.2	73	9.1	73	65	25	0	2	2	0		
DC WASHINGTON	69	46	80	35	57	3	.1	-.6	.1	3.6	80	8.6	87	82	35	0	0	2	0		
FL APALACHICOLA	72	58	77	54	65	-1	.1	-.7	.1	2.2	42	17.5	138	--	--	0	0	1	0		
DAYTONA BEACH	76	59	82	51	68	-1	2.2	1.7	2.1	4.5	117	8.6	92	93	60	0	0	2	1		
JACKSONVILLE	75	52	82	41	64	-4	.8	-.1	.8	4.9	109	13.3	120	97	55	0	0	1	1		
KEY WEST	81	71	86	66	76	-1	.1	-.2	.1	3.1	187	4.6	85	88	65	0	0	2	0		
MIAMI	81	68	88	56	75	0	.4	-.2	.4	3.6	128	6.9	100	85	57	0	0	1	0		
ORLANDO	81	59	86	51	70	-1	5.4	4.9	4.9	9.1	222	12.9	136	96	48	0	0	3	1		
TALLAHASSEE	78	53	86	48	65	0	.1	-.9	.1	3.9	55	16.9	100	97	46	0	0	2	0		
TAMPA	81	61	85	56	71	1	.2	-.2	.1	1.1	28	6.3	67	95	49	0	0	3	0		
WEST PALM BEACH	79	66	82	54	73	-1	.9	-.2	.5	4.4	118	9.3	103	90	60	0	0	3	0		
GA ATLANTA	71	51	81	37	61	1	.4	-.7	.3	4.2	55	11.8	69	83	39	0	0	2	0		
AUGUSTA	74	44	84	31	59	-3	.4	-.4	.3	4.1	67	13.2	92	99	46	0	1	2	0		
MACON	73	49	81	34	61	-3	1.2	.4	1.2	4.8	73	15.3	99	96	46	0	0	1	1		
SAVANNAH	73	52	80	40	63	-2	.4	-.3	.2	4.4	88	13.2	116	95	48	0	0	2	0		
HI HILO	81	63	83	61	72	0	2.2	-1.0	1.3	7.5	40	10.2	24	91	55	0	0	2	2		
HONOLULU	83	65	86	64	74	-1	.0	-.4	.0	.7	17	2.5	23	85	49	0	0	0	0		
KAHULUI	82	61	85	58	72	-2	.6	-.3	.6	.9	28	4.3	42	93	55	0	0	1	1		
LIHUE	79	63	80	62	71	-2	.6	-.8	.4	4.3	74	8.7	55	88	61	0	0	1	0		
ID BOISE	61	37	74	27	49	3	.2	-.1	.1	.4	25	1.6	39	73	27	0	3	2	0		
LEWISTON	54	36	58	30	45	-3	.8	-.6	.4	1.3	89	2.7	72	84	42	0	2	3	0		
POCATELLO	60	35	68	20	47	5	.2	-.2	.6	.6	47	1.5	45	62	25	0	2	1	0		
IL CHICAGO	62	37	69	25	49	3	.5	-.5	.5	3.3	79	5.5	79	86	43	0	1	1	0		
MOLINE	66	37	79	26	52	4	.2	-.7	.2	1.2	30	4.3	61	84	37	0	1	2	0		
PEORIA	66	40	76	29	53	4	.3	-.7	.1	2.9	68	5.5	75	84	41	0	1	3	0		
QUINCY	67	41	79	32	54	4	1.3	-.4	.8	3.6	78	5.6	75	82	39	0	1	3	1		
ROCKFORD	60	37	69	23	48	3	.9	-.1	.9	2.9	70	5.2	77	86	38	0	1	2	1		
SPRINGFIELD	68	41	79	28	55	4	.9	-.1	.8	3.3	71	5.9	74	94	46	0	1	3	1		
IN EVANSVILLE	74	46	85	31	60	6	.4	-.1	.4	4.5	73	6.9	56	83	36	0	1	0	0		
FORT WAYNE	63	36	72	25	49	3	.5	-.4	.3	3.7	88	6.8	81	86	45	0	2	2	0		
INDIANAPOLIS	67	41	77	27	54	4	.7	-.1	.4	3.8	78	6.4	63	94	45	0	1	5	0		
SOUTH BEND	60	35	63	24	47	1	.2	-.8	.1	3.1	68	6.5	72	85	47	0	3	3	0		
IA DES MOINES	65	42	80	36	53	6	.7	.0	.3	2.8	86	5.9	109	83	46	0	0	5	0		
SIOUX CITY	63	39	76	30	51	4	.4	-.5	.4	3.5	143	4.9	120	84	42	0	1	1	0		
WATERLOO	61	37	75	32	49	4	.3	-.5	.2	2.6	74	5.1	97	86	43	0	1	2	0		
KS CONCORDIA	71	45	84	40	58	8	1.7	1.2	.8	3.7	143	5.3	130	91	42	0	0	3	2		
DODGE CITY	72	45	86	42	58	6	.4	-.4	.4	1.4	70	2.2	72	98	44	0	0	0	0		
GOODLAND	69	41	84	37	55	9	.2	-.2	.2	1.9	144	2.6	126	91	38	0	0	1	0		
TOPEKA	72	46	85	40	59	6	.1	-.6	.1	5.4	165	7.4	141	86	48	0	0	2	0		
WICHITA	73	49	79	42	61	7	.4	-.5	.4	3.6	125	4.7	106	91	56	0	0	0	0		
KY BOWLING GREEN	71	47	83	30	59	4	.4	-.1	.4	6.3	87	11.3	71	87	40	0	1	1	0		
LEXINGTON	70	48	81	30	59	6	.0	-.1	.0	5.1	80	10.6	79	81	37	0	1	0	0		
LOUISVILLE	73	49	82	33	61	7	.5	-.5	.5	6.5	104	10.2	79	79	33	0	0	2	0		
LA ALEXANDRIA	74	54	80	47	64	-1	1.5	.2	1.0	7.1	103	20.1	124	96	56	0	0	3	1		
BATON ROUGE	77	55	84	48	66	-1	.6	-.7	.4	5.0	76	22.3	136	97	52	0	0	3	0		
LAKE CHARLES	76	56	82	47	66	-1	1.5	.7	1.5	5.6	127	20.5	165	100	61	0	0	1	1		
NEW ORLEANS	76	55	81	45	66	-2	.7	-.3	.7	7.6	120	26.3	158	99	58	0	0	1	1		

Based on 1951-80 normals.

Weather Data for the Week Ending April 11, 1992

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	MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	75	53	84	46	64	64	0	T	-1.1	.2	5.9	109	17.0	130	97	55	0	0	0	0	0	
ME CARIBOU	41	26	50	19	33	33	-1	.3	-1.3	.2	3.0	90	9.5	121	79	38	0	7	4	0	0	
PORTLAND	52	32	64	27	42	42	-1	.9	-1.1	.9	4.8	88	13.0	101	80	28	5	5	1	1	0	
MD BALTIMORE	65	41	72	33	53	53	1	.1	-1.7	.1	4.7	95	8.4	77	80	34	0	0	2	1	0	
SALISBURY	70	41	83	32	56	4	T	.7	-1.8	T	3.6	68	9.6	79	87	29	1	1	0	0	0	
MA BOSTON	56	39	67	35	48	2	2	.2	-1.7	.2	3.8	69	9.2	69	69	30	0	0	2	2	0	
CHATHAM	50	37	59	33	44	1	0	.3	-1.7	.2	4.0	73	7.6	54	83	55	0	0	0	0	0	
MI ALPENA	49	27	63	23	38	8	1	1.2	-.6	1.0	2.7	97	6.1	104	92	44	7	7	3	3	1	
DETROIT	58	36	70	29	47	2	2	.3	-1.4	.2	3.7	100	7.0	96	83	43	0	2	2	3	0	
FLINT	54	34	63	25	44	1	0	.9	-1.1	.3	3.5	106	6.2	98	86	46	0	3	4	0	0	
GRAND RAPIDS	54	33	63	26	44	0	0	.9	-.0	.3	4.5	113	7.1	94	89	44	0	4	4	0	0	
HOUGHTON LAKE	48	28	60	18	38	-1	1	1.4	-.8	1.2	3.2	113	5.8	103	87	41	0	5	5	3	1	
LANSING	54	31	62	22	43	0	0	.8	-.1	.3	3.8	107	6.5	99	91	46	0	4	4	5	0	
MARQUETTE	45	24	61	17	35	0	0	.7	-1.1	.4	3.7	90	7.7	95	92	53	0	6	4	5	0	
MUSKOGON	51	31	59	24	41	-2	2	1.0	-.3	.9	3.3	90	6.1	78	93	47	0	5	5	3	1	
SAULT ST. MARIE	41	25	50	16	33	-2	2	.5	-.0	.2	2.1	75	6.1	90	90	56	0	7	7	3	0	
MN ALEXANDRIA	49	31	66	19	40	2	2	.8	-.4	.6	2.4	124	3.7	105	94	46	0	5	4	1	0	
DULUTH	43	28	52	17	36	0	0	.5	-.0	.3	1.4	54	2.5	55	88	37	0	6	5	4	0	
INT'L FALLS	42	26	52	15	34	-1	1	.1	-.2	.1	.7	44	3.1	96	86	47	0	5	4	0	0	
MINNEAPOLIS	54	34	64	24	44	1	1	.4	-.0	.3	2.0	84	3.3	80	92	38	0	4	3	0	0	
ROCHESTER	53	31	68	24	42	1	1	.5	-.1	.2	3.0	114	4.6	110	95	50	0	4	3	0	0	
MS GREENWOOD	75	54	84	49	64	2	2	.4	-1.0	.2	4.3	51	9.9	54	90	44	0	0	0	2	0	
JACKSON	76	51	84	45	64	1	1	.2	-1.1	.2	2.3	30	10.5	61	96	45	0	0	0	2	0	
MERIDIAN	76	53	84	45	65	2	2	.5	-.8	.5	4.8	55	15.9	86	93	42	0	0	0	2	1	
MO CAPE GIRARDEAU	73	49	82	35	61	-1	1	.1	-1.0	.0	3.4	51	8.7	68	87	40	0	0	0	3	0	
COLUMBIA	72	45	84	35	59	6	6	.4	-.5	.3	4.2	89	6.7	79	86	40	0	0	0	2	0	
KANSAS CITY	69	45	81	40	57	4	4	1.6	-.9	.9	5.4	142	8.6	137	89	51	0	0	0	2	2	
SAINT LOUIS	73	49	85	36	61	7	7	.2	-.7	.1	3.6	79	6.6	78	79	38	0	0	0	3	0	
SPRINGFIELD	75	49	83	39	62	8	8	.3	-.6	.3	2.6	52	5.6	65	87	36	0	0	0	1	0	
MT BILLINGS	46	30	51	20	38	-4	4	.8	-.4	.4	1.5	87	1.7	50	93	50	0	5	5	0	0	
GLASGOW	46	24	57	14	35	-5	5	.2	-.0	.1	.6	116	.9	75	87	29	0	6	5	0	0	
GREAT FALLS	41	23	50	17	32	-8	8	.3	-.0	.2	1.1	77	1.8	57	83	41	0	7	3	0	0	
HAVRE	44	23	54	16	34	-6	6	T	-.2	.0	.1	15	.3	17	83	36	0	6	0	0	0	
HELENA	47	27	51	21	37	-3	3	.2	-.0	.1	.8	79	1.2	56	73	37	0	5	2	0	0	
KALISPELL	48	28	54	19	38	-3	3	.1	-.1	.1	1.1	90	3.0	78	88	39	0	6	2	0	0	
MILES CITY	49	31	57	20	40	-2	2	.6	-.3	.3	1.1	104	1.1	52	88	41	0	4	4	0	0	
MISSOULA	47	30	53	25	38	-4	4	.5	-.3	.2	1.9	169	2.5	75	95	42	0	5	4	0	0	
NE GRAND ISLAND	69	42	81	36	56	9	9	.4	-.2	.3	3.4	140	6.1	165	86	38	0	0	0	3	0	
LINCOLN	72	42	81	37	57	9	9	.2	-.4	.2	2.7	92	5.0	108	88	38	0	0	0	1	0	
NORFOLK	67	41	83	33	54	8	8	T	-.4	T	2.5	114	4.6	131	81	40	0	0	0	2	0	
NORTH PLATTE	67	40	80	36	53	8	8	T	-.4	T	3.0	183	5.4	207	92	31	0	0	0	0	0	
OMAHA	67	44	79	35	55	6	6	.4	-.2	.3	4.1	142	6.6	145	85	51	0	0	0	0	0	
SCOTTSBLUFF	65	34	74	28	50	6	6	T	-.3	T	1.2	85	2.9	127	82	26	0	0	0	0	0	
VALENTINE	61	37	85	26	49	6	6	T	-.4	T	1.4	100	2.2	97	85	36	0	0	0	0	0	
NV BLY	67	28	71	24	47	8	8	.0	-.2	.0	1.3	112	2.5	97	63	15	0	6	0	0	0	
LAS VEGAS	82	56	87	53	69	7	7	.0	-.1	.0	4.8	>1000	6.6	461	65	20	0	0	0	0	0	
RENO	70	37	74	28	53	8	8	.0	-.1	.0	.7	79	1.3	41	56	13	0	3	1	0	0	
WINNEMUCCA	67	33	75	17	50	6	6	T	-.2	T	1.1	114	1.4	55	64	18	0	4	1	0	0	
NH CONCORD	53	30	63	22	41	0	0	.4	-.4	.4	3.1	76	6.4	68	74	31	0	0	0	1	0	
NJ ATLANTIC CITY	64	35	73	27	50	1	1	.1	-.7	.1	3.2	60	6.2	51	89	31	0	3	0	0	0	
NM ALBUQUERQUE	77	42	82	38	60	7	7	.1	-.0	.1	.7	111	1.5	106	56	13	0	0	0	0	0	
CLOVIS	78	45	86	41	62	7	7	T	-.1	T	.5	72	2.7	164	73	18	0	0	0	0	0	
ROSWELL	85	45	90	38	65	7	7	T	-.1	T	.3	64	1.9	144	64	14	1	0	0	1	0	
NY ALBANY	54	31	64	27	42	-2	2	.6	-.0	.6	2.3	57	5.4	62	79	35	0	5	1	1	0	
BINGHAMTON	53	33	62	27	43	1	1	.9	-.1	.7	4.2	104	7.9	88	88	43	0	4	4	3	1	
BUFFALO	52	34	60	28	43	0	0	.7	-.0	.6	4.1	101	8.6	90	89	43	0	0	0	3	0	
NEW YORK	59	43	69	39	51	2	2	.5	-.4	.3	4.6	84	7.4	63	71	39	0	0	0	3	0	
ROCHESTER	51	33	65	28	42	-1	1	.7	-.1	.6	4.4	127	7.8	95	87	46	0	2	3	1	0	
SYRACUSE	52	30	65	27	41	-2	2	1.1	-.3	.9	5.2	120	10.3	107	91	41	0	6	3	1	0	
NC ASHEVILLE	69	41	80	30	55	1	1	.8	-.1	.7	4.3	70	11.0	87	90	34	0	1	2	1	0	
CHARLOTTE	72	48	82	37	60	1	1	T	-.8	T	4.9	81	12.5	91	80	31	0	0	0	0	0	
GREENSBORO	71	43	82	29	57	1	1	T	-.7	T	2.9	57	9.4	78	87	32	0	2	1	0	0	
HATTERAS	68	52	77	42	60	2	2	T	-.7	T	7.9	154	16.5	117	88	47	0	0	0	1	0	
NEW BERN	74	48	83	36	61	1	1	T	-.7	T	3.1	68	11.9	93	91	34	0	0	0	0	0	
RALEIGH	74	45	85	29	60	2	2	T	-.7	T	3.1	65	9.1	77	89	29	0	2	0	0	0	
WILMINGTON	74	48	80	33	61	0	0	T	-.7	T	5.9	115	15.1	123	96	37	0	0	0	0	0	
ND BISMARCK	49	26	66	15	38	-2	2	.1	-.2	.1	.7	60	1.4	66	89	37	0	6	1	0	0	
FARGO	50	30	74	16	40	1	1	.2	-.2	.1	1.2	85	2.7	112	89	34	0	5	2	0	0	
GRAND FORKS	47	28	70	9	37	0	0	.3	-.1	.3	1.1	91	2.1	85	88	44	0	5	2	0	0	
WILLISTON	45	24	56	17	35	-4	4	.6	-.4	.4	1.2	122	1.8	91	92	36	0	7	3	0	0	
OH AKRON-CANTON	60	38	76	25	49	3	3	.5	-.3	.3	4.6	101	8.5	91	85	40	0	2	3	0	0	
CINCINNATI	69	45	79	29	57	6	6	.5	-.4	.2	5.0	95	8.9	80	83	37	0	1	3	0	0	
CLEVELAND	59	39	76	28	49	3	3	.4	-.4	.3	3.7	88	9.7	109	83	43	0	2	3	0	0	
COLUMBUS	66	42	78	27	54	5	5	.2	-.6	.2	3.7	84	6.4	68	90	38	0	2	3	0	0	

Based on 1951-80 normals.

Weather Data for the Week Ending April 11, 1992

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F			PRECIP.	
																		90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
DAYTON	66	40	78	26	53	4	.5	-1.3	.5	3.6	84	7.6	84	87	40	0	2	1	0	0		
TOLEDO	60	36	74	25	48	3	.2	-1.5	.1	3.5	93	6.9	91	88	43	0	2	2	0	0		
YOUNGSTOWN	60	37	76	23	49	4	.9	-1.1	.5	4.6	102	8.5	89	86	37	0	0	3	1	0		
OK OKLAHOMA CITY	76	54	83	44	65	7	T	-1.5	T	1.1	38	3.6	68	91	47	0	0	1	0	0		
TULSA	78	54	88	48	66	7	1.1	-1.2	1.1	2.5	55	4.3	56	90	43	0	0	2	1	0		
OR ASTORIA	54	39	57	34	47	0	1.8	.6	.8	3.8	41	18.8	67	96	63	0	0	4	1	1		
BURNS	55	30	65	14	43	1	.3	-1.2	.2	.8	72	1.9	52	88	30	0	3	3	0	0		
MEDFORD	63	42	69	29	52	3	.2	-1.1	.6	2.9	21	2.1	27	96	46	0	2	2	0	0		
PENDLETON	55	37	60	28	46	2	.6	-1.3	.5	.8	58	2.3	53	85	46	0	2	2	0	0		
FORTLAND	56	42	61	37	49	0	1.0	-.4	.5	3.1	69	11.5	79	98	64	0	0	6	0	0		
SALEM	57	42	63	35	49	2	1.3	-.7	.7	2.4	46	11.6	69	93	59	0	0	5	1	0		
PA ALLENTOWN	60	37	69	29	48	1	.2	-1.8	.1	3.5	65	6.7	57	82	39	0	1	4	0	0		
ERIE	56	37	72	27	46	3	.4	-1.4	.3	3.1	73	7.6	87	86	44	0	2	4	0	0		
HARRISBURG	63	43	70	32	53	3	T	-1.7	T	5.2	111	7.8	75	80	41	0	1	1	0	0		
PHILADELPHIA	64	42	74	35	53	3	.1	-1.8	.1	3.2	62	5.4	48	76	34	0	0	1	0	0		
PITTSBURGH	64	41	79	25	52	4	.1	-1.7	.1	3.8	80	7.7	76	85	42	0	2	2	0	0		
SCRANTON	58	36	67	29	47	1	.4	-1.3	.2	3.1	84	5.8	72	85	41	0	2	5	0	0		
RI PROVIDENCE	57	37	69	30	47	1	.3	-1.7	.2	4.3	75	11.2	82	74	31	0	2	2	0	0		
SC CHARLESTON	73	51	81	40	62	0	.2	-1.4	.2	3.8	72	11.1	91	96	46	0	0	2	0	0		
COLUMBIA	76	46	84	31	61	-1	.2	-1.7	.2	3.6	54	10.9	72	95	35	0	1	2	0	0		
FLORENCE	76	47	84	33	62	0	T	-1.7	T	2.2	41	7.7	62	91	33	0	0	0	0	0		
GREENVILLE	71	45	81	32	58	-1	.1	-1.0	.1	5.6	72	14.2	86	92	41	0	1	1	0	0		
SD ABERDEEN	57	34	83	27	45	4	.1	-1.3	.1	.6	39	1.8	64	82	34	0	4	4	0	0		
HURON	58	36	85	26	47	4	.6	-.2	.4	1.5	79	3.4	110	84	42	0	2	7	0	0		
RAPID CITY	57	33	67	22	45	3	.4	-1.1	.2	2.3	139	2.7	102	80	41	0	3	3	0	0		
SIOUX FALLS	57	36	77	26	46	3	.5	-.1	.5	2.9	123	5.4	142	87	48	0	2	3	1	0		
TN CHATTANOOGA	71	47	80	37	59	1	.4	-1.8	.3	5.2	64	14.2	78	94	42	0	0	2	0	0		
KNOXVILLE	70	45	82	30	57	-1	.3	-1.7	.2	4.3	61	11.5	72	95	45	0	1	3	0	0		
MEMPHIS	74	52	82	41	63	3	.4	-1.0	.4	7.4	98	11.5	69	88	39	0	0	1	0	0		
NASHVILLE	73	47	83	33	60	3	.2	-1.9	.1	4.7	64	10.2	64	90	41	0	0	3	0	0		
TX ABILENE	78	56	91	51	67	3	.4	-1.1	.4	1.7	94	7.2	187	91	42	1	0	1	0	0		
AMARILLO	76	46	85	38	61	7	.2	-.0	.2	1.4	122	2.2	100	93	27	0	0	1	0	0		
AUSTIN	78	59	83	54	69	1	.6	-.0	.6	6.1	229	17.5	259	98	58	0	0	1	1	0		
BEAUMONT	76	57	81	48	66	-1	2.1	1.2	2.1	5.9	133	23.5	182	100	62	0	0	1	1	1		
BROWNSVILLE	81	65	85	60	73	-1	.9	-.6	.9	2.3	240	7.8	209	98	61	0	0	1	1	0		
CORPUS CHRISTI	81	63	84	59	72	0	.1	-1.3	.1	5.6	424	15.2	344	98	61	0	0	1	1	0		
DEL RIO	80	58	89	47	69	-1	.5	-1.1	.3	3.4	274	9.1	344	83	44	0	0	3	0	0		
EL PASO	85	53	89	44	69	7	T	-1.1	T	.5	128	1.8	149	45	12	0	0	0	0	0		
FORT WORTH	77	56	83	47	67	3	.4	-1.5	.3	3.6	95	9.3	126	94	53	0	0	2	0	0		
GALVESTON	73	64	77	60	68	1	2.8	2.2	2.8	5.0	166	21.8	259	95	68	0	0	2	0	0		
HOUSTON	77	58	83	50	68	0	1.6	.8	1.4	8.0	204	21.7	201	98	57	0	0	3	1	0		
LUBBOCK	81	49	87	44	65	7	.3	-1.1	.3	2.0	169	5.3	253	97	31	0	0	3	0	0		
MIDLAND	80	51	91	46	66	4	.5	-.4	.5	1.6	230	5.4	325	94	32	1	0	3	0	0		
SAN ANGELO	78	56	90	45	67	2	.9	-.6	.9	2.0	151	7.6	275	95	46	1	0	1	1	0		
SAN ANTONIO	79	60	85	53	70	2	1.1	-.6	1.1	7.2	331	19.2	345	95	53	0	0	1	1	1		
VICTORIA	80	62	86	57	71	1	1.8	1.3	1.8	3.5	167	17.6	282	98	59	0	0	1	1	1		
WACO	78	57	85	47	68	2	.1	-1.7	.1	3.7	116	14.5	209	96	54	0	0	2	0	0		
WICHITA FALLS	79	51	88	41	65	3	T	-1.6	T	1.3	48	4.3	90	96	48	0	0	0	0	0		
UT CEDAR CITY	68	41	72	39	55	10	.0	-1.2	.0	2.0	139	3.5	121	66	26	0	0	0	0	0		
SALT LAKE CITY	67	42	78	35	55	8	.0	-1.5	.0	1.1	43	3.1	60	67	32	0	0	0	0	0		
VT BURLINGTON	47	31	58	25	39	-1	1.4	-.7	1.4	3.5	111	6.8	99	82	36	0	4	1	1	1		
VA NORFOLK	73	51	86	37	62	5	T	-1.7	T	2.8	57	9.3	78	76	29	0	0	0	0	0		
RICHMOND	74	44	86	28	59	3	T	-1.7	T	6.0	129	10.4	94	87	26	0	1	0	0	0		
ROANOKE	70	44	83	34	57	3	T	-1.7	T	3.0	62	9.2	84	75	29	0	0	2	0	0		
WA QUILLAYUTE	54	33	61	31	44	-1	1.8	-1.1	.9	4.5	30	35.7	85	99	53	0	2	3	2	0		
SEATTLE-TACOMA	54	38	60	35	46	-4	.5	-1.1	.2	2.4	53	13.4	90	96	49	0	0	3	0	0		
SPOKANE	50	30	56	24	40	-4	.2	-.0	.1	.7	38	4.5	78	93	42	0	5	3	0	0		
YAKIMA	56	29	63	15	42	-5	.3	-.2	.3	.8	99	1.7	57	91	38	0	5	2	0	0		
WV BECKLEY	65	43	79	27	54	8	.8	-.0	.4	5.7	108	10.0	84	88	33	0	2	4	0	0		
CHARLESTON	72	44	87	28	58	5	.2	-1.6	.1	5.6	105	10.2	85	87	29	0	2	4	0	0		
HUNTINGTON	71	44	83	27	57	3	.2	-1.6	.1	4.5	85	8.5	74	88	30	0	1	3	0	0		
PARKERSBURG	67	43	80	27	55	3	.5	-.4	.3	4.9	102	7.7	74	86	34	0	2	3	0	0		
WI GREEN BAY	53	31	64	24	42	1	1.1	-1.5	1.0	3.6	127	4.9	96	91	44	0	4	2	1	0		
LACROSSE	56	36	71	31	46	2	.7	-1.1	.4	4.4	149	6.1	127	84	41	0	2	3	0	0		
MADISON	56	33	69	23	44	1	.5	-1.2	.4	2.5	76	4.6	85	90	42	0	2	4	0	0		
MILWAUKEE	54	36	67	29	45	3	.5	-1.3	.4	3.3	85	5.9	86	89	46	0	1	3	0	0		
WAUSAU	52	30	67	26	41	1	.7	-1.5	.5	2.9	100	4.1	86	95	46	0	6	2	1	0		
WY CASPER	62	29	69	20	45	6	T	-1.3	T	1.3	89	1.8	72	81	20	0	6	1	0	0		
CHEYENNE	61	36	68	25	48	9	.1	-1.2	.0	1.8	136	2.3	107	72	25	0	1	3	0	0		
LANDER	62	34	67	24	48	8	T	-1.5	T	2.0	106	2.6	88	58	16	0	2	0	0	0		
SHERIDAN	51	31	64	26	41	0	.6	-.2	.3	1.6	90	1.8	54	91	47	0	4	5	0	0		

Based on 1951-80 normals.

National Agricultural Summary

April 6 - 12, 1992

HIGHLIGHTS: Needed rains fell in the Northwest, northern Rocky Mountains, and northern Great Plains, where soil moisture supplies had been of concern. Temperatures seasonally rose and averaged above normal across most of the Nation, promoting good early crop development. Spring planting activity increased nationwide.

SMALL GRAINS: Winter wheat condition continued to rate mostly good to fair for the 19 major producing States, despite mostly fair to poor ratings in Illinois, Indiana, Missouri, and Ohio. Crop condition deteriorated with mostly dry conditions in the central and northern Great Plains, but improved somewhat with rains in the middle Mississippi and Ohio Valleys. Extensive winterkill was becoming apparent in South Dakota, with winter wheat greening in the east and appearing spotty in the west. Heading of winter wheat advanced to 6 percent (%) of the acreage in the 19 major producing States, compared with 5% last year and the 5-year average of 4%. Heading progress showed rapid advancement in California, and notable gains in Georgia, Oklahoma, and Texas. Progress was, however, still well behind normal in Georgia. Spring wheat planting reached 21% complete in the 5 major States, 1 percentage point ahead of last year and 9 points ahead of the historic average. Planting surged 41 points during the week in South Dakota to 58% complete, with 63% complete in Idaho, and 36% complete in Montana. Seeding of barley and oats continued in the Rocky Mountains, northern Great Plains, and Central States, and began in Minnesota.

CORN: Corn planting progressed at a normal pace in most States, reaching 4% complete in the 17 major States, 1 point behind last year, but 1 point ahead of the historic average. Planting was 75% complete in Georgia, 44% complete in Texas, and 32% complete in North Carolina. Planting was gaining momentum in the Central States.

COTTON: Cotton planting was on the increase from Texas westward, carrying progress to 9% complete in the 14 major States, 1 point ahead of last year, but 3 points behind the average. Planting was also beginning in the Gulf Coast States.

GRAIN SORGHUM: Grain sorghum planting advanced to 17% complete in the 14 major producing States, 1 point ahead of last year and 2 points ahead of the 5-year average. Planting was over half complete in Texas and 20% complete in Arkansas. Progress continued to lag well behind last year and slightly behind the average in the Delta.

RICE: Rice planting accelerated in the South and reached 25% complete in the five major producing States. Planting progress was 8 points ahead of last year and 10 points ahead of the historic average. Blackbirds and

ducks continued causing problems in Louisiana and various fungi began to appear in the southwest part of the State.

OTHER FIELD CROPS: Alfalfa hay harvest was active in the Southwest, while some new fields were seeded in the North Atlantic region. Winter and early-spring potato harvests were underway in the Southwest and Southeast. Spring potato planting was nearly complete in North Carolina, and fall potato planting continued in the Pacific Northwest. Sugar beet planting continued in Colorado, Idaho, Montana, and Wyoming. Dry pea and lentil planting was over half complete in Idaho and Washington. Sweetpotato planting began in California's Merced-Atwater region, and safflower planting was underway.

FRUIT AND NUTS: Orange, grapefruit, and tangerine picking continued in Arizona. California navel orange picking was 75% complete, and Valencia orange harvest was underway in the desert and central valley areas. Lemon picking was active along California's southern coast. Florida Valencia harvest was increasing, grapefruit picking was slowing, and temple and honey tangerine harvests were ending. Maple sugaring continued in New England, and the resurgence of cold nights and warm days in New York kept sap flowing.

VEGETABLES: Arizona's lettuce harvest continued. Artichoke harvest was peaking along California's central coast, and asparagus packing continued in the Sacramento Valley, Delta, and Salinas Valley areas. Snap bean picking was active in the Coachella Valley. California broccoli, carrot, and cauliflower movement remained heavy. Iceberg lettuce harvest was in full swing in the Kern-Tulare district, continued in the Westside and desert areas, and was increasing in the Salinas-Watsonville and Santa Maria areas. Leaf and romaine lettuce harvest was seasonally increasing in Salinas-Watsonville. Needed rainfall came to Florida's vegetable growing areas, delaying some harvests. Florida's harvests of tomatoes, sweet corn, peppers, cucumbers, and cabbage continued as weather permitted. Summer vegetable planting was underway in the central Atlantic Coast States and Northwest. Onion planting was in full swing in the Rocky Mountains, and harvest began in Georgia. Oregon's rhubarb harvest started.

PASTURES AND LIVESTOCK: Rains across the Northern States, coupled with above-normal temperatures, improved forage development. Movement of livestock to spring pastures was underway in parts of the West.

Crop Progress

for the Week Ending April 12, 1992

COTTON (Percent Planted)				
	Current	Last Wk	1991	Avg.
AL	4	0	5	10
AZ	32	22	34	60
AR	0	0	0	0
CA	25	10	25	57
GA	1	0	3	2
LA	3	0	1	1
MS	1	0	4	2
MO	0	0	0	0
NM	17	1	10	17
NC	0	0	0	0
OK	0	0	0	1
SC	0	0	1	0
TN	0	0	1	1
TX	12	10	10	11
14 States	9	6	8	12

These 14 States produced 99% of the 1991 cotton crop.

CORN (Percent Planted)				
	Current	Last Wk	1991	Avg.
CO	0	0	0	0
GA	75	56	85	83
IL	4	0	5	1
IN	1	0	0	0
IA	0	0	0	0
KS	10	4	20	5
KY	3	0	1	5
MI	0	0	0	0
MN	0	0	0	0
MO	12	2	18	7
NE	0	0	0	0
NC	32	7	28	20
OH	1	0	1	1
PA	0	0	0	0
SD	0	0	0	0
TX	54	44	63	62
WI	0	0	0	0
17 States	4	2	5	3

These 17 States produced 94% of the 1991 corn crop.

GRAIN SORGHUM (Percent Planted)				
	Current	Last Wk	1991	Avg.
AR	20	5	5	4
CO	0	0	0	0
IL	0	0	0	0
KS	0	0	0	0
LA	10	2	42	15
MS	9	2	26	10
MO	0	0	0	0
NE	0	0	0	0
NM	0	0	0	NA
OK	1	1	1	2
SD	0	0	0	0
TX	52	44	50	48
12 States	16	13	16	NA
Excl. States with NA	17	14	16	15

These 12 States produced 98% of the 1991 grain sorghum crop.

Crop Condition (Percent)

for the Week Ending April 12, 1992

RICE (Percent Planted)				
	Current	Last Wk	1991	Avg.
AR	20	3	5	3
CA	0	0	0	0
LA	41	26	44	35
MS	18	4	10	8
TX	46	30	43	48
5 States	25	11	17	15

These 5 States produced 97% of the 1991 rice crop.

WINTER WHEAT (Percent Headed)				
	Current	Last Wk	1991	Avg.
AR	7	2	3	5
CA	50	15	50	63
CO	0	0	0	0
GA	18	8	62	53
ID	0	0	0	0
IL	0	0	0	0
IN	0	0	0	0
KS	0	0	0	0
MI	0	0	0	0
MO	0	0	0	0
MT	0	0	0	0
NE	0	0	0	0
NC	5	1	7	10
OH	0	0	0	0
OK	20	2	9	11
OR	0	0	0	0
SD	0	0	0	0
TX	14	6	16	10
WA	0	0	0	0
19 States	6	1	5	4

These 19 States produced 92% of the 1991 winter wheat crop.

	WINTER WHEAT			G	EX
	VP	P	F		
AR	5	1	17	68	9
CA	0	0	5	35	60
CO	2	4	15	61	18
GA	0	0	34	62	4
ID	1	12	25	48	14
IL	17	21	40	22	0
IN	29	36	34	1	0
KS	2	13	47	35	3
MI	NA	NA	NA	NA	NA
MO	11	30	50	9	0
MT	4	12	37	41	6
NE	2	21	42	29	6
NC	0	2	13	83	2
OH	10	20	42	25	3
OK	0	0	47	53	0
OR	0	5	26	58	11
SD	4	24	44	24	4
TX	0	0	23	60	17
WA	0	3	35	62	0
19 States	3	10	37	44	6

Prev Week 3 8 39 44 6
Prev Year 4 11 39 40 6

SPRING WHEAT (Percent Planted)				
	Current	Last Wk	1991	Avg.
ID	63	50	44	39
MN	7	2	18	11
MT	36	13	29	16
ND	7	3	10	5
SD	58	17	42	27
5 States	21	8	20	12

These 5 States produced 87% of the 1991 spring wheat crop.

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

State Summaries of Weather and Agriculture

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

ALABAMA: Rainfall 1.00 to 2.00 in. central; 0.50 in. or less elsewhere; 1.00 in. isolated areas. Temperatures 2 to 5° above normal. Highs mid 80s. Lows 40s most areas; 50s south.

Days suitable for fieldwork 4.8. Soil moisture 5% short, 80% adequate, 15% surplus. Acreage intended for spring planting 61% prepared, 69% 1991, 58% avg. Fieldwork progress 73% on schedule; 23% behind normal, 8 days avg.; 4% ahead of normal, 6 days avg. Corn 60% planted, 63% 1991, 61% avg. Sorghum 10% planted, 13% 1991, 13% avg. Cotton 4% planted, 5% 1991, 10% avg. Peanuts 2% planted, 5% 1991, 5% avg. Winter wheat 32% headed, 49% 1991, 40% avg.; 3% turning color, 6% 1991, 5% avg.; 1% poor, 29% fair, 70% good. Livestock feed now obtained from pastures 62%. Pastures 5% poor, 34% fair, 59% good, 2% excellent. Livestock 23% fair, 77% good. Primary activities: Preparing land for spring planting; planting corn, sorghum, cotton, peanuts, potatoes, vegetables; applying fertilizer, herbicides to hay fields, row crops; scouting wheat, potato fields; spraying fruit orchards, pecan trees; testing soil; general care, feeding of livestock, poultry, catfish.

ARIZONA: Sunny, warming statewide for period except few showers, east, 5th. Rainfall trace northeast to 0.31 southeast. Temperature 2 to 9° above normal. Extremes 27°; 85°, higher elevations, 41°; 95° deserts.

Cotton planted 32%, 34% 1991, 60% avg. Planting slow due to weather. Activities seedbed preparations, pre irrigation. Alfalfa condition mostly good; weed, insects moderate, harvest moderate. Small grains jointing, 100%, 98% 1991, 99% avg.; heading, 72%, 75% 1991, 72% avg. Condition good. Oranges, grapefruit, mixed vegetables harvested central, west. Lettuce, red potatoes, tangerines harvested central.

ARKANSAS: Temperatures a little above normal; scattered showers in central, south early-week. Extremes 34°; 89°. Rainfall none to 0.60 in.

Wheat fair to good. Some scattered reports of Barley Yellow Dwarf virus, Rust, Downy Mildew in east central. Wheat beginning to head. Rice planting in full swing. Corn, sorghum planting continues. Soil preparation in full swing. Pastures in fair to good condition. Hay fields behind in northwest due to dry weather. Livestock good. Tick, fly problems above normal in northwestern, west central.

CALIFORNIA: High pressure brought warm weather, clear skies, first half of week. Clouds, slightly cooler temperatures moved into north later in week.

Field activities progressed, open weather. Small grain growth excellent. Irrigation, herbicide applications ongoing. Rice ground preparation; stubble burning, isolated areas. Cotton planting full swing. Ground preparation corn, cotton, dry edible beans. Corn, safflower planting. Alfalfa, barley, oats, forage mixes green chopped. Sugarbeets thinned, weeded. Barley, sugarbeets treated aphids. Alfalfa hay harvest normal. Weevil treatments ongoing. Orchard floor work active including discing, mowing, fertilizing. Peach, plum, apricot, nectarine thinning active. Apples treated fireblight. Plums treated cut worms, aphids. Irrigation active cherries, almonds, grapes. Vineyards sprayed control mildew. New foliage and bunches began forming. Riverside County date pollination active. Navel oranges three-fourths

picked. Valencia orange harvest underway desert, central valley areas. Slow movement, above average fruit growth. South coast area lemon picking active. New crop citrus bloom heavy. Artichoke harvest seasonally peaking central coast. Asparagus packing continued Sacramento Valley, Delta, Salinas Valley areas. Snap bean picking active Coachella Valley. Broccoli movement heavy Salinas Watsonville, fairly heavy Santa Maria, good quality. Carrot digging continued central, south districts. Cauliflower supplies fairly heavy Salinas Watsonville, moderate Santa Maria, variable quality. Broccoli, cauliflower planted Patterson Newman. Celery planting active central coast, south districts excellent quality. Iceberg lettuce harvest in full swing Kern Tulare district; continued Westside, desert areas excellent quality. Packing seasonally increasing Salinas Watsonville, Santa Maria variable quality. Leaf, Romaine lettuce harvest seasonally increasing, variable quality Salinas Watsonville. Onions planted north district. Fall potato movement Tulelake Butte Valley moderate to light, ground preparation for new crop underway. Winter potato harvest continued south district. Strawberries picked central coast, south, Eastside districts variable quality. Sweet potato planting began Merced Atwater. Rangeland, pasture vegetation gained maturity. Volume, nutrients high. Conditions good to excellent. Ponds filling. Cattle returned to pasture. Supplemental feeding, movement light. Calving active.

COLORADO: Weak fronts passed through on 7th, 8th, lowering temperatures 5 to 10°, producing light, widely scattered rain. Another weak front moved through eastern part of the State on 11th with dense fog, clouds but little moisture. Temperatures 8 to 12° above average east, 5 to 8° above normal in San Luis Valley, west.

Days suitable for fieldwork 6.3. Soil moisture 1% very short, 15% short, 81% adequate, 3% surplus. Oats seeded 46%, 38% 1991, 24% avg.; emerged 15%, 18% 1991, 10% avg. Barley seeded 34%, 27% 1991, 31% avg.; emerged 19%, 18% 1991, 10% avg. Spring wheat seeded 23%, 10% 1991, 11% avg.; emerged 2%. Dry onions planted 59%, 52% 1991, 40% avg. Winter wheat 2% very poor, 4% poor, 15% fair, 61% good, 18% excellent; jointed 12%, 1% 1991, 2% avg. Sugarbeets planted 12%, 45% 1991, 24% avg. Cows calved 75%, 70% 1991, 69% avg.; ewes lambed 78%, 76% 1991, 69% avg. Death losses for calves, lambs below normal. Pasture, range feed condition good to excellent.

FLORIDA: Temperatures 1 to 3° above normal. Lows, low 50s Panhandle, upper 40s Big Bend, northeast, upper 50s central, south. Highs; upper 80s across the State. Rain reported on 1 to 3 days, north, 3 to 4 days central, south. Rainfall; under 0.50 in. Panhandle, Big Bend, over 2.00 in. isolated spots. Elsewhere, rainfall varied from less than 0.50 in. to over 5.00 in., with 1.00 to 2.00 in. common.

Soil moisture adequate to surplus in Panhandle, northern Peninsula, short to adequate central Peninsula, adequate southern Peninsula. Peanut planting started. Field preparation active for spring planted crops. Corn planting winding down. Cool weather slowing growth of corn, tobacco. Sugarcane making good progress. Citrus trees excellent condition. Rain most areas. Abundant new growth. Trees shedding new fruit they can't hold. Valencia harvest increasing for fresh, process use. Grapefruit movement slowing. Temple harvest all but over. Honey tangerine harvest

nearly complete. Caretakers cutting cover crops, hedging harvested groves, post bloom spraying trees of all ages. Needed rainfall came for vegetable growing areas. Weather delayed some harvesting southwest, east coast. Volume leaders: Tomatoes, potatoes, sweet corn, peppers, cucumbers, cabbage. Also available: celery, squash, snap beans, carrots, lettuce, radishes, eggplant. State's pastures fair to excellent. Pasture ratings, 15% poor, 35% fair, 35% good, 15% excellent. Moisture levels short to surplus. State's cattle herds fair to excellent condition.

GEORGIA: Temperatures couple degrees warmer than normal. Warmest upper 70s to mid 80s, warmer temperatures more common Southwest. Coolest generally 40s. Scattered thunderstorms early in week, again late. Rain 11th to 12th 0.50 in. or less. Local totals 1.00 to 3.00 in. with heavier thunderstorms.

Days suitable for fieldwork 4.6. Soil moisture 2% short, 80% adequate, 18% surplus. Corn 7% poor, 60% fair, 31% good, 2% excellent; warmer temperatures improved conditions, good planting progress. Sorghum 1% planted, 10% 1991, 6% avg. Peanuts 1% planted, 5% 1991, 3% avg. Tobacco 4% very poor, 5% poor, 74% fair, 16% good, 1% excellent; 60% transplanted, 85% 1991, 82% avg. Hail damaged several acres, some replanting necessary. Wheat 98% jointing, 97% 1991, 98% avg.; 70% boot, 89% 1991, 84% avg.; spraying for mildew. Other small grains 32% fair, 66% good, 2% excellent. Onions 16% fair, 84% good; 1% harvested, 4% 1991. Watermelons 1% very poor, 43% poor, 55% fair, 1% good; 64% planted, 85% 1991, 84% avg. Other vegetables 8% very poor, 17% poor, 53% fair, 22% good. Apples 20% fair, 80% good; 70% blooming, 71% 1991, 77% avg.; Most apples escaped freeze damage. Peaches 1% very poor, 1% poor, 61% fair, 37% good; 97% blooming, 95% 1991, 98% avg. More freeze damage showing up. Pastures 6% poor, 19% fair, 71% good, 4% excellent. Cattle, hogs fair to good. Activities: planting corn; fertilizing pastures, hay fields; care of livestock, poultry.

HAWAII: Variable weather prevailed; mixed effects on agriculture. Shower activity of different levels occurred. Leeward areas of Hawaii island received almost daily rainfall, aiding orchards, pastures suffering from weeks of dry weather. Irrigation water restrictions imposed major vegetable area, island of Maui, 6th. Some rain fell weekend, but more is needed. Temperatures high 50s to mid 80s. Rainfall none to 3.40 in.

Days suitable for fieldwork 7.0. Papaya supplies continued lower from Hawaii island, low rainfall reduced fruit set some plantings. Watermelon plantings made good progress, first harvest scheduled mid April. Insect population increase aided by dry, warm weather, spray programs generally effective.

IDAHO: Temperatures 5° below normal to 6° above normal. Precipitation was reported across State with over an inch falling in areas of north.

Days suitable for fieldwork 6. Soil moisture 15% very short, 37% short, 45% adequate, 3% surplus. Spring wheat emerged 30%, 12% 1991, 12% avg. Spring barley planted 57%, 39% 1991, 33% avg.; emerged 25%, 10% 1991, 12% avg. Oats planted 49%, 22% 1991, 23% avg. Sugarbeets planted 79%, 68% 1991, 56% avg. Potatoes planted 7% 5% 1991, 4% avg. Onions planted 53%, 94% 1991, 78% avg. Lentils 58% planted. Dry peas 58% planted. Irrigation water supplies 15% very poor, 27% poor, 21% fair, 37% good. Activities: Plowing, fertilizing, seeding spring crops. Pasture, range condition 79% of normal. Hay, roughage supplies mostly adequate. Calving 88% complete. Lambing 92% complete. Livestock reported in good condition.

ILLINOIS: Mild weather prevailed until the weekend, which brought colder air, some thunderstorms. Extreme temperatures varied from the mid 30s to mid 70s. Precipitation 0.20 to 0.75 in. Winter wheat 22% good, 40% fair, 21% poor, 17% very poor. Soil moisture was mostly adequate.

INDIANA: Temperatures 1 to 8° above normal. Highs upper 50s to mid 70s. Lows, mid 30s to upper 40s. Precipitation 0.10 to 1.00 in.

Days suitable for fieldwork 3.1. Topsoil 11% short, 80% adequate, 9% surplus. Subsoil 33% short, 63% adequate, 4% surplus. Spring cropland 70% tilled, 63% 1991, 71% avg. Wheat 4 in. high, 6 in. 1991, 6 in. avg. Wheat 8% jointed, 12% 1991, 13% avg. Oats 43% seeded, 40% 1991, 44% avg. Clover 67% seeded, 60% 1991, 63% avg. Hay, roughage 11% very short, 42% short, 47% adequate. Pasture 1% very poor, 23% poor, 49% fair, 27% good. Warmer weather improved pasture conditions.

IOWA: Temperatures 1° below normal northwest to 4° above southeast. Extremes 20°; 84°. Precipitation trace to 0.07 to 3.96 in.; State average 0.57 in., normal 0.71 in.

Days suitable for fieldwork 4.5. Topsoil 7% short, 84% adequate, 9% surplus. Subsoil 2% short, 88% adequate, 10% surplus. Winter wheat 7% very poor, 23% poor, 41% fair, 28% good, 1% excellent. Pasture condition 87% of normal. Oat 75% sown, 56% 1991, 54% avg. Oats 5% emerged, 3% 1991, 4% avg. Seedbed preparation 51% completed, 58% 1991, 58% avg. Fertilizer application 53% completed, 54% 1991, 54% avg. Livestock were in mostly good condition.

KANSAS: Temperatures 7 to 13° above normal. Precipitation light; none west central, southwest to 0.36 in. northeast.

Days suitable for fieldwork 5.5. Topsoil 45% short, 55% adequate. Subsurface moisture 35% short, 65% adequate. Jointing 60% complete, well ahead of normal. Short moisture causing wheat stress southwest, south central. Army cutworm, pale western cutworm, wheat curl mites, greenbugs present many central, western localities. Still some fertilizer, herbicide applications. Corn planting good progress, no stands emerged yet. Stockmen burning pastures. Ranges, pastures furnishing more roughage requirements as green-up occurs. Lambing, calving, farrowing about over.

KENTUCKY: Average temperature around 60°. Highs 72 to 75°, lows 32 to 40°. Mean rainfall 1.70 in.

Days suitable for fieldwork 4.3. Fieldwork 4 to 7 days behind normal east, less than 1 to 2 days behind west. Soil moisture 5% short, 84% adequate, 11% surplus. Tobacco beds 87% seeded, 98% 1991, 96% avg. Plants up 44% seeded beds, 50% 1991, 47% avg. Condition plant beds 4% very poor, 5% poor, 55% fair, 34% good, 2% excellent. Corn planting active extreme south, west. Wheat 10% poor, 40% fair, 48% good, 2% excellent. Alfalfa weevil population increasing.

LOUISIANA: Temperatures 0.1 to 2.5° below normal. Extremes 38°; 85°. Rainfall 0.05 in. northwest to 1.28 in. southwest.

Days suitable for fieldwork 5.0. Soil moisture 2% short, 87% adequate, 11% surplus. Corn 56% fair, 44% good; 89% planted, 91% 1991, 64% avg.; 66% emerged, 75% 1991, 45% avg. Rice 23% emerged, 23% 1991, 21% avg. Blackbirds, ducks continued causing problems in newly planted fields, various fungi began to appear, southwest. Hay 0% first cutting, 0% 1991, 0% avg. Spring plowing 69% complete, 62% 1991, 54% avg. Sorghum 1% emerged, 25% 1991, 7% avg. Sugarcane 29% fair, 71% good. Spraying herbicides and fertilizing, active. Sweet potatoes 0% planted, 3% 1991, 1% avg. Wheat 7% poor, 31% fair, 62% good; 66% headed, 70% 1991, 65% avg.; 0% turning color, 0% 1991, 0% avg. Livestock 36% fair, 62% good, 2% excellent. Pasture 3% very poor, 2% poor, 7% fair, 87% good,

1% excellent. Fertilizing active. Vegetables, 5% poor, 55% fair, 40% good.

MARYLAND & DELAWARE: MARYLAND: Precipitation 0.09 in. Temperature 50.6°, normal 52.1°. Extremes 17°; 80°.

Days suitable for fieldwork 5.8. Topsoil 33% short, 67% adequate. Subsoil 17% short, 79% adequate, 4% surplus. Potatoes 46% planted, 30% 1991, 47% avg. Green peas 65% planted, 59% 1991, 50% avg. Field preparation 29%, 39% 1991, 36% avg. Small grains fair to mostly good condition, barley beginning to head. Powdery mildew, aphids on wheat. Pastures good condition except western counties very poor to poor due to late cold weather. Hay demand high, short to adequate supply. Peaches 39%, apples 15%, strawberries 14% blooming. Activities: Beginning to plant corn, sweet corn melons, snap beans; planting tobacco, sweet potato beds; active field preparation; tune up machinery; preparing to apply N to small grain; marketing, caring for livestock.

DELAWARE: Precipitation 0.03 in. Temperature 50.2°, normal 52.4°. Extremes 30°; 73°.

Days suitable for fieldwork 6.6. Topsoil 50% short, 50% adequate. Subsoil 25% short, 63% adequate, 12% surplus. Green peas 60% planted, 40% 1991, 38% avg. Field preparation 49%, 21% 1991, 19% avg. Spring oats 45% planted, 14% 1991, 3% avg. Potatoes 38% planted, 61% 1991, 57% avg. Small grains good condition, none heading. Pastures in mostly good to excellent condition. Hay demand strong, short to adequate supply. Peaches 48%, apples 35% blooming. Activities: Planting green peas, spring oats; beginning to plant corn, sweet corn; buying seed, fertilizer; active preparation for spring planting; tune up, repair machinery; preparing to apply N to small grain; marketing, caring for livestock.

MICHIGAN: Cool weather prevailed last week. Temperatures 1 to 6° below normal. Extremes 7°; 56°. Precipitation none to 0.62 in. Sleet, snow fell in north on 10th, accumulation 4 to 8 in.

The muddy fields are drying slowly. Livestock conditions are good; calving, lambing are in full swing. Feed supplies are adequate. Activities: Spreading fertilizer, manure; marketing crops; removing brush from orchards.

MINNESOTA: Temperatures slightly above normal in south, 1 to 2° below normal in north. Extremes 5° Warroad; 77° Browns Valley. Precipitation 0.17 to 0.69 in., slightly below normal except in the east central areas, where up to 12 in. of snow fell on 10th. Extremes: 0.02 in. Faribault; 1.45 in. Aitkin.

Topsoil 1% very short, 11% short, 76% adequate, 12% surplus. Subsoil 3% very short, 20% short, 65% adequate, 12% surplus. Spring wheat estimated as 7% planted compared with 18% in 1991 and 11% normal. Oats 10% seeded, 9% 1991, 17% avg.; Barley 4% seeded, 13% 1991, 7% avg.; Sugarbeets 1% planted, 1% 1991, 3% avg. Green peas 4% planted, 2% 1991, 5% avg. Ground prepared for corn; 4% 1992, 2% 1991, 4% avg. Soybean ground prepared 1% 1992, 1% 1991, 2% avg. Fall seeded small grains 44% dormant, 10% poor, 44% good, 2% excellent. Date estimated for full scale fieldwork to begin is 17th.

MISSISSIPPI: Temperatures 62°, 0.2° below normal. Extremes 29°; 88°. Small amount of rainfall; State average 0.47 in., 0.87 below normal. Soil temperature 63°.

Days suitable for fieldwork 4.8, 1.8 1991, 2.7 avg. Soil moisture 12%, 79% adequate, 9% surplus. Corn 45% planted, 55% 1991, 41% avg.; 26% emerged, 45% 1991, 28% avg.; 9% poor, 68% fair, 23% good. Cotton 1% planted, 4% 1991, 2% avg. Peanuts 2% planted, 11% 1991, 5% avg. Rice 13% planted, 10% 1991, 8% avg.; 1% emerged, 6% 1991, 2% avg. Sorghum 9% planted, 26% 1991, 10% avg.; 3% emerged, 17% 1991, 4% avg. Watermelons

38% planted, 64% 1991, 40% avg. Wheat 87% jointing, 85% 1991, 91% avg.; 26% heading, 32% 1991, 28% avg.; 1% poor, 53% fair, 46% good. Peaches 43% poor, 41% fair, 14% good, 2% excellent. Livestock 9% fair, 85% good, 6% excellent. Pasture 94% of normal. Activities: Planting corn, preparing land for cotton.

MISSOURI: Temperatures 5° above normal. Rainfall 0.67 in.; ranged from under 0.40 in. east central, southeast to about 1.00 in. north central.

Days suitable for fieldwork 4.8. Topsoil 21% short, 78% adequate, 1% surplus. Subsoil 25% short, 73% adequate; 2% surplus. Ground worked at least once for spring crops 62%, 73% 1991, 58% avg. Oats sown 78%, 83% 1991, 74% avg. Corn planting varies 5% or less central, east central, northern districts to 57% southeast. Wheat growth resuming in fields set back by March, early April frosts, acreage losses expected to be above normal in some northern, east central counties. Pasture 6% very poor, 27% poor, 48% fair, 19% good.

MONTANA: Temperatures above normal beginning of week, fell to below by end of week. Some precipitation fell at various locations around the State.

Topsoil 57% short, 42% adequate, 1% surplus. Subsoil 62% short, 36% adequate, 2% surplus. Oats planted 24%, 12% 1991, 8% avg. Sugarbeets planted 18%, 36% 1991, 16% avg. Barley planted 41%, 31% 1991, 16% avg. Calving 79% complete, lambing 68% complete. Pasture, range growth rate 34% slow, 45% average, 21% above average.

NEBRASKA: Temperatures 1 to 6° above normal. Scattered precipitation varied from a trace in the Panhandle to 0.40 in. central.

Days suitable for fieldwork 5.7. Topsoil 7% short, 91% adequate, 2% surplus. Subsoil 13% short, 84% adequate, 3% surplus. Wheat 2% very poor, 21% poor, 42% fair, 29% good, 6% excellent. Oats sown 76%, 66% 1991, 62% avg. Corn planting started. Pasture, range 86% of normal. Spring calving 83% complete.

NEVADA: Disturbance at end of week brought generally less than 0.10 in. to northwest. Temperatures 5 to 10° above normal. Extremes 10°; 88°.

Planting spring crops continues. First cuttings alfalfa about finished extreme south. Considerable damage to some down hay from rain, unusual this area. Calving, lambing over half-way complete. Branding cattle, getting ready to move to summer pastures. Great concern for stockwater many areas; springs, streams are running dry.

NEW ENGLAND: Precipitation 0.35 to 1.60 in. north; 0.15 to 0.90 in. south. Temperatures mid 30s to low 40s north, low to high 40s south. Maximum temperatures low 50s north to high 60s south; minimums high teens north to mid 30s south.

Major activities: General repairs, maintenance, tending livestock, moving crops from storage. Maple sugaring continues throughout region.

NEW JERSEY: Temperatures near normal. Extremes 26°; 76°. Rainfall 0.39 in. north, 0.24 in. central; 0.18 in. south. Heaviest 24 hour total 0.64 in. on 10th, 11th. Estimated soil moisture, in percent field capacity, 98% north, 92% central, 90% south. Four-inch soil temperatures 45° north, 47° central, 49° south.

Field preparation, planting very active. Peach bloom just beginning. Some alfalfa seeding. Wintered over rye, wheat made much growth. Potato planting very advanced.

NEW MEXICO: Unusually warm with scarce precipitation. Temperatures generally 6 to 8° above normal except 9 to 11° warmer than normal northeastern, southeastern plains. Isolated stations received up to 0.10 in. precipitation.

Days suitable for fieldwork 6.8. Soil moisture 19% short, 81% adequate. Crop conditions: Alfalfa,

4% poor, 21% fair, 75% good. Irrigated wheat, 5% fair, 95% good. Dryland wheat 43% fair, 57% good. Onions, lettuce good. Cattle fair to good; sheep poor to good. Range condition 91% of normal.

NEW YORK: Temperatures near normal; precipitation was near or above normal. Coldest toward week's end with lows in the middle teens, 20s. Extremes 16°; 69°. Precipitation was above normal across the north, in some western, central areas. Thunderstorms rumbled from the southwest to the St. Lawrence Valley at week's end. Northern areas received up to 6 in. of snow. Precipitation 0.25 to 2.50 in. across the State.

Maple syrup producers continued collecting, boiling sap. Many thought the season had come to a close, but recent cold nights, warm days kept sap flowing. Spring plowing active on a limited basis. Caring for livestock, spreading manure, and maintenance work were the major activities.

NORTH CAROLINA: Temperatures 10° above normal. Extremes 26°; 85°. Precipitation none to 0.42.

Days suitable for fieldwork 5.7. Soil moisture 13% short, 87% adequate. Crop condition: Wheat 2% poor, 13% fair, 83% good, 2% excellent. Oats 17% fair, 81% good, 2% excellent. Barley 18% fair, 80% good, 2% excellent. Rye 15% fair, 83% good, 2% excellent. Pasture 7% poor, 31% fair, 62% good. Tobacco Plant Beds 2% very poor, 2% poor, 18% fair, 76% good, 2% excellent. Irish Potatoes 5% poor, 27% fair, 68% good. Peaches 13% very poor, 47% poor, 20% fair, 20% good. Truck Crops 8% poor, 23% fair, 69% good. Irish potato planted 97%, 94% 1991, 84% avg. Cabbage Planted 92%, 85% 1991, 75% avg. Corn Planted 32%, 28% 1991, 20% avg. Tobacco plant bed supplies 2% short, 93% adequate, 5% surplus. Hay, roughage supplies 3% short, 90% adequate, 7% surplus. Feed grain supplies 4% short, 92% adequate, 4% surplus. Livestock feed from pastures 49%. Major activities: Land preparation; tending tobacco plant beds; planting corn. Other activities: transplanting flue-cured tobacco; topdressing small grains, pastures; planting Irish potatoes, cabbage; tending livestock; transplanting Christmas trees; equipment repair.

NORTH DAKOTA: Warm weather gave way to cold with snow by weekend. Temperatures 5° below normal northwest, west central, to 1° above normal southeast. Snowfall 1 to 4 in. most areas. Precipitation 0.11 in. southwest to 0.36 in. northwest.

Topsoil 20% short, 77% adequate, 3% surplus. Subsoil 3% very short, 47% short, 50% adequate. Statewide starting date for spring field work was 11th. Hard red spring wheat 7% planted, 10% 1991, 5% avg.; durum wheat 1%, 2% 1991, 1% avg.; barley 3%, 9% 1991, 4% avg.; oats 6%, 5% 1991, 3% avg. Winter wheat 5% poor, 56% fair, 39% good; 41% dormant, 59% green. Winter kill 14% less than normal, 73% normal, 13% more than normal. Livestock mostly good; calving 76% complete, lambing 82%, shearing 88%. Nearly all range livestock received supplemental feed. Hay & roughage supplies 5% short, 86% adequate, 9% surplus. Grain concentrate supplies 91% adequate, 9% surplus. Pasture conditions 85% of normal; 86% dormant.

OHIO: Mild weather prevailed until weekend when cold air swept in. Clash of cold and warm air resulted in scattered thunderstorms. Maximums near 60° to the upper 60s; minimums mid 30s to mid 40s. Average temperatures 44 to 55°, 1 to 3° above normal north, 3 to 6° above normal south. Warmest on 10th, 11th; readings soared into 70s and lower 80s. Precipitation lightest northwest, heaviest northeast, south. Totals less than 0.25 in. northwest to near 0.50 in. elsewhere, which is 0.30 to 0.60 in. below normal.

Wheat condition mostly fair to good as continued cool snaps slowed growth. A very few fields have been destroyed, but sunshine and

warmer weather greatly improved condition of the remaining fields. Soil moisture is near perfect for good growth of fall sown grains, ideal for germination of spring planted grains such as oats. Corn planting is just beginning.

OKLAHOMA: Temperatures 5° above normal west central to 9° above normal southeast. Precipitation 0.02 in west central, southwest, Panhandle to 0.85 in. northeast.

Days suitable for fieldwork 6.5. Topsoil 59% short, 39% adequate, 2% surplus. Subsoil 64% adequate, 36% short. Wheat 47% fair, 53% good; 96% jointing, 79% 1991, 72% avg.; 20% heading, 9% 1991, 11% avg. Some freeze damage reported. Sorghum 44% planted, 57% 1991, 46% avg. Corn 11% excellent, 87% good, 2% fair; 21% planted, 30% 1991, 21% avg.; 10% emerged, 6% 1991, 4% avg. Crop insect activity light to moderate. Cattle condition good; marketings average; prices lower.

OREGON: Temperature within plus or minus 4° of normal statewide. Precipitation heavy statewide; heaviest along coast: 1.75 to 4.50 in.

Soil moisture, 39% short, 60% adequate, 1% surplus. Winter wheat condition, 5% poor, 26% fair, 58% good, 11% excellent. Barley 63% planted. Small grain seeding nearly complete; crop cultivation ahead of normal. Cherries, blueberries in full bloom, Willamette Valley.; prunes ahead of normal, Washington Co.; strawberry bloom slowed, red raspberry liming, fertilizing continued; hazelnut leaf rollers out; grape vines showing leaves. Onions planted, west; sweet corn early plantings emerged; peas good; early broccoli up; rhubarb harvest started. Field prep underway, east. Livestock condition good; late calves finishing; branding started; moving to spring pastures. Some ranchers hauling stockwater, Harney County. Statewide pasture, range 85% of normal.

PENNSYLVANIA: Above normal temperatures, below normal precipitation. Temperature 53°, 10° above normal. Extremes 18°; 79°. Precipitation 0.45 in., 0.36 in. below normal.

Days suitable for fieldwork 4. Soil moisture 22% short, 74% adequate, 4% surplus. Plowing 23% complete, 30% 1991, 23% avg. Corn 0% planted, 0% 1991, 0% avg. Oats 20% planted, 29% 1991, 24% avg. Potatoes 2% planted, 15% 1991, 12% avg. Tobacco beds 62% planted, 41% 1991, 51% avg. Barley 100% pre-boot, 99% 1991, 100% avg.; 0% boot, 1% 1991, 0% avg. Wheat 100% pre-boot, 100% 1991, 100% avg. Wheat crop condition 0% very poor, 8% poor, 30% fair, 51% good, 11% excellent. Hay stands mostly fair to good. Alfalfa first cutting 0% complete, 0% 1991, 0% avg. Feed from pastures 5% good, 36% fair, 27% poor, 32% very poor. Peaches 97% pre-pink, 68% 1991, 78% avg.; 3% pink, 23% 1991, 16% avg.; 0% full bloom or past, 9% 1991, 6% avg. Cherries 96% pre-pink, 72% 1991, 84% avg.; 4% pink, 19% 1991, 13% avg; 0% full bloom or past, 9% 1991, 3% avg. Apples 97% pre-pink, 92% 1991, 95% avg.; 3% pink, 8% 1991, 5% avg.; 0% full bloom or past, 0% 1991, 0% avg. Activities: Spring plowing; planting crops; fence repair; hauling manure; spreading fertilizer; maintaining machinery; caring for livestock.

PUERTO RICO: Rainfall 1.16 in. was 0.24 in. above normal. Highest rainfall was 4.49 in. at Ciales, 4.07 in. at Paraiso, 3.77 in. at Arecibo. Highest 24 hour total was 3.35 in. at Arecibo. Divisional temperatures 78 to 80° on coasts, 74 to 75° in. interior; mean station temperatures 70.3° at Maricao to 81.6° at San Juan. Extremes 57°; 93°.

SOUTH CAROLINA: Temperatures across the State 2 to 3° above normal. Average rainfall 0.20 in..

Days suitable for fieldwork 5.9. Soil moisture 7% very short, 26% short, 67% adequate. Tobacco fair; 18% planted, 34% 1991, 29% avg. Corn fair to good; 72% planted, 68% 1991, 64% avg. Watermelons fair; 58% planted, 65% 1991, 65% avg.

Cantaloupes fair to good; 43% planted, 49% 1991, 47% avg. Tomatoes fair to good; 86% planted, 64% 1991, 82% avg. Cucumbers fair to good; 43% planted, 55% 1991, 56% avg. Snap beans fair to good; 34% planted, 45% 1991, 38% avg. Oats fair to good; 16% headed, 22% 1991, 22% avg. Wheat fair to good; 5% headed, 19% 1991, 20% avg. Pastures fair to good. Some tobacco must be replanted due to frost damage. Some wheat disease.

SOUTH DAKOTA: Temperatures 0 to 5° below normal last week. Extremes 12°; 88°. Light showers fell for several days, turned to snow by the weekend. Amounts less than 0.10 in. northwest, near 0.33 in. elsewhere. Maximum 0.94 in.

Days suitable for fieldwork 4.9. Topsoil 11% critical, 42% short, 46% adequate, 1% surplus. Subsoil 8% critical, 35% short, 54% adequate, 3% surplus. Rye 2% very poor, 3% poor, 25% fair, 46% good, 24% excellent. Small grain seeding is ahead of normal. Blowing soil is causing concern across the State. Winter wheat winterkill averaged 26% across State. Winter wheat is greening in east and spotty in the west. Livestock: 1% very poor, 3% fair, 73% good, 23% excellent. Pasture 83% of normal. Cows calved, 56%. Dry, dusty conditions are causing concern in some areas.

TENNESSEE: Normal temperatures, below normal precipitation prevailed. Warmest west, central, averaging 5 to 8° above normal. Eastern areas normal to slightly above normal. Highest temperatures mainly 70s. Lows mid 40s east to mid 50s west.

Days suitable for fieldwork 4.2. Soil moisture 4% surplus, 89% adequate, 7% short. Corn 12% planted, 5% 1991, 8% avg. Tobacco 96% seeded, 94% 1991, 97% avg. Tobacco 64% plants up, 63% 1991, 68% avg. Livestock mostly good.

TEXAS: High pressure kept rainfall below normal all areas. Some severe weather, High Plains on 10th along dryline, only scattered rainfall. Similar occurrence northeast, 12th. Above normal temperatures; 1° above normal in Lower Valley to 7° above normal the High Plains.

Crops: Small grains continued to show good progress, prospects. Producers in High Plains scouting for insects, spraying some fields. Fields beginning to head. Some producers irrigating. Some fields were cut for hay Low Plains, Cross Timbers. Blacklands, Central Texas fields showing good progress, some fields beginning turn color. Fields in Hill Country benefited from scattered showers. Corn planting increasing in High Plains with few producers full swing. Most planting completed in Blacklands, Central Texas. Emerged fields showing good progress. Few fields being cultivated. Cooler temperatures at night slowed growth East. Corn condition rated 89% normal compared with 86% last year. Grain Sorghum planting increasing Cross Timbers. Fields Blacklands, Central Texas showing good progress; however scattered fields slower growth from cooler nighttime weather. Statewide condition rated 79% normal compared 81% last year. Cotton planting increased Blacklands, Central Texas under mostly drying conditions. Land preparation full swing in Plains. Upper Coast, scattered rain kept many producers out fields. Drying conditions Coastal Bend should improve progress, allow some replanting. Good progress occurred Valley. Planting beginning in Trans-Pecos. Rice planting delayed some along Upper Coast; planted fields emerging, good stands. Peanut planting just beginning on drier fields South Central Texas. Land preparations continued other areas. Other crops: Sugarbeets 41% planted; 7% 1991; 14% avg.

Commercial vegetables: In Rio Grande Valley, onion harvest continued; yields lower than earlier expectations. Harvest cabbage, carrots continued. Melons making good progress. Whitefly numbers still low. In San Antonio-Winter Garden,

cabbage, carrot harvest continued. Onions making good progress. Watermelons showing slow growth. In East Texas, tomatoes being set out. Cooler temperatures slowed growth. Land preparations for sweetpotatoes, melons continued. In Trans-Pecos, melons, onions making good progress. Chili planting continued. Irrigation continued. In High Plains, potatoes, onions making good progress under irrigation. Peach producers thinning crop in Hill Country, East Texas. Prospect look good. Some frost damage occurred in Cross Timbers past few weeks; however it helped thinning process. Pecan trees leafing out. Producers spraying zinc most areas.

Range and Livestock: Range, pasture conditions continued improve most areas. Forage availability good. Supplemental feeding decreased. Some wheat fields cut for hay. Livestock markets steady. Gains good to excellent. Spring shearing full swing Hill Country. Lambing percentages high.

UTAH: Temperature maximums 10° above normal; minimums 7° above normal. Very light precipitation in the mountainous areas; none elsewhere.

Days suitable for fieldwork 6.9. Soil moisture 58% short, 42% adequate. Spring wheat planted 84%, 69% 1991. Barley planted 83%, 67% 1991. Oats planted 57%, 49% 1991. Apricots 94% full bloom. Sweet cherries 84% full bloom. Tart Cherries 70% full bloom. Calving 75% complete. Lambing in farm, range flocks 84%, 37% complete respectively. Farm flock shearing 71% sheared, range flocks 56% sheared. Range, pasture conditions good to excellent.

VIRGINIA: Temperatures near normal. Extremes 22°; 90°. Snow fell in southwestern areas early in week; accumulations up to 11 in. in Carroll county. Precipitation generally below normal the first of the week to near normal by weekend.

Days suitable for fieldwork 5.4. Topsoil 19% short, 79% adequate, 2% surplus. Pasture 15% poor, 50% fair, 33% good, 2% excellent. Alfalfa 12% poor, 60% fair, 28% good. Barley 5% poor, 31% fair, 64% good. Wheat 3% poor, 31% fair, 66% good. Apples, peaches good. Tobacco planted 13% poor, 24% fair, 61% good, 2% excellent. Other hay 11% poor, 61% fair, 28% good. Corn 4% planted, 15% 1991, 8% avg. Spraying fruit trees, potatoes, fumigating fields for peanut planting, planting snap beans.

WASHINGTON: Temperatures 1 to 5° below normal west; 3 to 9° below normal east. Precipitation 0.22 to 1.81 in. west; none to 0.97 in. east.

Days suitable for fieldwork 5.4. Soil moisture 29% short, 70% adequate, 1% surplus. Hay, other roughage 1% short, 91% adequate, 8% surplus. Range, pasture 10% poor, 36% fair, 54% good. Winter wheat 3% poor, 35% fair, 62% good. Winter barley 51% fair, 49% good. Potatoes 20% planted, 21% 1991, 24% avg. Spring wheat 93% planted, 68% 1991, 65% avg.; 67% emerged, 41% 1991, 39% avg. Spring barley 90% planted, 54% 1991, 52% avg.; 50% emerged, 21% 1991, 21% avg. Dry peas 67% planted, 24% 1991, 32% avg. Weekly showers beneficial, but crop stress due to lack of moisture reported. Spring seeding winding down. Freeze damage slight to severe; most slight. Frost protection needed throughout week. Calving lambing nearly complete.

WEST VIRGINIA: Temperature 55°. Extremes 19°, 84°. Precipitation 0.37 in.

Days suitable for fieldwork 4.0. Soil moisture 8% short, 77% adequate, 15% surplus. Tobacco beds good, 46% planted, 18% emerged. Garden good, 15% planted, 3% emerged. Wheat good. Barley good. Corn 48% planted, 15% emerged. Oats 20% planted, 8% emerged. Hay 6% very poor, 47% poor, 17% fair, 30% good. Apple good. Peach good. Pasture 20% very poor, 9% poor, 37% fair, 31% good, 3% excellent; 59% of normal. Hay feed supplies adequate. Other feed supplies adequate. Cattle 28%

(Continued to p. 26)

International Weather and Crop Summary HIGHLIGHTS

April 5 - 11, 1992

FORMER USSR: Continued unseasonably mild weather stimulates further greening in winter grains. Beneficial precipitation covers western and northern crop areas.

EUROPE: Drier weather returns to the west. Beneficial rain falls in the southeast.

NORTHWESTERN AFRICA: Widespread, significant rain continues over Moroccan winter grain areas and spreads eastward into Algeria and Tunisia.

SOUTH AFRICA: Showers across the region are too light to spur winter wheat planting.

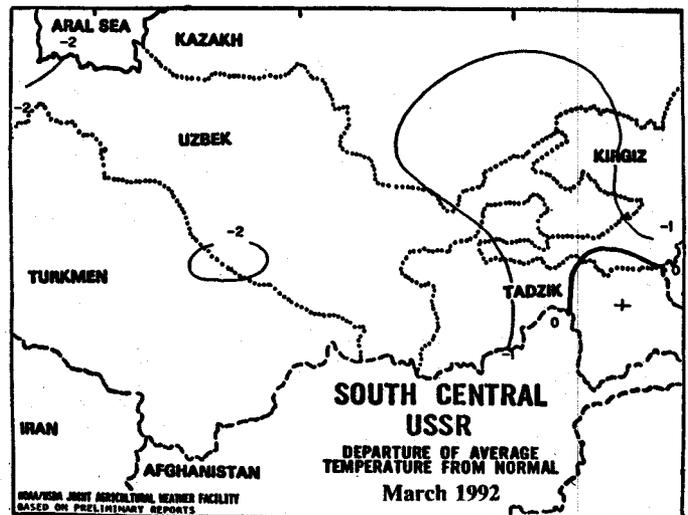
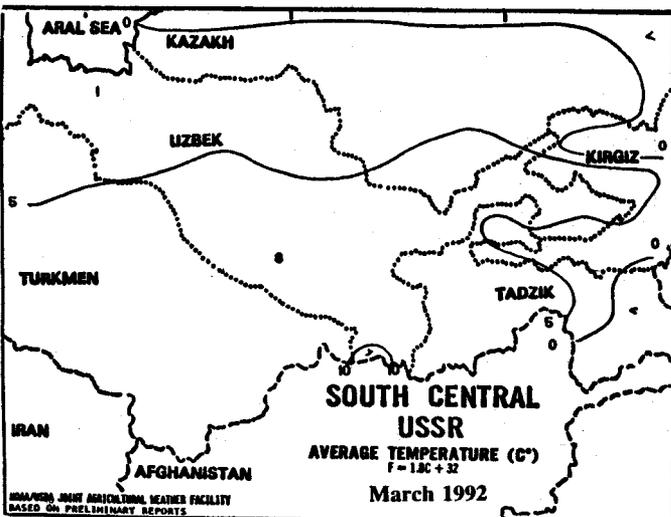
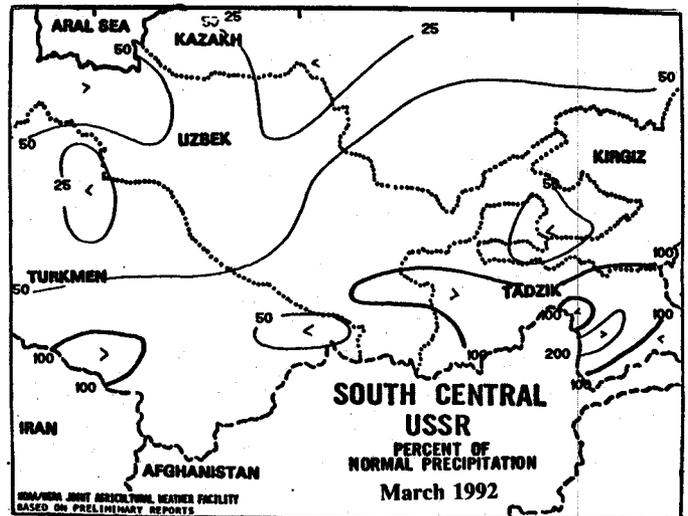
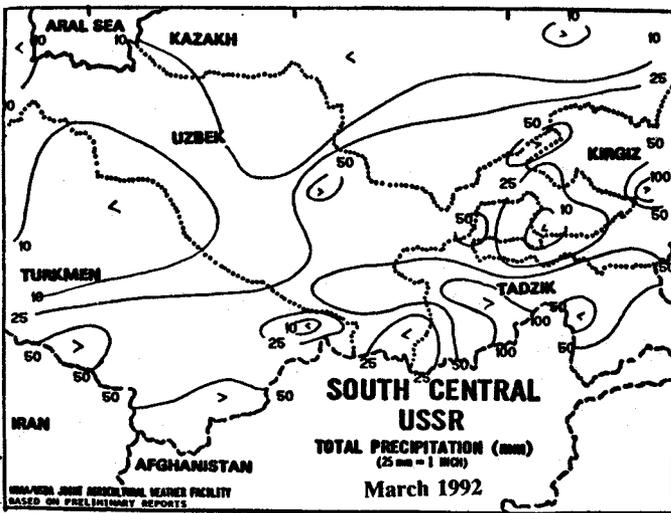
SOUTH ASIA: Rain and cool weather threatens Pakistan winter wheat quality.

EASTERN ASIA: Northern wheat areas receive beneficial rain but more is needed. Continued heavy rains cause additional flooding across extreme southern China.

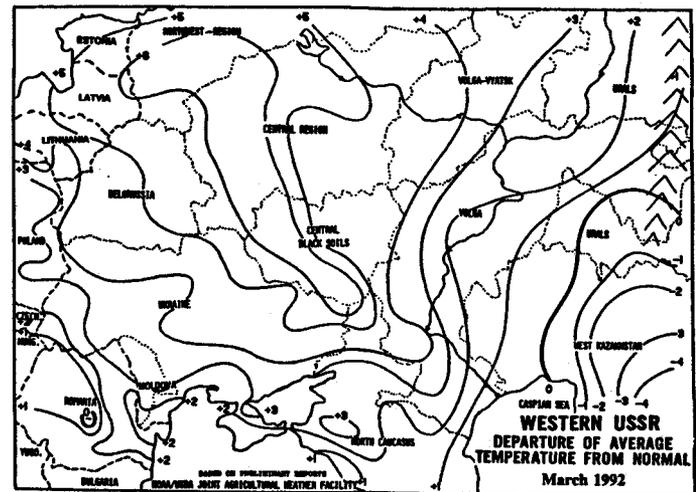
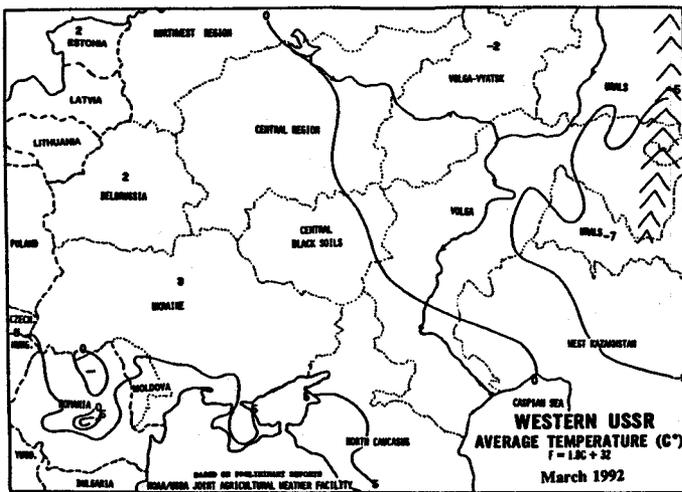
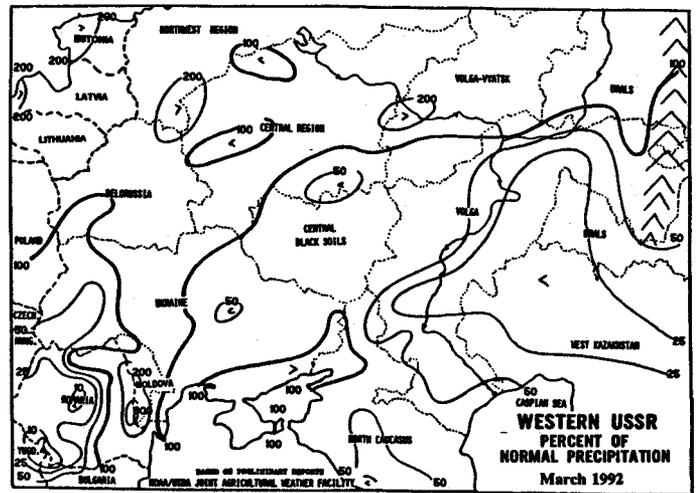
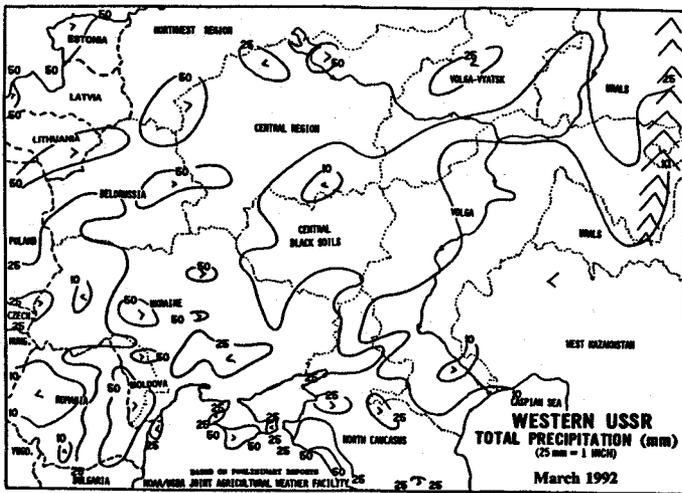
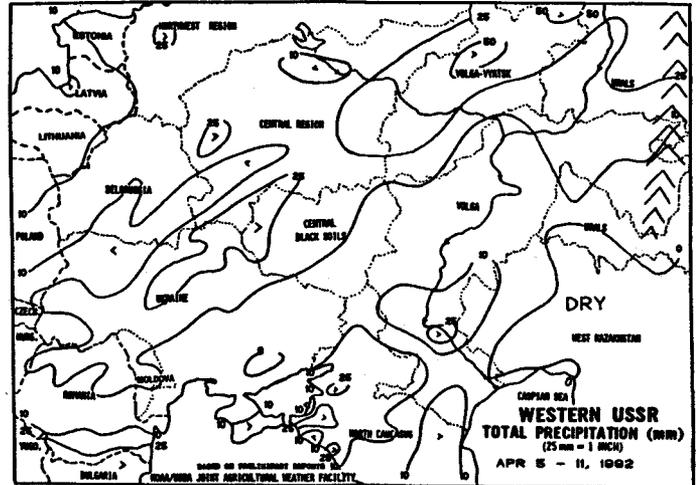
SOUTHEAST ASIA: Showers maintain favorable conditions across Indonesia and western Malaysia.

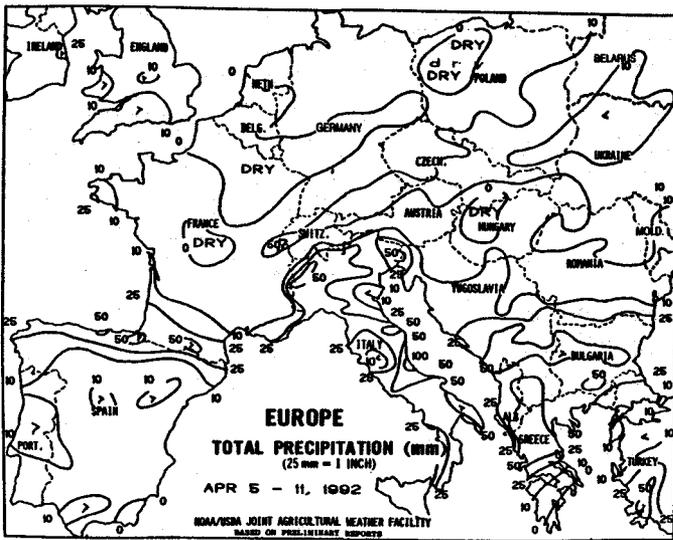
AUSTRALIA: Dry weather aids summer crop harvesting.

SOUTH AMERICA: Heavy rains delay soybean harvest in extreme southern Brazil. Favorable harvest weather continues across most of Argentina.

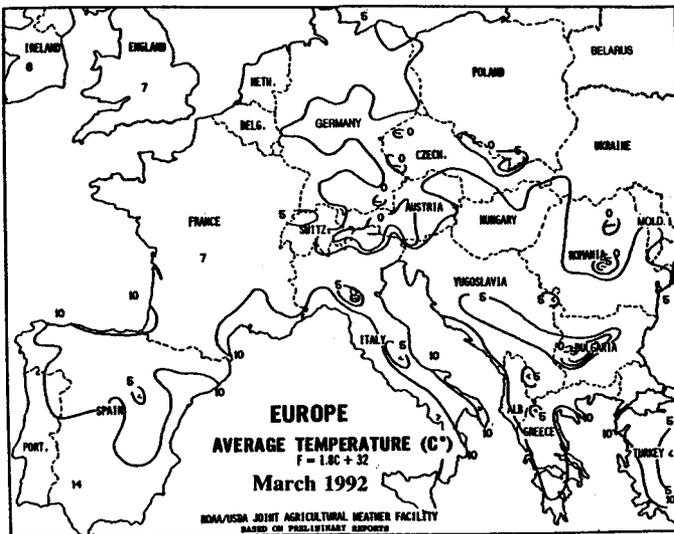
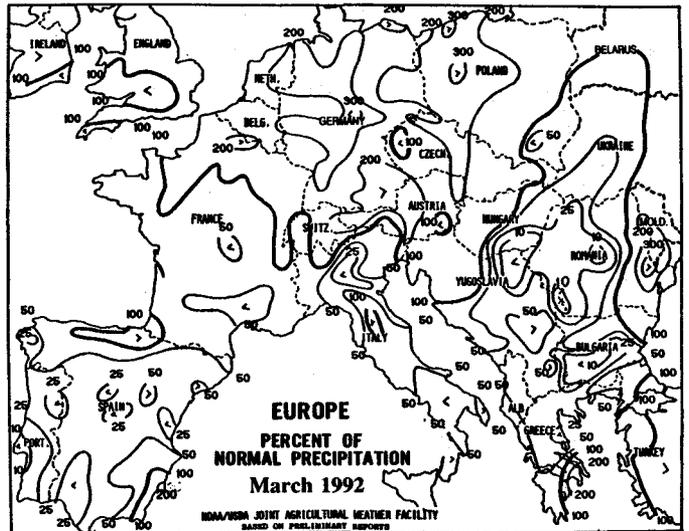
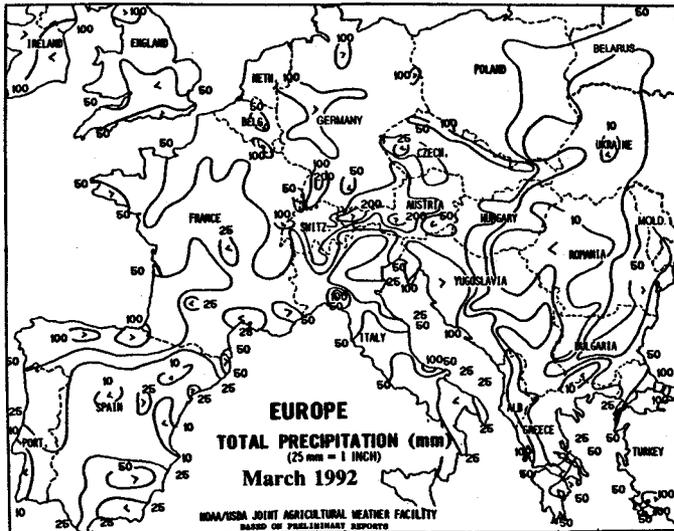


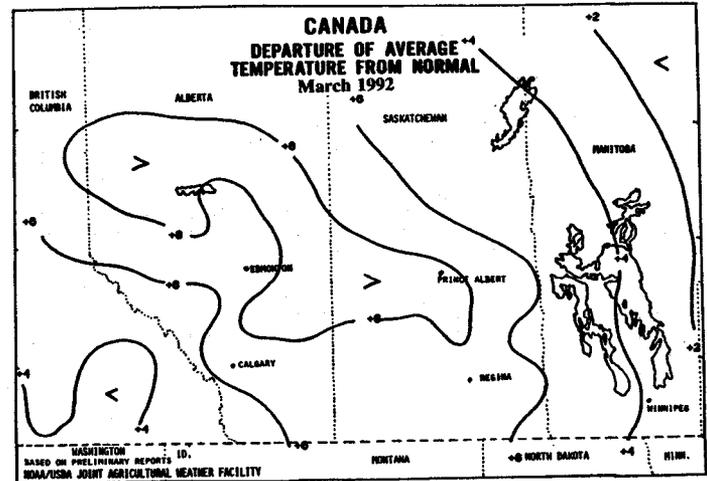
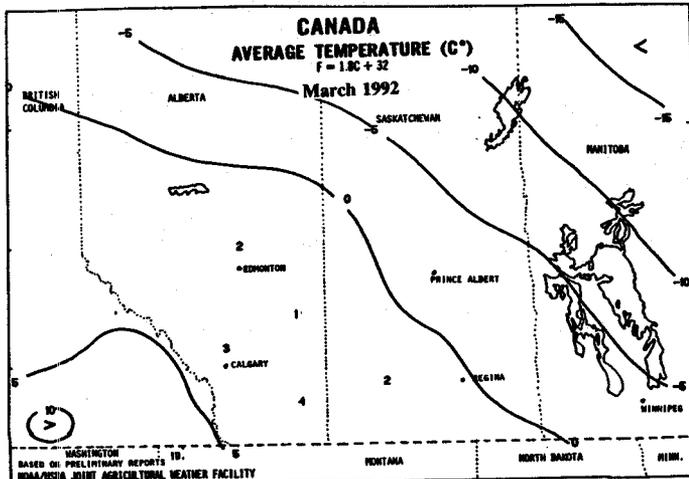
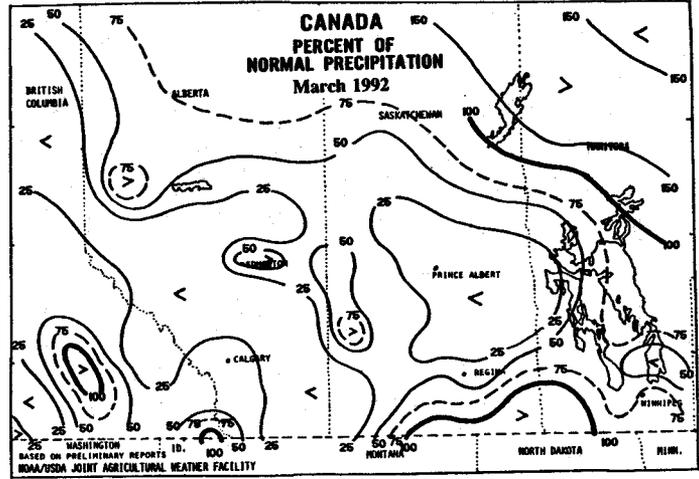
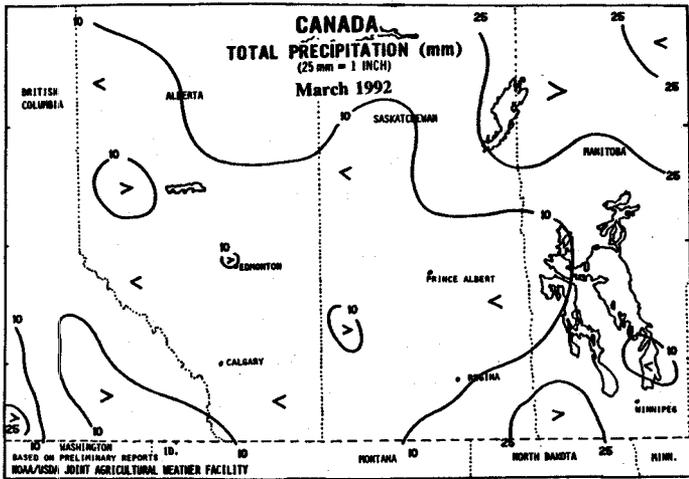
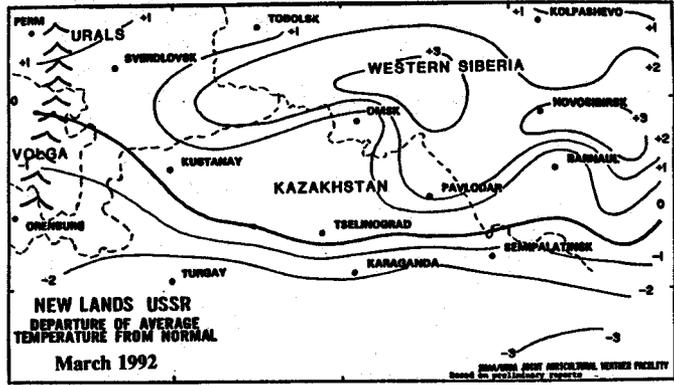
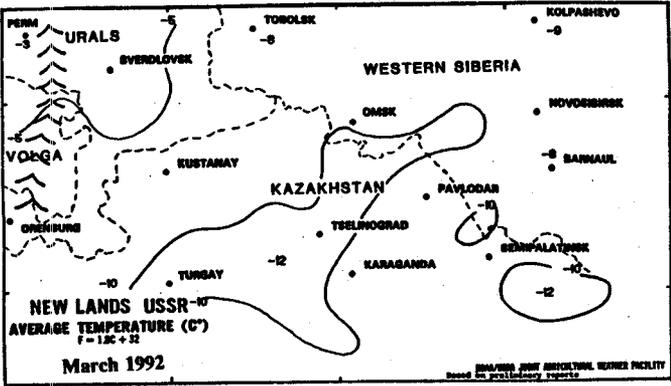
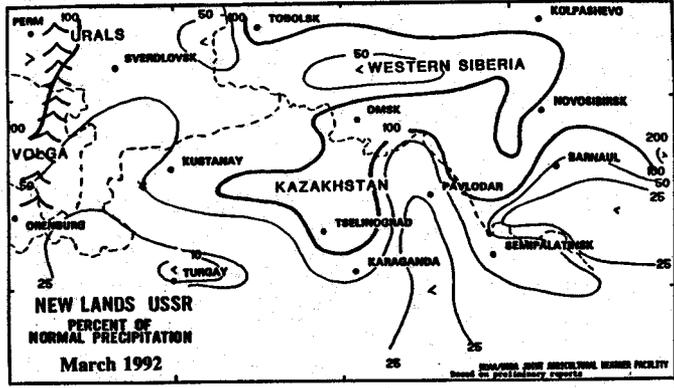
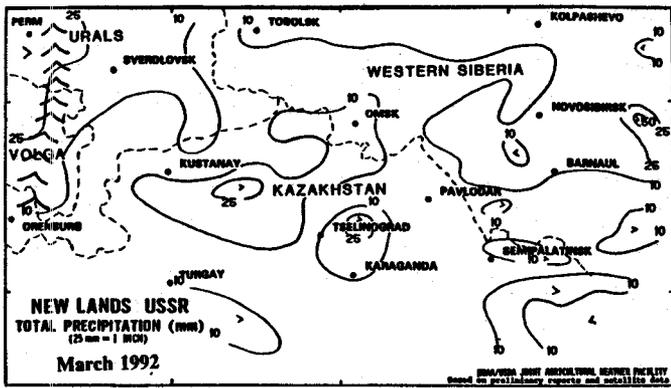
FORMER USSR: Temperatures continued above normal in Ukraine, Black Soils Region, North Caucasus, and lower Volga Valley, stimulating further greening in winter grains. Average weekly temperatures were 2-6 degrees Celsius (C) above normal in the east. By week's end, cooler weather spread eastward over the region, causing average weekly temperatures to dip 1-2 degrees C below normal in the northwest. Widespread precipitation (10-25 mm), with scattered amounts of 25-50 mm covered Belorussia, western Ukraine, Central Region, Black Soils Region, North Caucasus, lower Volga Valley, and Volga Vyatsk. Rainfall was light (1-10 mm) over eastern Ukraine and upper Volga Valley. Spring grain planting has become more widespread. In March, above-normal precipitation over Moldova and central Ukraine reversed a drying trend, improving moisture conditions for winter grains. Below-normal precipitation over most of North Caucasus, Volga Valley, and Black Soils Region helped to firm topsoils for spring grain planting. The weather was unseasonably warm, with average temperatures ranging from 3 to 6 degrees C above normal. Most winter grain areas lost snow cover, except in the northeast where snow cover remained moderate to deep. The mild weather promoted greening of wheat in Ukraine and North Caucasus.



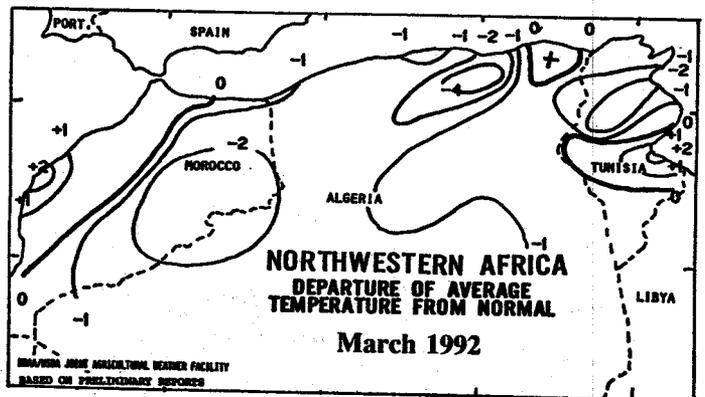
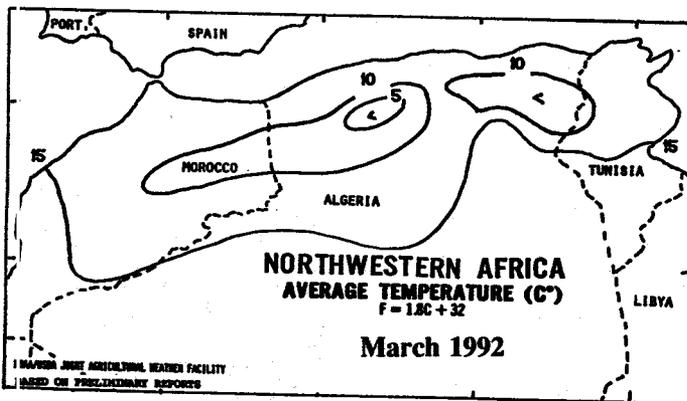
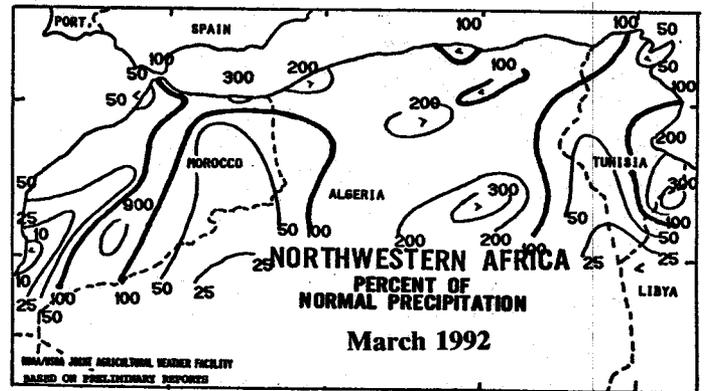
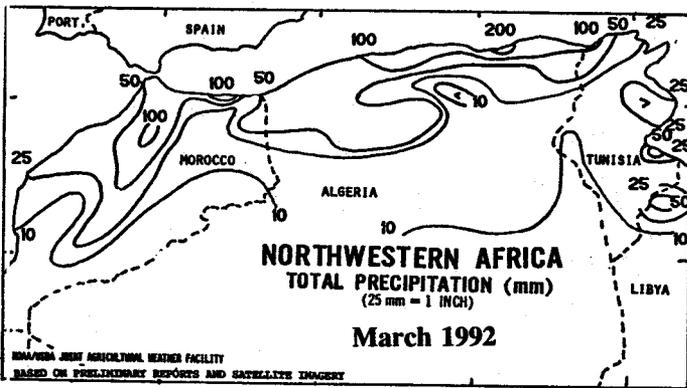
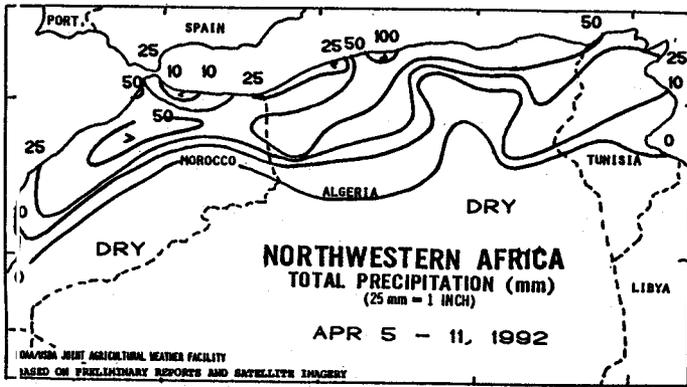


EUROPE: Drier weather prevailed over most of western and northern Europe, following the previous week's beneficial moisture. Weekly rainfall ranged mostly less than 10 mm, except for isolated heavier amounts (10-20 mm) in the Iberian Peninsula and along the Pyrenees. Widespread heavier rain (25-50 mm or more) improved conditions from Italy to Bulgaria and Greece. In contrast, dry weather extended from northern France to Poland, and in Hungary. The beneficial moisture in early April contrasts sharply with March's rainfall pattern. Well below-normal monthly rainfall covered the Iberian Peninsula, southeastern France, Italy's Po Valley, and much of southeastern Europe from eastern Hungary to Greece. Winter dryness had reduced moisture reserves for early-spring growth across southern Europe, and increased concern for growing conditions in the west. While conditions have improved recently in most areas, benefiting winter grain growth and spring crop plantings, soil moisture deficits remain a potential problem without further spring rains.

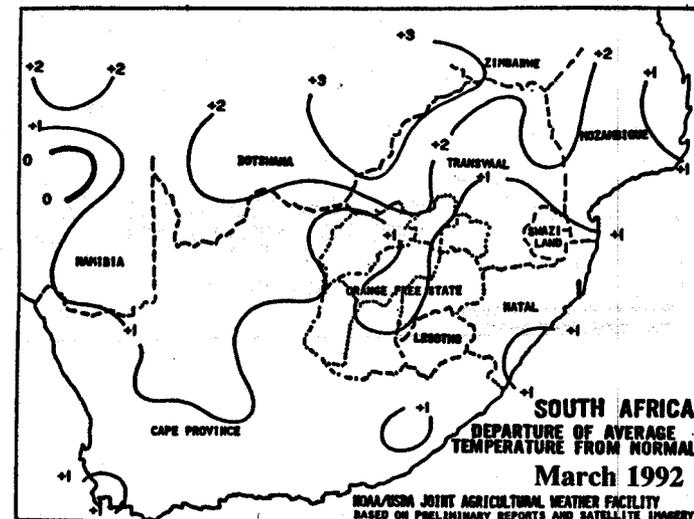
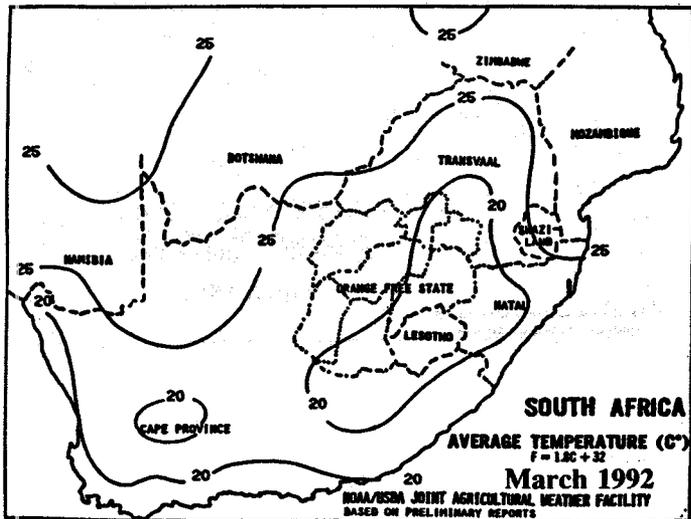
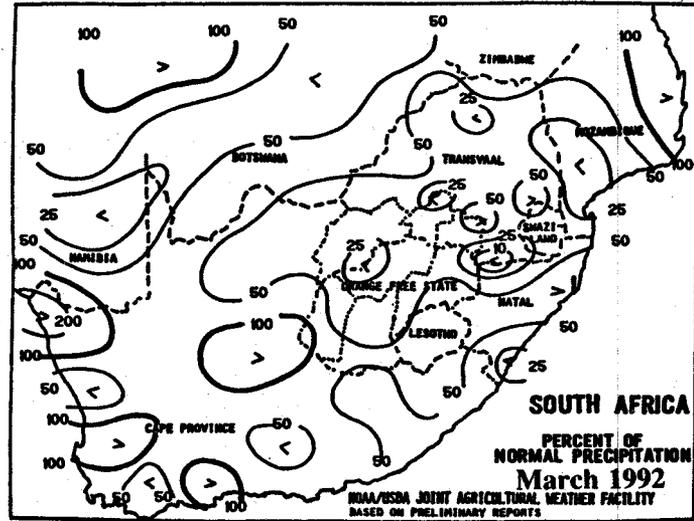
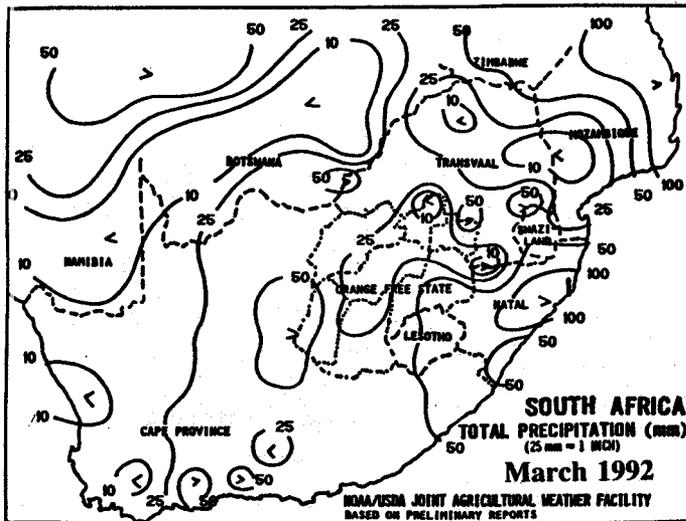
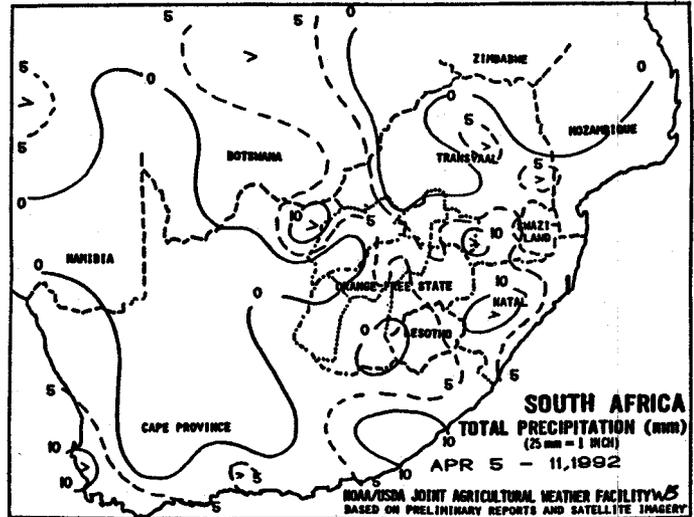


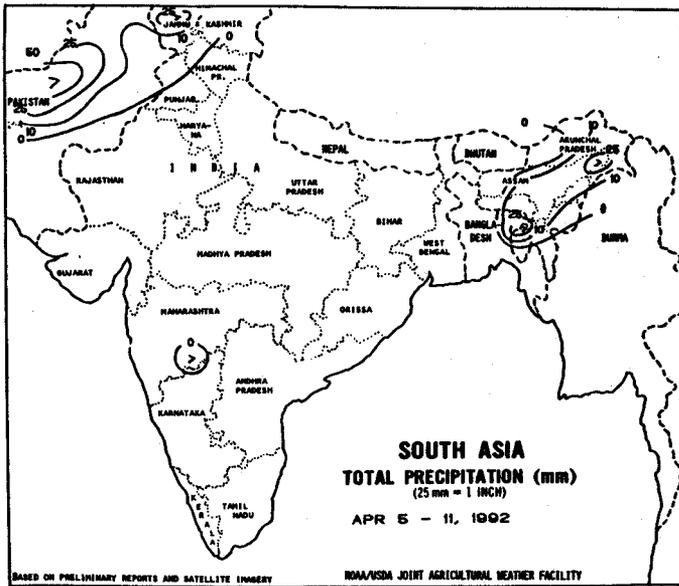


NORTHWESTERN AFRICA: Widespread, significant rain (10-52 mm) continued over winter grain areas in Morocco, and spread eastward over crop areas in Algeria and Tunisia. In Algeria, precipitation averaged 20-70 mm, with scattered amounts of 90-111 mm. In Tunisia, weekly rainfall ranged from 20 to 59 mm in the north to less than 10 mm in the south. This past week's rain over the region benefited winter grains in the filling stage. About March 24, a change in the previous unfavorable weather pattern brought significant precipitation to Moroccan grain areas, easing adverse drought conditions. Northern crop areas received greatest amounts of rain (50-100 mm), with lesser amounts falling over southern areas (10-25 mm). While the rain came too late to substantially improve yield prospects for winter grains already damaged by prolonged dryness since early November, the moisture halted further deterioration in crop conditions. In Algeria, above-normal precipitation maintained favorable yield prospects in central and eastern areas and improved prospects for reproductive to filling crops in the west. In Tunisia, below-normal precipitation (50-77 percent of normal) reversed February's much above-normal rainfall, limiting yield prospects for crops advancing through reproduction.

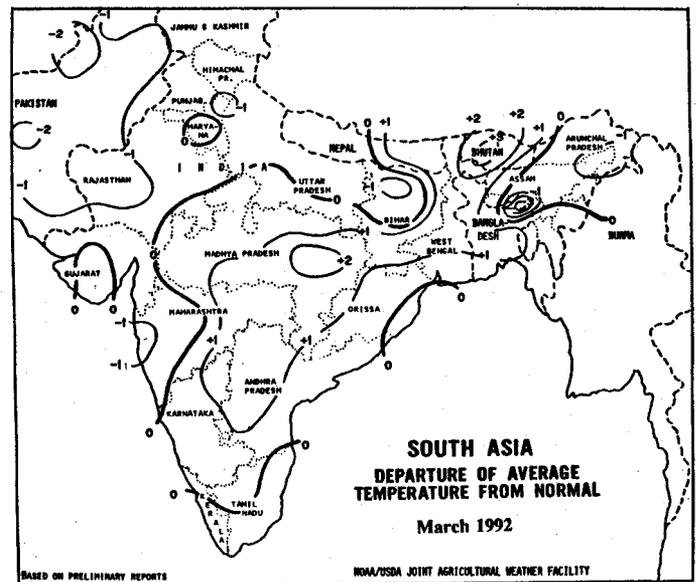
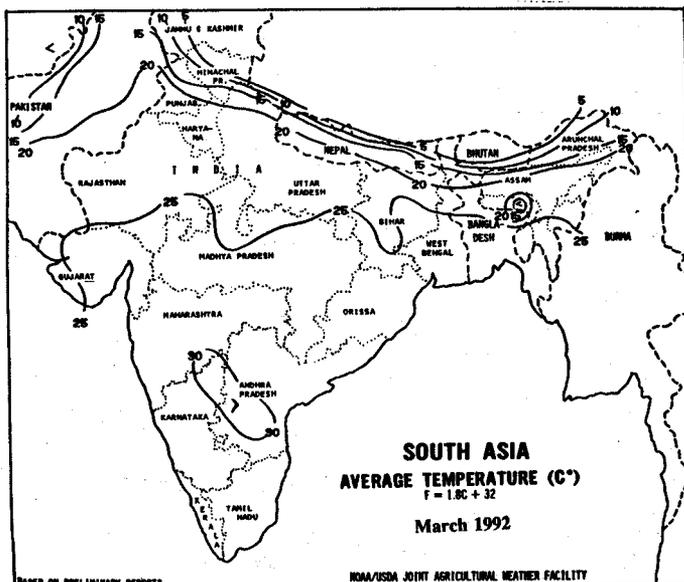
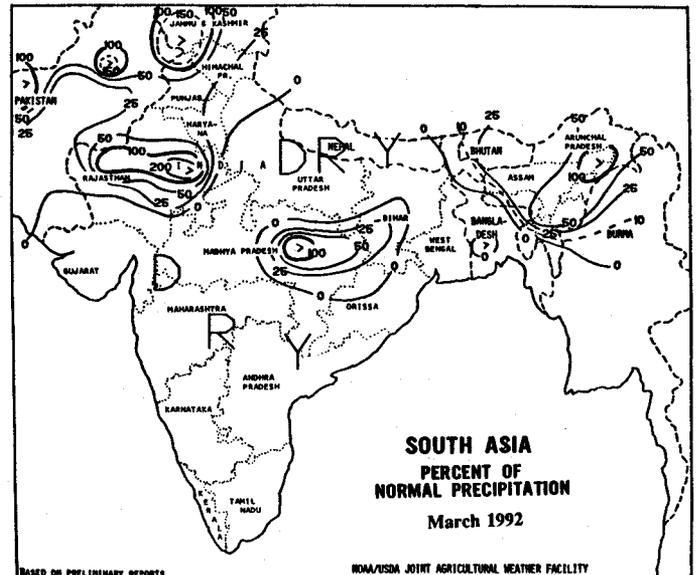
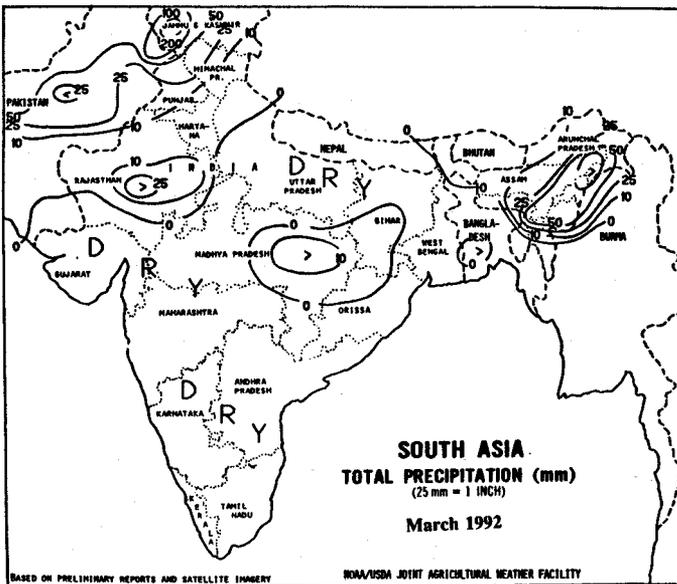


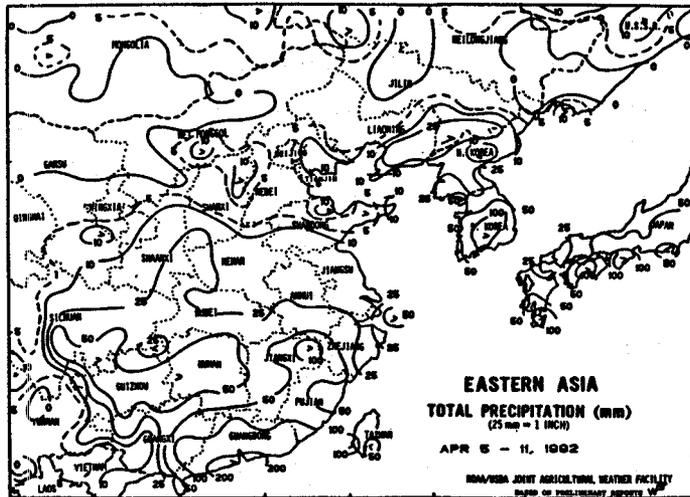
SOUTH AFRICA: Scattered, light rain (1-19 mm) was widespread across the region, with most winter wheat areas receiving insufficient amounts. Temperatures 2-4 degrees C above normal were favorable for maturing summer crops. During March, rainfall was sporadic and temperatures were consistently near to above normal, prompting further deterioration of drought-damaged corn. Rainfall was below 50 percent of normal in most corn areas, but some eastern crop areas received totals closer to normal. Temperatures were 1-2 degrees above normal in most corn areas but seasonal cooling occurred.



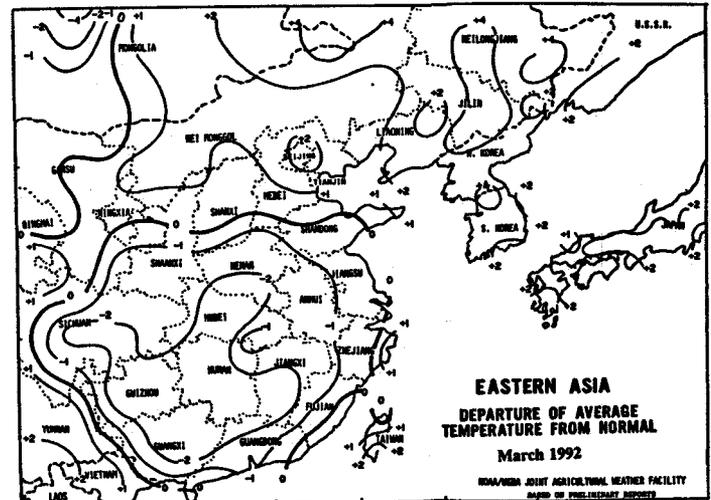
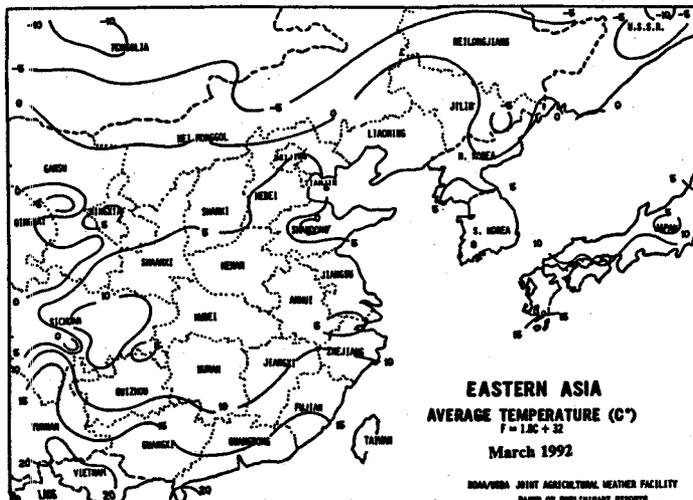
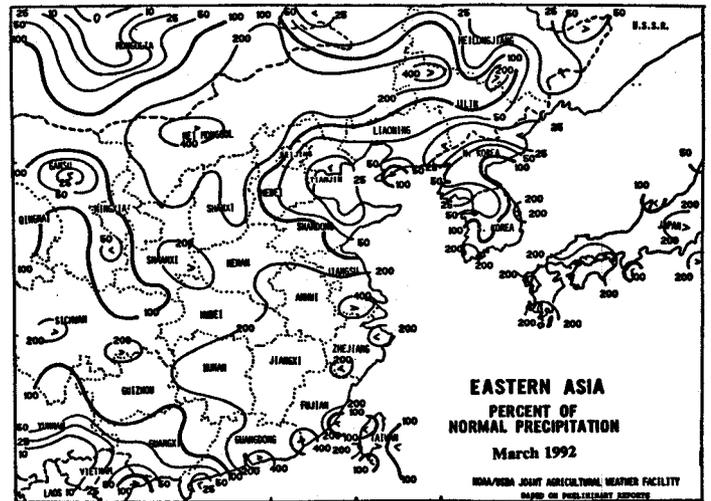
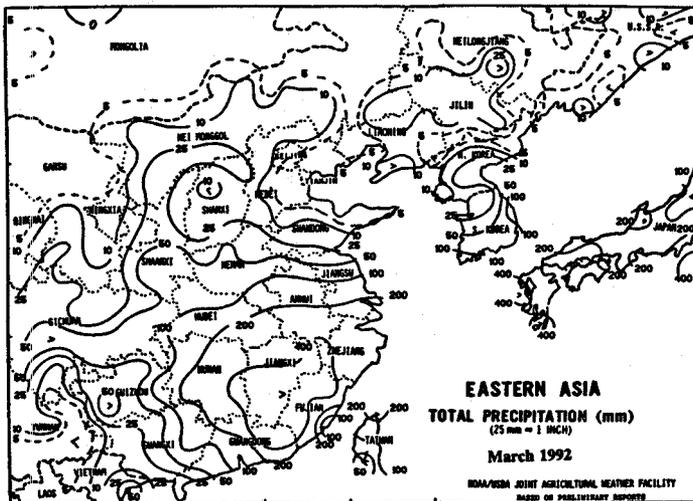


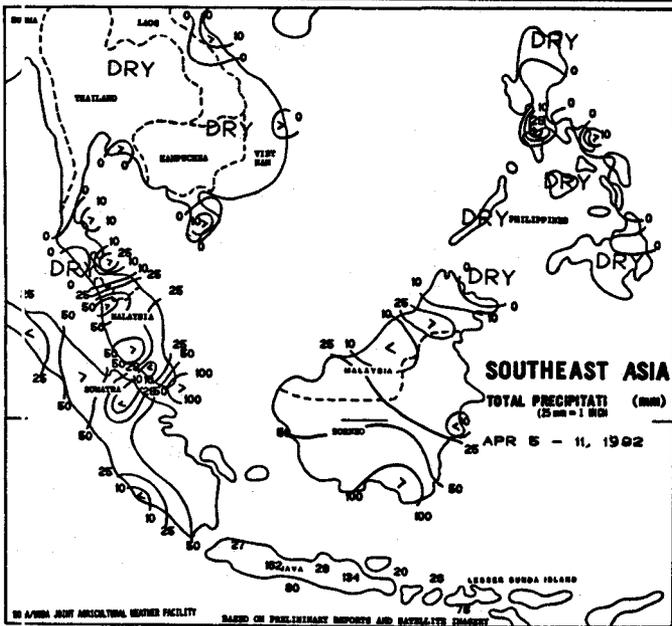
SOUTH ASIA: Light showers (3-15 mm) fell across Pakistan's primary crop regions, and temperatures were cooler than normal, threatening winter wheat quality. An isolated shower (47 mm) missed primary crop regions. In India, dry, seasonably warm weather favored winter grain and oilseed harvests. Hot weather persisted in central and southern regions, with highs of 40-44 degrees C stretching from Tamil Nadu to Bihar. In March, seasonably dry, warm weather benefited filling to maturing winter grains and oilseeds, although late-month showers likely caused some lodging of Pakistan's northernmost winter wheat. Temperatures were near to below normal across the northwest and near to above normal in central and southern India, where unseasonably hot weather since the second week has stressed livestock.



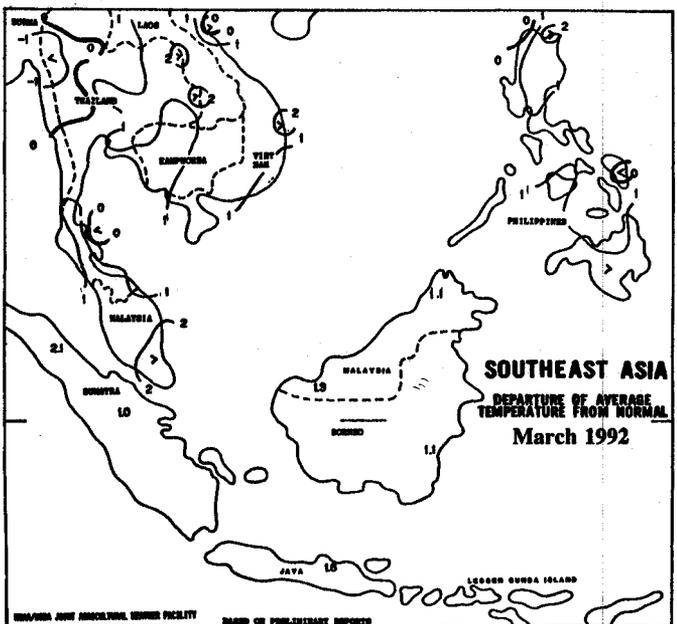
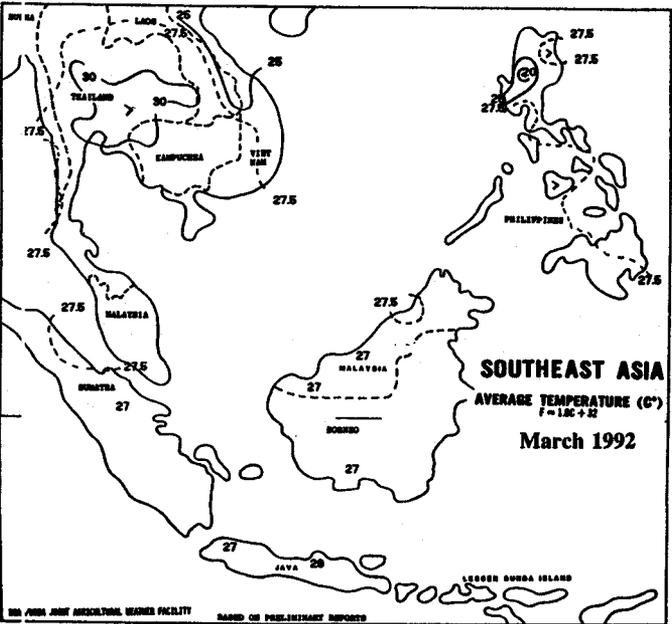
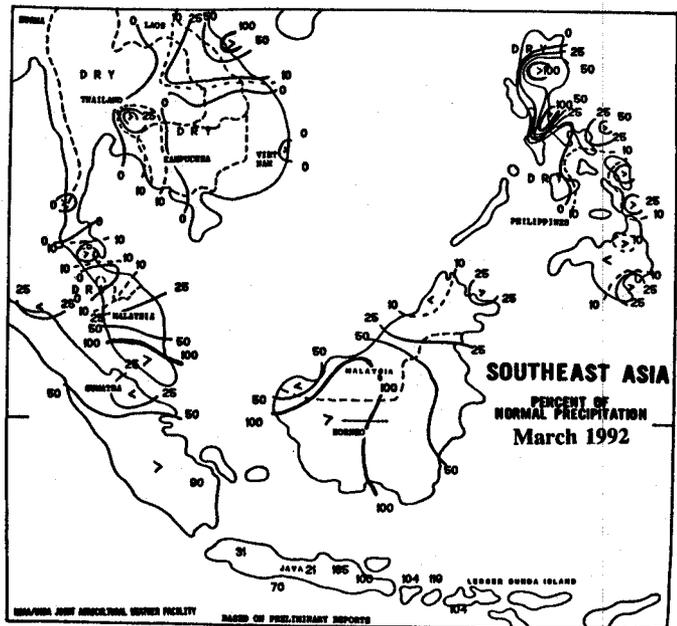
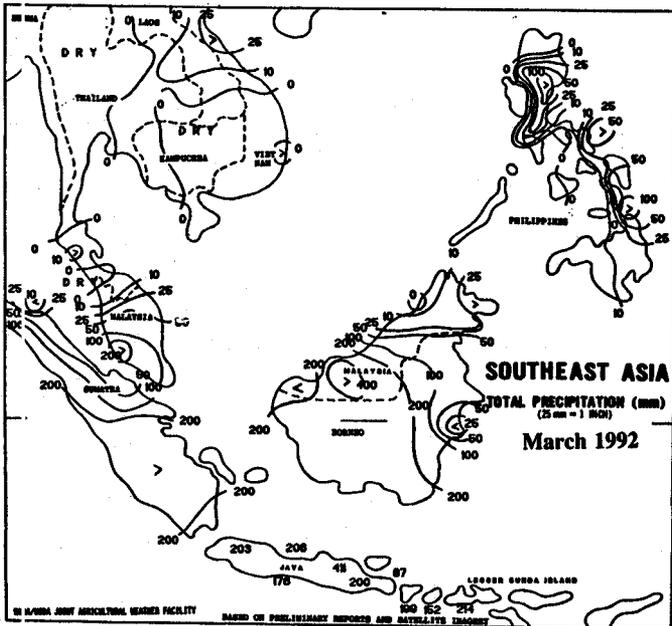


EASTERN ASIA: Light to moderate rain (2-22 mm) fell across the North China Plain, bringing much needed moisture for developing winter wheat. However, more rain is needed throughout the region, but especially in Hebei, Shanxi, and Shandong. Warmer temperatures in Manchuria and the northwest (Gansu, Shaanxi, and western Nei Mongol) prompted spring wheat and corn planting. Widespread rain (36-84 mm) covered the Yangtze River Basin and southern China, favoring vegetative winter wheat, emerging corn, and developing early rice. Flooding continued in Guangdong with persistent heavy rain (110-200 mm). Weekly temperatures averaged 1-3 degrees C above normal across the Yangtze Basin and near normal everywhere else. Most of the country received near- to above-normal rainfall during March except for portions of the North China Plain and Manchuria. However, due to warm early-spring temperatures and autumn dryness, limited soil moisture existed for winter wheat. Monthly rainfall normals at this time of year across the northern wheat areas are less than 10 mm. Southeastern China received above-normal rainfall, which benefited rice irrigation supplies but caused flooding. Monthly temperatures averaged 1-3 degrees C above normal across northern China and 1-2 degrees C below normal across central and southern China.

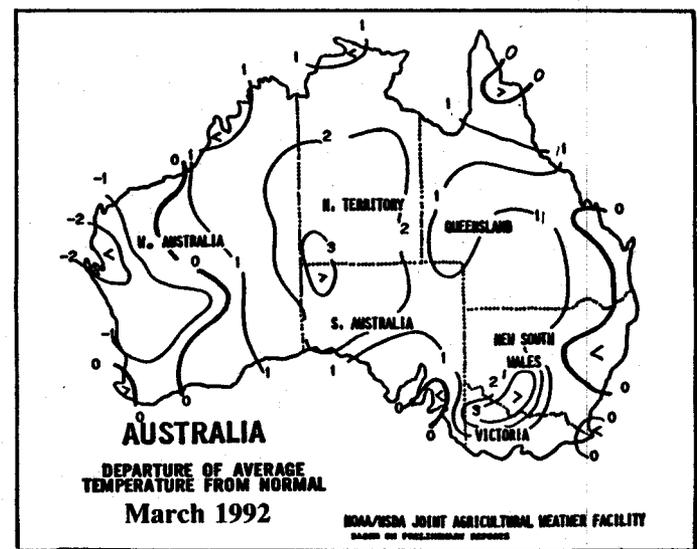
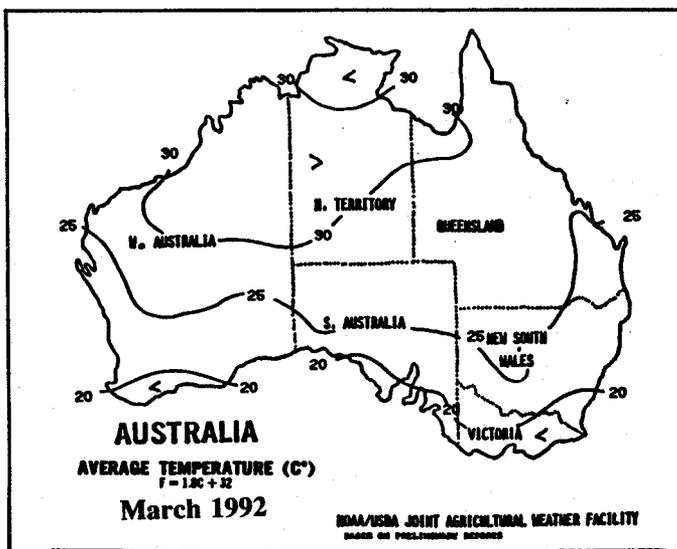
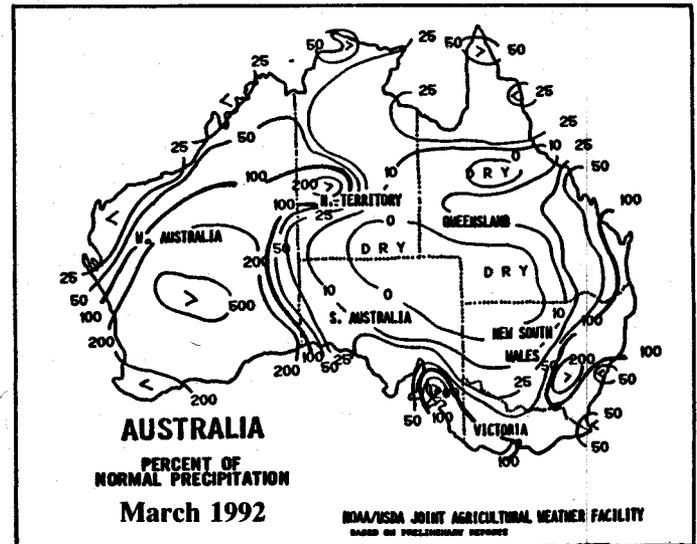
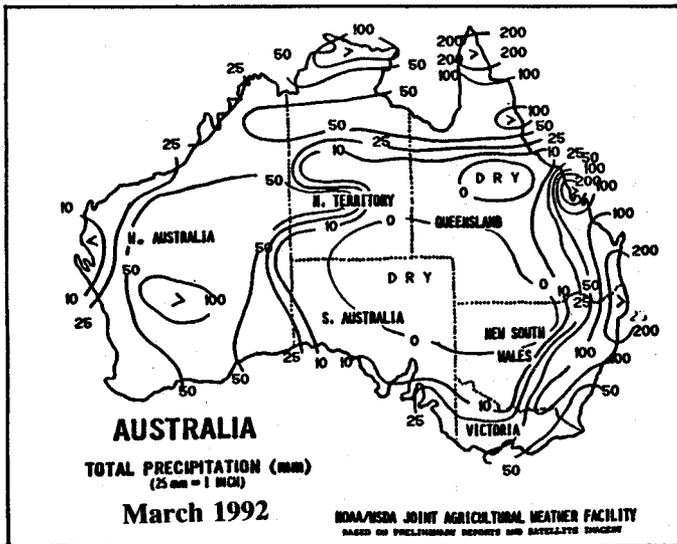
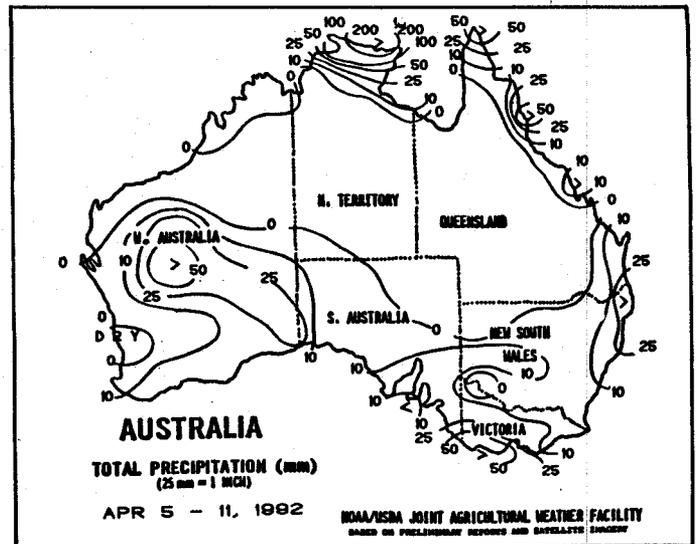




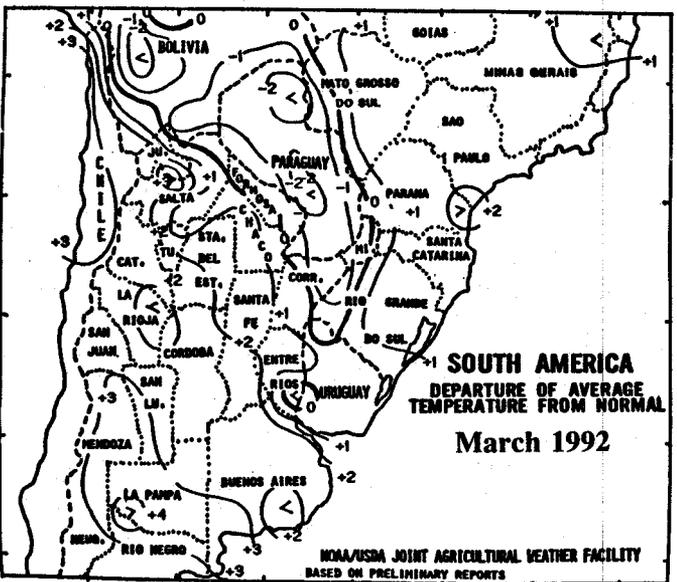
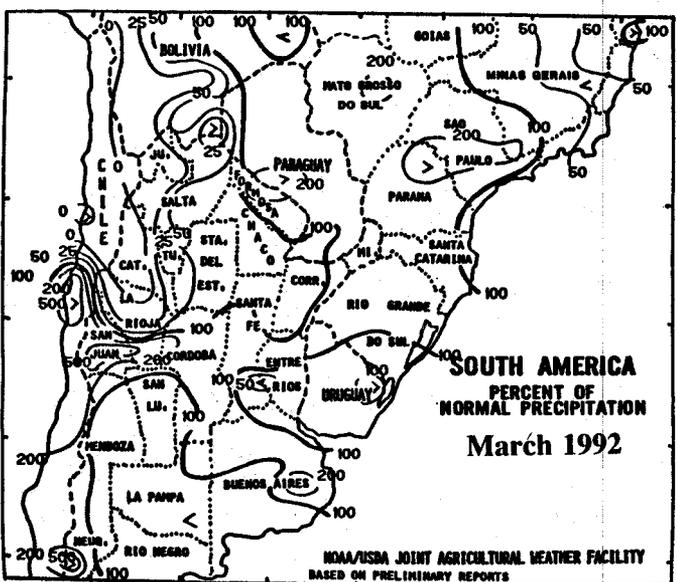
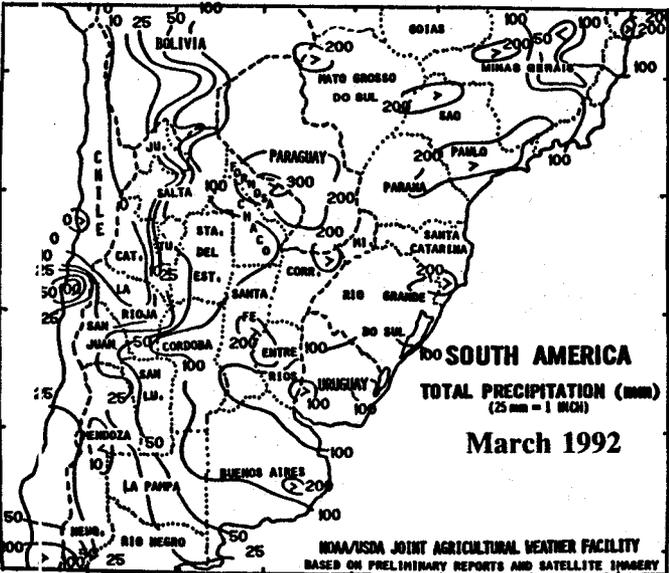
SOUTHEAST ASIA: Moderate to heavy showers (25-162 mm) continued over Indonesia and western Malaysia, maintaining favorable late-season moisture reserves in primary rice and oil palm areas. This was reflective of March's rainfall pattern, although rainfall was infrequent over Malaysia. In contrast, hot, dry weather persisted over Thailand, with highs exceeding 40 degrees C at many locations. Unfavorably light rain (10 mm or less) and warm temperatures (highs in the mid- to upper 30's C) persisted in the Philippines. During March, warmer- and drier-than-normal weather plagued Indochina and the Philippines, reducing moisture for upcoming main season grain plantings. Showers are vital the next few weeks for optimal planting.



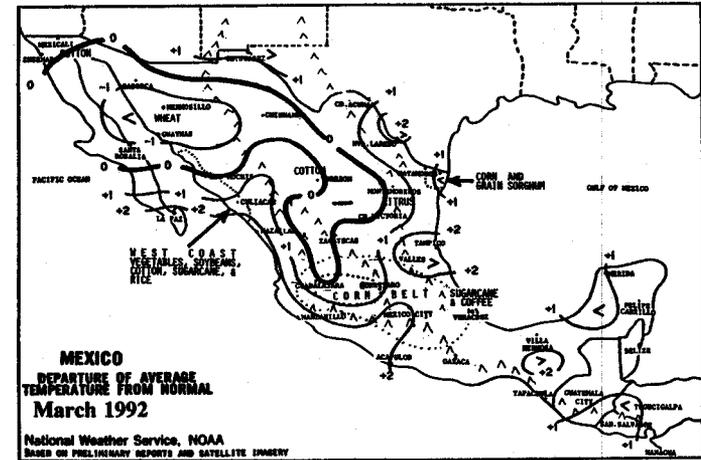
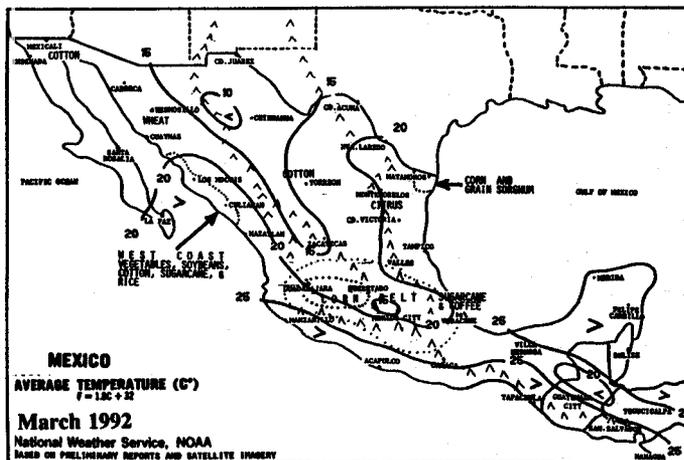
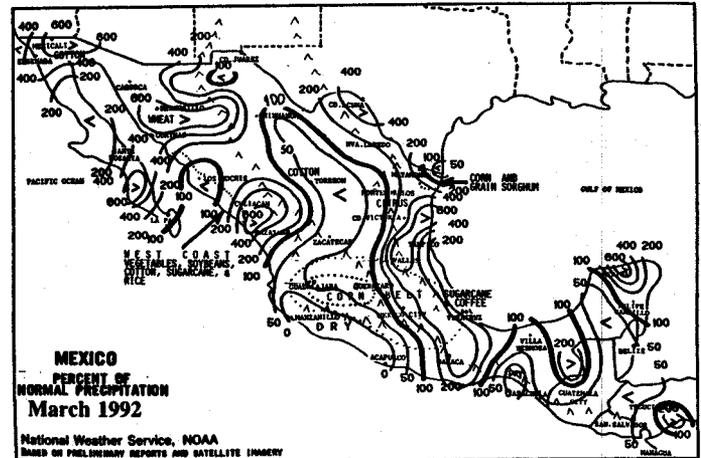
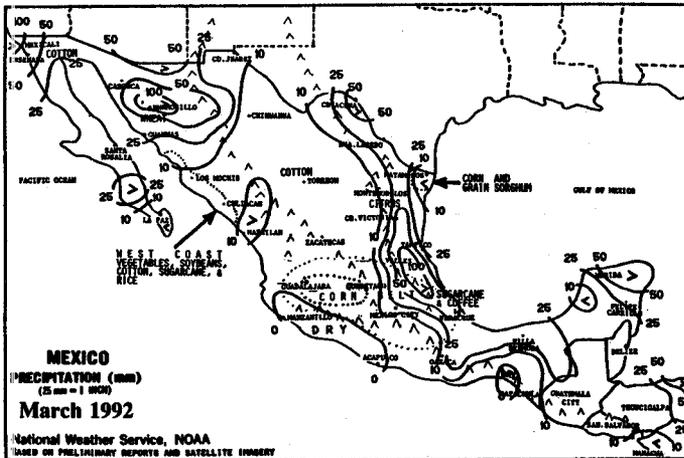
AUSTRALIA: Little or no rain fell across the eastern summer crop region, as harvesting moved into full swing. The coastal sugarcane areas received scattered light to moderate rains (5-49 mm), favoring sugarcane. Weekly temperatures averaged near normal across the major eastern crop areas. During March, the eastern summer crop areas received below-normal rainfall, reducing yield potentials for late-planted crops, but favoring early harvesting. Near- to above-normal rainfall favored sugarcane and summer crops along the southern Queensland coast and extreme eastern New South Wales. However, the seasonal trend of below-normal rainfall continued across the major sugarcane region of northeastern Queensland. Above-normal rainfall recharged soil moisture reserves for the upcoming winter wheat season across the west.



SOUTH AMERICA: Heavy rains (over 50 mm) returned to Rio Grande do Sul and Santa Catarina in southern Brazil (as estimated from satellite imagery due to incomplete data), causing soybean harvest delays and possible crop damage and flooding. To the north, light to moderate rain (5-30 mm) fell, slightly delaying soybean harvesting. Winter wheat planting progressed in Parana. In Argentina, dry conditions favored soybean, corn, and sunflower harvesting across most of Buenos Aires and Cordoba. Scattered heavier rain (30-70 mm) in central Santa Fe and Chaco delayed summer crop harvesting. Weekly temperatures averaged 1-2 degrees C below normal across southern Brazil and central Argentina. March rainfall was above normal across most of southern Brazil, delaying soybean and corn harvesting. Above-normal rainfall aided late-planted soybeans but caused corn and sunflower harvest delays in central Argentina. Below-normal rainfall across northern Argentina favored cotton harvesting.



MEXICO: Above- to much-above-normal rainfall covered most of Mexico during March. However, only portions of the northwest and east-central areas received significant rains (50-100 mm). The rest of the country received between 10 and 25 mm. Corn planting across the southern Plateau has been progressing on schedule with favorable moisture conditions. Monthly temperatures averaged 1-2 degrees C below normal in the northwest and north-central areas and 1-2 degrees C above normal across the rest of the country.



(Continued from p. 14)
 fair, 72% good. Sheep 11% fair, 87% good, 2% excellent. Cows calved 85%. Sheep lambed 87%. Farm activities: General maintenance, plowing, fencing, field preparation, calving, lambing.

WISCONSIN: Temperature 40°; 1° above normal. Extremes 5°; 73°. Precipitation 0.50 to 0.90 in. Days suitable for fieldwork 2.0. Most fieldwork done early in the week. Snow, colder weather toward the end of the week, especially in the north, kept farmers from getting in fields. Soil moisture 1% short, 68% adequate, 31% surplus. Intended spring tillage 5% complete, 7% 1991, 7% avg. Oats 5% planted, 6% 1991, 6% avg.

WYOMING: Temperatures about 6° above normal. Precipitation was below normal over most of State, except Snake River drainage about 1.50 in. above normal. Very little precipitation reported across the rest of the State.

Days suitable for fieldwork 5.7. Topsoil 58% short, 42% adequate. Spring wheat 35% planted, 41% 1991, 20% avg. Oats 23% planted, 37% 1991, 18% avg. Barley 59% planted, 69% 1991, 53% avg. Sugarbeets 30% planted, 51% 1991, 20% avg. Corn small amount planted. Potato producers preparing to plant. Winter wheat 42% fair, 58% good. Moderate russian wheat aphid infestation in winter wheat in scattered areas. Prospective irrigation supplies 69% short, 31% adequate. Livestock condition good to excellent. There is concern among cattle producers about widespread trichomoniasis. Spring calves born 71%, 76% 1991, 69% avg. Farm flock ewes lambed 79%, 85% 1991, 75% avg.; shorn 80%, 68% 1991, 68% avg. Range flock ewes lambed 32%, 36% 1991, 34% avg.; shorn 60%, 47% 1991, 41% avg. Calf, lamb death losses light to normal. Ranges, pastures good to excellent.

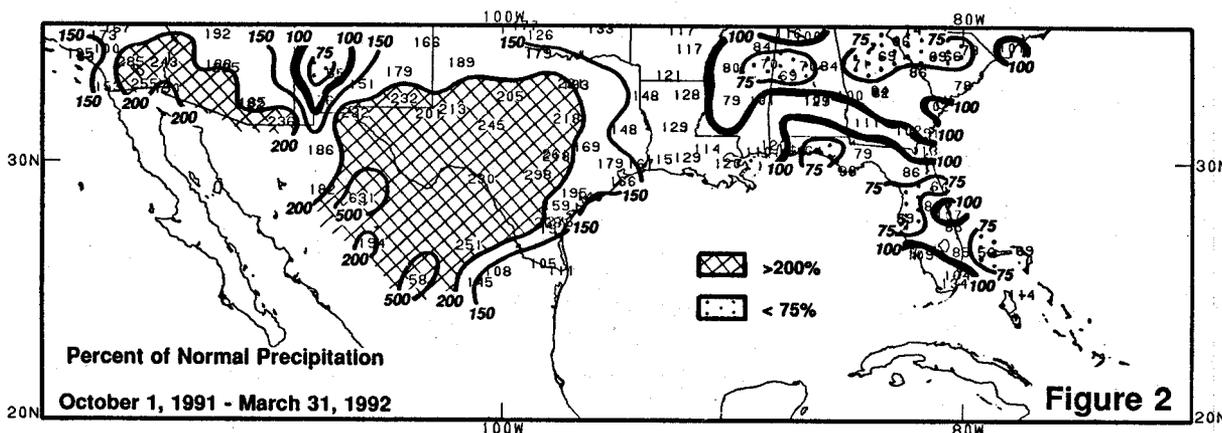
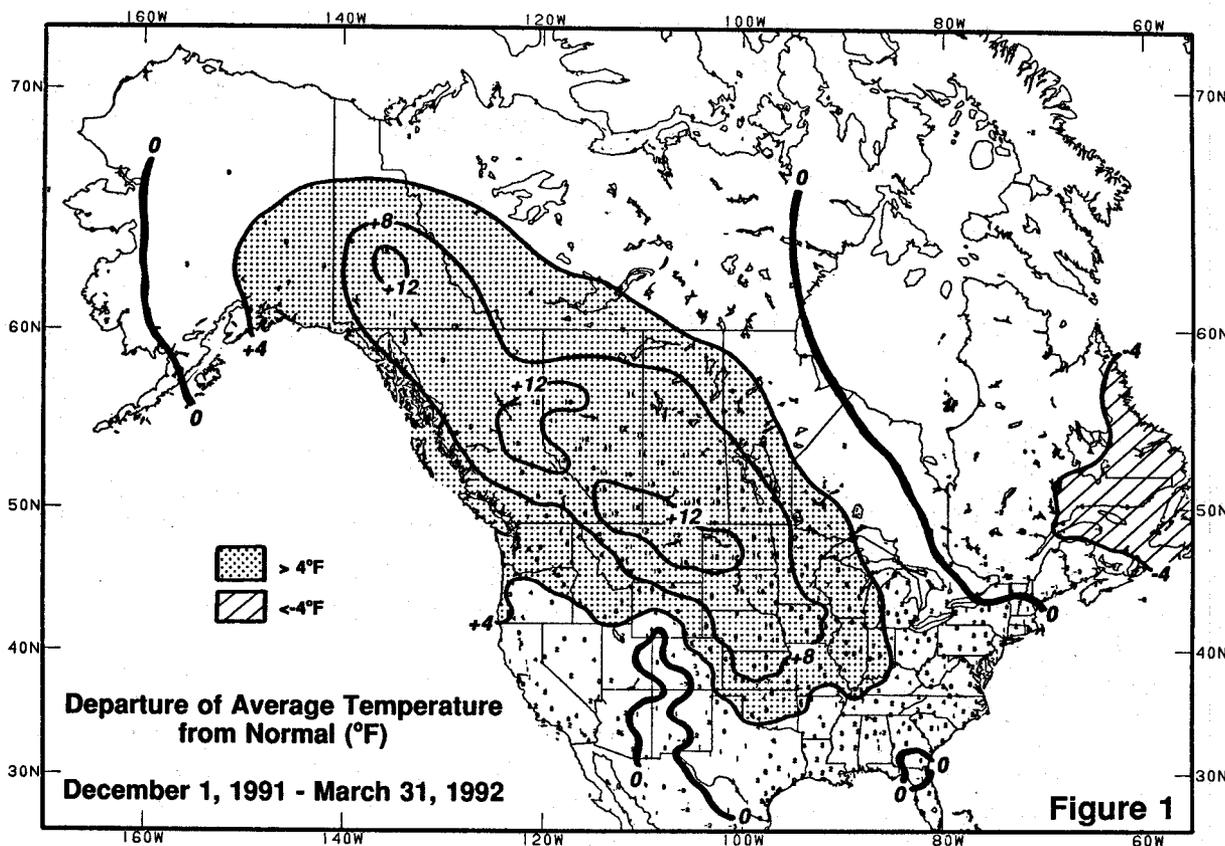
North American Weather Impacts of El Niño, 1991-92

Atmospheric changes associated with the present El Niño event have contributed to anomalous warmth in northwestern and central North America (fig. 1), and unusual wetness in southwestern portions of the continent (fig. 2). Four-month (Dec. 1991 - Mar. 1992) temperature departures topped +8°F in a band from Canada's Yukon Territory to the United States' Central Plains. Six-month (Oct. 1991 - Mar. 1992) precipitation exceeded twice the normal in much of northern Mexico and Texas.

always fully agree with the observed anomalies. For example, during the present El Niño, October to March rainfall was near- to below-normal in the eastern Gulf Coast States (fig. 2). Furthermore, it is important to note that potential impacts sometimes do not occur at all. For example, the potential area of warmth in Maine and southeastern Canada (fig. 3), expected between December 1991 and May 1992, has not materialized. Between December and March, temperatures in parts of eastern Canada have been more than 4°F below normal.

These two anomalies are similar to potential effects indicated by El Niño impact studies (figs. 3 and 4). For instance, October to March precipitation in the Gulf coast region (outlined in figure 4) has been above normal during 20 of the past 24 El Niño events, dating to 1887. Nevertheless, the potential impact areas do not

On a final note, inspection of October to March North American data from the 1986-87 El Niño event shows striking similarities to the same period in 1991-92. A comparable summary was published in the *Weekly Weather and Crop Bulletin*, Vol. 74, No. 20, p. 9, May 19, 1987.



(Continued to back cover)

The Weekly Weather and Crop Bulletin (ISSN 0043-1974) is published weekly and jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the Weekly Weather Chronicle. It is issued under general authority of the Act of January 12, 1895 (44-USC 213), 53d Congress, 3d Session. NOAA is responsible for managing, printing, and distributing the bulletin. The contents may be reprinted freely, with proper credit.

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(Continued from p. 27)

**Potential North American
Temperature Impacts from El Niño
(based on statistical correlations)**

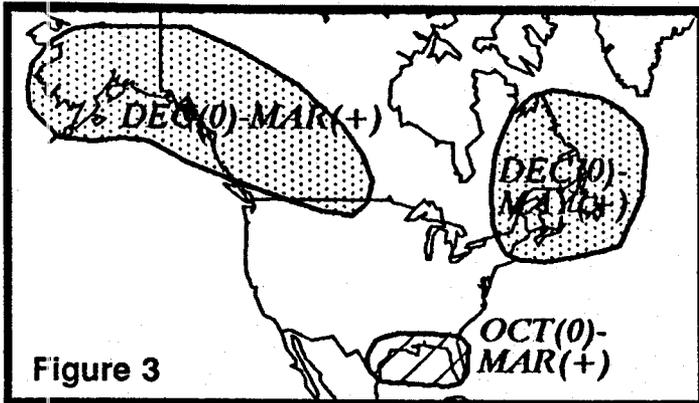


Figure 3

■ WARM ▨ COOL

Prepared by the Joint Agricultural Weather Facility
Source: Halpert and Ropelewski, 1990.

(0) = Year of El Niño onset
(+) = Year following El Niño onset

**Potential North American
Rainfall Impacts from El Niño
(based on statistical correlations)**



Figure 4

▩ WET ■ DRY

Prepared by the Joint Agricultural Weather Facility
Source: Ropelewski and Halpert, 1987.
Monthly Weather Review, (115) p. 1606-1626.

--Brad Rippey

Editor's Note: The El Niño continues. The March value of the Southern Oscillation Index (SOI) slipped to -3.0 (standard deviations), down from -1.4 in February. The smoothed value of the SOI (5-month moving average) dropped to -2.18. This is the second lowest value since 1905, being exceeded since that time only by the values measured during the severe 1982-83 event.

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