

WEEKLY WEATHER AND CROP BULLETIN

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

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

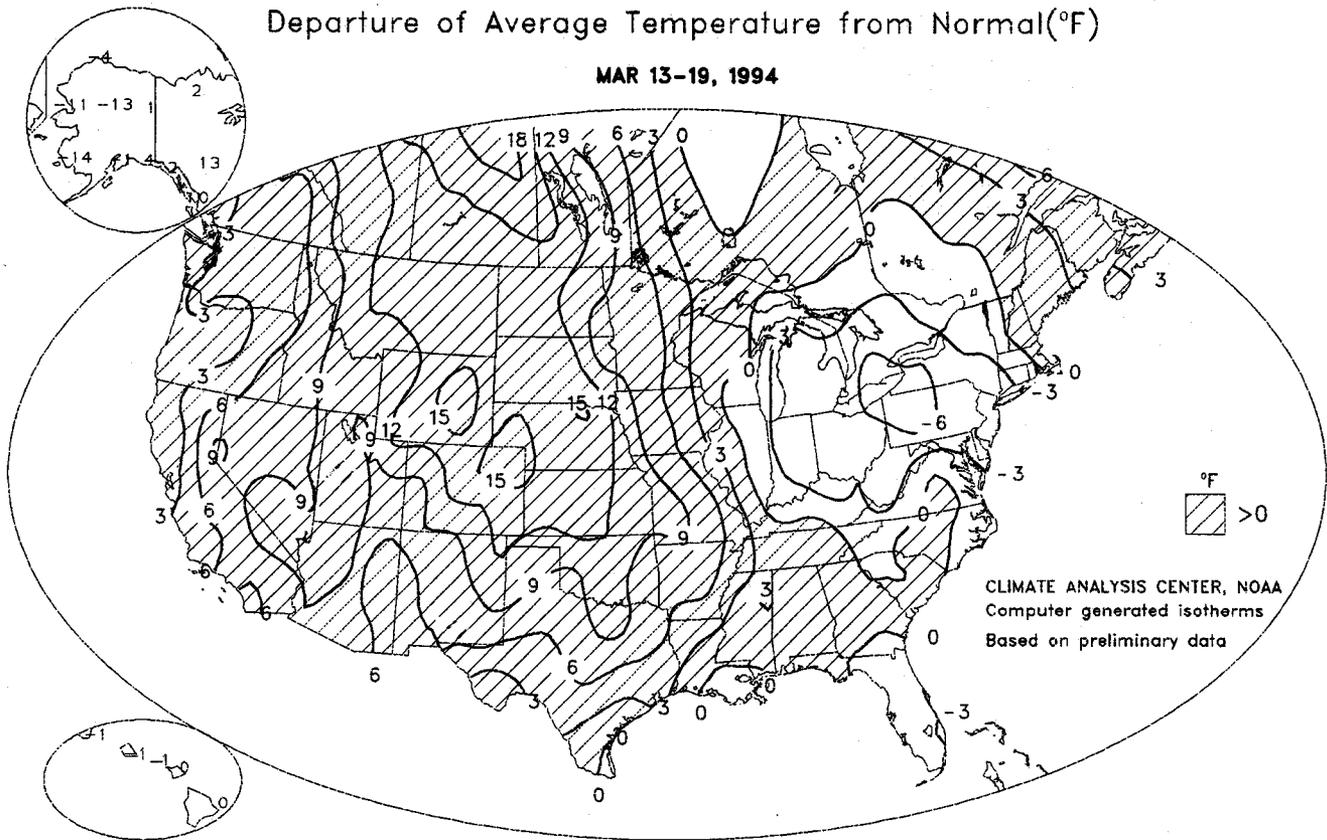
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Washington, D.C.

March 22, 1994

Departure of Average Temperature from Normal(°F)

MAR 13-19, 1994



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

HIGHLIGHTS

March 13 - 19, 1994

Warmth overspread the western two-thirds of the Nation, but cool, unsettled weather persisted in the Northeast. On Sunday, the first 17 of more than 125 daily record highs were established. San Diego, CA (87°F) and Anaconda, MT (70°F) broke daily records by 5°F. Warmth intensified and spread eastward between Monday and Thursday. Monthly records were broken in Montana on Tuesday in Butte (69°F), Hamilton (76°F), and Wisdom (65°F). On Wednesday, locations such as Casper, WY (71°F) and Sheridan, WY (77°F) posted their highest temperatures ever recorded during the first 75 days of the year. Midweek temperatures climbed above 80°F as far north as Nebraska, where Grand Island noted 81°F. Heat and wind aggravated topsoil dryness in areas not affected by the early-March snowstorm, including west-central Texas and much of Kansas. Highs

(Continued to p. 10)

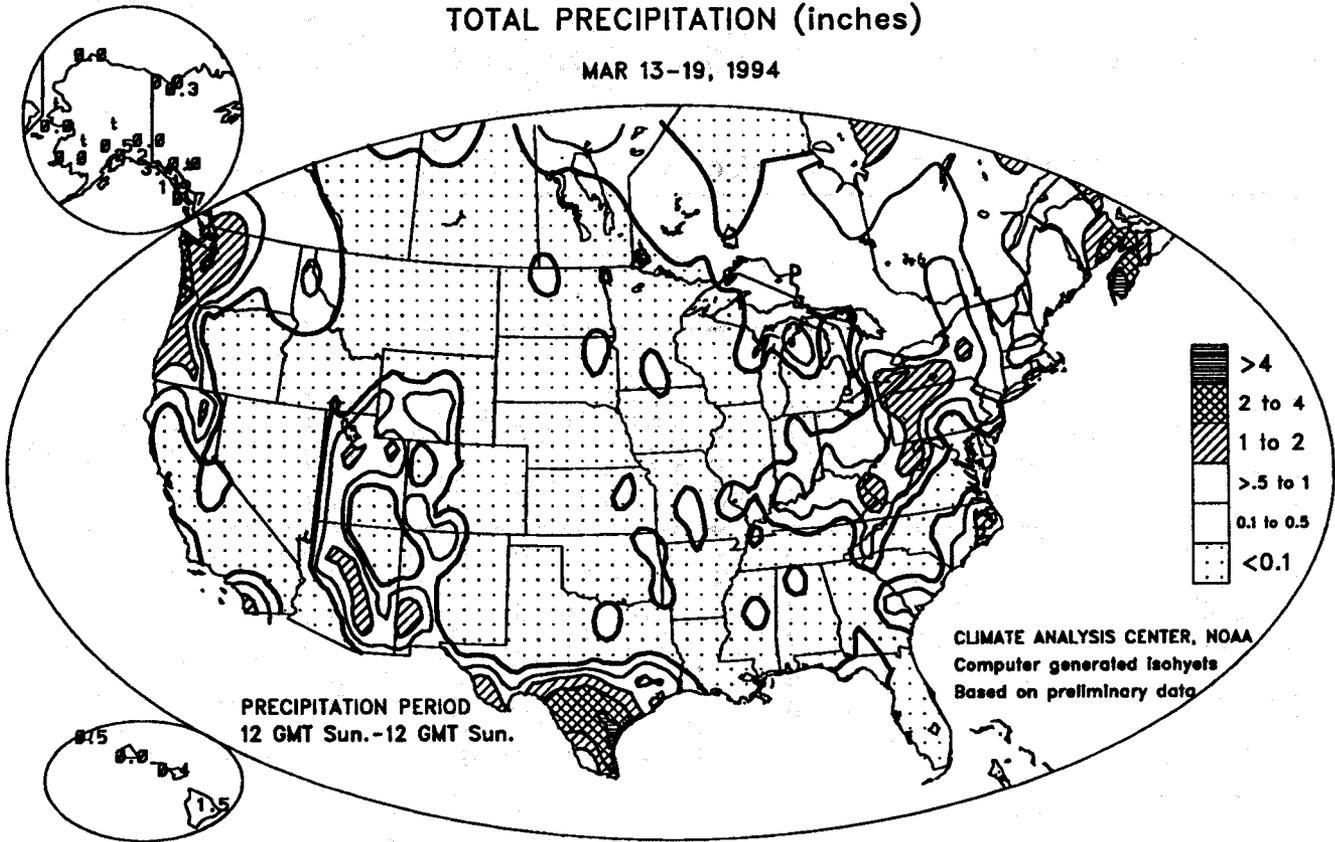
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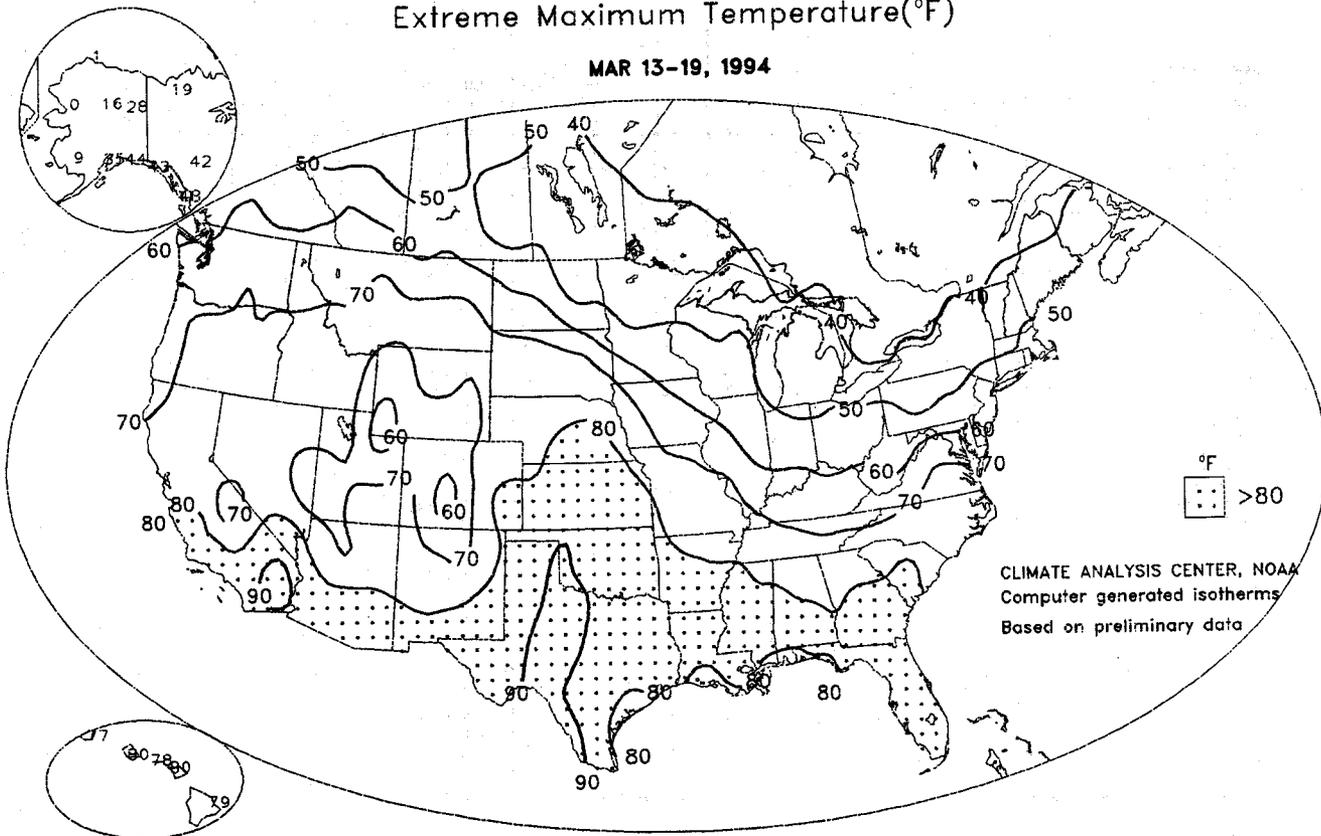
TOTAL PRECIPITATION (inches)

MAR 13-19, 1994



Extreme Maximum Temperature(°F)

MAR 13-19, 1994



National Weather Data for Selected Cities

Weather Data for the Week Ending March 19, 1994

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS							
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	90 AND ABOVE	92 AND BELOW	TEMP. °F		PRECIP.	
																			01 INCH OR MORE	.50 INCH OR MORE		
AL BIRMINGHAM	70	38	77	30	54	0	.0	-1.4	.0	3.2	85	13.1	96	83	28	0	1	0	0	0		
MOBILE	75	46	80	39	61	0	.0	-1.5	.0	3.5	87	11.4	80	92	26	0	0	0	0	0		
MOBILGOMERY	74	41	83	34	58	2	.0	-1.4	.0	2.5	65	12.7	89	84	30	0	0	0	0	0		
AK ANCHORAGE	30	18	41	5	24	-2	.6	.4	.4	1.4	307	2.2	111	77	55	0	7	2	0	0		
BARRROW	-13	-26	1	-33	-20	-4	T	T	T	.1	129	.2	55	74	69	0	7	0	0	0		
FAIRBANKS	15	-5	39	-20	5	-6	T	.1	T	.2	68	.9	83	78	59	0	7	1	0	0		
JUNEAU	39	33	42	27	36	3	1.0	.3	.5	3.7	177	12.7	122	98	80	0	3	6	0	0		
KODIAK	33	23	38	10	28	-5	.5	-.6	.4	5.8	200	21.9	141	66	50	0	7	2	0	0		
NOOME	8	-16	14	-21	-4	-12	T	-.1	T	.4	143	1.7	101	78	62	0	7	0	0	0		
AS PHOENIX	79	57	87	55	68	6	.2	.0	.3	.7	122	1.4	72	70	28	0	0	1	0	0		
FRESCOTT	66	40	74	36	53	11	.2	-.3	.2	.2	14	1.5	35	58	23	0	0	1	0	0		
TUCSON	80	52	90	49	66	7	.6	-.4	.5	.7	162	1.8	88	72	23	1	0	2	0	0		
YUMA	86	62	90	56	74	9	.1	.0	.1	.1	47	.3	46	46	18	2	0	0	1	0		
AR FORT SMITH	76	45	84	36	60	9	T	-.9	T	2.4	103	9.8	143	76	24	0	0	1	0	0		
LITTLE ROCK	74	50	81	43	62	8	T	-1.1	T	2.2	75	10.7	112	55	22	0	0	1	0	0		
CA BAKERSFIELD	77	49	84	46	63	6	T	-.2	T	.8	116	2.7	104	53	22	0	0	1	0	0		
SURREA	59	43	63	38	51	1	.5	-.7	.3	1.0	30	13.2	94	84	50	0	0	2	0	0		
FRESNO	74	49	82	44	62	7	T	-.4	T	.3	25	3.4	69	88	27	0	0	1	0	0		
LOS ANGELES	75	56	86	54	66	8	.3	-.2	.2	.3	25	5.0	81	77	39	0	0	2	0	0		
REDDING	68	42	74	37	55	3	T	-1.0	T	1.2	40	10.9	82	87	34	0	0	1	0	0		
SACRAMENTO	69	45	78	39	57	3	T	-.6	T	.7	0	3.2	38	92	42	0	0	0	0	0		
SAN DIEGO	75	55	87	52	65	6	1.1	.7	1.1	2.2	200	5.7	127	81	36	0	0	1	1	0		
SAN FRANCISCO	65	47	76	42	56	3	T	-.7	T	.7	1	7.8	82	85	34	0	0	1	0	0		
CO DENVER	71	37	75	29	54	15	.0	-.3	.0	.3	48	1.7	96	59	13	0	2	0	0	0		
GRAND JUNCTION	68	38	72	32	53	8	T	-.3	T	.9	0	.8	45	56	18	0	1	0	0	0		
PUEBLO	73	32	80	21	53	11	.0	-.2	.0	.9	202	1.6	149	73	17	0	5	0	0	0		
CT BRIDGEPORT	43	28	50	21	36	-3	.6	-.3	.3	2.9	131	11.2	132	81	48	0	5	3	0	0		
HARTFORD	43	27	52	21	35	-3	.3	-.5	.1	4.0	183	13.2	150	93	48	0	6	5	0	0		
DC WASHINGTON	54	33	65	24	44	-4	.2	-.5	.2	3.7	193	12.2	166	69	30	0	3	2	0	0		
FL APALACHICOLA	73	50	77	43	62	1	.0	-1.0	.0	2.8	103	11.7	113	...	...	0	0	0	0	0
DAYTONA BEACH	75	49	82	41	62	-2	.0	-.7	.0	3.1	168	11.4	148	95	30	0	0	0	0	0		
JACKSONVILLE	75	46	82	33	60	-2	.0	-.8	.0	1.2	49	8.6	92	88	25	0	0	0	0	0		
KEY WEST	78	63	85	58	71	-3	T	-.4	T	.3	32	4.9	101	87	55	0	0	0	0	0		
MIAMI	81	61	88	55	71	-1	.0	-.6	.0	.4	30	9.7	175	83	39	0	0	0	0	0		
ORLANDO	78	51	81	46	65	-2	T	-.7	T	1.0	47	8.6	116	90	37	0	0	0	0	0		
TALLAHASSEE	77	42	85	28	59	-1	.0	-1.4	.0	8.4	211	19.3	135	94	31	0	2	0	0	0		
TAMPA	76	51	82	42	64	-3	.0	-.7	.0	.5	24	4.6	65	92	42	0	0	0	0	0		
WEST PALM BEACH	78	54	82	48	66	-5	.0	-.7	.0	.7	39	9.9	137	87	36	0	0	0	0	0		
GA ATLANTA	69	43	78	34	56	3	.0	-1.3	.0	2.9	80	11.8	89	67	28	0	0	0	0	0		
AUGUSTA	72	39	79	34	56	0	.1	-.9	.1	3.0	102	11.2	99	82	26	0	0	1	0	0		
Macon	74	41	84	33	58	1	T	-1.1	T	3.6	117	11.8	96	79	26	0	0	0	0	0		
SAVANNAH	74	47	82	36	61	1	.3	-.6	.2	2.9	124	8.4	91	84	25	0	0	0	0	0		
HI HILLO	77	65	79	64	71	-1	1.5	-1.7	.4	2.1	25	38.0	134	88	64	0	0	0	0	0		
HONOLULU	79	68	80	65	73	-1	T	-.5	T	.7	0	7.4	104	68	54	0	0	0	0	0		
KAHULUI	78	66	80	65	72	-1	.4	-.3	.1	.7	39	3.0	34	76	59	0	0	6	0	0		
LIHOE	75	68	77	65	71	-1	.5	-.5	.4	.8	31	11.3	96	74	59	0	0	2	0	0		
ID BOISE	63	36	73	27	50	7	T	-.3	T	.2	22	2.4	72	60	19	0	2	0	0	0		
LEWISTON	57	37	68	31	47	3	T	-.2	T	.2	34	1.9	65	69	40	0	1	2	0	0		
POCATELLO	62	31	75	25	46	10	T	-.3	T	.5	5	1.9	72	76	20	0	4	1	0	0		
IL CHICAGO	44	26	51	19	35	-2	.1	-.6	.1	.1	7	4.7	108	88	51	0	7	1	0	0		
MOLINE	51	26	60	21	39	-1	T	-.7	T	.1	1	3.7	84	83	43	0	7	1	0	0		
PEORIA	53	28	61	24	41	2	T	-.6	T	.1	9	3.0	66	83	41	0	7	1	0	0		
QUINCY	56	32	65	25	44	3	T	...	T	...	...	...	...	73	36	0	4	...	...	...
ROCKFORD	44	24	53	20	34	-1	.1	-.5	.1	.1	4	4.1	108	92	49	0	7	1	0	0		
SPRINGFIELD	55	31	63	26	43	2	.1	-.7	.1	.5	29	2.7	52	80	38	0	4	1	0	0		
IN EVANSVILLE	57	34	66	26	45	-2	.2	-1.0	.1	1.0	33	6.5	69	82	38	0	4	2	0	0		
FORT WAYNE	45	26	51	16	36	-2	.1	-.5	.1	1.2	71	4.7	86	85	48	0	5	2	0	0		
INDIANAPOLIS	48	28	57	19	38	-3	.2	-.7	.1	.5	22	4.6	65	83	39	0	6	2	0	0		
SOUTH BEND	43	22	50	14	33	-5	.1	-.7	.1	.2	10	4.1	70	86	45	0	7	1	0	0		
IA DES MOINES	57	31	67	23	44	7	T	-.5	T	.0	2.9	93	81	39	0	4	0	0	0	0		
SIoux CITY	60	32	75	24	46	10	.0	-.5	.0	.2	2	1.8	75	80	37	0	4	0	0	0		
WATERLOO	50	26	60	20	38	4	T	-.5	T	.0	2.2	69	88	46	0	7	0	0	0	0		
KS CONCORDIA	72	39	84	27	55	14	.0	-.5	.0	T	0	.8	32	67	21	0	2	0	0	0		
DODGE CITY	75	37	82	24	56	13	.0	-.4	.0	T	0	.8	42	63	19	0	2	0	0	0		
GOODLAND	73	33	80	25	53	14	.0	-.3	.0	.2	35	.7	46	65	18	0	3	0	0	0		
TOPEKA	71	36	82	28	53	10	.0	-.6	.0	.1	8	1.4	40	77	21	0	2	0	0	0		
WICHITA	74	40	86	31	57	11	...	...	...	...	...	...	...	67	24	0	1	...	...	...
KY BOWLING GREEN	59	36	67	25	47	0	.1	-1.1	.1	4.9	155	16.7	150	78	35	0	3	2	0	0		
LEXINGTON	52	31	61	19	42	-4	.4	-.6	.2	4.2	155	13.0	149	82	33	0	3	2	0	0		
LOUISVILLE	55	34	64	23	44	-2	.1	-.9	.1	1.6	58	8.7	97	79	33	0	3	2	0	0		
LA BATON ROUGE	72	49	80	38	61	0	.0	-1.1	.0	3.3	110	12.9	96	96	49	0	0	0	0	0		
LAKE CHARLES	73	53	79	40	63	2	.3	-.5	.3	1.9	90	7.2	71	96	53	0	0	1	0	0		
NEW ORLEANS	74	46	81	38	60	-1	.0	-1.1	.0	4.1	131	7.9	56	96	35	0	0	0	0	0		
SERVEPORT	78	50	84	40	64	7	T	-.9	T	2.5	98	11.1	102	86	36	0	0	0	0	0		

Based on 1961-90 normals.

Weather Data for the Week Ending March 19, 1994

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY PERCENT			NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	90 AND ABOVE		32 AND BELOW		
																	TEMP. °F	PRECIP.	.01 INCH OR MORE	.50 INCH OR MORE	
ME CARIBOU	34	21	40	1	28	3	.3	-.3	.1	1.5	106	6.6	114	87	65	0	0	7	5	0	0
PORTLAND	42	27	46	22	35	1	.2	-.6	.1	2.7	122	9.3	103	84	57	0	0	6	3	0	0
MD BALTIMORE	50	31	62	23	41	-.4	.2	-.6	.1	4.8	229	13.5	162	74	35	0	0	5	2	0	0
SALISBURY	53	30	67	24	41	-.4	.2	-.9	.3	4.6	178	13.3	137	86	37	0	0	5	1	0	0
MA BOSTON	44	30	49	25	37	-.1	.8	-.1	.3	4.9	217	13.0	138	90	53	0	0	5	4	0	0
CHATAM	42	31	48	25	37	0	.2	-.6	.1	4.0	173	13.3	133	96	52	0	0	5	4	0	0
MI ALPENA	34	16	40	8	25	-.3	.1	-.4	.0	.4	33	3.4	81	91	52	0	0	7	3	0	0
DETROIT	41	23	51	15	32	-.4	.2	-.4	.1	.7	45	4.8	97	82	52	0	0	7	5	0	0
FLINT	37	19	43	10	28	-.6	.2	-.3	.1	.8	66	3.4	89	88	58	0	0	4	3	0	0
GRAND RAPIDS	38	22	45	11	30	-.4	.1	-.5	.1	.4	30	4.8	102	88	51	0	0	7	4	0	0
HOGHTON LAKE	35	16	43	5	26	-.2	.6	-.1	.5	1.0	85	4.3	112	88	53	0	0	7	2	0	0
LANSING	38	19	45	11	28	-.4	.1	-.4	.1	.7	56	3.7	94	94	52	0	0	7	3	0	0
MARQUETTE	35	13	49	-.3	24	0	.5	-.2	.2	.5	31	2.6	47	88	53	0	0	7	5	0	0
MUSKEGON	38	20	44	10	29	-.4	.1	-.5	.1	.4	25	5.7	108	86	51	0	0	7	1	0	0
SAULT ST. MARIE	30	11	43	1	21	-.3	.4	-.1	.4	.8	58	3.9	71	87	56	0	0	7	3	0	0
MN ALEXANDRIA	41	27	47	19	34	8	.2	-.3	.2	.2	3	1.0	42	98	63	0	0	6	1	0	0
DULUTH	35	22	49	9	28	4	.1	-.3	.1	.2	14	2.6	85	81	48	0	0	6	3	0	0
INT'L FALLS	38	19	49	11	29	7	.2	-.1	.2	.3	44	1.1	51	80	36	0	0	7	1	0	0
MINNEAPOLIS	46	28	53	21	37	6	.2	-.4	.2	.2	2	2.0	68	80	42	0	0	6	1	0	0
ROCHESTER	44	26	53	17	35	5	.2	-.4	.2	.1	6	2.0	80	85	47	0	0	7	1	0	0
MS GREENWOOD	73	43	83	32	58	3	.0	-1.3	.0	3.7	106	10.6	82	93	29	0	0	1	0	0	0
JACKSON	71	41	80	33	56	1	.0	-1.4	.0	3.3	93	17.8	128	91	29	0	0	0	0	0	0
MERIDIAN	75	41	84	34	58	1	.0	-1.5	.0	4.1	98	18.8	127	90	29	0	0	0	0	0	0
MO CAPE GIRARDEAU	63	38	71	31	50	3	.1	-1.1	.0	2.2	74	9.7	104	79	35	0	0	2	0	0	0
COLUMBIA	65	35	76	26	50	8	.1	-.6	.1	.4	24	3.4	66	75	27	0	0	2	1	0	0
KANSAS CITY	68	36	78	27	52	9	.2	-.6	.2	.1	6	2.2	61	69	29	0	0	3	0	0	0
SAINT LOUIS	62	39	75	32	50	5	.2	-.7	.2	.5	22	4.1	67	72	31	0	0	1	2	0	0
SPRINGFIELD	68	41	78	30	55	9	.2	-.7	.2	1.3	57	5.4	92	69	29	0	0	1	1	0	0
MT BILLINGS	64	34	78	28	49	14	.2	-.2	.2	.1	8	.8	35	56	19	0	0	3	1	0	0
GLASGOW	55	30	64	26	43	13	.0	-.1	.0	.1	23	1.1	127	80	38	0	0	5	0	0	0
GREAT FALLS	60	33	72	24	46	13	.2	-.3	.2	.2	0	1.0	49	68	19	0	0	3	0	0	0
HAVRE	57	30	64	26	44	13	..	..	..	..	..	..	..	78	29	0	0	6	0	0	0
HELENA	61	30	72	26	46	12	.2	-.2	.2	.2	0	.6	41	74	21	0	0	6	0	0	0
KALISPELL	51	30	61	26	40	7	.2	-.2	.2	.1	11	2.1	64	89	43	0	0	5	2	0	0
MILES CITY	63	33	78	28	48	15	.2	-.1	.2	.2	9	1.1	85	80	27	0	0	3	1	0	0
MISSOULA	58	31	71	25	44	9	.2	-.1	.1	.4	68	1.2	46	79	32	0	0	4	2	0	0
NE GRAND ISLAND	69	33	81	25	51	13	.0	-.4	.0	.2	0	1.9	94	81	28	0	0	4	0	0	0
LINCOLN	67	31	78	23	49	10	.0	-.5	.0	.2	3	.9	37	87	25	0	0	4	0	0	0
NORFOLK	66	34	79	25	50	15	.0	-.4	.0	.2	0	1.6	69	76	31	0	0	3	0	0	0
NORTH PLATTE	71	29	80	23	50	14	.0	-.3	.0	.2	3	.8	58	83	20	0	0	4	0	0	0
OMAHA	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
SCOTTSBLUFF	68	30	75	24	49	13	.0	-.3	.0	.7	120	2.1	134	79	18	0	0	4	0	0	0
VALENTINE	66	29	77	21	48	12	.2	-.3	.2	.2	5	.8	45	67	21	0	0	6	0	0	0
NV ELI	62	29	70	18	45	11	.2	-.2	.2	.5	88	2.2	112	73	21	0	0	5	1	0	0
LAS VEGAS	79	56	84	49	68	12	.2	-.1	.2	.2	0	.5	43	34	16	0	0	0	0	0	0
RENO	67	39	80	30	53	10	.0	-.2	.0	1.0	212	1.7	67	60	18	0	0	2	0	0	0
WINNECOCCA	66	27	75	20	47	6	.2	-.2	.2	.4	85	1.6	88	76	16	0	0	6	0	0	0
NH CONCORD	42	24	49	19	33	1	.6	-.0	.5	3.3	198	7.5	112	87	50	0	0	7	3	0	0
NJ ATLANTIC CITY	49	27	59	21	38	-.4	.1	-.7	.1	4.8	219	12.4	143	88	38	0	0	7	2	0	0
NM ALBUQUERQUE	71	39	77	31	55	8	.1	-.1	.1	.4	143	.7	58	71	19	0	0	2	1	0	0
CLOVIS	73	41	82	34	57	9	.2	-.1	.2	.5	138	.7	59	74	21	0	0	0	0	0	0
ROSWELL	77	44	85	39	61	9	.0	-.1	.0	.4	191	.4	43	80	30	0	0	0	0	0	0
NY ALBANY	37	25	46	15	31	-.3	.3	-.3	.2	2.9	166	7.9	124	86	59	0	0	7	5	0	0
BINGHAMTON	34	22	44	11	28	-.5	.6	-.1	.3	3.6	214	8.9	138	85	58	0	0	7	6	0	0
BUFFALO	35	23	43	15	29	-.5	.9	-.3	.3	1.6	101	5.9	90	89	60	0	0	7	6	0	0
NEW YORK	44	30	56	21	37	-.4	.5	-.3	.4	3.4	160	11.0	137	82	46	0	0	4	3	0	0
ROCHESTER	34	22	42	14	28	-.6	.4	-.2	.1	.9	63	5.2	93	89	57	0	0	7	6	0	0
SYRACUSE	35	25	43	14	30	-.4	1.0	-.4	.3	3.4	208	8.7	142	96	70	0	0	6	7	0	0
NC ASHEVILLE	61	31	72	25	46	-.2	.2	-.3	.2	1.7	48	12.2	102	69	27	0	0	5	1	0	0
CHARLOTTE	66	40	78	31	53	2	.1	-1.0	.1	2.1	73	8.3	80	55	24	0	0	1	1	0	0
GREENSBORO	62	36	73	28	49	0	.2	-.9	.2	2.2	95	8.3	95	58	25	0	0	2	0	0	0
HATTERAS	59	39	67	35	49	-.3	.9	-.1	.7	5.1	191	15.5	129	86	43	0	0	0	0	0	0
NEW BERN	64	38	75	32	51	-.2	.7	-.2	.6	4.3	174	12.0	109	83	37	0	0	1	2	0	0
RALEIGH	63	36	77	25	50	-.1	.1	-.8	.0	2.9	121	9.4	98	74	29	0	0	2	2	0	0
WILMINGTON	65	39	76	31	52	-.1	.9	-.1	.9	6.0	212	16.3	136	86	30	0	0	1	1	0	0
ND BISMARCK	53	29	63	24	41	13	.2	-.1	.2	.1	18	1.1	85	94	53	0	0	3	2	0	0
FARGO	41	29	50	20	35	9	.1	-.2	.1	1.2	1.4	82	89	63	0	0	3	1	0	0	
GRAND FORKS	40	26	48	18	33	9	.2	-.0	.2	.2	4	1.5	88	95	64	0	0	6	1	0	0
WILLISTON	55	29	61	25	42	14	.2	-.2	.2	.2	5	1.9	141	88	43	0	0	6	0	0	0
OH AKRON-CANTON	40	24	51	14	32	-.6	.4	-.3	.4	1.2	61	6.4	100	86	55	0	0	7	2	0	0
CINCINNATI	49	28	57	16	38	-.5	.5	-.5	.3	1.3	50	6.2	79	87	38	0	0	5	2	0	0
CLEVELAND	40	25	51	18	32	-.5	.3	-.4	.2	.6	35	4.0	67	84	53	0	0	7	4	0	0
COLUMBUS	46	27	56	17	37	-.2	.3	-.5	.2	.9	50	6.3	104	84	46	0	0	7	2	0	0
DAYTON	46	26	54	15	36	-.4	.3	-.5	.2	1.1	52	6.1	97	83	44	0	0	6	2	0	0

Based on 1961-90 normals.

Weather Data for the Week Ending March 19, 1994

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
TOLEDO	42	25	50	16	33	-3	.2	.5	.1	1.0	66	5.8	115	84	51	0	7	2	0
YOUNGSTOWN	38	22	50	15	30	-6	.7	.0	.0	2.0	107	6.2	103	90	51	0	7	4	0
OK OKLAHOMA CITY	75	46	86	39	61	10	.6	.6	.0	3.0	183	5.7	133	71	27	0	0	0	0
TULSA	75	46	86	34	60	10	.4	.8	.0	2.3	115	5.2	94	75	29	0	0	0	0
OR ASTORIA	58	43	65	39	49	3	2.5	.9	.7	4.6	101	22.7	103	97	66	0	0	5	3
BURNS	58	33	70	15	40	4	.4	.2	.4	.2	25	.9	39	78	23	0	7	1	0
MEDFORD	62	33	74	27	47	0	.2	.2	.2	.3	23	2.5	44	85	37	0	2	2	0
PENDLETON	60	37	71	30	49	4	.1	.1	.1	.4	54	3.7	108	69	30	0	1	1	0
PORTLAND	58	41	67	37	50	2	.5	.4	.1	.9	38	9.3	81	86	33	0	0	5	0
SALEM	60	39	70	36	50	4	.5	.5	.3	.3	41	9.6	73	86	35	0	0	4	0
PA ALLENTOWN	43	26	51	19	35	-5	.3	.4	.3	1.1	182	12.5	154	80	45	0	5	3	0
ERIE	35	23	45	16	29	-7	.9	.2	.3	2.1	115	6.0	95	92	57	0	7	5	0
HARRISBURG	42	31	52	24	36	-5	.2	.5	.3	3.7	184	12.5	161	74	51	0	5	1	0
PHILADELPHIA	49	31	58	23	40	-1	.2	.6	.1	3.7	176	11.2	130	81	41	0	5	2	0
PITTSBURGH	43	25	54	14	34	-5	.6	.2	.3	3.2	154	9.2	132	83	45	0	6	4	0
SCRANTON	42	25	52	16	33	-4	.4	.4	.2	2.1	139	6.4	110	83	48	0	5	2	0
RI PROVIDENCE	47	28	54	24	38	0	.2	.8	.1	4.4	181	12.1	121	87	42	0	6	2	0
SC CHARLESTON	71	46	78	36	58	0	.2	.1	.1	3.8	140	12.6	133	71	23	0	0	2	0
COLUMBIA	71	37	80	30	54	-1	.1	.1	.1	2.2	73	10.4	90	73	23	0	2	0	0
FLORENCE	70	42	80	32	56	0	.1	.9	.0	2.2	83	9.1	97	71	21	0	1	2	0
GREENVILLE	67	35	77	25	51	-1	.1	.2	.3	1.8	54	9.5	80	56	23	0	3	0	0
SD ABERDEEN	47	32	62	25	40	11	.1	.3	.3	1.0	1.3	73	84	52	0	4	0	0	0
HURON	55	32	76	25	44	12	.2	.4	.1	.9	1.7	86	86	45	0	5	1	0	0
RAPID CITY	66	32	76	26	49	15	.2	.2	.1	2.2	1.2	86	64	21	0	4	1	0	0
SIoux FALLS	56	32	73	23	44	11	.4	.4	.4	.1	0	1.6	79	75	38	0	3	0	0
TN CHATTANOOGA	66	35	74	28	50	0	.4	.4	.4	2.8	75	16.6	123	74	24	0	1	1	0
KNOXVILLE	62	36	72	27	49	0	.1	.1	.1	3.2	100	19.1	167	71	25	0	2	2	0
MEMPHIS	69	46	80	38	58	5	.2	.2	.2	2.2	68	12.1	106	61	24	0	0	0	0
NASHVILLE	64	41	72	30	52	2	.1	.1	.1	3.2	109	13.8	133	60	25	0	1	1	0
TX ABILENE	79	48	92	37	64	7	.3	.3	.3	1.0	1.9	65	90	28	1	0	2	1	0
AMARILLO	74	39	84	29	56	9	.2	.2	.2	.9	147	2.0	116	73	21	0	2	0	0
AUSTIN	75	57	86	49	66	5	.7	.2	.6	1.6	137	5.1	102	95	53	0	0	2	1
BEAUMONT	75	54	81	43	65	3	.6	.1	.6	3.6	180	11.8	116	97	54	0	0	1	1
BROWNSVILLE	76	59	82	53	67	-1	1.6	1.5	1.4	1.8	613	4.3	146	97	42	0	0	3	1
CORPUS CHRISTI	72	60	79	55	66	0	3.4	3.3	2.5	3.5	578	5.5	129	97	63	0	0	4	2
DEL RIO	75	57	91	55	66	4	2.1	1.9	.9	2.5	403	5.2	167	91	50	1	0	4	2
EL PASO	73	51	83	42	62	7	.4	.3	.3	.4	185	.6	62	73	29	0	0	2	0
FORT WORTH	79	52	86	41	65	10	.1	.6	.1	1.3	74	4.8	79	88	37	0	0	1	0
GALVESTON	70	61	78	56	66	4	.5	.5	.5	1.6	119	4.2	61	96	59	0	0	1	0
HOUSTON	76	53	82	44	65	4	1.0	.3	1.0	2.2	113	7.1	76	96	48	0	0	1	1
LUBOCK	77	42	85	34	60	9	.0	.2	.0	.2	33	.7	47	90	21	0	0	0	0
MIDLAND	78	45	89	37	62	6	.1	.1	.1	.0	1.1	83	91	31	0	0	0	0	0
SAN ANGELO	78	50	94	41	64	6	.2	.2	.2	.8	2.1	87	94	36	1	0	1	0	0
SAN ANTONIO	75	59	87	52	67	5	2.8	2.5	2.3	3.5	393	5.7	129	94	55	0	0	3	1
VICTORIA	72	57	80	50	65	2	2.8	2.3	2.1	4.7	337	6.9	92	96	69	0	0	3	1
WACO	77	53	83	42	65	7	.5	.5	.5	.8	56	5.5	107	98	51	0	0	1	0
WICHITA FALLS	78	46	91	39	62	9	.0	.6	.0	1.1	72	2.9	61	80	23	1	0	0	0
UT CEDAR CITY	64	37	71	28	51	11	.1	.2	.1	.6	70	1.9	80	66	25	0	3	1	0
SALT LAKE CITY	63	38	72	30	50	9	.2	.2	.2	.6	57	2.8	80	73	30	0	1	1	0
VT BURLINGTON	36	23	42	11	29	-2	.6	.1	.2	2.1	162	5.5	117	90	63	0	6	6	0
VA NORFOLK	59	38	73	31	49	0	.2	.7	.1	7.6	328	15.3	160	69	30	0	1	3	0
RICHMOND	59	35	72	27	47	-1	.2	.7	.2	3.9	173	11.4	131	74	27	0	2	1	0
ROANOKE	57	34	68	26	46	-1	.1	.7	.1	2.5	117	12.4	159	65	24	0	4	1	0
WA QUILLAYUTE	52	39	61	32	45	2	3.6	1.0	1.6	8.9	120	36.7	107	95	70	0	1	5	3
SEATTLE-TACOMA	55	41	63	37	48	3	.7	.1	.3	2.4	107	9.4	81	90	61	0	0	5	3
SPOKANE	52	34	62	27	43	5	.2	.1	.2	.4	41	2.6	60	80	46	0	3	2	0
YAKIMA	60	31	70	19	46	3	.2	.2	.2	.0	1.4	59	83	36	0	4	0	0	0
WV BECKLEY	47	29	56	18	38	-4	.3	.4	.1	3.1	152	13.0	163	80	36	0	3	5	0
CHARLESTON	52	32	63	22	42	-4	.5	.4	.3	4.5	204	16.5	202	79	33	0	3	5	0
HUNTINGTON	52	33	61	21	42	-1	.5	.3	.3	5.7	264	15.5	189	77	32	0	3	3	0
PARKERSBURG	50	29	59	18	39	-3	.3	.6	.1	2.7	115	13.9	167	72	35	0	4	2	0
WI GREEN BAY	41	21	54	14	31	1	.2	.3	.2	.3	25	2.9	85	81	49	0	7	1	0
LACROSSE	44	25	56	18	35	2	.2	.2	.2	.2	.2	.2	82	42	0	0	.2	.2	0
MADISON	44	21	56	17	33	-1	.1	.1	.1	.1	.1	.1	86	45	0	7	.2	.2	0
MILWAUKEE	42	24	49	19	33	0	.2	.2	.2	.2	.2	.2	84	49	0	7	2	0	0
WAUSAU	40	21	50	15	30	2	.1	.3	.1	.1	.1	.1	84	47	0	7	2	0	0
WY CASPER	66	34	71	23	50	17	.1	.1	.1	.2	14	1.6	56	77	37	0	7	2	0
CHEYENNE	63	34	67	25	48	15	.1	.2	.0	.2	35	1.6	98	70	21	0	3	1	0
LANDER	62	32	69	26	47	13	.2	.2	.2	.4	65	1.9	141	71	18	0	2	0	0
SHERIDAN	65	31	77	25	48	14	.2	.2	.2	.5	80	1.8	108	62	20	0	3	0	0

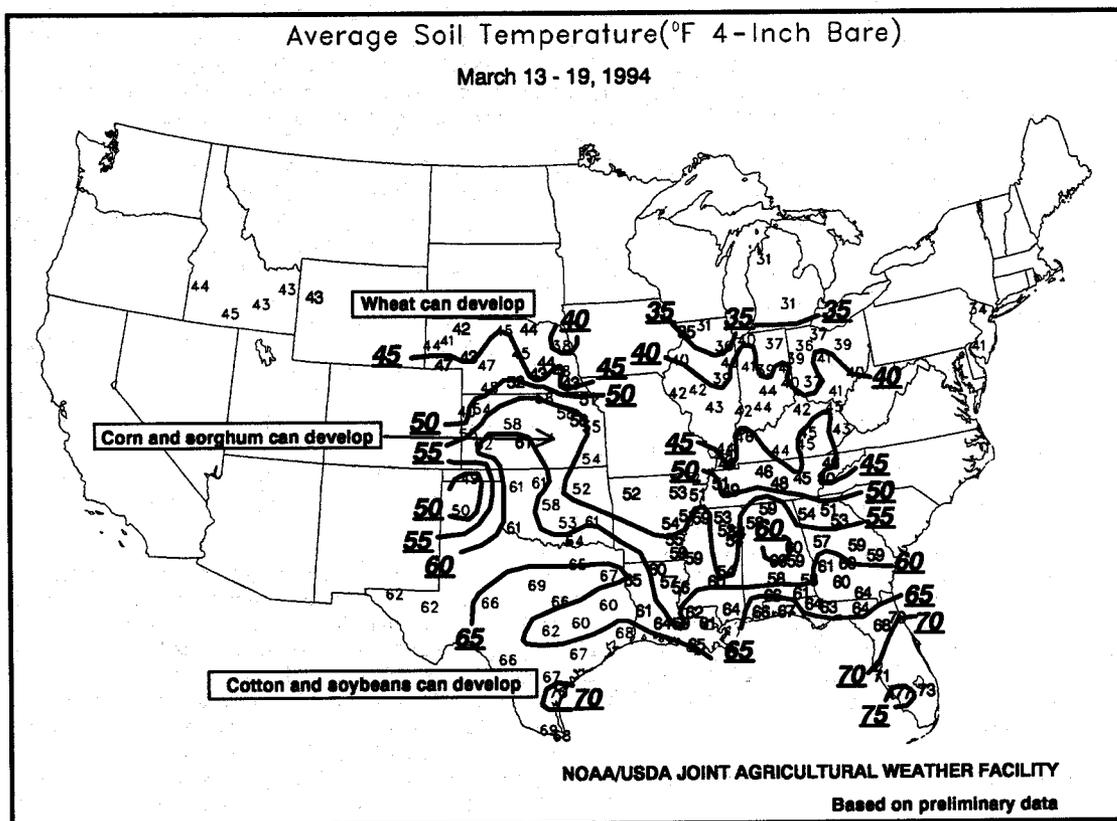
Based on 1961-90 normals.

National Agricultural Summary

March 14 - 20, 1994

A generally quiet weather week prevailed across much of the Nation, permitting field activity to progress. Late in the week, rain fell along the northern Pacific Coast, but soil moisture remained a concern further inland. The warm days and mild nights greened winter grains along the northern Pacific Coast. In the southern Pacific Coast region, the mild weather allowed fieldwork to proceed and promoted excellent growth for small grains and forage crops. Heading of small grains occurred in southern California. Pre-irrigation, in preparation for cotton planting, continued in Arizona. The warm weather completely melted the snowpack in the upper Great Plains and caused winter wheat to break dormancy. Warm, dry weather in the central Great Plains spurred field preparation. In the central High Plains, the continued lack of moisture concerned

the winter wheat producers, though the moderate temperatures boosted winter wheat growth. Winter wheat made excellent progress in Texas, and some southern counties reported wheat heading. Treatment for greenbugs continued in Texas and Kansas. Snow fell across the Great Lakes States late in the week, which prevented any fieldwork. Despite lack of rain, soil moisture in the Mississippi Valley was abundant, and fertilizing in preparation for spring planting occurred. Cold weather early in the week gave way to spring weather that permitted some plowing and disking in the Ohio Valley. Snow and freezing rain fell across the northern Atlantic States, maintaining a deep snow cover over parts of Pennsylvania and New York. Warm, dry weather in the southern Atlantic States allowed topdressing of small grains and liming of corn and soybean fields.



State Summaries of Weather and Agriculture

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

ALABAMA: Rainfall none to 0.03 in. north; no rainfall central, south. Temperatures 1° below normal to 8° above normal north; 1° below normal to 5° above normal central, south. Lows 23 to 33° north; 24 to 35° central; 26 to 42° south. Highs 73 to 82° north; 78 to 84° central; 80 to 84° south.

Days suitable for fieldwork 5.8. Soil moisture 80% adequate, 20% surplus. Percent acreage prepared 34%, 29% 1993, 31% avg. Corn planted 10%, 11% 1993, 25% avg. Wheat headed 13%, 5% 1993, 11% avg.; 5% poor, 47% fair, 45% good, 3% excellent. Pasture 5% very poor, 10% poor, 54% fair, 29% good, 2% excellent. Livestock 7% poor, 49% fair, 42% good, 2% excellent. Primary activities: Spring plowing, general care of livestock, poultry, catfish.

ARIZONA: Temperatures continue above normal; 5 to 10° above. Extremes 23°; 84° higher elevations; 37°; 93° deserts. Precipitation mostly between 0.10 to 0.75 in. Ranges were trace to 5.06 in.

Pre-irrigation, other field preparations for cotton planting increasing; planting continues Yuma county. Small grain jointing 86%, 75% 1993, 77% avg.; heading 23%, 20% 1993, 23% avg. Alfalfa condition good. Harvest progress moderate, sheeping off activities light; stand renovation, new stand establishment normal. Citrus harvest continues. Grapefruit, lemons, navel, sweet oranges available central, western areas. Also available western, valencia oranges. Tangerines, tangelos available central area. Winter vegetable harvest continues active. Available from western, central

areas: Bok choy, broccoli, cauliflower, kale, iceberg, leaf, romaine lettuces, spinach. Western harvest also included: Anise, artichokes, asparagus, broccoflower, celery, endive, escarole, boston lettuce, salad savoy. Central crops available included cabbage, carrots, dill, fava beans, green onions, kohlrabi, leeks, mixed greens, radishes, rappini, rutabagas, swiss chard, turnips. Tomatoes remain available eastern areas.

ARKANSAS: Warm, dry week. Temperatures 5 to 10° above normal. Extreme 21°; 86°. Precipitation none to 0.05 in.

Soil moisture supplies remain adequate to surplus. Wheat condition fair to good, nitrogen application continues. Wheat in south beginning joint stage. Cotton bed preparation, fertilization beginning on dry ground. Livestock, pastures good. Cattle beginning to graze fescue.

CALIFORNIA: Drying, warming trend 18th to 20th. On 16th, locally heavy precipitation received.

Good progress field activities, open weather most areas. Small grains, forage crops, new alfalfa excellent growth; dryland fields need rain soon. Wheat, oats started heading southern counties. Herbicide applications winding down. Rice stubble burned where conditions, air quality regulations allowed. Fields cultivated, pre-irrigated, preparation for planting corn, cotton, dry beans, safflower. Cotton planting active desert areas, expected shortly San Joaquin Valley. Alfalfa, oats cut hay, greenchopped central, southern counties. Treatments aphids, weevils most areas. Sugarbeet harvest underway. Few early fields safflower planted. Stone fruit bloom complete; trees developing leaves. Beehives removed from almond orchards. Grape vines leafed out. Navel orange harvest increased pace; about 60% of crop picked. Grapefruit, lemon harvest active Riverside County. Strawberry harvest continued. Asparagus harvest San Joaquin Valley continued good quality, heavy volume. Harvest broccoli continued San Joaquin, Imperial valleys. Cabbage harvested Fresno County. Cauliflower harvested desert valleys. Head lettuce fields harvested desert valleys good quality. Lettuce Tulare County making excellent progress ideal growing conditions. Plastic caps removed melons Fresno County. Melon fields planted Tulare County, Blythe area. Peppers transplanted prepared beds Fresno County. Spinach harvested Stanislaus County. Fresh market tomatoes transplanted prepared fields central, desert valleys. Processing tomato fields planted Colusa County. Fields prepared for sweet corn Tulare County. Along central coast, vegetable plantings growing well. Fall vegetable harvest desert valleys nearing completion. Other crops being harvested: Beets, taro root, turnips, oriental vegetables. Rangeland, pasture fair to good. Grasses growing well, additional rainfall needed to sustain growth. Sheep being moved off alfalfa. Cows, newborn calves doing well.

COLORADO: High pressure dominated on the 14th through the 18th. During this period, dry weather, very warm temperatures were noted across the lower elevations. Gustly winds were reported in the northeast on the 16th. On the 17th, a weak system moved across the northern mountains, northeast with 1 to 2 in. of snow. New record highs were recorded at several locations on the 15th, 16th. A Pacific cold front moved into the State on the 19th bringing snow, rain to the west, snow to southern sections of the State. Heavy snow was reported in the San Juans. Temperatures mostly 7 to 10° above normal.

Days suitable for fieldwork 5.3. Soil moisture 4% very short, 38% short, 56% adequate, 2% surplus. Spring barley 10% seeded, 3% 1993, 9% avg. Oats 10% seeded, 1% 1993, 5% avg. Dry onions 15% planted, 4% 1993, 9% avg. Winter wheat 5% pastured, 4% 1993, 7% avg.; 1% very poor, 2% poor, 14% fair, 73% good, 10% excellent. Cows calved 50%, 54% 1993, 47% avg. Ewes lambed 57%, 58% 1993, 53% avg. Livestock good to excellent. Pasture, range feed condition mostly fair.

FLORIDA: Temperatures 4° below normal to 5° above normal. Highs; 80s. Lows; 30s north to mid 50s southeast coast. Most stations dry for the entire week.

Soil moisture mostly short to adequate throughout State. Tobacco transplanting active. Corn planting active. Making preparations cotton, peanut planting. Citrus trees, groves very good to excellent condition. Very little rain, most using irrigation. Rain, moisture conditions not beneficial during bloom periods. Many groves finished blooming. Early, mid orange harvest nearly complete. Valencia orange harvest increasing with some older blocks now being picked. Caretakers cutting cover crops, post bloom spraying, hedging, topping. Almost no rainfall in major vegetable production areas. Growers irrigating, drenching fields, especially newly transplanted fields. Temperatures dipped to freezing north, minimal damage reported. Planting activity increasing, north, harvesting central area. Leading vegetable shipments: tomatoes, peppers, cabbage, strawberries, potatoes. Also available: snap beans, carrots, celery, chinese cabbage, sweet corn, cucumbers, eggplant, escarole, iceberg lettuce, leaf lettuce, romaine, specialty lettuces, radishes, squash, cherry tomatoes. Pasture 5% poor, 20% fair, 75% good. Cattle herds mostly good condition.

GEORGIA: Very little rain. Temperatures 2 to 4° above normal most locations. Briefly cold late in week with freezing temperatures north, 17th, scattered frost colder locations central, south. Coldest minimums mostly low to mid 30s, varied from mid to upper 20s mountains to upper 30s along coast. Warmest temperatures 20th, maximums mid to upper 70s north, low to mid 80s central, south.

Days suitable for fieldwork 5.7. Soil moisture 9% short; 83% adequate; 8% surplus. Corn 41% fair, 55% good, 4% excellent; 27% planted, 10% 1993, 18% avg.; planting active. Tobacco 73% fair, 19% good, 8% excellent; 2% transplanted, 1% 1993, 6% avg.; Transplanting slowed by high winds, cool temperatures. Wheat 15% fair, 82% good, 3% excellent; 67% jointing, 44% 1993, 64% avg.; 11% boot, 7% 1993, 13% avg.; farmers applying nitrogen. Other small grains 18% fair, 82% good. Onions 56% good, 44% excellent. Watermelons 58% fair, 42% good; 8% planted, 5% 1993, 15% avg. Other vegetables 33% fair, 64% good, 3% excellent. Apples 24% fair, 76% good; 0% blooming, 1% 1993, 9% avg. Peaches 13% poor, 4% fair, 83% good; 82% blooming, 64% 1993, 75% avg.; some slight frost damage. Pasture 4% poor, 42% fair, 52% good, 2% excellent. Farmers applying fertilizer. Cattle, hogs good. Activities: preparing land for spring planting, planting corn, fertilizing small grains, pastures.

HAWAII: Strong high pressure system north of Islands produced gale force winds, 30 to 45 mph during week. Wind, gusting at times to over 60 mph buffeted State. Weather mostly overcast, cool and damp. Rain none to 5.70 in. Temperatures low 60s to mid 80s.

Spraying activities for insect, disease control curtailed by high wind. Cool windy conditions slowed crop progress. Banana production declined, leaf shredding by wind to orchards in exposed areas. Papaya output declined slightly. Vine, truck crops some exposed areas adversely affected. Overall damage to agriculture considered minor. Some isolated serious structural damage to nursery greenhouses Island of Hawaii. Barge service suspended several days during week disrupting shipments from neighbor islands to Honolulu markets.

IDAHO: Temperatures 4 to 11° above normal. Precipitation 0.04 to 0.89 north, none southwest, none south central, none to 0.03 in. east.

Soil moisture adequate. Hay, roughage supplies adequate. Activities: Shop activities, spreading fertilizer, field preparation, livestock care. Planting of sugarbeets, small grains was active in southern area. Seed potato movement continues to be active. Livestock in good condition with calving, lambing continuing.

ILLINOIS: Dry with a warming trend last week, allowing producers to begin limited fieldwork. Temperatures normal to above normal. Highs 46 to 67°. Lows 25 to 41°. Precipitation 0.10 to 0.20 in. central, southern locations with many locations in the west noting little to no precipitation. Amounts up to 0.25 to 0.75 in. over the north.

Oats planted 2%, less than 1% 1993, avg. 8%. Soil moisture adequate 72%, surplus 28%. Winter wheat very poor 2%, poor 16%, fair 54%, good 28%. Farmers were concerned with condition of the wheat crop, short hay supplies, muddy feedlot conditions.

INDIANA: Temperatures 4° below normal to 4° above normal. Highs in the middle 40s to middle 50s. Mean lows mid 20s to mid 30s. Precipitation, liquid equivalent, totaled 0.50 in. often 0.25 in. or less. Four-inch soil temperatures were in the upper 30s north to upper 40s; average minimums were in the lower 30s to lower 40s.

Wheat poor to fair, most areas. Hay supplies adequate to good. Livestock good. Spring tillage has started on a very small scale in some locations. Main activities: manure hauling, top dressing wheat, spreading fertilizer. Other activities: purchasing supplies, lime spreading, equipment setup, farm program sign up.

IOWA: A mild week with temperatures averaging 3° above normal east to 10° above normal west. Extremes 17°; 75°. Measurable rainfall confined to the 20th. Rain totals trace far west to 0.59 in. east-central; State average 0.08 in. (normal 0.51 in.).

Oat seeding has begun in southern areas. Farmers are applying fertilizer, preparing for spring planting.

KANSAS: Temperatures 10 to 16° above normal. Precipitation fell in the southeast only, which had 0.02 in.

Days suitable for fieldwork 5.0. Topsoil 45% short to very short, 51% adequate, 4% surplus. Subsurface moisture 17% short to very short, 73% adequate, 10% surplus. Tillage limited in northern counties, spraying possible. A few acres dryland corn planted southern areas. Irrigation started on wheat ground, land being prepared for row crops. Wheat jointing 3%, 0% 1993, 4% avg. Above normal temperatures all week promoted wheat growth. Wheat fields planted early last fall growing rapidly. Light insect, disease infestations southern third of State. Greenbugs treatment levels south central. Diseases mentioned include various types of mosaic, septoria, rust. Farmers topdressing fertilizer, weed control. Almost all areas report short to very short topsoil moisture conditions on a significant percent of acreage. Wheat 52% good to excellent, 46% fair, 2% poor to very poor. Oats planted 60%, 10% 1993, 60% avg. Spring barley planted 45%, 5% 1993, 50% avg. Calving, lambing continue with limited problems. Movement to spring grazing increasing. Sale barn activity picking up as breeding stock being sold. Pasture, ranges good to excellent. Cool-season pasture burning underway.

KENTUCKY: Normal temperatures. Highest readings mid to upper 70s, lowest teens some locations. Average temperatures 42 to 45°, 1 or 2° below normal. Rainfall light, highest totals around 0.25 in. over east. Many reporting stations received no rainfall.

Final burley tobacco auction held for season. Topsoil moisture generally ample. Drier, warmer weather allowed limited field activities, reduced livestock stress. Winter wheat beginning to green.

LOUISIANA: Temperatures 0.8° below to 4.6° above normal. Extremes 33°; 85°. Rainfall none most areas to 0.16 in. southwest.

Days suitable for fieldwork 4.4. Soil moisture 84% adequate, 16% surplus. Corn 30% planted, 25% 1993, 27% avg.; 3% emerged, 5% 1993, 7% avg. Drier weather allowed planting to gain momentum. Rice 3% planted, 2% 1993, 6% avg.; 0% emerged, 0% 1993, 2% avg. Planting began in the south in most parishes. Wheat 8% poor, 66% fair, 26% good; 3% headed, 4% 1993, 11% avg. Sorghum 0% planted, 0% 1993, 1% avg. Spring plowing 30% plowed, 28% 1993, 25% avg. Active with drier conditions. Sugarcane 10% poor, 69% fair, 21% good. Growers resumed field activities such as off-barring, spraying of herbicides. Livestock 2% poor, 61% fair, 33% good, 4% excellent. Ranchers tended calves, managed pasture land. Pasture 11% very poor, 4% poor, 9% fair, 74% good, 2% excellent. Pasture fertilization was active with the drier weather. Vegetables 11% poor, 62% fair, 27% good. Strawberry harvest progressed through the early stages.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 0.14 in., normal 0.90 in. Average temperature 40.6°, normal 42.2°. Extremes 3°; 67°.

Activities: Caring for livestock. General farm chores.

DELAWARE: Precipitation 0.06 in., normal 0.90 in. Temperature 40.3°, normal 42.7°. Extremes 21°; 61°.

Activities: Caring for livestock. General farm chores.

MICHIGAN: Extremes 1°; 53°. Precipitation 0.02 to 0.83 in. A snowstorm moved through late in the week dusting the southern third of the Lower Peninsula with an inch of snow, dumping as much as 6 in. on the northern two-thirds of the Lower Peninsula.

Most livestock are in good condition. Feed supplies remained adequate. Major activities included: Caring for livestock, hauling manure, spreading fertilizer, preparing tax returns, repairing machinery, buildings, pruning fruit trees.

MINNESOTA: Temperatures 3 to 10° above normal. Extremes 8°; 70°. Precipitation, 0.09 to 0.47 in. below normal, except 0.06 above normal northwest. State average 0.26 in. Greatest weekly total was 0.70 in. Snowfall 3 in. for the north half, a trace or less elsewhere. Snow depth at week's end averaged a trace or less for the southern two-thirds, 1 to 6 in. elsewhere.

Livestock are coming through the winter in good condition. Feed supplies are holding up though the quality varies.

MISSISSIPPI: Temperatures 2.1° above normal. Extremes 20°; 85°. There was virtually no rainfall across the entire State; 1.38 in. below normal. Soil temperatures 57°.

Days suitable for fieldwork 4.6. Soil moisture 2% short, 87% adequate, 11% surplus. Corn 11% planted, 6% 1993, 11% avg.; 71% fair, 22% good, 7% excellent. Watermelons 5% planted, 3% 1993, 7% avg. Wheat 21% jointed, 31% 1993, 50% avg.; 58% fair, 42% good. Hay supply 16% very short, 55% short, 29% adequate. Livestock 37% fair, 60% good, 3% excellent. Pasture 82% of normal. Activities: Land preparation for spring crops, planting corn.

MISSOURI: Temperatures 3 to 9° above normal across the State. Precipitation across State 0.03 in, ranging from no precipitation, northwest, north central, west central to 0.14 in., east central.

Warmer weather, spring-like conditions have farmers preparing for plantings. Wheat, pastures making grow, wheat stands below normal.

MONTANA: Temperatures 12 to 21° above normal. Precipitation light to none.

Winter wheat breaking dormancy. Wind damage to winter wheat mostly none to light. Livestock grazing is mostly open. Livestock in most regions are receiving supplemental feed. Calving, lambing is progressing under mild conditions. Some fieldwork started.

NEBRASKA: Temperatures 10 to 15° above normal. Only a few scattered trace amounts of precipitation occurred throughout week.

Producer activities included equipment readiness activities, acquiring spring planting supplies, livestock care, routine chores.

NEVADA: Mostly sunny with windy conditions; a few rain, snow showers late in period. Temperatures 8 to 12° above normal, some records broken. Extremes 9°; 88°.

Spring fieldwork continues to progress. Crop producers using surface water for irrigation are concerned about water allocations. Calving, lambing activities continue with no unusual problems. Major activities: Spring fieldwork, care, feeding of livestock.

NEW ENGLAND: Precipitation 0.15 to 0.66 in. Temperatures 22 to 36° north; 22 to 38° south. Temperatures 35 to 52° north; 43 to 57° south. Minimum temperatures 8 to 22° north; 11 to 29° south.

Major activities: Sugaring throughout region. Planning plantings. Tending livestock. Starting to spread manure on some fields.

NEW JERSEY: Temperatures much below normal. Extremes 15°; 61°. Rainfall 0.41 in. north, 0.42 in. central, 0.11 in. south. Heaviest 24 hour total 0.38 in. on 18th, 19th. Estimated soil moisture, in percent of field capacity, averaged 100% north, 100% central, 99% south. Four-inch soil temperatures 32° north, 32° central, 39° south. Heaviest 24-hour snowfall 4 in. on 18th to 19th.

Farmers busy caring for livestock; repairing equipment; preparing for spring planting, plowing snow.

NEW MEXICO: In spite of an end-of-week cool snap, temperatures averaged well above normal. Temperatures 9 to 10°

above normal. Some precipitation fell at the majority of the reporting locations, most totals were under a quarter of an inch.

Days suitable for fieldwork 6.6. Soil moisture 76% short, 23% adequate, 1% surplus. Conditions: alfalfa 9% poor, 46% fair, 44% good, 1% excellent. Irrigated wheat 22% poor, 49% fair, 28% good, 1% excellent. Dryland wheat 42% very poor, 50% poor, 8% fair. Wheat pasture being grazed, 50% of irrigated, 25% of dryland. Onions 13% fair, 87% good; transplants still going in. Lettuce mostly good. Cattle, sheep poor to good. Range feed conditions 59% of normal.

NEW YORK: Weather remained cold. Warmest first half of week with highs in mid 30s to mid 40s. Temperatures about 10° colder during the second half of the week. Extremes 1°; 56°. Precipitation below normal. A mixture of snow, freezing rain, rain fell during midweek. From 2 to 5 in. of snow fell on the 18th.

Activities: caring for livestock, moving crops from storage, attending meetings, machinery maintenance. Maple syrup producers readying for upcoming season.

NORTH CAROLINA: Temperatures 2° below normal to 5° above normal. Largest positive departures were in the southern Piedmont. Rainfall 0.91 in. at Wilmington to no rain at several locations.

Days suitable for fieldwork 4.3. Soil moisture 5% short, 69% adequate, 26% surplus. Crop conditions: Wheat 5% poor, 19% fair, 74% good, 2% excellent; oats 3% poor, 27% fair, 70% good; barley 24% fair, 70% good, 6% excellent; rye 16% fair, 84% good; pasture 3% very poor, 5% poor, 59% fair, 33% good; tobacco plant bed; 3% poor, 27% fair 65% good, 5% excellent; Irish potatoes; 35% poor, 46% fair, 19% good; hay, roughage supplies 8% very short, 50% short, 42% adequate. Feed grain supplies 13% short, 83% adequate, 4% surplus. Activities included: Topdressing small grains, tobacco plant bed maintenance, preparing land for planting.

NORTH DAKOTA: Temperatures 6° below to 14° above normal. Extremes 11° east central; 64° southwest.

Warm temperatures eliminated snow cover in many areas. Winter wheat, rye, alfalfa continued in good condition. Calving, lambing were well underway in many areas. Newborn calves, lambs in good condition. Cattle, sheep were in good condition. Feed supplies remained adequate in most areas. Wet ground conditions causing some isolated health problems in livestock.

OHIO: Colder, drier than normal. Cold weather early in the period gave way to spring-like temperatures, thunderstorms by the 19th. High temperatures mid to upper 30s far northwest to the low to mid 50s far south, normal to 7° below normal. Lows 20s north to the mid 20s to mid 30s south, 1 to 7° below normal. Lowest readings were in the teens. Precipitation 0.15 to 0.50 in., which was 0.15 to 0.60 in. below normal. Snow cover was gone from most areas by week's end. Soil temperatures (4-in. depth under bare ground) averaged mid to upper 30s north to around 40° south.

Plowing, disking for the upcoming growing season has started in some areas. Livestock remained in good condition.

OKLAHOMA: Temperatures 12° above normal southeast to 15° above normal northeast. Precipitation none statewide.

Topsoil 2% short, 87% adequate, 11% surplus. Subsoil 27% short, 73% adequate. Wheat 40% fair, 56% good, 4% excellent; 23% jointing, 20% 1993, 28% avg. Sorghum 22% seedbed prepared, 5% 1993, 23% avg. Cotton 24% seedbed prepared, 32% 1993, 31% avg. Feeders steady to \$2.00 cwt. higher. Stockers, calves \$2.00 to \$4.00 cwt. higher.

OREGON: Temperatures above normal statewide. Precipitation coastal areas 1.00 to 2.50 in., western valleys 0.50 in., Cascades 1.00 in., eastern portions up to 0.10 in.

Soil moisture: short to adequate. Dormant sprays being applied; caneberrys, fruit crops. Peaches, prunes full bloom; Willamette Valley. Some ground preparation, limited planting underway, vegetables; Willamette Valley. Fertilizer being applied to wheat. Russian wheat aphids reported, heavily infested fall areas;

Columbia Basin. Spring wheat seeding continues, Columbia Basin. Eastern field preparation well ahead of normal, dry conditions. Livestock good to excellent. Lambing, calving winding down statewide, low mortality rates. Livestock being turned out in many locations. Feedlot conditions excellent, Columbia Basin.

PENNSYLVANIA: Light precipitation almost every day. Significant snowstorm 18th. Temperature 35°, 1° above normal. Extremes 8°; 58°. Precipitation 0.52 in., 0.24 in. below normal.

Activities: Hauling manure; fixing fence; caring for livestock.

PUERTO RICO: Island rainfall 0.39 in. was 0.18 in. below normal. Highest rainfall 2.50 in. at San Sebastian, 1.86 in. at Adjuntas Aes. Highest 24 hour total was 2.40 in. at San Sebastian. Island temperatures 76 to 77° on the coasts, 70 to 72° interior with mean station temperature ranging from 78.7° at San Juan WSFO to 63.0° at Pico del Este Luquillo. Extremes 54°; 93°.

SOUTH CAROLINA: Temperatures 1 to 3° above normal. Rainfall 0.10 in.

Activities: corn planting underway. Small grain conditions improved slightly; no wheat diseases. Tobacco beds remain good. Rain needed in some areas. Land preparations continued. Livestock good.

SOUTH DAKOTA: Temperatures 10 to 15° above normal. Extremes 14°; 79°. Precipitation below normal statewide. Maximum 0.49 in. Snow cover remained in the northeast only, amounts trace to 3 in.

Ranchers busy caring for livestock. Calving, lambing underway in most areas. Other farm activities: Hauled grain, prepared equipment for fieldwork, secured seed supplies.

TENNESSEE: Temperatures in west 9° above normal for the week, middle was 5° above, east was 1° above. Most areas highs in the 60s. Extremes 59° Bristol; 72° Memphis. Lows in the 30s over the East, Plateau, 40s in middle, west. Lows 32° Bristol to 48° Memphis. Rainfall was light, below normal by over 1.00 in. West was below normal by 1.34 in., middle 1.28 in., Plateau by 1.31 in., east 1.25 in.

Fieldwork picked up during the week. Farmers in west got some corn planted, many were able to apply fertilizer to wheat. Wheat is in fair to good condition. Growers in middle, east made considerable gains with field preparation as well, soil moisture levels are still higher than desired. Vegetable plantings are active in middle. Livestock good condition.

TEXAS: North Texas was generally dry last week, while a slow-moving low pressure trough brought heavy rain to locations south of Interstate 10. Consequently, High Plains, Low Rolling Plains, North Central, East Texas divisions all reported below average rainfall last week. Other six divisions reported above normal precipitation, led by Southern Texas (average of 2.63 in.), South Central Texas (1.71 in.) Lower Valley (1.52 in.). Some of larger station totals were 3.48 in. at Kingsville Naval Air Station, 3.02 in. at Alice, 2.68 in. at San Antonio. Temperatures were above normal across entire State last week, with northern, western sections well above normal. In fact, High Plains (+12), Low Rolling Plains (+10), North Central (+13), East Texas (+10), Edwards Plateau (+10) divisions were more than 10° above normal. Mean soil temperatures were mostly in 60s across State last week. However, range of mean soil temperature was from 50° Bushland to 70° at Corpus Christi. Highest daily soil maximum temperature was 81° at Beaumont, Stephenville, while lowest daily minimum soil temperature was 44° Lavon Dam.

Crops: Corn in High, Low Plains, producers were applying herbicides, preparing to plant. Land preparation was stopped in some areas due to dry soil conditions. Early planted fields in Blacklands continued to emerge. In some areas of Edwards Plateau, South Central Texas, Coastal Bend, along Upper Coast, planting was delayed or stopped due to rain early in week. Sorghum planting was active across much of State where conditions allowed. Early planted fields have emerged. Cotton fertilizer, herbicides were applied to cotton ground in Low Plains. Land preparation was active where soil conditions allowed. Some pre-plant irrigation occurred in Trans-

Pecos. Rice planting was interrupted by rain along Upper Coast. Small grains made excellent progress across much of State with some southern fields beginning to head. Fields were sprayed for greenbugs in some areas of Plains, where insects continued to be a problem. Oats made good progress in Edwards Plateau. In South Texas, oat stands are light due to a lack of moisture earlier in growing season. Statewide wheat condition 66% normal, 72% 1993.

Commercial Vegetables: Rio Grande Valley onion harvest continued. Harvest of cole crops winding down. High Plains onion planting began. Producers were preparing to plant carrots, potatoes. San Antonio-Winter Garden harvest was delayed due to rains early in week. East Texas land preparation continued. Cool season crops made good progress. Some watermelon plants were transplanted. Trans Pecos land preparation continued. Onions made good progress. Peaches some freeze damage was beginning to show on some trees from last weeks' freeze, extent of damage still unknown. Some trees were in petal fall stage in East Texas. In Edwards Plateau, some producers were spraying for fungus diseases.

Range and Livestock: Open weather continued to promote growth of cool season weeds, grasses. Supplemental feeding continued across State, reduced levels. Cattle were being moved off wheat pastures in High Plains. Some ranchers were branding cattle in Northern Low Plains. Goats continued to be clipped in Edwards Plateau. Sprigging pastures with Coastal Bermuda continued in Blacklands, East Texas. Livestock remained in fair to good condition across State.

UTAH: Temperature maxima 12° above normal, minima 7° above normal. Precipitation was light across the State, except Dixie, Uinta Basin, southeast divisions which received no precipitation.

Farm, ranch activities were: Plowing, preparing seedbed, pruning orchards, fertilizing, soil testing, feeding, caring for livestock, planting grains, onions. Some areas reported excess forage surplus while other areas reported quality forage shortages.

VIRGINIA: Temperatures below normal except in the west, southwest, which were near normal. Extremes 13°; 74°. Precipitation was below normal. An inch of snow fell in northern areas on the morning of the 18th.

Days suitable for fieldwork 2.9. Topsoil 52% adequate, 48% surplus. Barley 6% poor, 70% fair, 21% good, 3% excellent. Wheat 5% poor, 69% fair, 24% good, 2% excellent. Oats 23% poor, 45% fair, 27% good, 5% excellent. Pasture 4% very poor, 39% poor, 41% fair, 16% good. Alfalfa hay 6% poor, 69% fair, 25% good. Peaches 59% very poor, 12% poor, 9% fair, 20% good. Tobacco plantbeds were 67% seeded. Plantbed 14% poor, 63% fair, 23% good. Tobacco greenhouse seeding was 83% completed. Potato planting was about 15% completed which is behind schedule. Maple syrup production continued with large crowds for the Highland County Maple Festival. Topdressing small grains, fertilizing, liming corn, soybean land, overseeding pastures.

WASHINGTON: Temperatures 2 to 5° above normal west; 5 to 11° above normal east. Precipitation 0.46 to 1.40 in. west; none to 0.23 in. east.

Days suitable for fieldwork 4.6. Soil moisture 45% short, 54% adequate, 1% surplus. Hay, other roughage supplies 10% short, 85% adequate, 5% surplus. Range, pasture 10% very poor, 20% poor, 25% fair, 45% good. Winter wheat dryland 3% very poor, 10% poor, 30% fair, 54% good, 3% excellent; irrigated 3% fair, 87% good, 10% excellent. Barley dryland 6% very poor, 12% poor, 74% fair, 8% good; irrigated 10% fair, 90% good. Warmer than normal temperatures dominated the State throughout the week. Western areas received rain while the precipitation avoided most of the east. The lack of precipitation was still a major concern across the State. Season-to-date totals 34 to 73% of normal with most stations in the 50s and 60s percent of normal. East of the Cascades, fieldwork was picking up in most areas. Spring wheat, spring barley, peas, alfalfa, potatoes were being planted in various areas. Winter grains were starting to green up, show growth. Apricots were blooming, dormant sprays were beginning in early fruit districts. Calving, lambing continued to benefit from the mild weather.

WEST VIRGINIA: Temperature 39°. Extremes 10°; 69°. Precipitation 0.51 in. Temperatures 1 to 5° below normal across the State. Precipitation near normal to slightly above normal in central, north-central regions, 0.30 to 0.57 in. below normal elsewhere. Greatest total was 1.14 in. at Belington.

Farm activities: Cultivating, calving, lambing, feeding livestock, bookkeeping, general maintenance.

WISCONSIN: Temperature 33°. Extremes 0°; 64°. Precipitation generally light in the form of snow, rain.

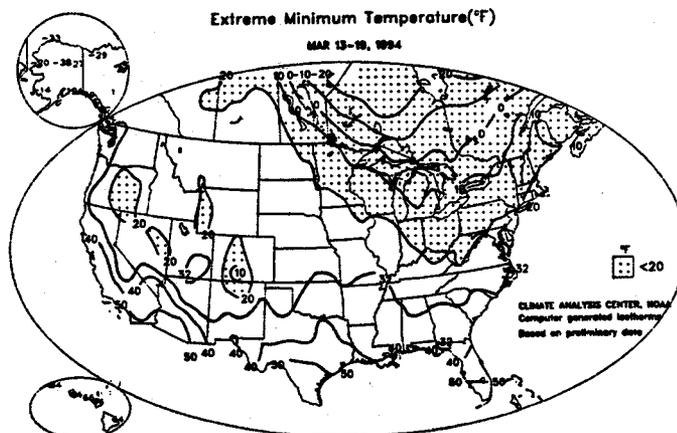
Wet fields, frost prevented any fieldwork. Building, machinery maintenance, spring clean up provide plenty of outside activity at this time of year.

WYOMING: Temperatures were above normal this past week statewide. Casper was the warmest with 18° above normal. Most areas of the State received below normal precipitation. The exception was the southwest portion of the State which was above normal. Jeffrey City received the largest amount of precipitation with 0.37 in.

Days suitable for fieldwork 3.9. Topsoil 92% adequate, 8% surplus, last week 93% adequate, 7% surplus. Subsoil moisture 2% short, 90% adequate, 8% surplus, last week 5% short, 88% adequate, 7% surplus. Spring wheat planted 1%, last week 0%. Oats planted 2%, last week 0%. Barley planted 27%, last week 4%. Spring calves born 47%, last week 35%. Calf death losses 47% light, 53% normal, last week 39% light, 61% normal. Farm flock: Ewes lambed 61%, last week 53%; shorn 68%, last week 56%. Range flock: Ewes lambed 8%, last week 5%; shorn 22%, last week 8%. Lamb death losses 32% light, 68% normal, last week 38% light, 62% normal. Stockwater supplies 100% adequate.

(Continued from front cover)

included 91°F in Medicine Lodge, KS, 92°F in Gage, OK, and 94°F in San Angelo, TX. Meanwhile, rain drenched southern Texas, and chilly air penetrated the East. Rainfall exceeded 2 inches at midweek in southern Texas at Corpus Christi, Del Rio, San Antonio, and Victoria. Farther east, temperatures plunged below 20°F on Thursday morning as far south as Lexington, KY and Beckley, WV, with pockets of sub-freezing cold into Florida's Panhandle. Tallahassee, FL measured 28°F. In the Northeast, frequent snow showers added to large seasonal snow totals. Binghamton, NY (128.4 inches through March 19) broke its record that was set only a year ago. In Harrisburg, PA, an inch or more of snow has covered the ground since January 4, a record-setting 75-day span. Late in the week, a reinforcing shot of blustery, cold air entered the Northeast, while increasingly stormy weather lashed the Northwest and Southwest. More than 2 inches of rain fell in Astoria, OR, while about an inch fell in San Diego, CA. Warmth continued in the Plains, where daily records on Saturday included 76°F in Rapid City, SD and 89°F in Midland, TX.



International Weather and Crop Summary

HIGHLIGHTS

March 13 - 19, 1994

FSU-WESTERN: Unseasonably mild weather prompted greening of winter grains and early spring fieldwork in southern Ukraine and parts of North Caucasus, Russia.

EUROPE: Ample rain soaked northern winter grains, but mild, dry weather limited moisture in the south.

SOUTH ASIA: Unseasonable warmth enhanced winter crop growth.

EASTERN ASIA: Warmer weather prompted winter wheat to break dormancy across the North China Plain.

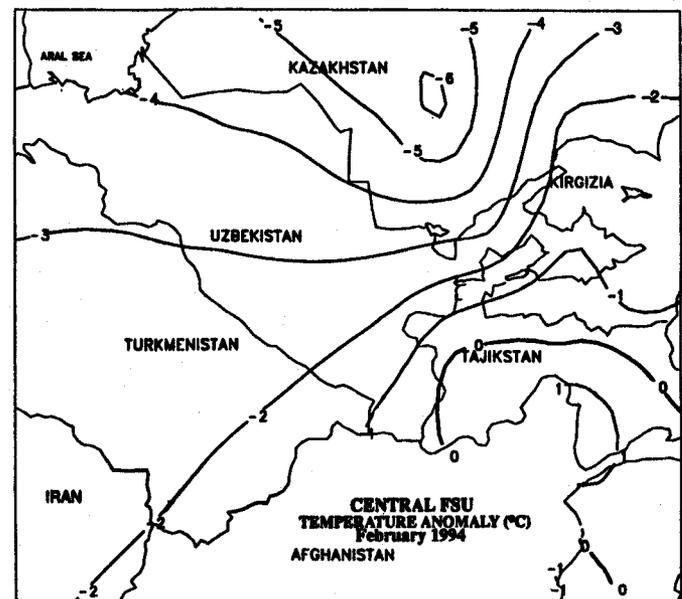
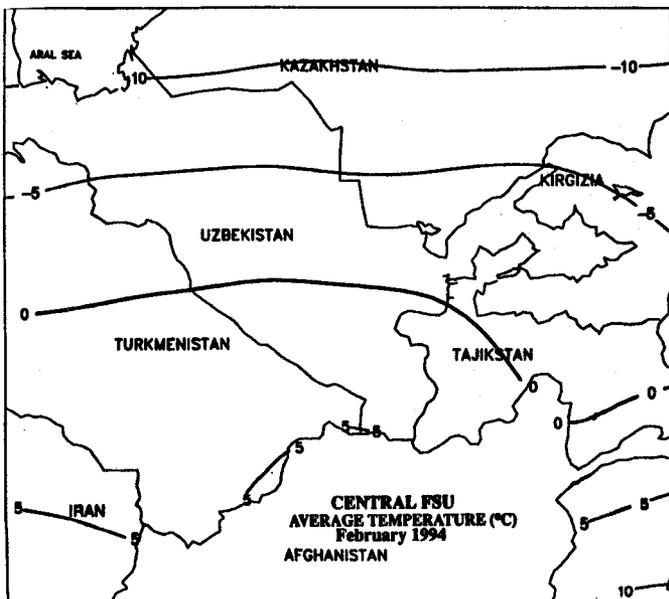
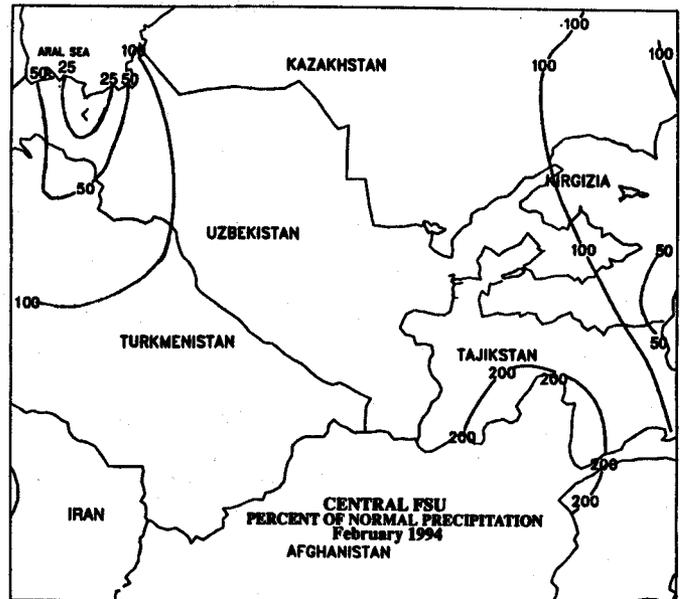
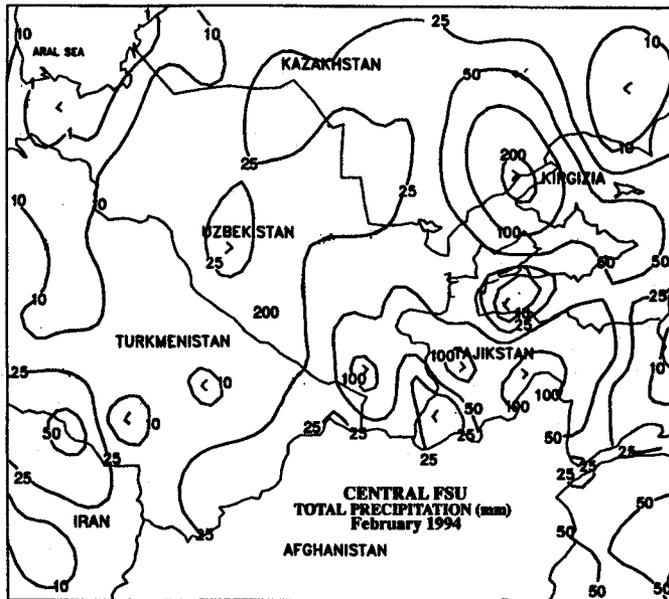
SOUTHEAST ASIA: Showers brought relief to much of Thailand's second crop rice.

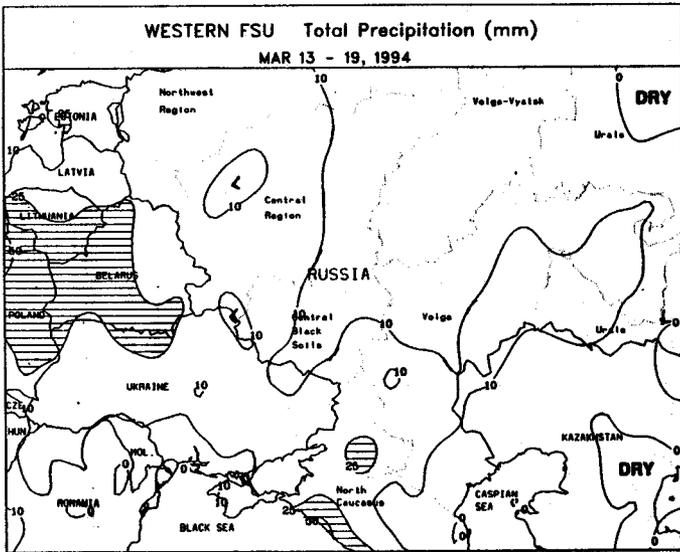
AUSTRALIA: Dry weather favored summer crop maturation and harvesting across eastern Australia.

SOUTH AMERICA: In central Argentina, showers benefited immature soybeans, but delayed northern cotton harvesting.

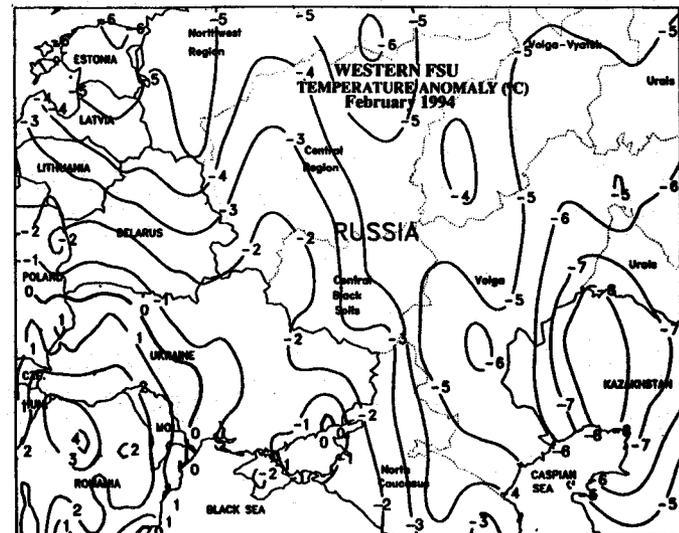
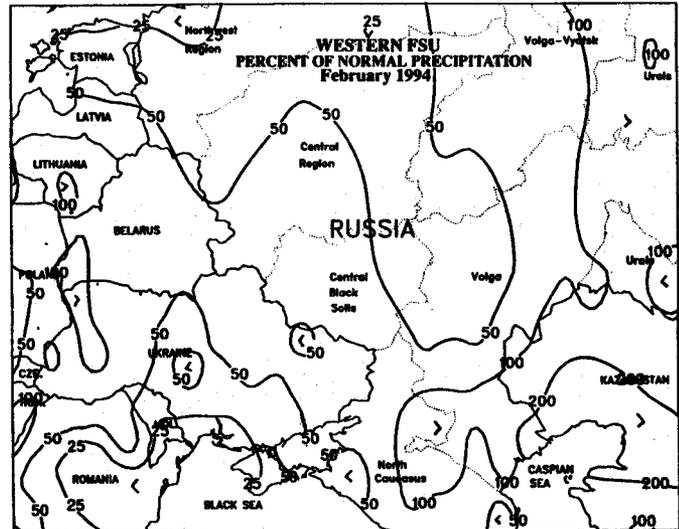
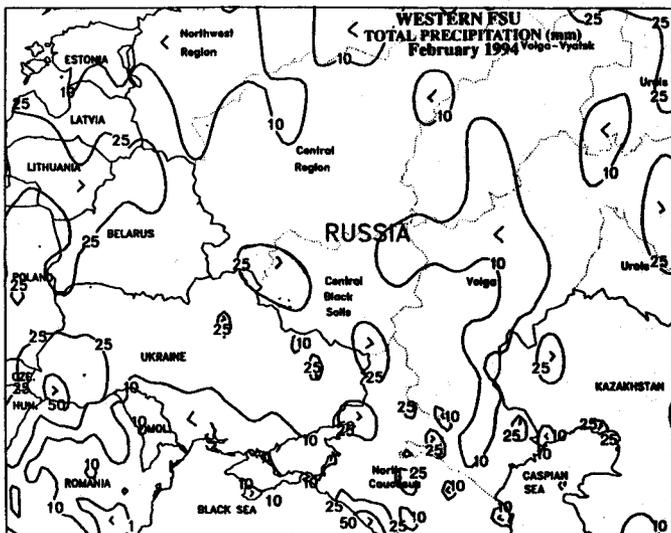
NORTHWESTERN AFRICA: Scattered, light precipitation covered winter grains in or nearing reproduction.

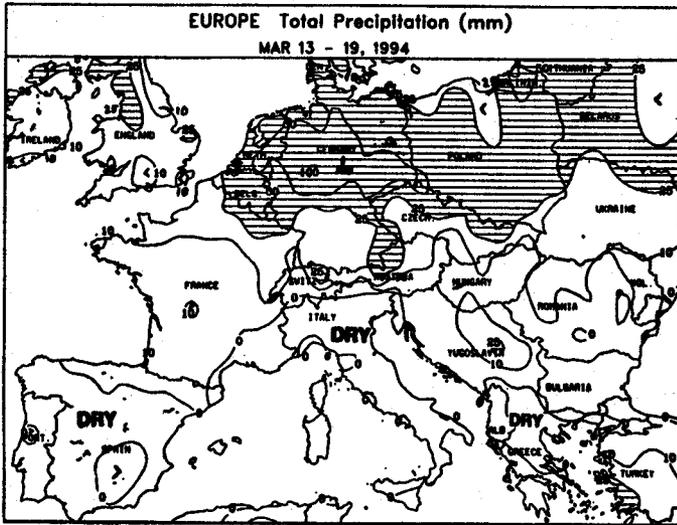
SOUTH AFRICA: Seasonably drier and continued mild weather benefited filling corn.



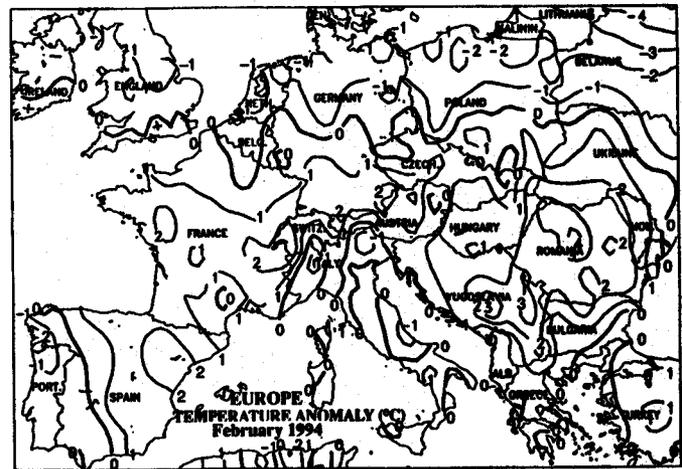
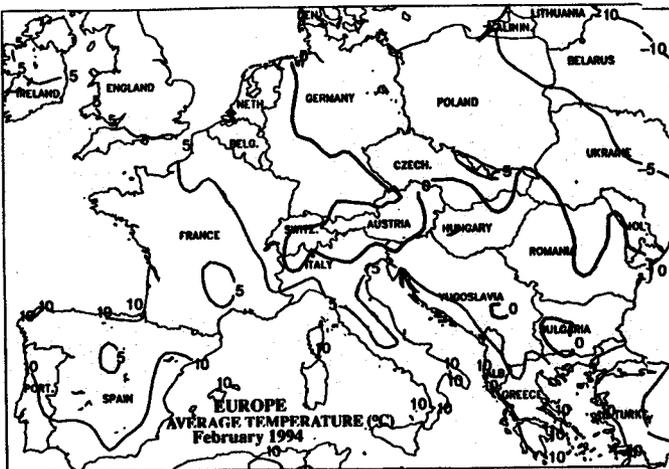
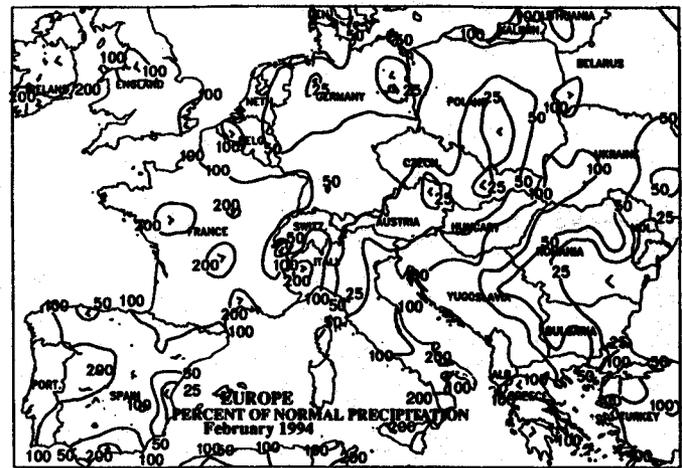
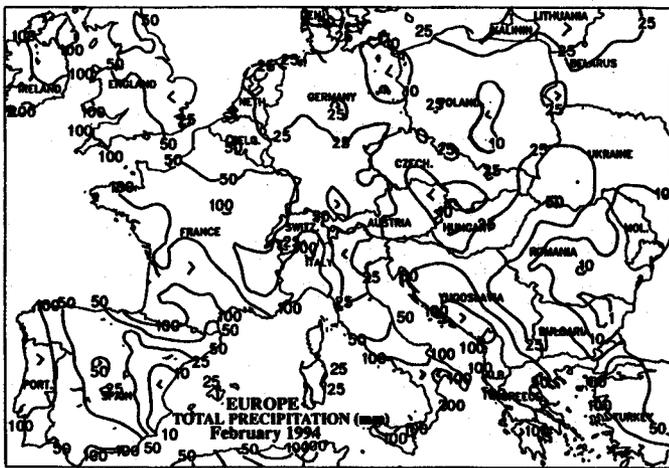


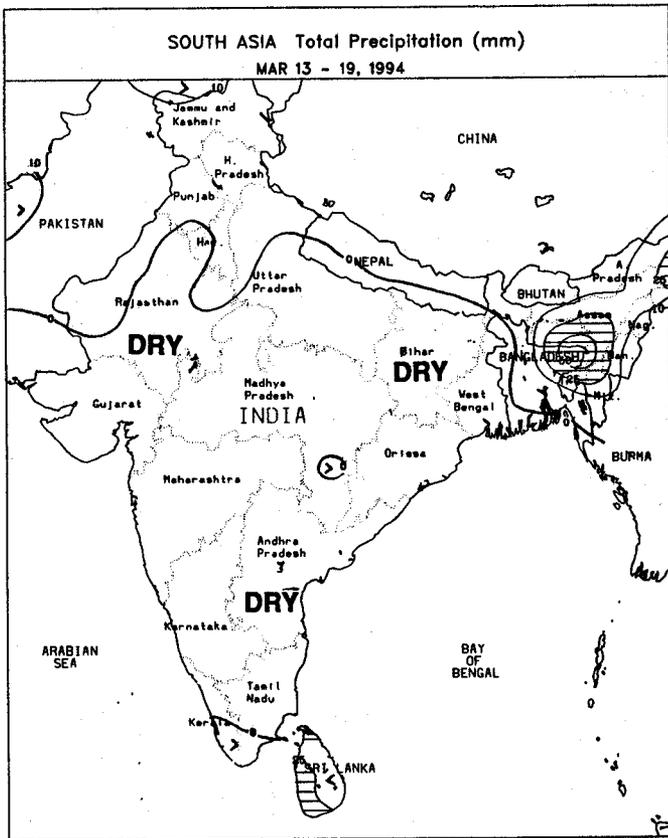
FSU-WESTERN: Widespread light to moderate precipitation was accompanied by unusually mild weather. In Ukraine, weekly temperatures averaged 3-6 degrees Celsius (C) above normal, melting snow cover and prompting greening of winter grains in southwestern areas. Light to moderate precipitation (8-40 mm) in Russia, Belarus, and Baltic States covered dormant winter grains. Reports indicated early-spring fieldwork was underway in southern Ukraine and parts of North Caucasus, Russia. In February, unseasonably cold, dry weather covered winter grain areas in Russia, Ukraine, Belarus, and the Baltic States. By February 9, bitter cold began spreading southward over major winter wheat-producing areas and lasted until February 17. Lowest temperatures ranged from -30 to -20 degrees C, causing localized winterkill in Ukraine and North Caucasus, Russia where snow cover was shallow or non-existent. In major rye-growing areas of northern Russia, Belarus, and Baltic States, a moderate to deep snow cover provided adequate protection from temperatures that fell below -25 degrees C. On February 17, temperatures began to gradually moderate over most areas, improving overwintering conditions for crops.



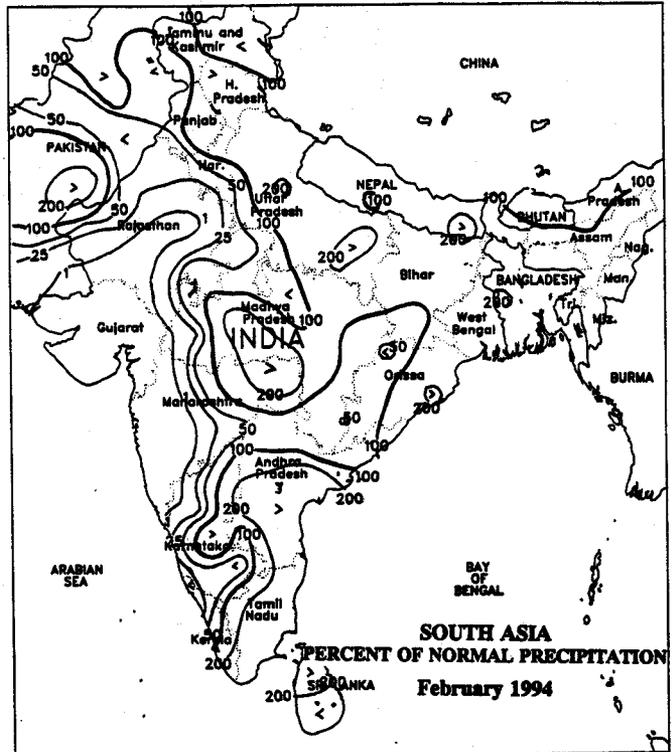
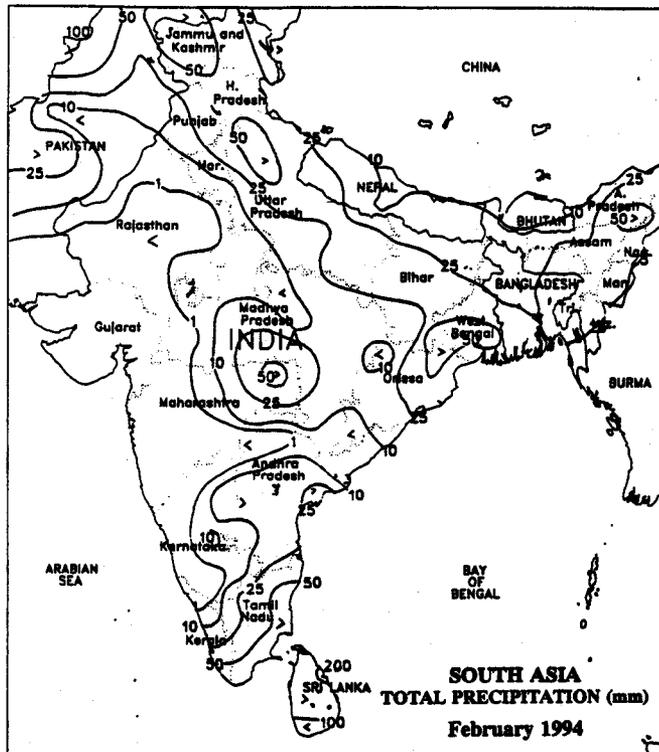


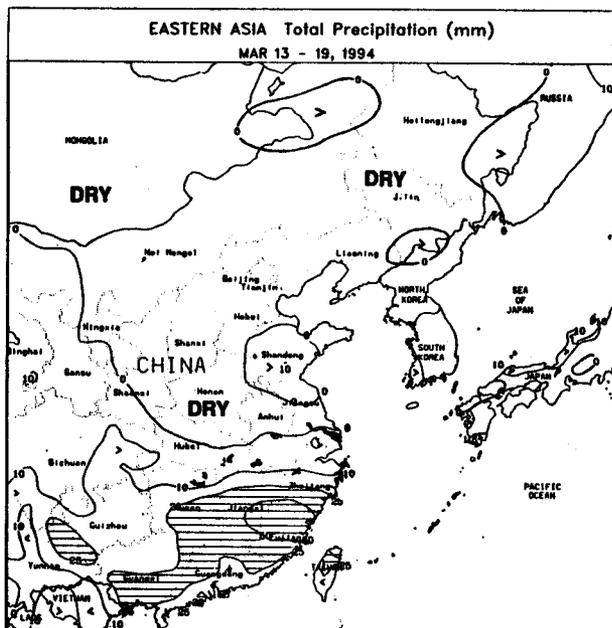
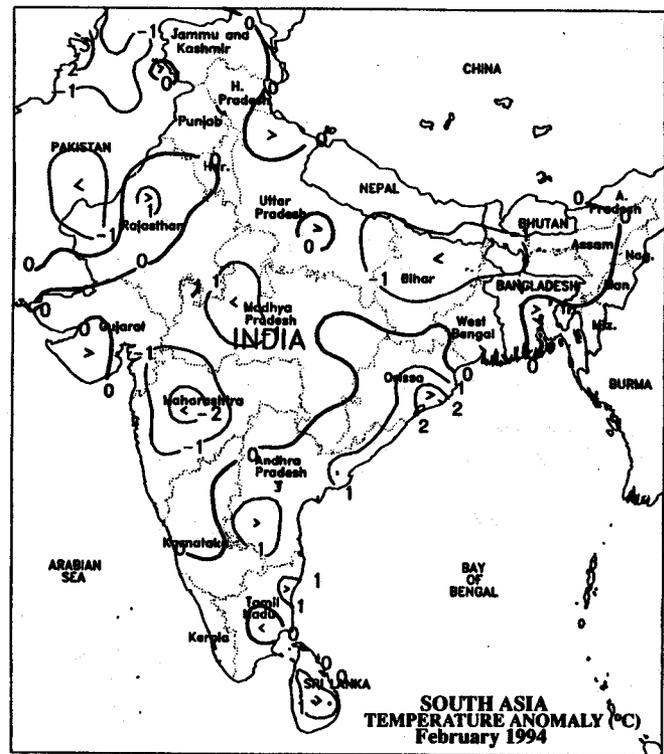
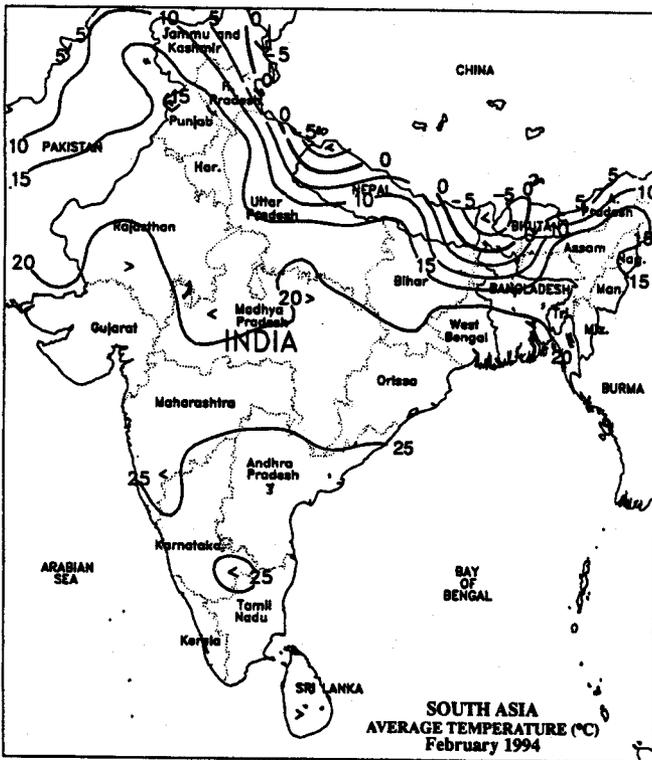
EUROPE: Abundant rain fell across northern Europe, from the United Kingdom across Germany to Poland. Rainfall averaged 20-40 mm, but 50-143 mm were common across central Germany and isolated areas of Poland. These rains provided ample topsoil moisture, following a relatively dry February. Winter grains are breaking dormancy, and spring planting will begin soon. Beneficial showers (9-30 mm) also moistened topsoils for spring growth in northwestern Romania, most of Hungary, and the Czech and Slovakia Republics. Light rain (1-8 mm) fell in France, where soil moisture is ample for early-spring growth, and in southeastern Europe, where moisture is limited for crop establishment, especially in southern Romania and Bulgaria. Dry weather continued this past week over the Mediterranean region from the Iberian peninsula across Italy to Greece, indicative of the waning wet season. Weekly temperatures averaged mostly 2-4 degrees C above normal across Europe, maintaining a warming trend that developed in late February following the brief bitter cold air outbreak during mid-month. A general drying trend prevailed over southeastern Europe during February, raising concerns as warmer weather begins to promote active spring growth across the south. Topsoil moisture is also low in eastern Spain and Italy's Po Valley, following below-normal February rainfall.



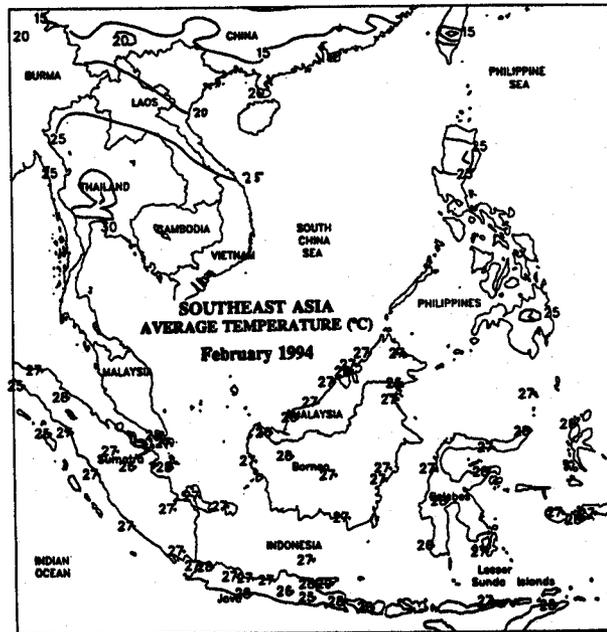
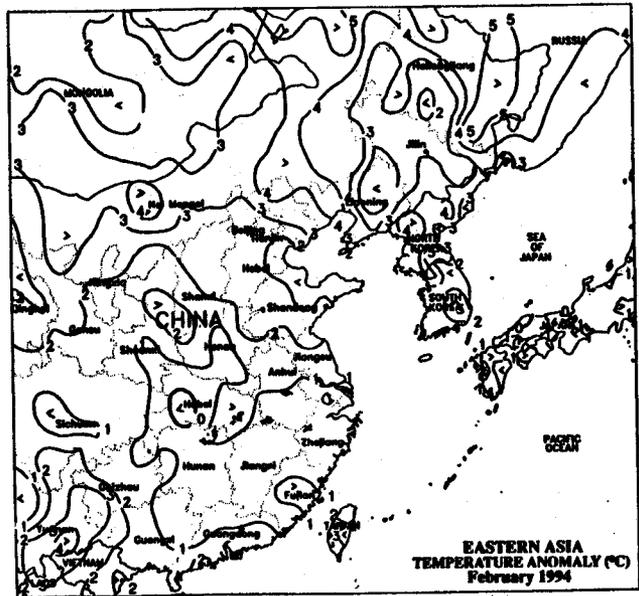
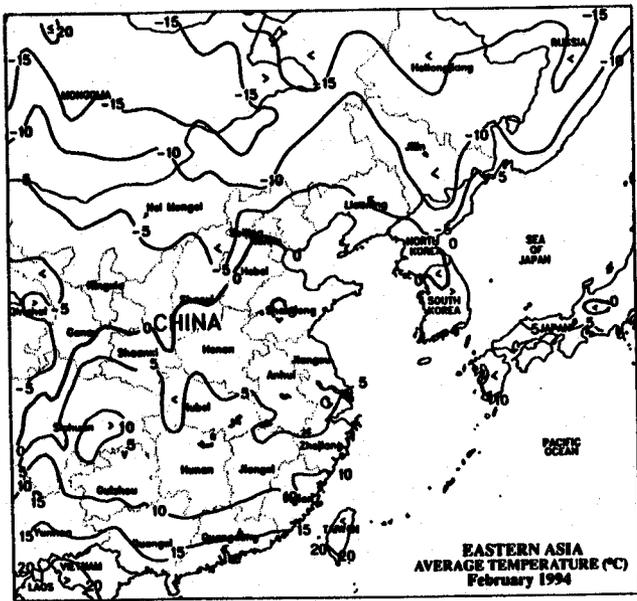
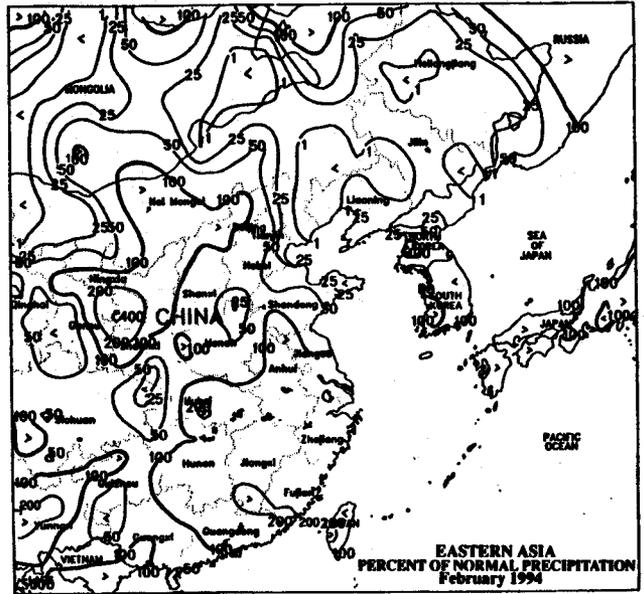
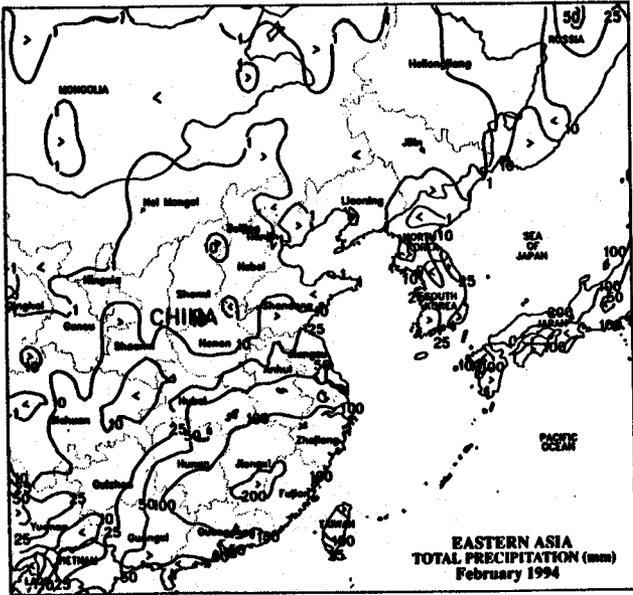


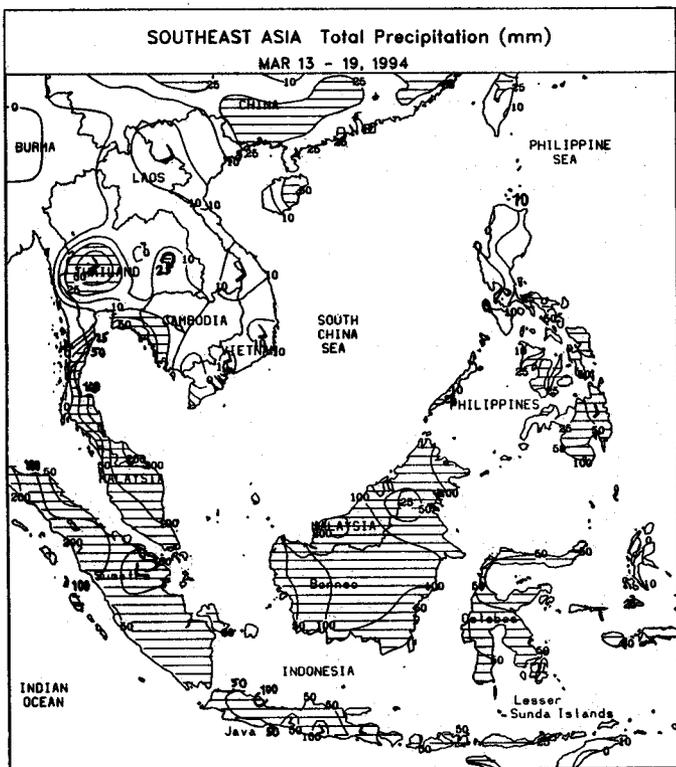
SOUTH ASIA: Temperatures were above normal throughout the region, averaging 3-5 degrees C above normal over primary winter crop regions from central India to Pakistan. Conditions aided crop drydown in central and southern India. However, highs in the upper 30's and low 40's C, a bit unusual for this time of year, stressed late-planted crops and livestock. Temperatures reached the mid 30's C in north-central India and Pakistan, raising concern for immature wheat and oilseeds. In early February, timely showers (10-25 mm or more) benefited reproductive to filling crops in central and northern India and boosted irrigation reserves in portions of the eastern rice belt. Although rainfall was below normal over Pakistan's primary winter crop areas, late-February showers boosted irrigation reserves in the Indus River Basin. No extreme temperatures were reported in February.



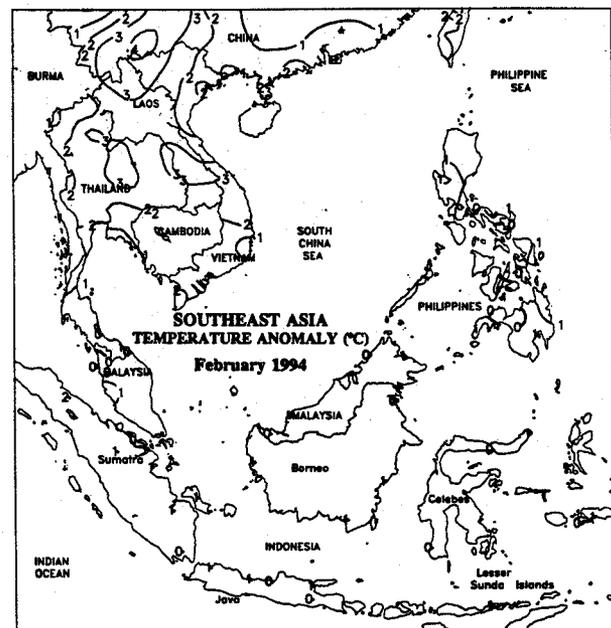
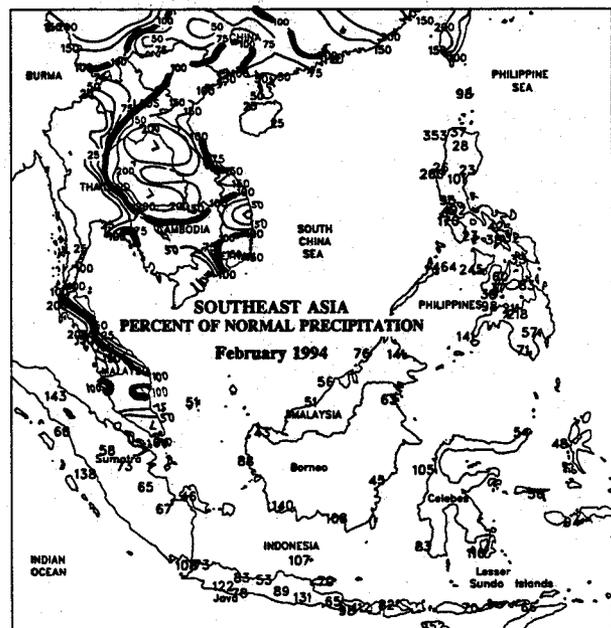
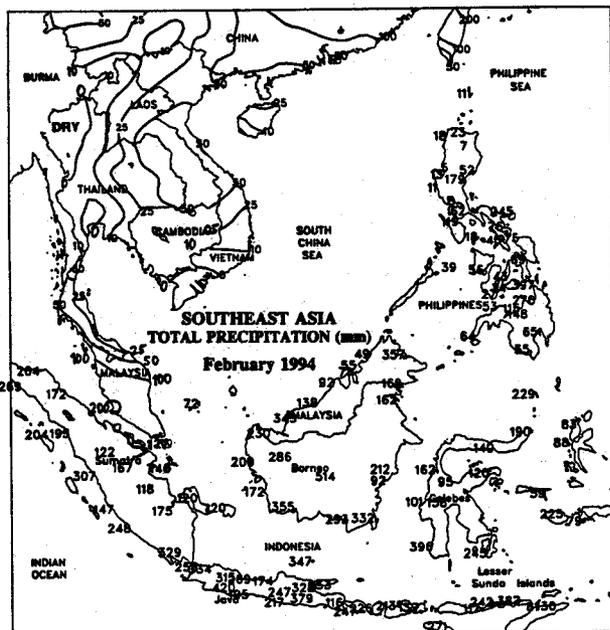


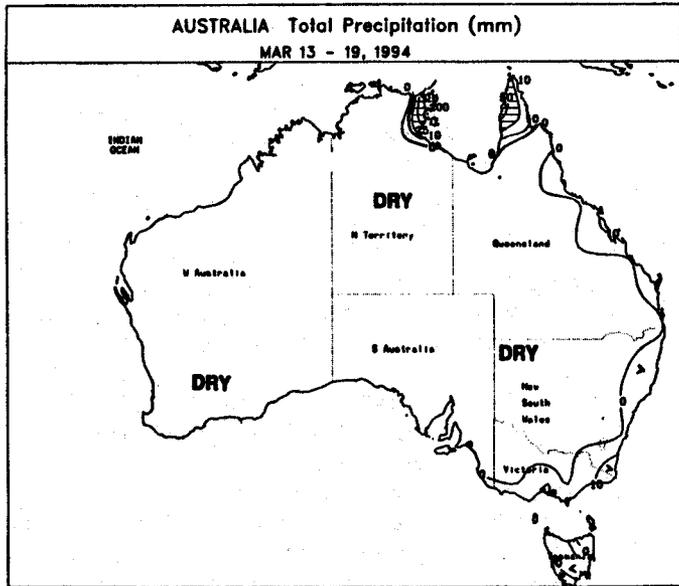
EASTERN ASIA: Mostly dry but warm weather prevailed across the North China Plain, prompting wheat to break dormancy. Average weekly temperatures ranged from 7 to 9 degrees C across most of the wheat belt. Another week of similar temperatures should promote greening in most areas. Widespread rain (10-50 mm) fell across southern China, increasing irrigation supplies for early double-crop rice. During February, near- to above-normal rainfall extended from the southern wheat belt (southern Henan, northern Anhui, and northern Jiangsu), across the Yangtze Valley and into southern China. The remainder of the North China Plain received seasonable February rainfall (1-10 mm).



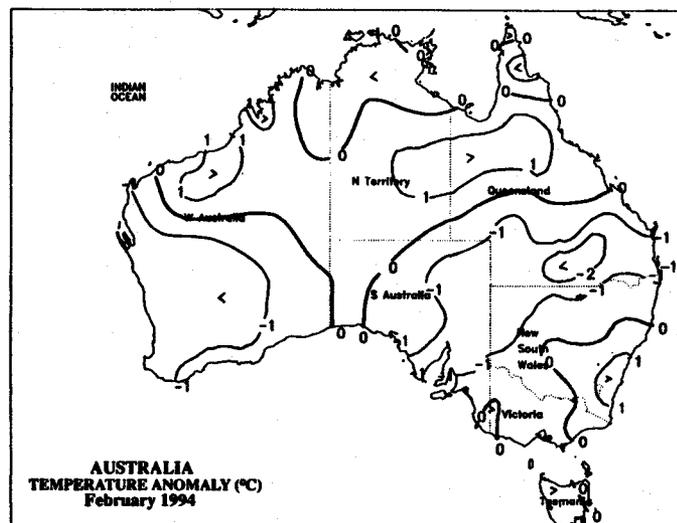
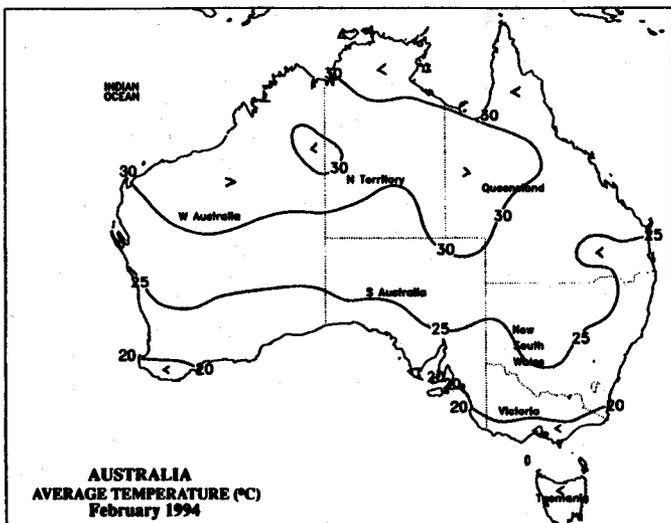
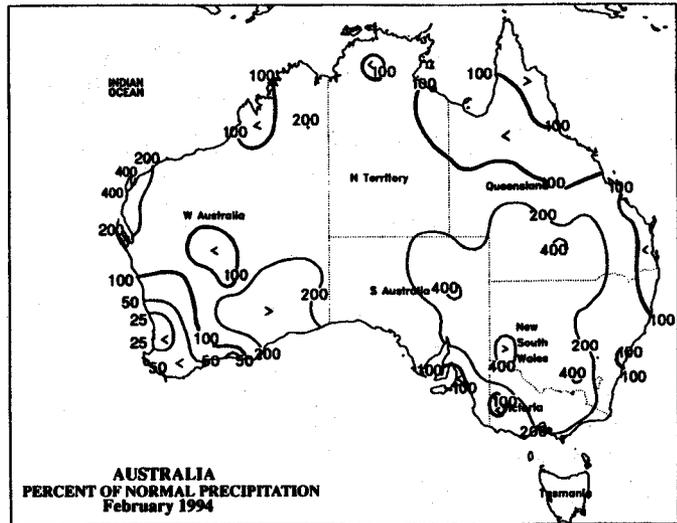
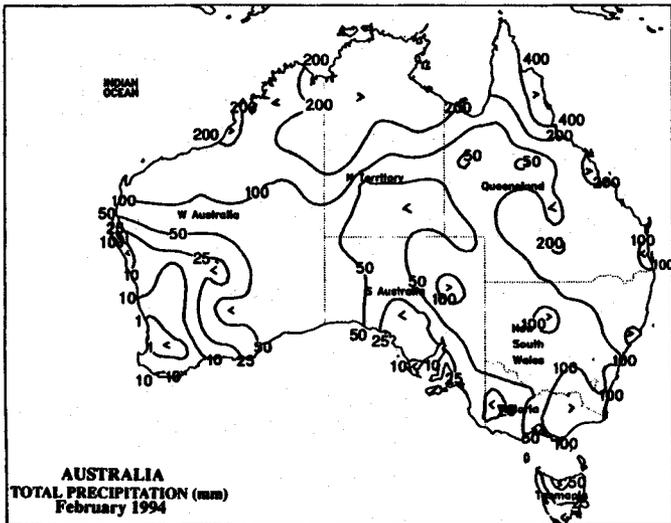


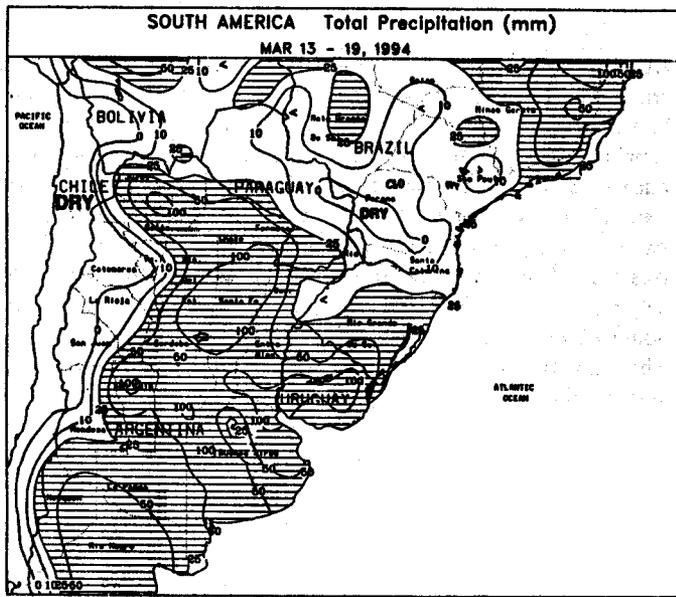
SOUTHEAST ASIA: Scattered showers (10-25 mm or more, with isolated totals exceeding 50 mm) over the lower Chao Phraya River and local areas of eastern Thailand brought some relief to second crop rice. However, temperatures were near to above normal, maintaining high evapotranspiration rates. Moderate to heavy showers (25-100 mm or more) covered peninsular Thailand and Malaysia, and continued over Java, causing more flooding. Drier weather will be needed next month over Java as the main-season rice harvest progresses. Moderate to heavy showers (25-105 mm or more) boosted moisture for rice and corn planting in the southern and eastern Philippines. During February, unseasonable warmth continued throughout Indochina, hastening development of dry-season rice. However, mid-month rain boosted reservoirs from eastern Thailand to central and northern Vietnam. February rainfall was near to below normal over Malaysia, due to a late-month drying trend. Frequent showers over Java maintained abundant moisture reserves for immature crops but caused some flooding. February rainfall was below normal over most Philippine crop areas, although early-month showers benefited immature grains in the east.



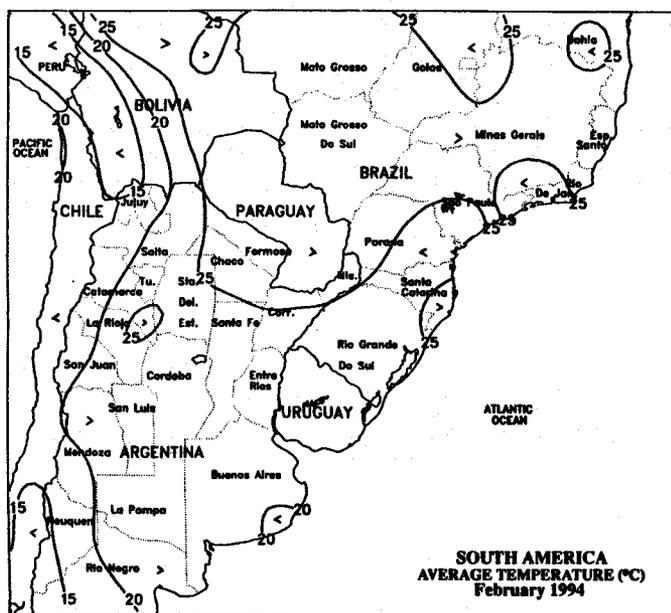
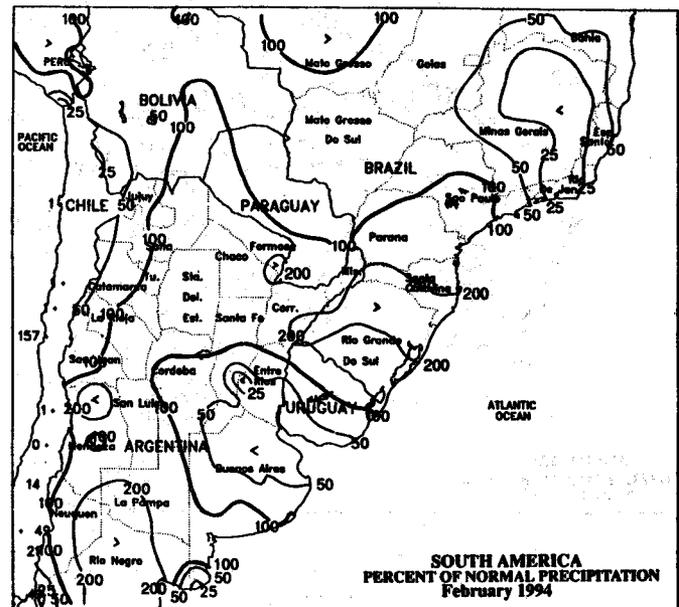
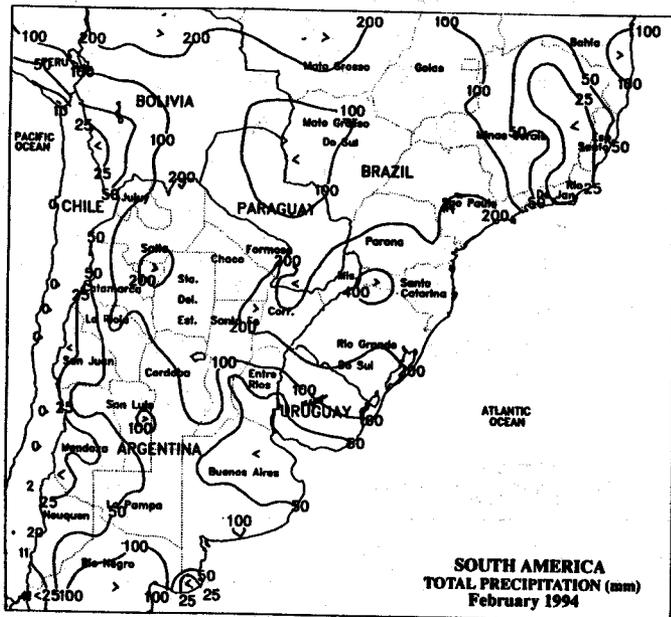


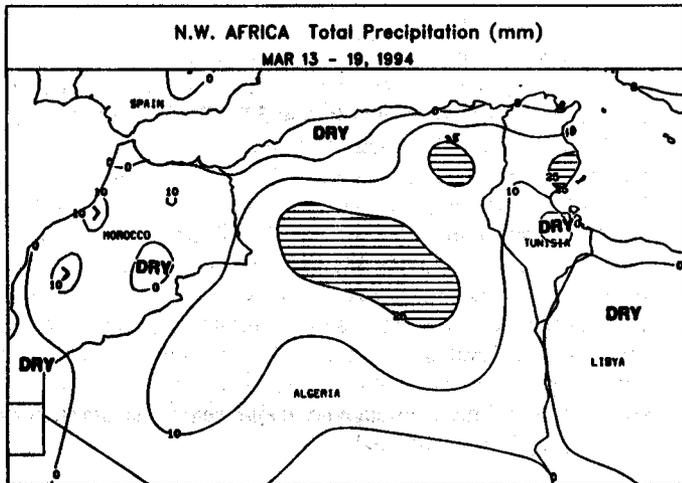
AUSTRALIA: Dry weather prevailed across the eastern summer crop areas, favoring main-season cotton and sorghum maturation and harvesting. Temperatures averaged 4-6 degrees C below normal, slowing development of late-planted sorghum. Light rain (1-15 mm) fell across the northeast coast of Queensland, aiding sugarcane. Rainfall across northern Australia typically starts to diminish by April. During February, above-normal rainfall covered eastern Australia, benefiting primarily late-planted summer crops and helping to end the long-term drought across that region. Southwestern Australia received below-normal February rainfall, while the remainder of southern Australia received near- to above-normal rains.



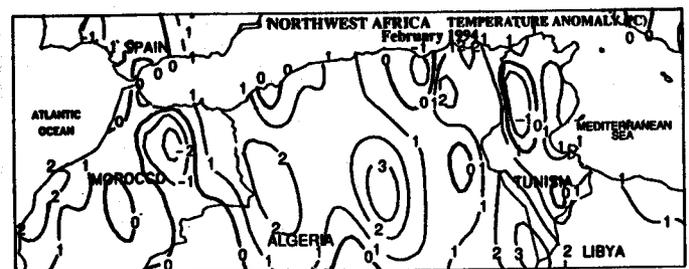
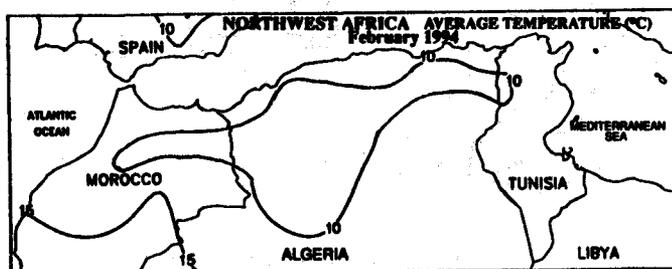
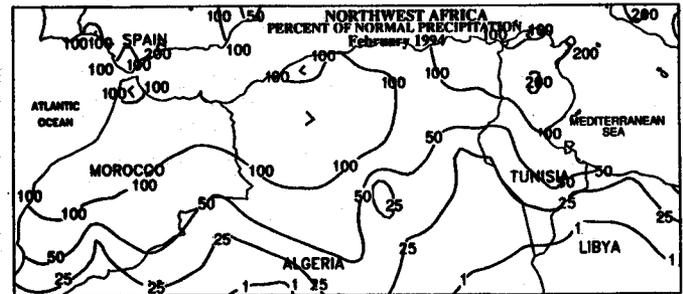
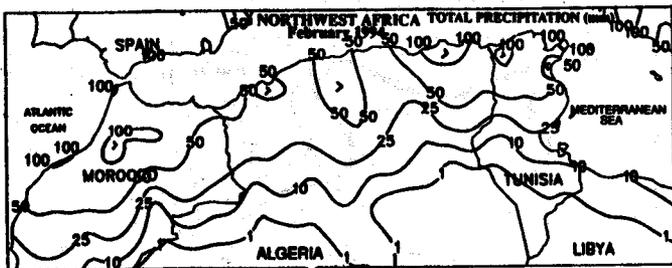


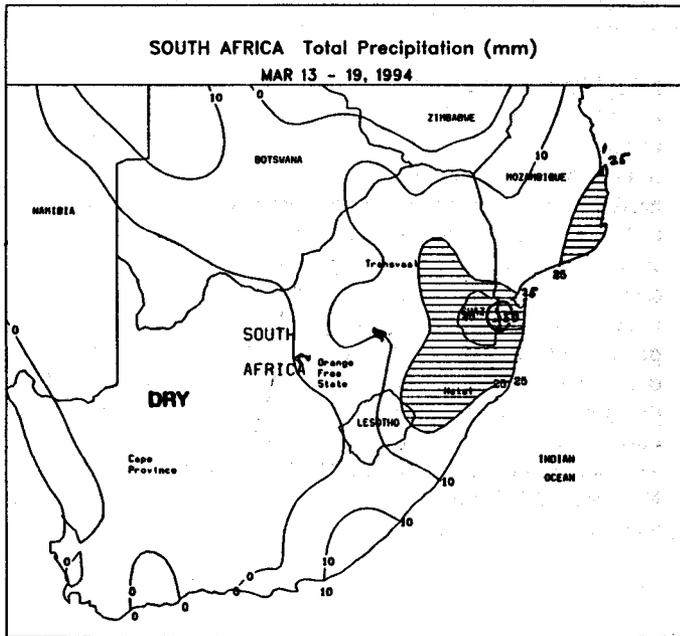
SOUTH AMERICA: In central Argentina, moderate to heavy showers (25-75 mm, with isolated amounts greater than 100 mm) brought relief from dryness to immature soybeans, which had experienced nearly a month of dry weather. However, isolated areas of northern Buenos Aires received less than 10 mm, where dryness continued to stress soybeans. Southern Buenos Aires received moderate showers (50-90 mm), delaying sunflowerseed harvesting and reducing quality. Heavy showers (50-100 mm, with isolated amounts greater than 200 mm) delayed cotton harvesting and possibly damaged crops across northern Argentina. Temperatures averaged 1-3 degrees C above normal across central Argentina. During February, due to dryness the latter half of the month, rainfall averaged 40-60 percent of normal across central Argentina. Above-normal February rainfall slowed early cotton harvesting across northern Argentina. In southern Brazil, early- to mid-week dryness favored summer crop harvesting. However, late-week showers (10-30 mm), with heavier showers (40-100 mm) in Goias, slowed fieldwork across most crop areas. During February, extreme southern Brazil received above- to much-above-normal rainfall, while the rest of the major crop areas received near-normal rainfall.



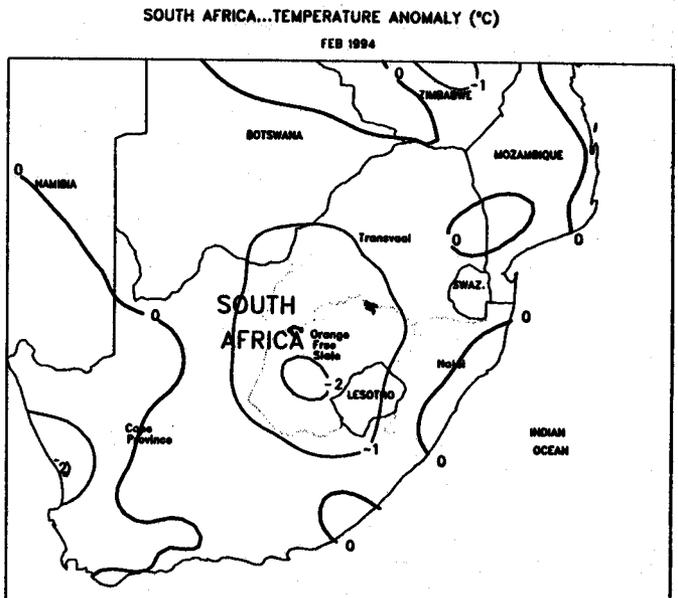
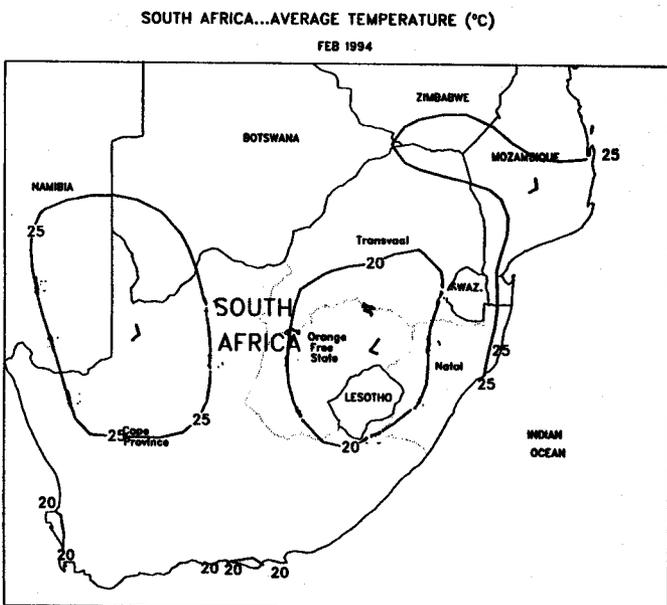
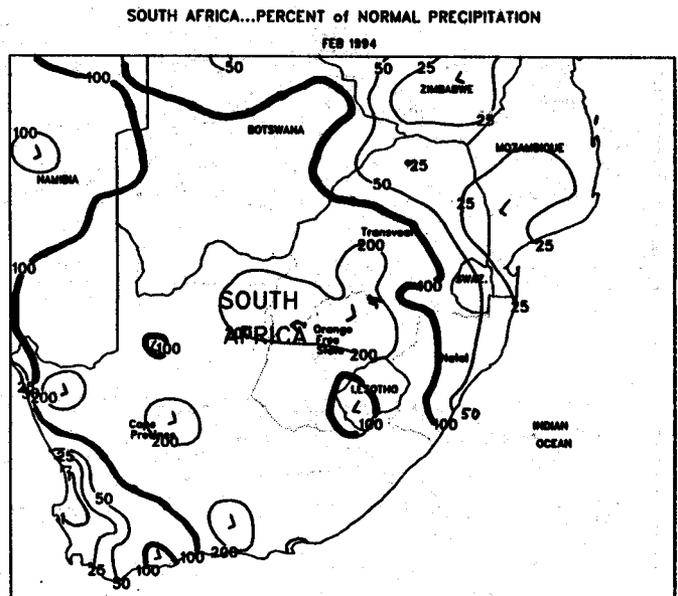
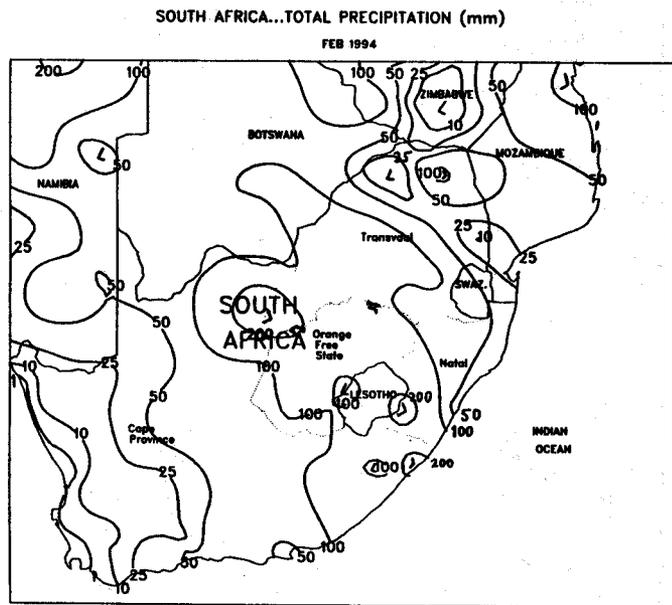


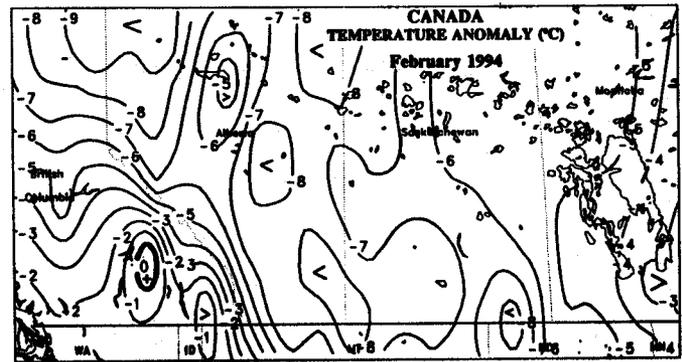
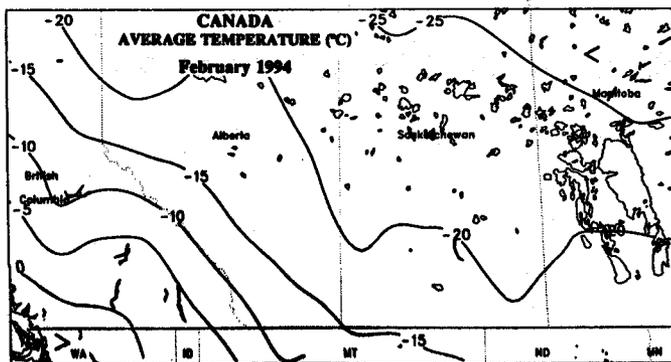
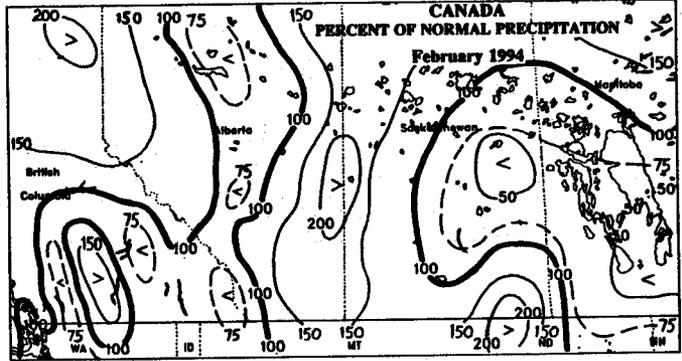
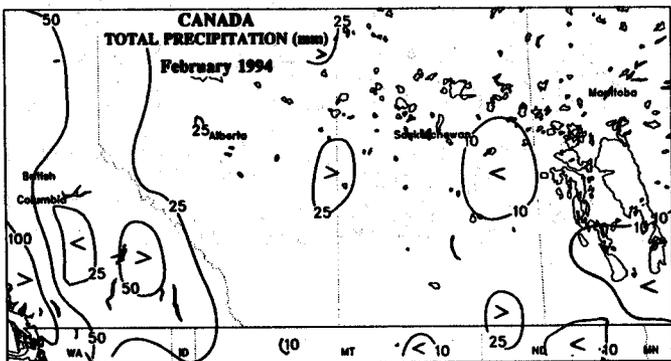
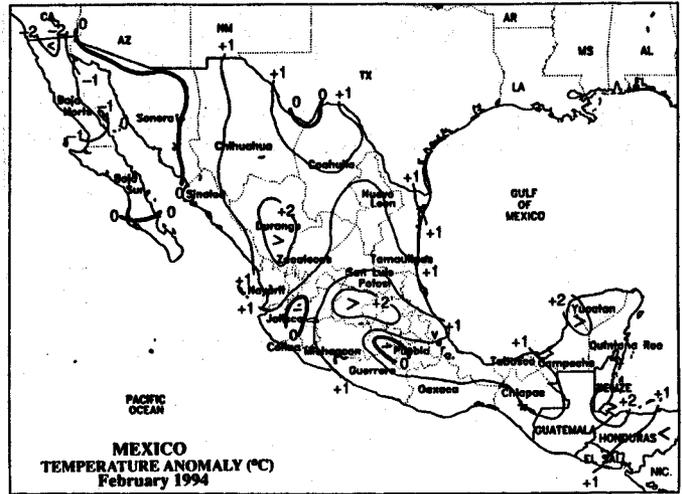
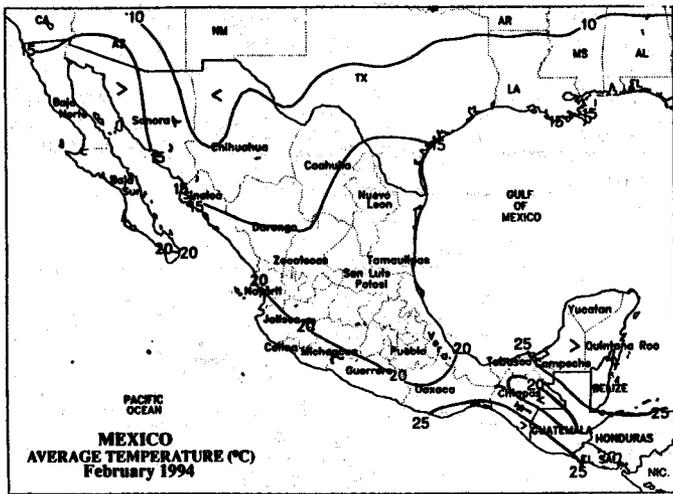
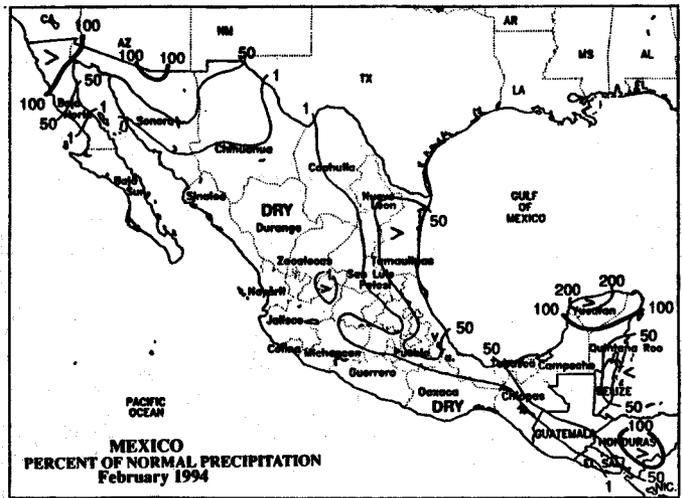
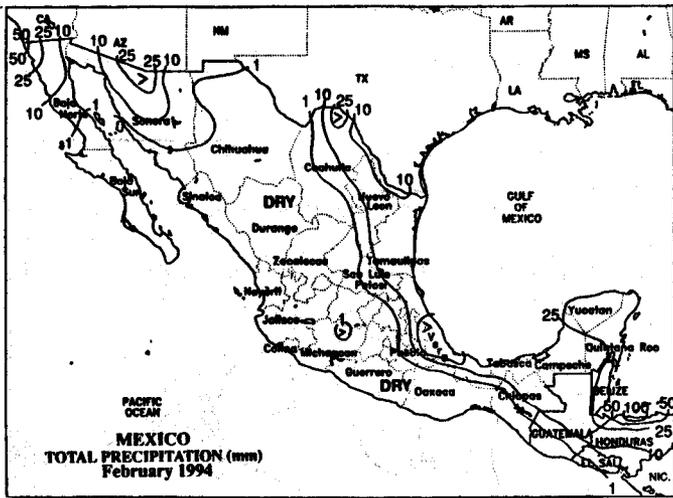
NORTHWESTERN AFRICA: Winter grains were in or nearing reproduction over Morocco, Algeria, and Tunisia. Crops were furthest along in development in coastal areas. In Morocco, little, if any, precipitation covered winter grains. Significant rain is needed to maintain favorable crop prospects. In Algeria, western and central areas continued unfavorably dry. In contrast, light showers (4-13 mm) brought temporary relief to winter grains in the east. In Tunisia, although a storm system developed over the region, greatest amounts of moisture (10-25 mm) fell south of the principal winter grain-producing areas. Winter grain areas received only light, scattered showers (1-8 mm), bringing little relief to drought-stressed crops. In February, above-normal precipitation covered vegetative winter grains in Morocco, eastern Algeria, and Tunisia. However, most of the rain that covered Tunisia fell from February 4-20. Since February 21, persistent dryness in Tunisia has increased stress on crops, lowering yield potential.

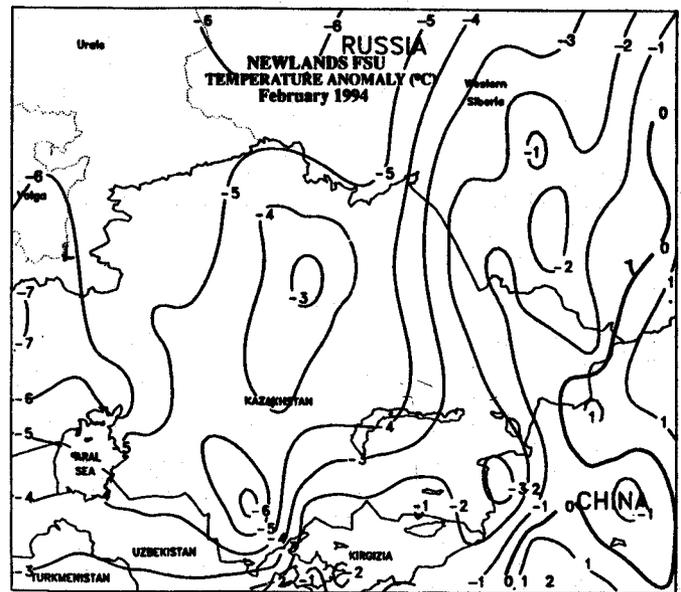
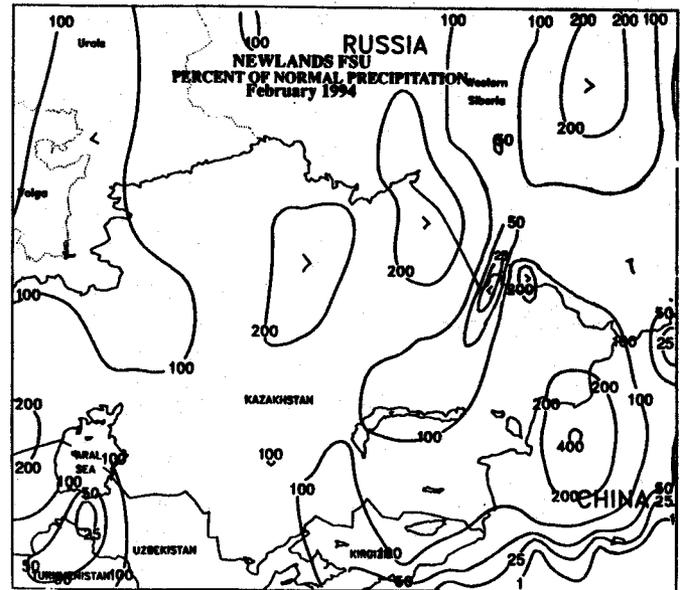
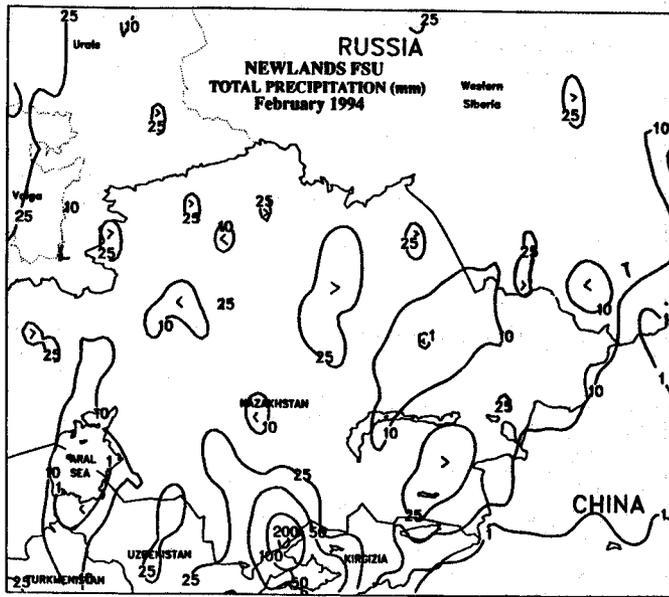




SOUTH AFRICA: Drier, seasonably warmer weather benefited filling corn in most areas. Rainfall totaled less than 5 mm over Orange Free State and sections of southwestern Transvaal, with daily highs in the upper 20's to low 30's C. Heavier rain (10-39 mm) lingered over the eastern corn areas, increasing moisture for immature crops, but rainfall continued to be unseasonably light (9-22 mm) over the major sugarcane areas. In February, cool, wet weather (temperatures 1-2 degrees C below normal, rainfall totaling 200 percent of normal or higher) provided ample moisture for reproductive corn but caused some local flooding. While the frequent rainy, cloudy weather slowed crop development, seasonably drier weather developed over the wettest areas by month's end, improving growth prospects. In contrast, unseasonable dryness persisted in February throughout major sugarcane areas, further reducing production potential.







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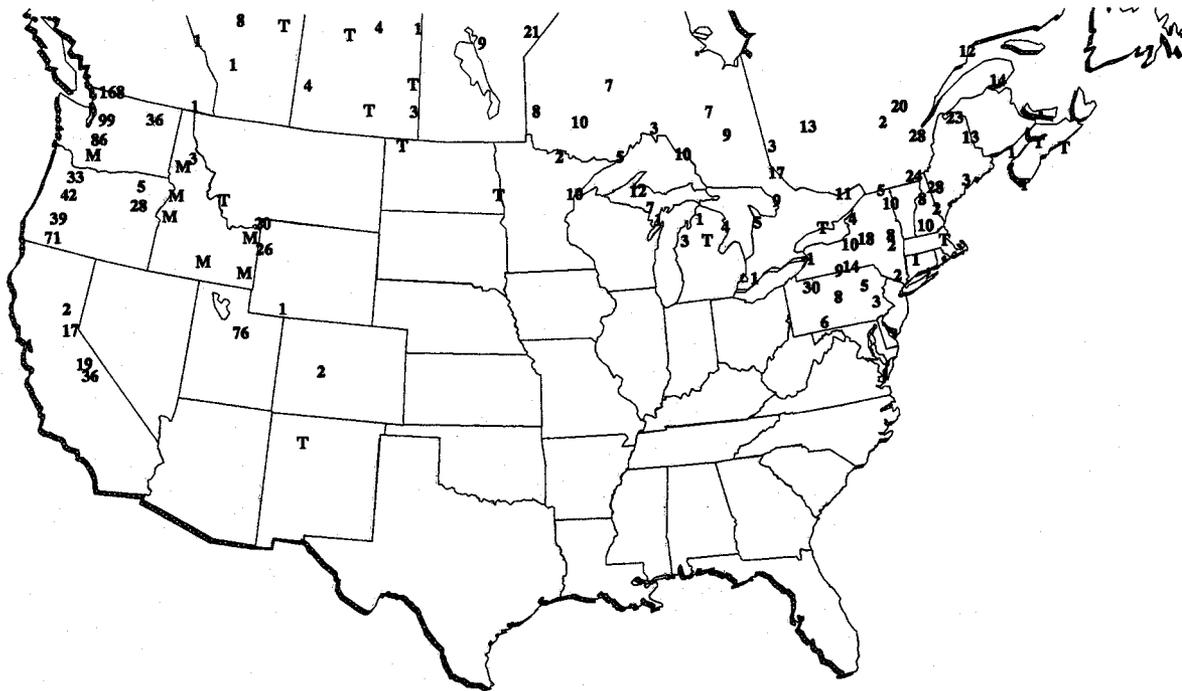
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Total Snow Cover (Inches)

March 21, 1994



Last chart for the season

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Based on preliminary reports

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