

# 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

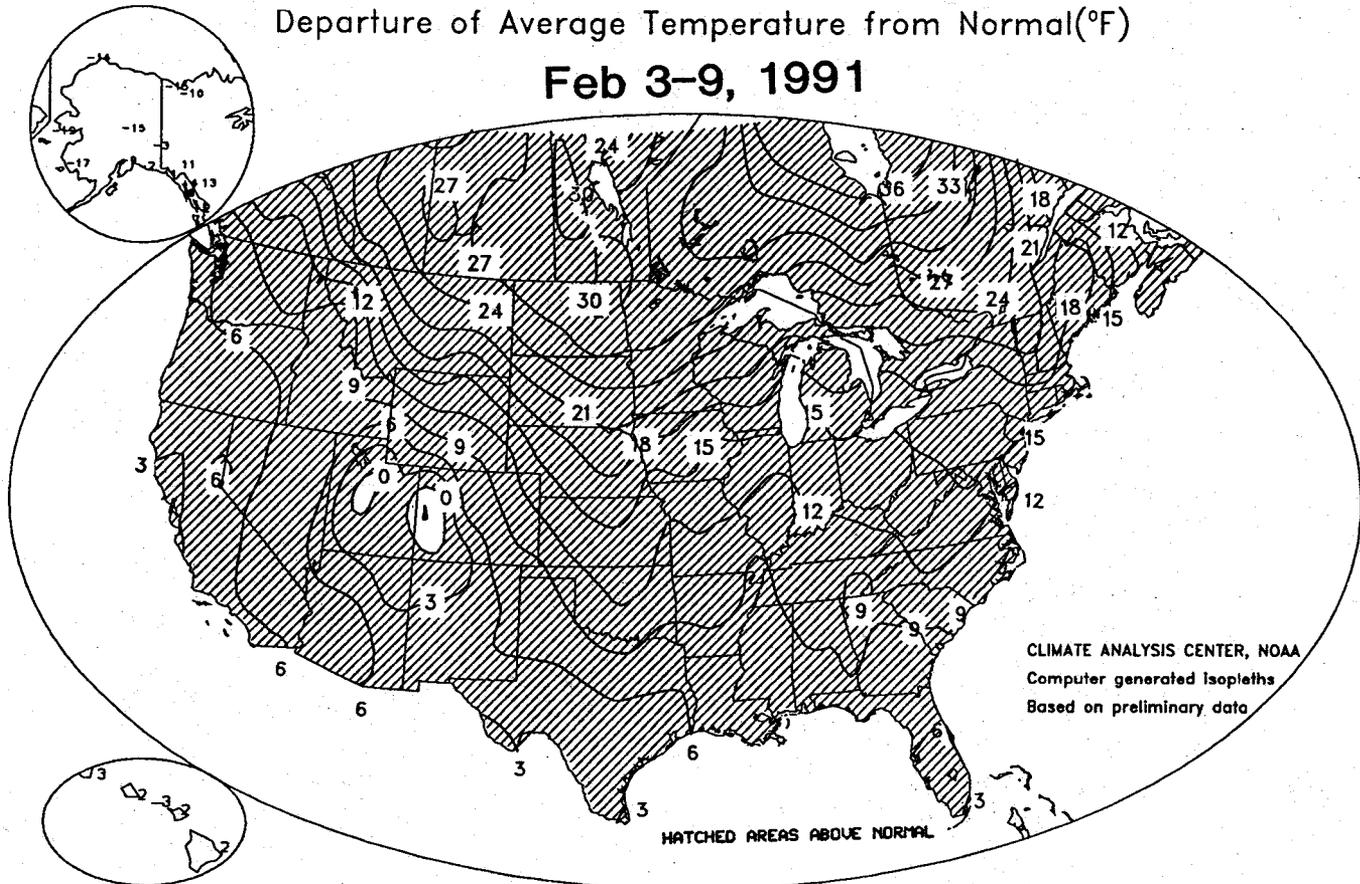
Volume 78, No. 6

Washington, D.C.

February 12, 1991

Departure of Average Temperature from Normal(°F)

Feb 3-9, 1991



## HIGHLIGHTS

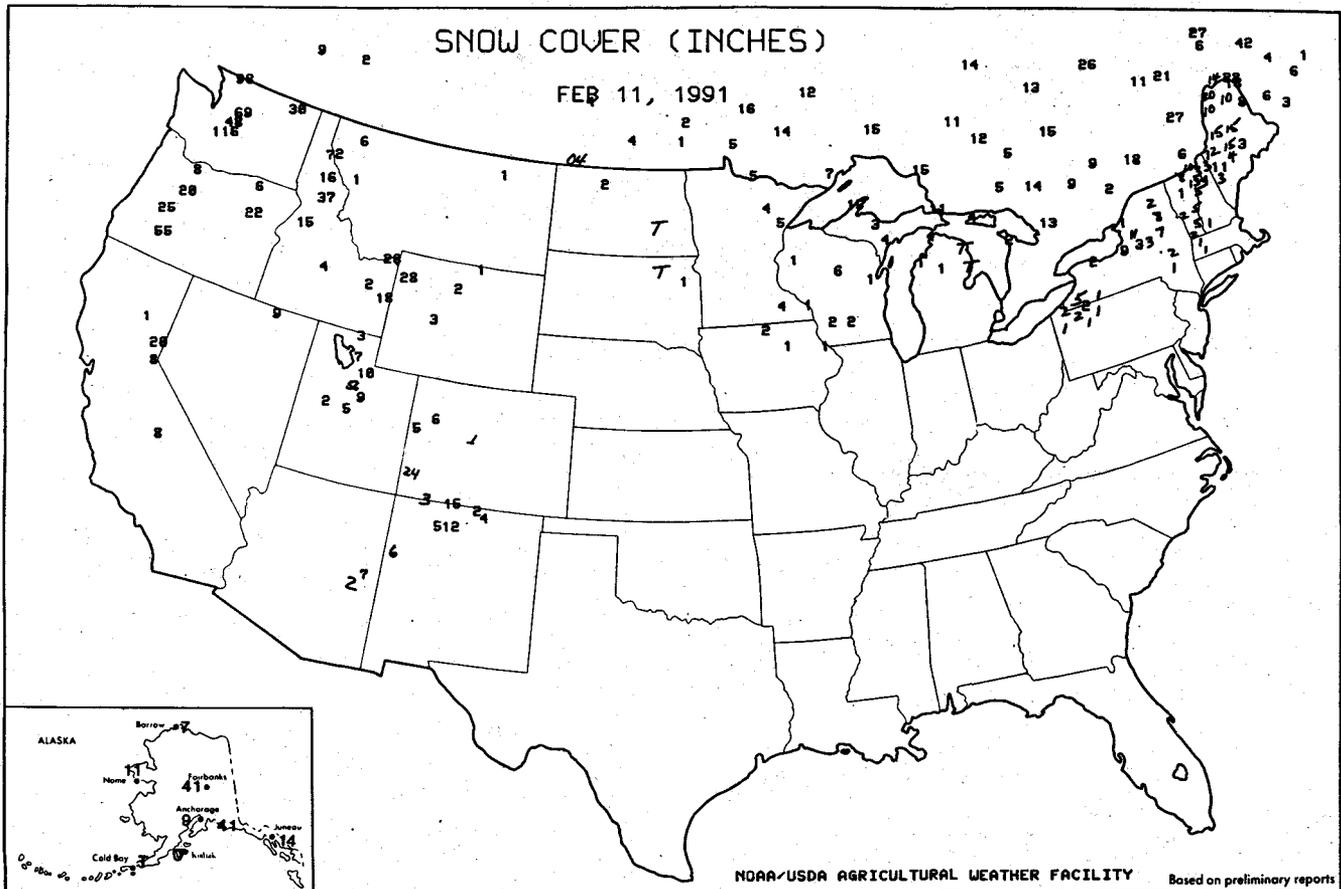
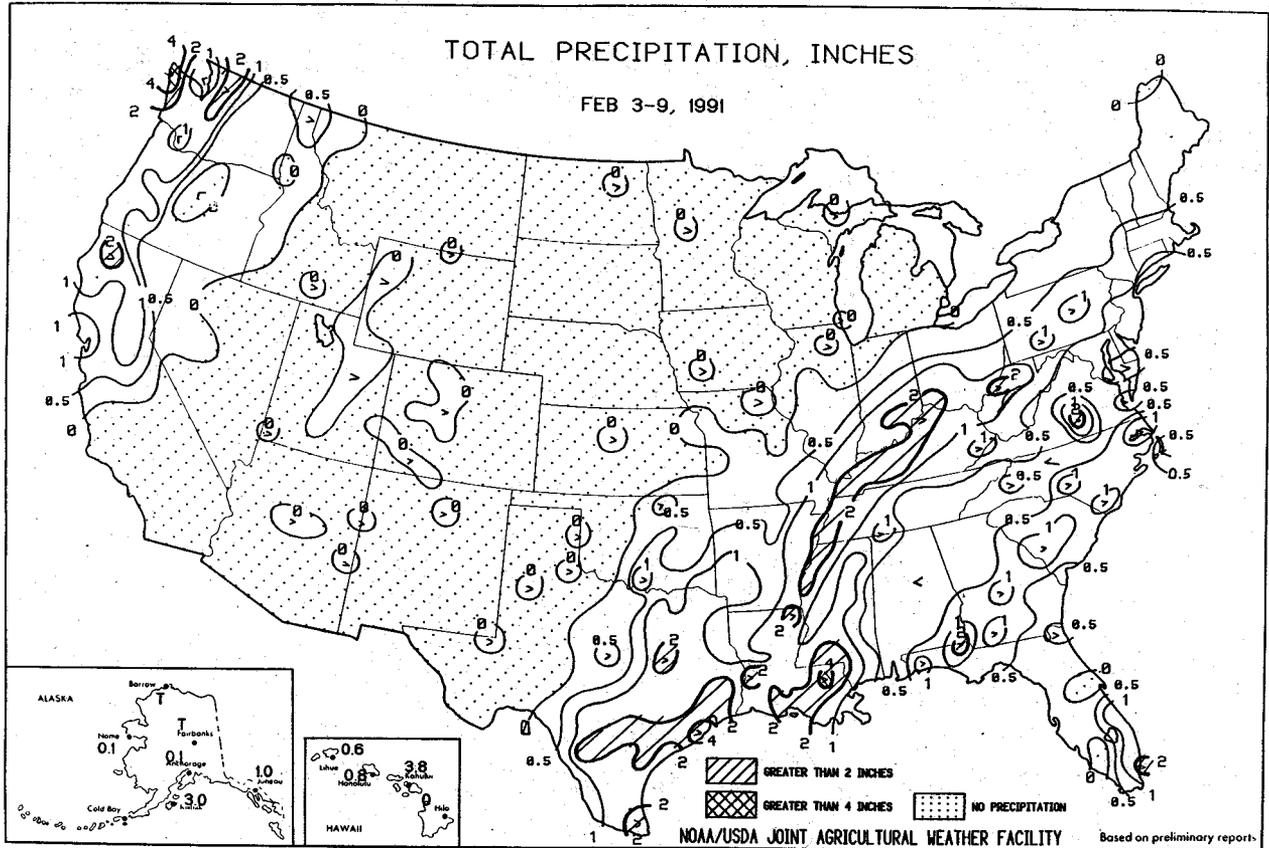
February 3-9, 1991

A week of spring-like warmth resulted in 168 record-high temperature readings, primarily from the **northern Plains** to **New England**. Weekly temperatures averaged up to 33° F above normal in **North Dakota**, while several stations in **Michigan** and **Pennsylvania** shattered former record highs by more than 15° F. Rain abated in **northern California** on Tuesday as high pressure ridged westward. One to 3 inches of rain fell during the 4-day wet spell, barely denting long-term moisture deficits. Subsequent storms were shunted northward into **Washington** or disintegrated as they approached the coast. A high pressure dome ruled the **Intermountain West** with sunny days and clear, cold nights. On Sunday, locally heavy rain pounded **eastern Florida**. Thunderstorms erupted on Monday in **eastern Texas**, deluging **Galveston** with over 4 inches of rain. Heavy rain slowly spread into the **Ohio Valley** by midweek. In California, a stagnant air mass

allowed dense fog to develop in inland valleys. By week's end, dry, mild weather prevailed from coast to coast. However, a cold front sinking through the **upper Great Lakes** was a harbinger of a return to wintry conditions in the **Northeast**.

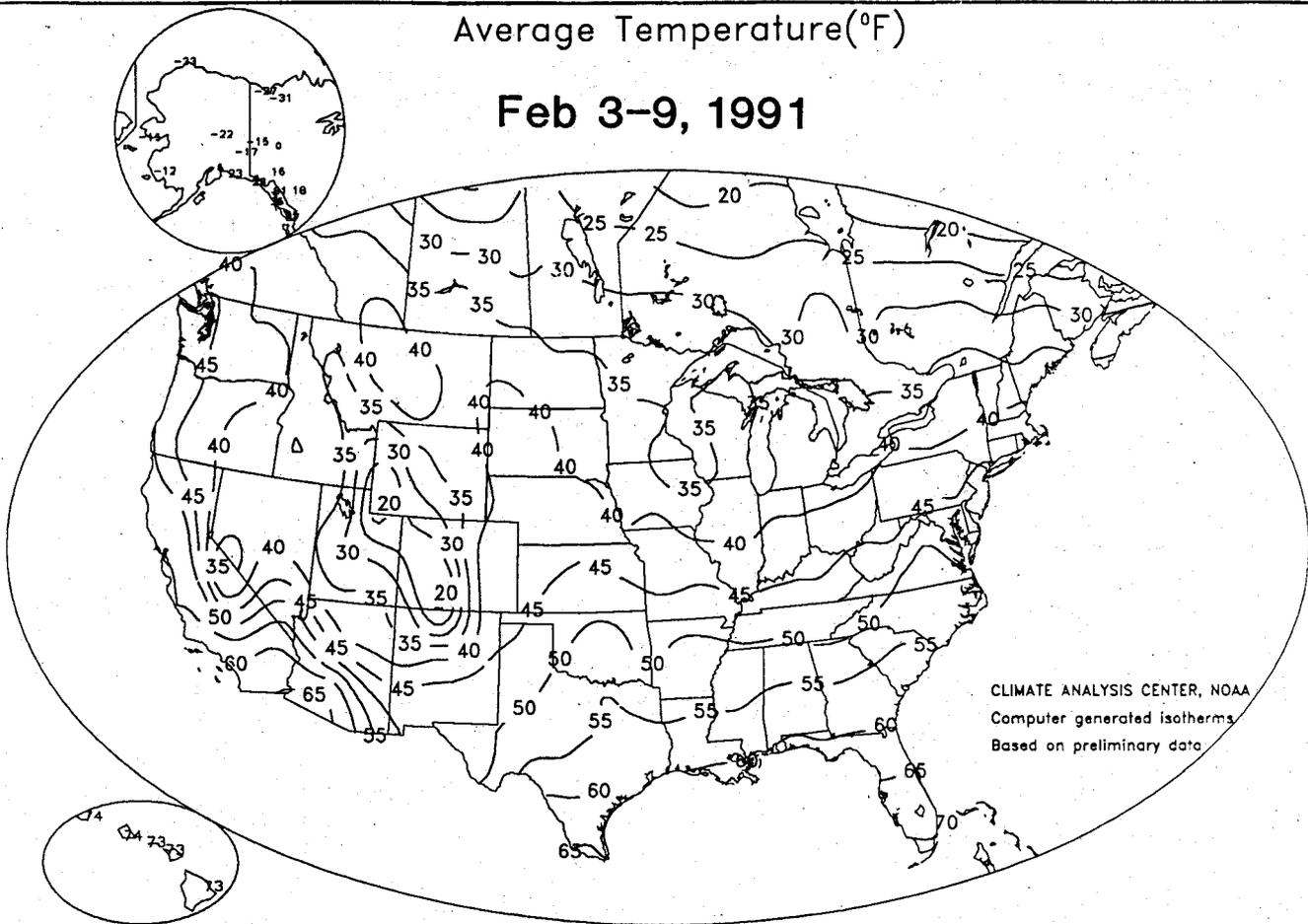
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Average Temperature(°F)

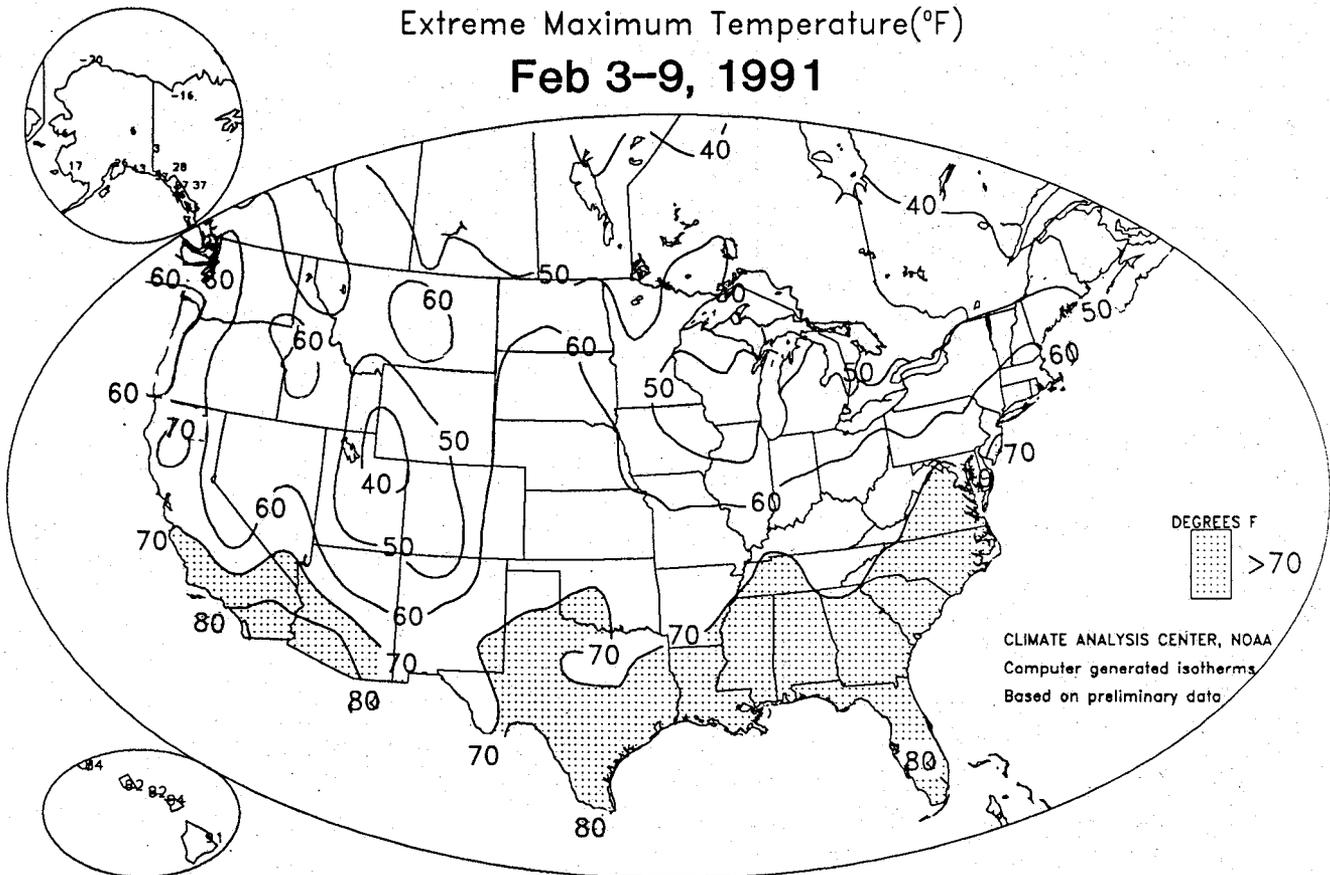
Feb 3-9, 1991



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

Extreme Maximum Temperature(°F)

Feb 3-9, 1991



DEGREES F  
[Stippled Box] >70

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

# National Weather Data for Selected Cities

## Weather Data for the Week Ending February 9, 1991

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 Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL, IN., SINCE Jan 1		PCT. NORMAL SINCE Jan 1	AVERAGE	MAXIMUM	MINIMUM	90 AND ABOVE		32 AND BELOW		.01 INCH OR MORE		.50 INCH OR MORE
													90 AND ABOVE					32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	64	45	73	31	55	10	T	-1.1	T	8.7	75	3.2	49	87	53	0	0	1	1	0	0			
MOBILE	69	50	72	36	60	7	T	-1.0	T	21.4	187	16.2	270	97	56	0	0	1	2	1	0			
MONTGOMERY	70	46	76	31	58	9	T	-1.0	T	11.6	113	8.3	151	93	47	0	0	1	1	0	0			
AK ANCHORAGE	14	0	26	-11	7	-9	T	-1.1	T	2.6	122	.8	77	89	64	0	0	7	7	0	0			
BARROW	-26	-40	-20	-45	-33	-14	T	-1.1	T	.2	45	.1	23	73	52	0	0	7	7	1	0			
FAIRBANKS	-15	-31	6	-43	-23	-16	T	-1.1	T	4.2	299	1.2	182	76	65	0	0	7	7	3	0			
JUNEAU	35	27	38	18	31	5	T	.7	T	12.4	130	6.9	141	97	73	0	0	7	7	3	2			
KODIAK	25	10	38	-2	18	-13	T	1.6	T	18.6	143	13.6	182	89	65	0	0	6	4	1	2			
NOME	-7	-24	16	-36	-16	-19	T	-1.1	T	2.5	156	1.2	124	78	53	0	0	7	7	1	0			
AZ PHOENIX	79	52	82	48	65	11	T	-1.1	T	1.1	64	.6	72	46	14	0	0	0	0	0	0			
PRESCOTT	62	27	65	22	44	6	T	-1.3	T	1.0	25	.7	31	68	19	0	0	6	1	0	0			
TUCSON	75	43	81	37	59	6	T	-1.2	T	2.7	138	1.2	113	47	12	0	0	0	0	0	0			
YUMA	82	51	87	50	67	8	T	-1.1	T	.9	108	.8	183	44	16	0	0	0	0	0	0			
AR FORT SMITH	63	38	70	26	51	11	T	.6	T	7.7	144	2.8	112	97	46	0	0	2	2	3	0			
LITTLE ROCK	63	45	67	36	54	11	T	.6	T	14.3	154	6.2	123	84	54	0	0	0	0	0	0			
CA BAKERSFIELD	70	41	75	36	56	4	T	-1.3	T	.9	45	.6	48	95	46	0	0	0	0	0	0			
BUREKA	60	47	64	42	53	5	T	-1.4	T	7.1	48	4.2	48	94	67	0	0	0	0	1	0			
FRESNO	66	42	71	37	54	5	T	-1.3	T	1.2	28	.5	19	97	53	0	0	0	0	1	0			
LOS ANGELES	66	51	74	46	59	2	T	-1.7	T	1.4	26	1.4	35	98	59	0	0	0	0	0	0			
REDDING	63	39	70	32	51	1	T	-1.5	T	4.6	26	4.0	38	96	52	0	0	1	3	1	0			
SACRAMENTO	61	45	65	41	53	4	T	-1.1	T	4.3	53	2.8	55	99	64	0	0	0	0	2	0			
SAN DIEGO	67	51	74	48	59	3	T	-1.4	T	1.6	36	1.1	41	97	57	0	0	0	2	2	0			
SAN FRANCISCO	60	48	64	44	54	3	T	-1.5	T	4.2	45	2.4	41	97	68	0	0	0	0	1	0			
CO DENVER	55	27	60	25	41	-9	T	-1.1	T	1.0	87	.8	113	82	27	0	0	7	7	0	0			
GRAND JUNCTION	39	10	43	0	25	-6	T	-1.1	T	1.9	140	.9	116	86	49	0	0	7	7	0	0			
PURDLO	60	20	64	13	40	7	T	-1.1	T	.3	49	.1	26	71	20	0	0	7	7	0	0			
CT BRIDGEPORT	52	36	60	27	44	15	T	-1.3	T	6.7	85	3.2	76	88	56	0	0	1	2	0	0			
HARTFORD	54	31	67	24	43	17	T	-1.2	T	7.9	91	3.0	67	83	47	0	0	5	2	0	0			
DC WASHINGTON	60	40	70	33	50	14	T	-1.4	T	7.9	118	3.1	89	89	46	0	0	0	0	2	0			
FL APALACHICOLA	69	54	73	42	61	8	T	-1.4	T	25.6	313	24.0	514	95	53	0	0	0	2	0	0			
DAYTONA BEACH	73	54	79	47	64	6	T	-1.4	T	3.6	65	3.3	98	93	52	0	0	0	1	0	0			
JACKSONVILLE	69	51	76	46	60	6	T	-1.3	T	12.9	198	11.0	271	96	58	0	0	0	2	0	0			
KEY WEST	78	68	80	65	73	4	T	-1.5	T	3.8	92	2.4	103	83	53	0	0	0	2	0	0			
MIAMI	77	61	81	51	69	2	T	-1.3	T	3.9	86	2.9	107	84	50	0	0	0	2	1	0			
ORLANDO	74	57	79	51	66	5	T	-1.7	T	3.5	71	2.7	89	93	50	0	0	0	0	0	0			
TALLAHASSEE	71	50	78	37	61	9	T	-1.7	T	23.9	223	19.5	315	94	49	0	0	0	2	0	0			
TAMPA	75	58	81	50	67	7	T	-1.7	T	2.6	51	2.5	81	92	50	0	0	0	1	0	0			
WEST PALM BEACH	75	62	79	52	68	3	T	-1.2	T	1.9	14.4	248	12.5	350	82	51	0	0	0	1	1			
GA ATLANTA	64	43	73	31	54	11	T	-1.0	T	7.7	74	4.7	75	95	55	0	0	1	2	0	0			
AUGUSTA	69	41	74	34	55	9	T	-1.2	T	10.6	127	8.7	166	96	44	0	0	0	2	1	0			
MACON	68	43	75	35	56	8	T	-1.9	T	14.6	151	11.1	197	96	51	0	0	0	2	0	0			
SAVANNAH	69	49	73	45	59	9	T	-1.6	T	11.3	165	9.2	225	96	56	0	0	0	3	0	0			
HI HILO	85	62	91	58	74	2	T	-3.1	T	33.9	129	3.8	29	90	51	1	0	0	0	0	0			
HONOLULU	81	68	83	65	75	2	T	.8	T	6.5	80	1.6	33	90	65	0	0	1	1	1	1			
KAHULUI	83	65	85	62	74	3	T	3.8	T	9.8	126	3.9	77	95	60	0	0	0	1	1	1			
LIHU	81	69	85	65	75	4	T	-1.4	T	4.6	35	1.3	17	89	63	0	0	0	2	1	1			
ID BOISE	50	33	61	28	41	7	T	-1.3	T	1.9	57	1.0	48	95	57	0	0	4	1	0	0			
LEWISTON	57	39	60	35	48	12	T	-1.3	T	.6	19	.1	8	66	43	0	0	0	0	0	0			
POCATELLO	47	25	50	22	36	8	T	-1.2	T	1.9	80	.7	51	92	52	0	0	6	0	0	0			
IL CHICAGO	45	30	51	25	37	15	T	-1.3	T	.0	3.4	.78	1.4	73	97	65	0	0	5	0	0			
MOLINE	45	30	50	27	38	15	T	-1.3	T	.0	4.2	109	1.2	60	96	62	0	0	6	0	0			
PEORIA	44	30	51	25	37	13	T	-1.3	T	4.9	122	1.2	60	98	73	0	0	6	1	0	0			
QUINCY	46	33	54	30	40	13	T	-1.3	T	2.3	67	.6	35	87	64	0	0	5	0	0	0			
ROCKFORD	43	27	47	24	35	14	T	-1.3	T	3.5	98	1.1	65	96	65	0	0	7	0	0	0			
SPRINGFIELD	46	32	55	29	39	12	T	-1.4	T	6.3	151	1.3	65	97	77	0	0	5	1	0	0			
IN EVANSVILLE	54	34	68	25	44	11	T	-1.4	T	11.6	159	4.2	108	98	72	0	0	3	2	1	1			
FORT WAYNE	44	32	55	31	38	13	T	-1.3	T	.2	9.6	187	2.0	75	97	79	0	0	5	2	0			
INDIANAPOLIS	50	34	62	29	42	14	T	-1.4	T	5.2	10.3	162	2.5	75	97	69	0	0	4	3	1			
SOUTH BEND	44	32	52	28	38	14	T	-1.5	T	6.7	112	1.7	54	94	67	0	0	5	0	0	0			
IA DES MOINES	52	30	58	26	41	19	T	-1.2	T	.0	3.1	136	1.0	75	92	57	0	0	6	0	0			
SIoux CITY	51	28	62	26	40	19	T	-1.2	T	.0	1.3	.79	.5	55	97	58	0	0	7	0	0			
WATERLOO	40	23	43	17	32	14	T	-1.2	T	.0	2.0	.94	.8	75	97	69	0	0	6	0	0			
KS CONCORDIA	60	31	64	27	46	16	T	-1.2	T	1.0	69	.6	72	84	36	0	0	5	0	0	0			
DODGE CITY	62	30	66	26	46	13	T	-1.1	T	.9	88	.3	60	80	24	0	0	6	0	0	0			
GOODLAND	60	26	67	21	43	13	T	-1.1	T	.0	4	.48	.3	57	77	23	0	0	7	0	0			
TOPEKA	59	30	63	22	44	14	T	-1.2	T	1.8	73	.8	68	94	42	0	0	5	1	0	0			
WICHITA	63	32	68	22	47	15	T	-1.2	T	1.1	60	.6	65	88	33	0	0	5	0	0	0			
KY BOWLING GREEN	55	36	67	23	46	10	T	1.5	T	1.4	17.6	6.1	105	97	71	0	0	2	3	2	2			
LEXINGTON	52	37	63	29	44	12	T	1.6	T	.9	14.3	173	4.2	92	92	67	0	0	2	3	2			
LOUISVILLE	55	35	68	29	45	11	T	1.7	T	1.0	13.9	179	5.0	117	95	66	0	0	4	3	2			
LA ALEXANDRIA	67	47	72	37	57	6	T	.7	T	-1.5	18.6	173	10.4	175	96	55	0	0	0	2	0			
BATON ROUGE	70	50	75	37	60	8	T	1.9	T	.7	16.4	147	11.6	188	98	54	0	0	0	2	1			
LAKE CHARLES	69	49	71	41	59	8	T	1.3	T	.4	19.6	181	15.6	270	99	57	0	0	0	1	1			
NEW ORLEANS	68	52	74	43	60	7	T	2.0	T	.7	30.9	260	21.2	321	95	62	0	0	0	2	1			

Based on 1951-80 normals

Weather Data for the Week Ending February 9, 1991

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 Dec 1	PCT. NORMAL SINCE Dec 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		
BERKELEYPORT	65	43	73	32	54	.6	.6	.3	.5	12.3	136	8.4	162	95	55	0	1	2	1	1	
ME CARIBOU	39	23	43	14	30	19	.4	.3	.5	7.7	124	2.1	68	90	64	0	1	7	2	1	
PORTLAND	47	30	59	25	39	17	.2	.2	.4	11.2	119	3.3	67	94	61	0	5	5	0	0	
MD BALTIMORE	60	36	73	30	48	15	.4	.5	.1	8.6	118	3.8	97	78	41	0	3	2	2	0	
BALTIMORE	59	33	72	26	46	11	.5	.3	.5	9.8	120	5.7	130	95	46	0	5	5	0	0	
MA BOSTON	55	38	65	35	46	17	.7	.2	.7	7.1	74	3.9	76	85	58	0	0	1	1	1	
CHATHAM	47	36	50	33	42	12	.6	.5	.6	7.3	69	3.5	62	85	68	0	0	2	2	0	
MI ALPENA	47	31	57	27	39	21	.0	.3	.0	2.8	68	1.0	45	86	51	0	5	5	0	0	
DETROIT	47	31	56	27	39	15	.0	.4	.0	5.8	120	1.5	62	92	64	0	4	4	0	0	
FLINT	44	31	55	27	39	17	.0	.3	.0	4.0	100	1.5	74	94	62	0	5	5	0	0	
GRAND RAPIDS	44	30	54	24	37	15	.0	.4	.0	4.3	85	1.3	54	97	69	0	5	5	0	0	
HOUSTON LAKE	42	30	50	25	36	20	.0	.3	.0	2.8	73	1.2	65	91	61	0	5	5	0	0	
LANSING	45	29	53	23	37	17	.0	.3	.0	4.1	91	1.3	63	97	66	0	5	5	0	0	
MARQUETTE	47	28	54	17	38	25	.0	.4	.0	2.6	52	.9	36	80	53	0	6	6	0	0	
MUSKOGON	45	29	50	25	37	14	.0	.4	.0	4.0	73	1.4	47	97	64	0	5	5	0	0	
SAULT ST. MARIE	40	25	46	19	33	20	.0	.4	.0	4.0	75	1.5	55	97	60	0	7	7	0	0	
MI ALEXANDRIA	45	27	49	21	36	27	.0	.2	.0	1.0	55	.5	43	93	56	0	7	7	0	0	
DULUTH	45	27	52	19	36	26	.0	.2	.0	1.0	37	.5	37	87	47	0	6	6	0	0	
INT'L FALLS	42	24	53	12	33	29	.0	.2	.0	2.0	101	.8	74	88	51	0	7	7	0	0	
MINNEAPOLIS	46	27	50	20	36	22	.0	.2	.0	1.5	80	.5	47	94	51	0	6	6	0	0	
ROCHESTER	40	26	44	20	33	20	.0	.1	.0	2.3	123	.7	68	96	65	0	7	7	0	0	
MS GREENWOOD	62	43	75	30	52	7	.6	.5	.5	12.6	105	3.8	58	97	64	0	2	2	0	0	
JACKSON	64	44	75	33	54	7	1.1	.0	1.1	11.8	101	6.1	96	99	67	0	0	3	1	1	
MERIDIAN	65	45	76	36	55	8	.4	.6	.4	9.9	82	6.2	98	97	61	0	0	2	0	0	
MO CAPE GIRARDEAU	53	36	64	29	45	—	1.1	.4	.8	13.6	182	4.6	122	99	71	0	3	2	1	1	
COLUMBIA	51	34	62	29	42	11	.0	.4	.0	5.1	119	1.6	70	92	60	0	3	1	0	0	
KANSAS CITY	54	31	61	24	42	11	.2	.1	.2	2.7	90	1.6	104	92	49	0	4	1	0	0	
SAINT LOUIS	53	36	65	32	45	13	.1	.4	.1	8.1	179	1.6	69	92	59	0	4	1	2	0	
SPRINGFIELD	57	35	64	27	46	12	.1	.3	.1	9.2	195	3.2	146	91	50	0	4	1	0	0	
MT BILLINGS	57	35	60	30	46	19	.0	.2	.0	1.3	66	.8	68	62	28	0	3	0	0	0	
GLASGOW	48	28	51	22	38	25	.0	.1	.0	.8	95	.2	43	89	53	0	6	0	0	0	
GREAT FALLS	55	35	58	27	45	20	.0	.2	.0	1.4	70	.7	53	63	30	0	3	0	0	0	
HAYDEN	55	27	61	20	41	23	.0	.1	.0	.4	30	.0	5	86	38	0	7	0	0	0	
HELENA	51	25	55	19	38	14	.0	.1	.0	.8	54	.3	35	92	41	0	7	0	0	0	
KALISPELL	43	26	47	15	35	10	.0	.3	.0	6.1	172	1.8	88	93	62	0	4	1	0	0	
MILES CITY	49	29	57	26	39	20	.0	.1	.0	.8	59	.6	76	85	54	0	7	0	0	0	
MISSOULA	41	24	50	15	33	7	.0	.2	.0	1.7	60	.6	37	93	64	0	6	0	0	0	
NE GRAND ISLAND	58	28	64	22	43	18	.0	.2	.0	1.3	96	.5	75	88	33	0	7	0	0	0	
LINCOLN	56	27	62	23	42	18	.0	.2	.0	1.7	109	.9	102	95	44	0	6	0	0	0	
NORFOLK	55	27	64	24	41	20	.0	.2	.0	1.4	106	.9	126	92	44	0	6	0	0	0	
NORTH PLATTE	61	21	66	14	41	16	.0	.1	.0	.4	48	.4	69	93	26	0	7	0	0	0	
OMAHA	49	31	57	24	40	16	.0	.2	.0	1.7	98	.9	96	88	62	0	5	0	0	0	
SCOTTSBLUFF	58	20	61	15	39	11	.0	.1	.0	.8	79	.5	84	85	23	0	7	0	0	0	
VALENTINE	57	22	62	12	39	18	.0	.1	.0	.4	55	.2	37	89	32	0	7	0	0	0	
NV ELY	56	17	60	13	36	9	.0	.2	.0	.4	25	.1	12	79	26	0	7	0	0	0	
LAS VEGAS	70	40	72	35	55	7	.0	.1	.0	.2	23	.2	34	43	16	0	0	0	0	0	
RENO	58	27	64	24	43	7	.1	.1	.1	.6	21	.1	9	94	34	0	6	1	0	0	
WINNEMUCCA	57	25	62	19	41	7	.0	.2	.0	1.0	50	.4	32	89	38	0	6	0	0	0	
NH CONCORD	50	26	61	20	38	18	.4	.2	.4	6.4	92	2.3	63	98	55	0	5	2	0	0	
NJ ATLANTIC CITY	58	34	72	25	46	13	.3	.5	.2	9.0	111	5.4	120	86	46	0	5	2	0	0	
NM ALBUQUERQUE	58	29	63	22	43	5	.0	.1	.0	1.2	122	.6	93	67	21	0	6	0	0	0	
CLOVIS	62	34	68	30	48	8	.0	.1	.0	1.0	82	.6	93	74	26	0	5	0	0	0	
ROSWELL	65	32	73	28	49	7	.0	.1	.0	.5	62	.2	43	65	20	0	5	0	0	0	
NY ALBANY	51	29	61	22	40	18	.7	.2	.6	6.3	105	2.8	93	94	54	0	4	2	1	1	
BINGHAMTON	46	33	55	27	40	19	.4	.2	.2	7.7	127	2.5	77	89	60	0	3	2	0	0	
BUFFALO	45	36	57	33	40	17	.2	.4	.1	11.0	153	2.3	60	90	64	0	0	3	0	0	
NEW YORK	57	43	70	40	50	18	.4	.3	.2	8.3	108	3.4	85	70	46	0	0	2	0	0	
ROCHESTER	47	36	58	32	41	18	.2	.4	.1	6.1	108	1.9	63	89	64	0	1	2	0	0	
SYRACUSE	49	32	60	23	41	18	.3	.4	.1	7.9	121	2.7	80	90	57	0	3	3	0	0	
NC ASHEVILLE	61	33	70	22	47	9	.0	.6	.1	7.9	108	3.4	83	96	46	0	3	2	0	0	
CHARLOTTE	67	40	72	33	54	12	.3	.6	.3	9.6	115	6.3	128	98	35	0	0	1	0	0	
GREENSBORO	65	37	73	28	51	13	.2	.7	.2	8.9	112	4.7	103	85	36	0	3	1	0	0	
HATTERAS	61	45	69	40	53	8	.4	.6	.4	18.0	170	12.9	208	96	54	0	0	1	0	0	
NEW BERN	67	41	75	35	54	9	.9	.1	.9	10.2	113	8.2	155	98	44	0	0	2	1	1	
RALEIGH	65	39	74	31	52	12	.3	.6	.2	7.5	97	4.4	96	94	39	0	2	2	0	0	
WILMINGTON	68	43	74	37	55	9	.7	.1	.7	13.6	167	11.0	232	98	48	0	0	2	1	1	
ND BISMARCK	52	23	62	18	38	26	.0	.1	.0	.7	60	.2	27	93	40	0	7	0	0	0	
FARGO	47	25	51	16	36	28	.0	.1	.0	1.1	83	.3	42	90	54	0	7	0	0	0	
GRAND FORKS	48	25	55	16	36	30	.0	.1	.0	.8	51	.3	32	89	50	0	7	0	0	0	
WILLISTON	51	27	58	19	39	27	.0	.1	.0	.6	52	.2	29	90	43	0	6	0	0	0	
OH AKRON-CANTON	46	33	61	29	39	14	.3	.2	.2	9.5	162	2.8	87	93	66	0	5	2	0	0	
CINCINNATI	51	36	64	29	43	13	2.5	1.9	1.9	13.3	192	5.4	136	92	70	0	2	3	2	2	
CLEVELAND	46	33	60	31	39	14	.1	.4	.1	10.9	185	2.3	73	91	67	0	2	2	0	0	
COLUMBUS	49	35	61	28	42	14	1.0	.5	.7	9.9	166	3.0	87	94	71	0	4	3	1	1	

Based on 1951-80 normals

Weather Data for the Week Ending February 9, 1991

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 Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	80 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	48	35	61	27	41	13	1.1	.6	1.1	13.7	241	3.7	114	91	72	0	3	3	1	1	
TOLEDO	46	32	56	30	39	15	.4	.4	.4	7.2	139	1.5	57	92	69	0	3	3	0	0	
YOUNGSTOWN	46	32	62	28	39	15	.3	.2	.2	9.0	148	2.5	73	92	73	0	3	3	0	0	
OK OKLAHOMA CITY	65	39	70	29	52	13	.4	.3	.4	2.4	96	.9	71	84	38	0	1	1	1	1	
TULSA	64	38	69	32	51	13	.3	.1	.1	4.7	129	1.7	95	88	39	0	2	2	2	2	
OR ASTORIA	57	40	61	33	49	5	1.5	.5	.9	14.4	58	9.3	69	96	56	0	0	0	0	0	
BURNS	46	25	50	23	36	4	.2	.1	.2	.9	27	.8	39	94	60	0	7	3	2	2	
MEDFORD	54	35	58	31	44	3	.6	.1	.3	3.8	50	2.7	66	100	67	0	4	4	3	3	
PENDLETON	53	36	59	30	45	7	.1	.2	.1	1.9	50	1.1	50	87	59	0	2	2	1	1	
PORTLAND	58	39	60	33	48	6	.6	.5	.3	6.1	43	3.7	48	92	54	0	0	0	3	3	
SALEM	55	39	60	32	47	5	1.3	.0	.7	7.6	48	4.8	55	96	66	0	1	3	3	1	
PA ALLENTOWN	56	34	67	30	45	17	.5	.2	.4	8.9	112	3.2	76	85	48	0	4	4	0	0	
ERIE	47	36	60	32	41	18	.1	.4	.1	9.2	147	2.3	76	87	64	0	1	2	2	0	
HARRISBURG	57	34	68	26	46	15	.6	.1	.4	8.9	126	3.2	84	88	45	0	3	3	2	2	
PHILADELPHIA	59	36	69	31	48	16	.2	.4	.2	8.1	109	4.3	108	90	44	0	3	3	2	0	
PITTSBURGH	49	36	62	31	43	16	.7	.1	.4	11.7	192	3.2	90	87	65	0	3	3	3	0	
SCRANTON	51	35	59	29	43	17	.6	.1	.3	6.4	120	2.1	74	85	53	0	1	3	3	0	
RI PROVIDENCE	55	34	66	27	45	16	.6	.4	.5	9.5	98	4.0	76	83	48	0	3	3	2	1	
SC CHARLESTON	69	48	75	42	59	10	.8	.0	.6	11.3	152	8.6	200	98	53	0	0	0	2	1	
COLUMBIA	69	41	77	33	55	10	.5	.4	.4	7.7	84	6.0	107	96	44	0	0	0	3	0	
FLORENCE	67	43	74	37	55	10	.7	.1	.4	8.8	117	6.3	138	93	47	0	0	0	3	0	
GREENVILLE	66	38	72	29	52	10	.4	.7	.3	8.4	87	5.1	92	89	38	0	2	2	2	0	
SD ABERDEEN	54	23	58	16	38	26	.0	.1	.0	.5	42	.1	16	82	36	0	6	0	0	0	
HURON	56	21	61	15	38	23	.0	.2	.0	.5	49	.1	15	92	32	0	7	0	0	0	
RAPID CITY	57	30	62	23	43	19	.0	.1	.0	.7	67	.3	59	73	29	0	5	0	0	0	
STOUX FALLS	51	25	58	21	38	22	.0	.2	.0	.8	58	.2	32	93	52	0	7	0	0	0	
TN CHATTANOOGA	62	38	68	28	50	10	.1	-1.0	.1	13.2	112	2.9	43	91	49	0	3	2	0	0	
KNOXVILLE	59	36	67	26	47	8	.1	-.9	.1	11.7	111	2.7	45	96	53	0	3	2	1	1	
MEMPHIS	61	43	71	31	52	10	2.2	1.2	2.2	15.7	145	5.1	86	97	66	0	2	1	1	0	
NASHVILLE	58	40	73	27	49	11	.5	-.5	.4	14.2	138	3.4	60	94	61	0	1	2	0	0	
TX ABILENE	65	41	69	33	53	7	.1	-.2	.1	3.6	166	2.8	215	88	40	0	0	1	0	0	
AMARILLO	62	28	70	25	45	7	.0	-.1	.0	1.1	98	.9	137	82	23	0	6	0	0	0	
AUSTIN	68	49	71	40	58	7	1.2	.5	1.1	11.1	251	10.4	439	90	49	0	0	2	1	1	
BRAUNMONT	69	49	72	42	59	6	1.9	.8	1.8	20.6	199	16.8	307	98	57	0	0	2	1	1	
BROWNSVILLE	73	54	76	44	64	2	2.5	2.1	2.4	3.0	102	3.0	168	99	56	0	0	2	1	1	
CORPUS CHRISTI	72	53	74	45	63	6	1.6	1.2	1.6	3.7	111	3.3	153	98	56	0	0	2	1	1	
DEL RIO	72	46	75	37	59	5	T	-.2	T	.8	59	.6	72	78	30	0	0	0	0	0	
EL PASO	66	34	72	27	50	3	.0	-.1	.0	1.2	134	.8	161	74	20	0	2	2	1	1	
FORT WORTH	66	45	70	37	55	9	1.1	.7	.8	5.3	131	3.8	167	91	47	0	0	2	1	1	
GALVESTON	66	54	69	50	60	6	4.5	3.9	4.5	17.1	231	15.3	402	92	64	0	0	1	1	1	
HOUSTON	69	47	72	37	58	4	2.0	1.1	1.9	13.5	162	11.7	255	97	50	0	0	0	0	0	
LUBBOCK	64	33	71	29	49	8	T	-.1	T	1.6	183	1.2	229	79	27	0	4	4	1	0	
MIDLAND	66	34	71	27	50	4	T	-.1	T	2.5	248	1.8	318	92	30	0	0	1	0	0	
SAN ANGELO	67	37	71	31	52	4	T	-.2	T	2.3	150	2.1	235	93	42	0	2	0	0	0	
SAN ANTONIO	69	46	73	37	57	5	1.8	1.3	1.7	7.1	203	6.8	321	95	49	0	0	3	3	1	
VICTORIA	70	49	72	41	60	6	2.4	1.8	2.3	11.0	231	10.2	390	97	55	0	0	0	1	1	
WACO	65	44	70	35	54	6	.7	-.2	.7	5.2	123	3.8	167	96	56	0	0	2	1	1	
WICHITA FALLS	66	41	71	33	53	10	T	-.2	T	3.6	153	2.7	224	92	43	0	0	0	1	1	
UT CEDAR CITY	47	23	51	20	35	3	.0	-.2	.0	1.8	122	.8	91	90	46	0	7	0	0	0	
SALT LAKE CITY	42	19	44	14	31	-1	T	-.3	T	1.7	55	1.1	65	94	55	0	7	0	0	0	
VT BURLINGTON	46	31	52	25	39	23	.1	-.3	.1	5.3	112	1.8	74	93	59	0	4	1	0	0	
VA NORFOLK	60	40	73	33	50	10	.4	-.4	.3	7.8	99	5.1	108	95	49	0	0	2	0	0	
RICHMOND	64	35	76	27	50	12	.2	-.6	.2	7.3	97	3.8	91	90	43	0	5	2	0	0	
ROANOKE	65	38	74	29	51	15	.4	-.4	.3	7.7	115	3.9	103	75	34	0	2	2	0	0	
WA QUILLAYUTE	54	41	60	33	48	6	4.6	1.6	2.1	39.6	111	22.8	124	100	68	0	0	6	3	3	
SEATTLE-TACOMA	55	42	62	32	48	6	1.3	.1	.7	10.1	73	6.5	86	97	65	0	1	3	2	2	
SPOKANE	48	32	50	28	40	10	.3	-.2	.2	3.8	69	2.1	70	96	65	0	4	3	0	0	
YAKIMA	54	29	58	25	41	8	.1	-.1	.1	.7	24	.5	28	94	44	0	6	2	0	0	
WV BECKLEY	54	35	64	26	44	13	.5	-.3	.4	10.0	133	4.7	107	86	57	0	4	2	0	0	
CHARLESTON	57	36	69	26	47	13	1.0	-.2	.8	10.6	138	3.6	82	82	54	0	3	3	1	1	
HUNTINGTON	56	38	68	29	47	13	1.3	.6	.8	11.6	161	3.5	86	89	59	0	2	3	1	1	
PARKERSBURG	54	38	66	29	46	14	1.0	.4	.8	11.1	174	4.0	110	94	61	0	2	3	1	1	
WI GREEN BAY	41	28	45	24	35	19	.0	-.2	.0	2.7	93	.6	40	92	66	0	7	0	0	0	
LACROSSE	41	27	48	20	34	17	.0	-.2	.0	3.9	172	.9	79	93	63	0	6	0	0	0	
MADISON	44	27	47	23	36	17	T	-.2	T	4.6	160	1.2	85	94	60	0	7	0	0	0	
MILWAUKEE	44	33	50	30	38	17	T	-.3	T	4.2	105	1.6	78	90	66	0	4	0	0	0	
WAUSAU	45	27	52	25	36	22	T	-.2	T	2.4	98	.4	35	98	59	0	7	0	0	0	
WY CASPER	49	26	52	23	38	12	.0	-.1	.0	1.2	104	.5	86	79	36	0	6	0	0	0	
CHEYENNE	52	24	57	19	38	10	.0	-.1	.0	.8	89	.4	77	73	21	0	7	0	0	0	
LANDER	46	22	51	19	34	10	.0	-.1	.0	.8	68	.4	61	83	46	0	7	0	0	0	
SHERIDAN	49	25	58	18	37	13	T	-.2	T	1.3	74	.9	89	81	39	0	7	0	0	0	

Based on 1951-80 normals

## National Agricultural Summary

February 4-10, 1991

**HIGHLIGHTS:** Warmer-than-normal weather over the northern half of the Nation melted the protective snow cover and made the wheat crop vulnerable to winter kill. Rain over the Southeast prevented some growers from applying nitrogen topdressing to small grains. However, these rains benefited the fruit and vegetable crops in Florida.

**SMALL GRAINS:** Kansas wheat was vulnerable to winter kill due to lack of snow cover. Snow cover protection on winter wheat in Montana was mostly poor with 97 percent (%) of the wheat still dormant. Winter wheat and barley in Arizona were in mostly good condition with 18% of the crop jointed, 2 points ahead of the 5-year average. Small grains in Georgia were mostly good to fair, with topdressing applied in the drier areas. Missouri wheat was in mostly fair to good condition. Warm weather in Oklahoma encouraged wheat development, but more moisture is needed for additional growth. Wheat growers in South Carolina were unable to apply nitrogen topdressing due to soggy fields. Wyoming winter wheat was fair to good, while warmer-than-normal weather melted the snow cover. Arkansas wheat stands in the southwest were thin due to being waterlogged. South Dakota winter wheat was in fair to good condition, with some reports of winter kill. Oregon winter wheat began to green in the northeastern areas. Texas small grains in the Plains showed signs of growth despite dry conditions.

**OTHER FIELD CROPS:** Florida sugarcane planting was almost complete, while harvest continued. Georgia and South Carolina tobacco bed preparation was complete and the plants were in fair to good condition. Open conditions allowed producers to complete the cotton harvest in the Texas Low Plains.

**FRUIT AND NUTS:** Arizona grapefruit, lemon, tangerine, and Valencia orange harvest continued. Navel and minneola harvests were complete in the central areas. Florida citrus trees and fruit were in good condition. Early

orange and tangelo harvests were slowing. Grapefruit movement was active, while the Valencia movement was limited. Some California almond orchards in the warmer areas began blooming. Bees were moved to these orchards. In Riverside County, desert peaches and nectarines began blooming, and grapefruit, navel oranges, and lemons were harvested. Lemon and orange growers pruned dead wood from frost damaged trees. Grading and packing of fruit continued in New York. Hawaii papaya production remained low.

**VEGETABLES:** Arizona vegetable harvests continued in the western and central areas. Harvest of winter vegetables in Florida was active. Georgia onions were fair to good. Disease problems continued in the southeast due to wet conditions. Irish potato and vegetable planting began in southern Alabama. California spring lettuce planting continued. Strawberry harvest began along the southern coast. Hawaii ginger root, and Chinese and head lettuce production was heavy to moderate. The Texas Rio Grande Valley cole crop harvest and spring watermelon planting continued. In the San Antonio Winter Garden area, normal progress continued for most crops. Spinach quality remained poor and the demand was low.

**PASTURES AND LIVESTOCK:** Pasture and livestock were in mostly good to fair condition. Livestock water supplies in Kansas were adequate. Newborn lambs and calves in Idaho benefited from the warm weather. Idaho hay and roughage supplies were adequate, while supplies in Mississippi were mostly short. Recent rains in California improved livestock water supplies and range conditions slightly. Preparation for sheep shearing was underway in the Texas Hill Country.

**Correction:** In the second sentence of last week's "January Weather in Historical Perspective," the precipitation ranking should have been 37th wettest (or 61st driest), not 61st wettest.

## 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 under 1.00 in. northwest; less than 0.20 in. elsewhere. Temperatures 5 to 9° above normal.

Warmer, dryer weather provided conditions suitable for fieldwork in latter part of week. Few Irish potatoes, vegetables planted in extreme south. Fruit chilling hours mostly adequate north, central; short south. Winter wheat mostly good. Primary activities: tax preparation; planning; equipment repair, maintenance; soil testing; pruning, fertilization of orchards; turning land; fertilization of small grain crops; general care, feeding of livestock, poultry, catfish.

**ARIZONA:** Sunny, warm 3rd through 6th; 10 to 15° above normal; increasing cloudiness 6th, beginning southwest moving northeast, sprinkles, light rain central, northeast, snow showers northeast mountains, temperatures lower; temperatures 3 to 10° above normal; Extremes 35°; 85° deserts, 17°; 73° higher elevations. Precipitation mostly none to 0.25 in. north central.

Cotton field preparations continued; activities plowing, listing, pre irrigation, applying pre emergent herbicides. Wheat, barley good; 100% seeded, 100% 1990, avg.; stands established 96%, 100% 1990, 97% avg.; jointing 18%, 18% 1990, 16% avg. Alfalfa good, harvest light; sheeping off light central, west. Grapefruit, lemon harvest continued west central; tangerines harvested west; sweets harvested central; central navel, minneola harvests completed; Valencia harvest underway central. Mixed vegetable harvest continued west, central.

**ARKANSAS:** Unseasonably warm, temperatures well above normal. Rain, scattered thunderstorms first half of week. Extremes 22°; 72°. Rainfall 0.11 to 2.51 in.

Wheat stands in southwest thin due to waterlogging. Nitrogen was applied to wheat stands across the State. Pastures are greening, over seeded with clover in northwest. Magnesium was placed on pastures in northwest. Quality of remaining hay is poor. Pruning of fruits, vegetables complete in northwest.

**CALIFORNIA:** Week began with strong cold front pushing through northern half of State. Locally heavy rain fell 3rd to 5th. Southern end of State remained dry. High pressure started to build mid week along west coast, continued through weekend, returning dry weather to northern sections. Statewide season rainfall totals remain much below normal.

Open weather permitted good progress field activities. Small grain growth improved following rains. More rain needed to continue progress. Irrigation ongoing where rain scarce. Limited seeding continued. Newly seeded alfalfa growing well, planting still underway. Established alfalfa received herbicide application, irrigation. Green chopping ongoing, southern counties. Ground preparation spring planted row crops continued. General activities included cultivation, fertilization, herbicide application, pre-irrigation.

Vineyard activity steady, growers were pruning, tying vines, irrigating, controlling weeds. Some new orchard, vineyard planting occurred, central valley. Orchard activity steady, growers were pruning trees, treating weeds, irrigating. Buds began to swell, stone fruit. Some almond orchards, warmer areas, began bloom. Bees moved to almond orchards. In Riverside County desert peaches, nectarines blooming, table grapes began bud break. Central valley navel harvest slow, limited quantity to processing. Lemon, orange growers pruning dead wood, some groves irrigated. Grapefruit, navels, lemons harvested, avocado harvest steady, Riverside County. Planting spring lettuce continued westside. Winter potato harvest continued Hemet San Jacinto area. Strawberry harvest began, south coast. Lettuce harvest continued Blythe area. Cattle on supplemental feed. Range conditions poor to very poor southern two thirds of State, poor good northern third. Water supplies short. Recent rains improved water supplies, range conditions slightly. Livestock continued grazing crop residues.

**COLORADO:** Another dry week statewide with warmer than normal temperature east, below normal temperatures in San Luis Valley, west of Continental Divide. Only precipitation was light snow at higher elevations in southern mountains on 6th to 7th. Temperatures 8 to 12° above normal east; 4 to 7° below normal in San Luis Valley, west of Divide.

Calving, lambing are underway with feeding, caring for livestock being the major farm activity.

**FLORIDA:** Dry weather, above normal temperatures, prevailed early in week. Mid week cold front brought scattered rainfall. Panhandle locations received 1.00 to 2.00 in; Peninsula locations 0.25 to 0.50 in. Temperatures 1° below to 6° above normal.

Soil moisture mostly surplus Panhandle, northern Peninsula; short to adequate central Peninsula; mostly adequate southern Peninsula. Tobacco growers maintained tobacco beds, making field preparations. Sugarcane planting winding down. Sugarcane harvest continued active. Panhandle pastures fair to good. Northern, central Peninsula pastures poor to good. Southern Peninsula pastures fair to good. Pasture ratings: 6% poor, 50% fair, 44% good. Panhandle, northern Peninsula cattle poor to good. Southern Peninsula cattle fair to good. Citrus trees, fruit good condition. Some young tree open bloom, spotty older tree bloom. Early orange harvest slowing. Grapefruit movement active on East Coast, limited Valencia movement. Tangelo harvest slowing. Temple, Honey tangerine harvest still active. Cooler weather generally welcomed throughout major vegetable producing areas. Rainfall limited, mostly widespread showers. Ground preparation, planting continued active. Harvest winter crops active. Volume leaders: Tomatoes, cabbage, peppers, snap beans, carrots, celery, squash. Also available sweet corn, eggplant, lettuce, potatoes, radishes, strawberries. First Homestead potatoes dug.

**GEORGIA:** Warm with mostly light rain. Temperatures 9 to 12° above normal northern half, 5 to 10° above normal elsewhere. Warmest around 70° north to mid, upper 70s central, south. Lows low to upper 20s mountains; mid, upper 30s central, south; upper 40s coast. Rain totals under 0.25 in. Soil moisture surplus central, southwest, adequate elsewhere. Onions fair to good, disease still a problem in southeast due to wet conditions. Wheat, other small grains fair to mostly good. Farmers making special effort to apply nitrogen top dress applications to small grains. Tobacco bed preparation complete, plants mostly fair. Unseasonably warm weather north, causing peach trees to bud. Pastures poor to good, mostly fair. Cattle, hogs good.

**HAWAII:** Continued warm, sunny weather most of week. Occasional cloudiness, light showers. Crop conditions continued improvement. Irrigation stepped up in some areas. Light, variable winds 5 to 20 mph. Temperatures mid 60s to low 80s. Rainfall none to 0.40 in. Days suitable for farm work 7.0. Papaya production remains low. Ginger root harvesting active, heavy. Chinese, head cabbage production moderate.

**IDAHO:** Temperatures 5 to 15° above normal with precipitation well below normal statewide. Select areas of east, all of north received adequate soil moisture. Remainder of State was short. Major farm activities included shopwork, livestock care, meetings. Livestock condition good. Lambing, calving continuing, with benefit of warmer weather. Hay, roughage supplies adequate.

**ILLINOIS:** Temperatures 9 to 11° above normal. Precipitation generally none north, central; 1.00 to 2.00 in. south. Soil moisture adequate to surplus. Winter wheat fair to good.

**INDIANA:** Temperatures 9 to 14° above normal. Lows upper 20s to upper 30s, highs low 40s to upper 60s. Precipitation 0.40 to 1.80 in. Muddy conditions limited fieldwork. Other activities: Attending farm auctions, pesticide training, selling grain, hauling manure, machinery maintenance, purchasing supplies, attending meetings, tobacco processing, tax preparation, care of livestock. Livestock mostly good. Wheat fair to good. Mild week.

**IOWA:** Warm weather good for most livestock. However, feedlots without cement very muddy. Snow cover almost gone, entire State.

**KANSAS:** Temperatures 15° above normal across State. Precipitation sparse, only few hundredths eastern districts. Wheat vulnerable winter kill, no snow cover. Livestock feeding declined with above normal temperatures. Stockwater supplies adequate.

**KENTUCKY:** Warm, afternoon highs mid upper 60s 4th. Cold front on 5th dropped temperatures to near normal, produced rainfall. Temperatures mid 40s, rainfall less than 1.00 in. southeast to over 2.50 in. northeast. Soil moisture adequate to surplus. Wet fields limited activities. Routine chores major activity. Burley sales finishing up. Only seven markets remain open. No tobacco placed under the loan program so far this season.

**LOUISIANA:** Temperatures 5.8° above normal north central to 7.6° above normal east central. Extremes 26°; 79°. Rainfall 0.61 in. northwest to 2.01 in. southwest. Main farm activities: Fields are still wet in many areas. Top dressing wheat, winter pastures as ground permits. Machinery repairs, maintenance was common. Livestock care, planning for spring plantings.

**MARYLAND & DELAWARE:** **MARYLAND:** Precipitation 0.44 in. Temperature 47.6°, normal 33.2°. Extremes 18°; 75°.

Activities for the week: Repairing fence; hauling manure; spreading fertilizer; maintaining machinery; tax preparation; caring for livestock. **DELAWARE:** Precipitation 0.42 in. Temperature 47.8°, normal 34.0°. Extremes 16°; 73°.

Activities for the week: Repairing fence; hauling manure; spreading fertilizer; maintaining machinery; tax preparation; caring for livestock.

**MICHIGAN:** Temperatures 14° above to 23° above normal. Extremes 13°; 57°. Precipitation none to 0.03 in. across the State. Unseasonably warm temperatures persisted throughout the week and cooler weather returned by the weekend. Much of the snow cover has been depleted, farmers were able to perform outdoor chores. Livestock are healthy, out in the fields. Feed stocks are in good supply. Few fields of corn yet to be harvested. Dryers operational.

Major activities included: fruit tree pruning, barn cleaning, purchasing seed for spring planting, caring for livestock.

**MINNESOTA:** Temperatures 20 to 28° above normal for the State. Extremes 3° International Falls; 63° above at Canby. No precipitation.

**MISSISSIPPI:** Temperature 8° above normal. Extremes 21°; 81°. Temperatures 54°. Wet north, adequate moisture central, south. Rainfall 1.17 in., 0.02 in. above normal. Soil temperature 52°. Days suitable for fieldwork 0.6, 0.8 1990, 1.2 avg. Soil moisture 20% adequate, 80% surplus. Pasture 20% poor, 32% fair, 32% good, 16% excellent. Livestock 51% fair, 33% good, 16% excellent. Hay supply 72% short, 14% adequate, 14% surplus. Feed grain 14% short, 86% adequate. Wheat 9% very poor, 26% poor, 54% fair, 11% good. Activities: Feeding livestock, farm planning, some fertilizing of winter grazing.

**MISSOURI:** Temperatures 10 to 15° above normal. Precipitation very light except 2.00 in. Bootheel, 0.75 in. rest of southeast. Wheat fair to good. Farmers caring for livestock, preparing for planting.

**MONTANA:** Record or near record breaking warm temperatures statewide. Several locations over 20° above normal. It was dry except at a few western locations. Winter wheat 3% very poor, 25% poor, 43% fair, 26% good, 3% excellent. Snow cover protection for winter wheat 78% poor, 14% fair, 8% good. Winter wheat still dormant 97%, greening 3%. Grazing 79% open, 18% difficult, 3% closed. Cattle, calves receiving supplemental feed 97%, sheep, lambs 99%. Calving 13% complete, lambing 10%.

**NEBRASKA:** Temperatures 10° above normal northwest to 20° above normal east. No precipitation.

**NEVADA:** Temperatures above normal. Extremes 5°; 76°. Precipitation none to 0.34, most in west central.

Feeding, caring of livestock main farm, ranch activities. Mild weather easing feeding requirements.

**NEW ENGLAND:** Precipitation none to 1.05 in. Temperatures high 20s to low 30s northern Maine, mid 30s to low 40s elsewhere north, high 30s to mid 40s south. Maximum temperatures low 8° north to 30° south.

Major farm activities: General repairs, maintenance, tending livestock, moving crops from storage.

**NEW JERSEY:** Temperatures much above normal, 42° south, 44° north, 7° coastal. Extremes 22°; 74°. Precipitation normal north, below normal south, coast, 0.85 in. north, 0.34 in. south, 0.36 in. coastal. Heaviest 24 hour total 0.64 in. on 6th, 7th.

Farmers caring for livestock, tending to other normal winter chores.

**NEW MEXICO:** Temperatures over the State were above normal, 1° above at Los Alamos to 10° above at Roswell. Little to no precipitation was recorded with 0.01 in. being observed at Los Alamos.

**NEW YORK:** Spring like weather dominated week. Temperatures 15 to 20° above normal in all areas. Precipitation very light over most areas. Amounts generally 0.25 in. or less. Exception was over Southeast where weak coastal low pressure produced 0.33 to 0.75 in. of rain.

Major farm activities: General farm maintenance, machinery repair, grading, packing fruits, vegetables, making plans for up coming season.

**NORTH CAROLINA:** Temperatures 7° above normal in the mountains, 10° above in the Piedmont, 8° above at the coast. Precipitation none to 2.10 in.

Days suitable for fieldwork 3.4. Soil moisture 3% short, 67% adequate, 30% surplus. Pasture 1% very poor, 13% poor, 35% fair, 51% good. Crop condition: Wheat 18% fair, 81% good, 1% excellent; oats 1% poor, 14% fair, 85% good; barley 1% poor, 16% fair, 83% good; rye 1% very poor, 1% poor, 16% fair, 81% good, 1% excellent. Hay and roughage supplies 2% very short, 8% short, 86% adequate, 4% surplus. Feed grain supplies 1% very short, 5% short, 93% adequate, 1% surplus. Activities: Tending livestock; preparing, seeding tobacco plant beds; cutting wood; pruning trees; equipment repair; top dressing small grains, pastures; land preparation; general farm maintenance.

**NORTH DAKOTA:** Temperatures 23° above normal southwest to 30° above normal northeast. No measurable precipitation.

Soil moisture short. Livestock good, calving started. Hay supplies mostly adequate, good quality alfalfa short.

**OHIO:** Unseasonably mild weather prevailed pushing temperatures 10 to 13° above normal. High temperatures low 40s to low 50s. Low temperatures freezing to the upper 30s. Colder air arrived the night of the 10th. Precipitation 0.25 to 1.00 in. with the lower amounts in the north.

Soil temperatures were in the high 30s to low 40s. Snow cover was eliminated by the mild temperatures. Weather was good for catching up on outside chores.

**OKLAHOMA:** Temperatures 7° above normal southeast to 11° above normal east central. Precipitation none northwest third of State to 0.40 in. east central.

Warm weather encouraged wheat development. Moisture needed to spur additional growth. Cattle good. Feeder steer prices steady to slightly higher than preceding week.

**OREGON:** Temperatures above normal entire State. Counties just east of Cascades were warmest, 7 to 10° above normal. Rest of State 5 to 7° above normal. Precipitation heaviest in coast range, Willamette Valley, North Cascades 0.80 to 4.80 in. East of Cascades amounts up to 0.20 in. were recorded, except high plateau area Klamath Falls to Lakeview 0.25 to 0.35 in.

Soil moisture adequate west, mostly short east. Winter wheat starting to green up northeast. Pruning, spraying continued on fruit crops. Blackberry vines 80% freeze damaged Benton Co. Livestock mostly good. Calving, lambing underway northeast mountains. Range, pasture mostly poor to fair east, fair to good west.

**PENNSYLVANIA:** Several record high temperatures recorded during week, precipitation just below normal. Temperature 42°, 16° above normal. Extremes 19°; 69°. Precipitation 0.55 in, 0.06 in. below normal.

Activities: Spreading manure; maintaining machinery; caring for livestock.

**PUERTO RICO:** Island rainfall of 1.57 in. was 0.98 in. above normal. The highest rainfall was 10.62 in. at Pico Del Este Luquillo, 4.16 in. at Rio Blanco Lower, 3.09 in. at Trujillo Alto. Highest 24 hour total was 5.00 in. at Pico Del Este Luquillo. Divisional temperatures 75 to 75° on the coast, 68 to 73 in. at Interior with mean station temperatures 61.4° at Pico Del Este Luquillo to 76.8° at Roosevelt roads N.S. Extremes 55°; 89°.

**SOUTH CAROLINA:** Temperatures 8 to 10° above normal with record high temperatures set at Greenville on 4th, 5th. Rainfall over 1.00 in. southern counties to less than 0.25 in. Upstate. Flooding continues along several northeastern rivers.

Farm activities: Wet conditions continue to slow fieldwork. Most growers unable to apply nitrogen to small grains due to soggy fields. Debris from Hurricane Hugo remains in many waterways causing fields to drain slowly, flood. Most soils fully saturated. Tobacco seed beds planted in good condition. Most peach varieties have received their minimum chilling hour requirement.

**SOUTH DAKOTA:** State incredibly mild for the week. Temperatures 10 to 25° above normal. Extremes 60°; 68°. Only precipitation, 0.25 to 1.00 in. of snow late in week.

Most winter wheat fair to good, some reports of winter kill. Rye mostly good to fair. Livestock in good to excellent. Dry, dusty conditions causing respiratory problems in feedlot calves. Feed supplies mostly adequate. Stockwater supplies mostly adequate. Many reports of short to very short.

**TENNESSEE:** Temperatures 10° above normal. Extremes 23°; 73°. Precipitation more than 1.00 in. above normal west, 0.50 in. below normal elsewhere. Western area 2.00 in. on 10th.

Primary activities: General farm chores, maintenance of equipment.

**TEXAS:** Early in week, a slow moving front combined with upper air disturbance produced large rainfall amounts over roughly eastern half of State. Long awaited heavy rains fell in Lower Valley, Coastal Bend. Lighter rains lingered over eastern areas into mid week as upper air disturbance moved off to northeast. Dry weather followed latter half of week thanks to high pressure at upper levels, at surface. Mild daytime temperatures cool nights common during week with very pleasant conditions reported statewide over weekend. For week, temperatures ran much above normal over most of State. Rainfall above normal in southern, eastern areas, below normal in west.

**Crops:** Cotton harvest Low Plains complete as open conditions continued for area. Small grains Plains showing signs of growth despite dry conditions. Irrigated some wheat in High Plains. Some oats, rye wheat seeded for wind strips on cotton acreage by High Plains producers. Insect activity remained light on fields across State. Statewide wheat condition 63% of normal compared with 39% 1990. Peach pruning continued in remaining areas, dormant spraying increased.

**Commercial Vegetables:** Rio Grande Valley, cole crop harvest spring watermelon planting continued. San Antonio Winter Garden, normal progress continued for most crops. Land preparation resumed for spring crop planting. Spinach quality remained poor, low demand. Transplants in hot houses doing good.

**Range and Livestock:** Livestock remained fair to good shape while normal care, feeding continued. Wet conditions remained problem for eastern area ranchers. Winter pastures offered little grazing, recent moisture warm temperatures increased winter weed emergence. Preparation for sheep shearing underway in Hill Country. Range, Pasture conditions: 2% very poor, 13% poor, 53% fair, 27% good, 5% excellent.

**UTAH:** Very light scattered precipitation in west central part of State; non elsewhere. Temperatures about 1° above normal; minimums about 3° less than normal.

Early calving, lambing beginning. Livestock in fair to good. Major farm activities: Care of livestock, farm records up dating, maintenance of equipment.

**VIRGINIA:** Temperatures were well above normal for the week, a frontal system brought about 1.00 in. of rain across the State.

Days suitable for fieldwork 3.9. Topsoil moisture 4% short, 80% adequate, 16% surplus. Winter grains, grazing crops 2% very poor, 7% poor, 42% fair, 49% good. Winter grains, grazing crops dairy cattle 5%, beef cattle 0%, sheep 17%. Preparing tobacco plantbeds, top dressing smallgrains, liming, fertilizing, plowing, machinery, fence repair, maple tree tapping, syrup making.

**WASHINGTON:** Temperatures 9 to 12° above normal east; 8 to 11° above normal west. Precipitation none to 0.61 in. east; 0.70 to 4.10 in. west.

Days suitable for fieldwork 1.8. Soil moisture 58% short, 35% adequate, 7% surplus. Range, pasture 19% very poor, 28% poor, 35% fair, 18% good. Hay, other roughage 3% short, 96% adequate, 1% good. Winter wheat 58% very poor, 29% poor, 13% fair. Barley 80% very poor, 13% poor, 7% fair.

**WEST VIRGINIA:** Temperature 43°, 10 to 14° above normal. Extremes 14°; 73°. Precipitation 0.87 in.

Days suitable for fieldwork 2.1. Soil moisture 29% adequate, 71% surplus. Wheat, barley good. Cattle good; 14% calved. Sheep good; 22% lambled. Hay feed supplies 58% adequate, 42% surplus. Other feed supplies adequate. Farm activities: Feeding livestock, calving, lambing, general maintenance.

**WISCONSIN:** Temperature 34°. Extremes 7°; 55°. Temperatures very mild removing almost 5.00 in. of snow during the week leaving 4.8 inches. Frost depths remained unchanged at 12.5 in., softened in most areas. Precipitation was virtually nonexistent with the most significant weather problem being heavy fog during mid week.

**WYOMING:** Unseasonably warm. Temperatures 5 to 17° above normal. Precipitation below normal.

Winter wheat fair to good. Warm temperatures melting snow cover. Additional moisture needed. Livestock mostly good. Warm temperatures decreasing stress. Calving, lambing, shearing continuing. Supplemental feeding continuing.

## International Weather and Crop Summary

### HIGHLIGHTS

February 3-9, 1991

**WESTERN USSR** ... Light snow accompanies bitter cold over most winter grain areas.

**NORTHWESTERN AFRICA** ... Beneficial showers cover northernmost winter grain areas in Morocco, Algeria, and Tunisia. Unfavorable dryness continues over southern winter grain areas in Morocco.

**EUROPE** ... An intense winter storm ushers in bitter cold and produces locally heavy snow as far south as the Mediterranean coast.

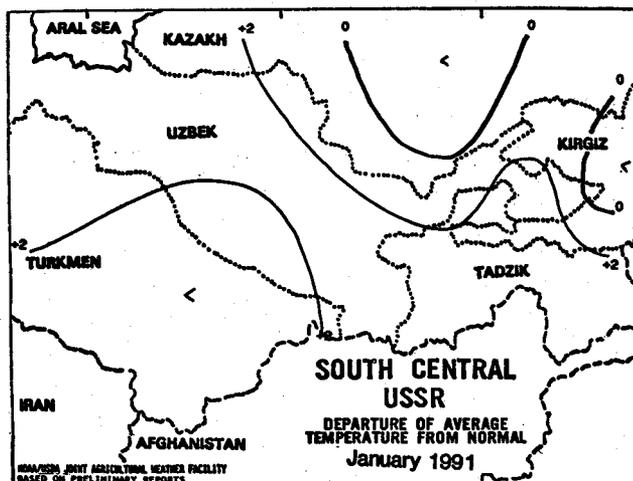
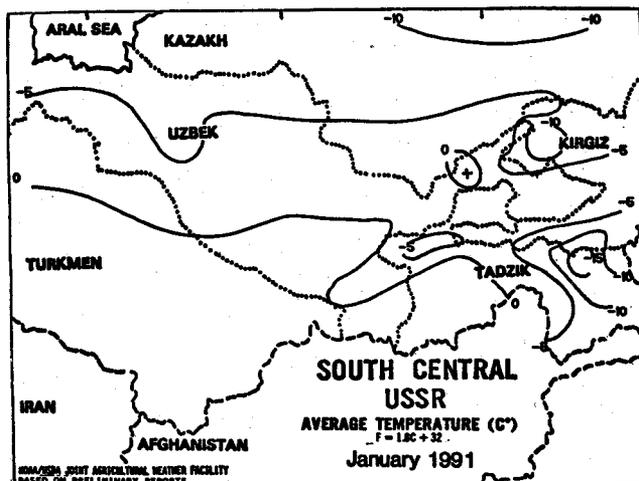
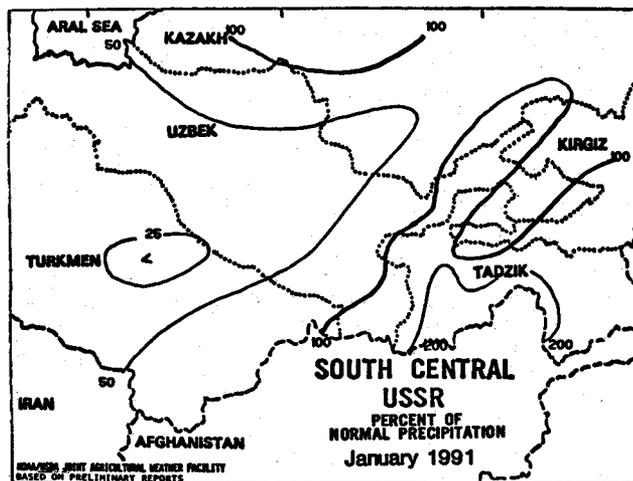
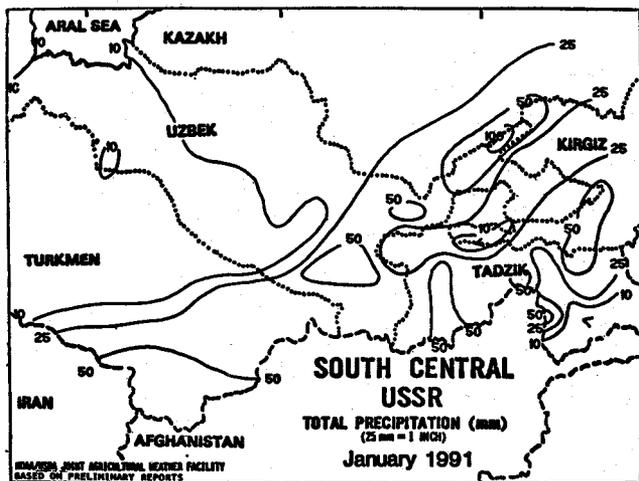
**EASTERN ASIA** ... Showers return to the Yangtze Valley. Mild weather in the North China Plain reduces winter hardiness of dormant winter wheat.

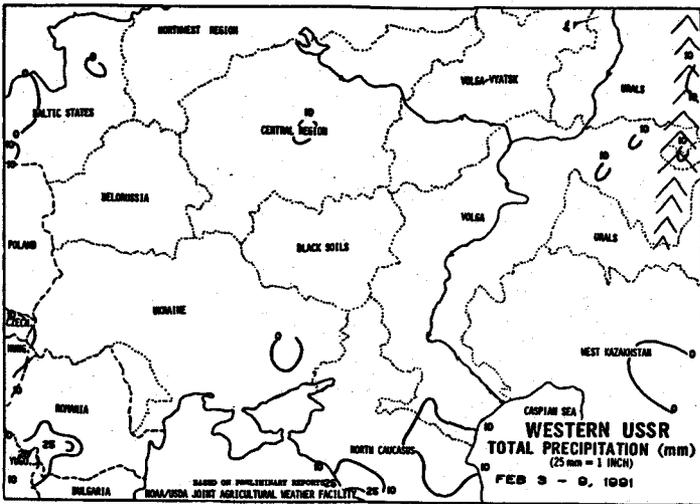
**SOUTHEAST ASIA** ... Seasonal showers continue over southern Indonesia. Beneficial rain brings relief to the southern Philippines.

**SOUTH AFRICA** ... Continuing showers cover South Africa's reproductive to filling crops.

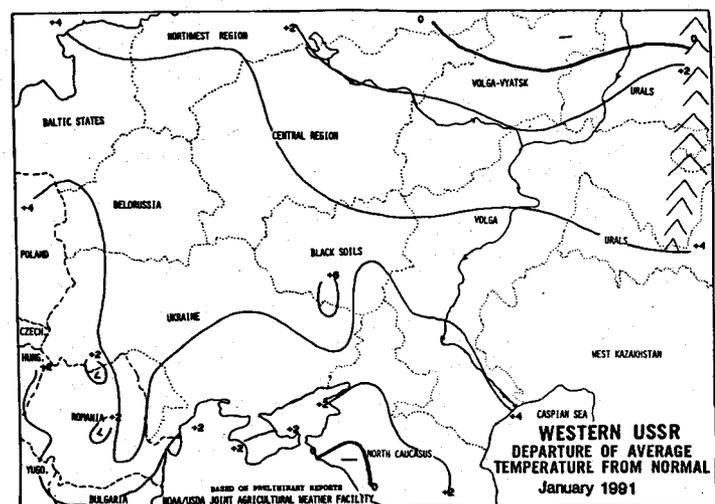
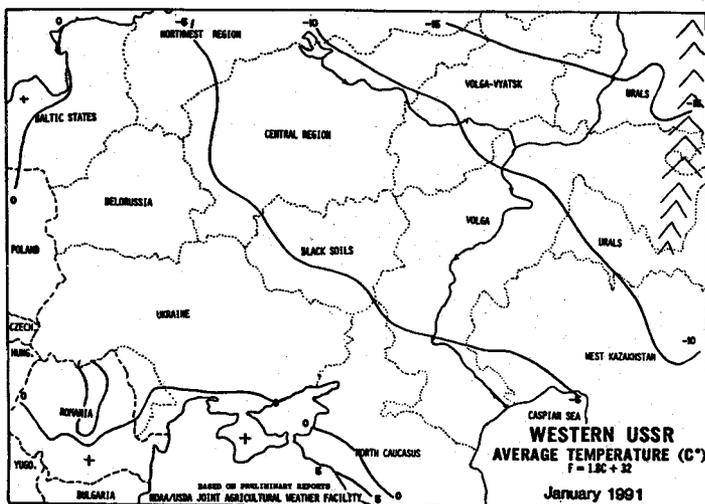
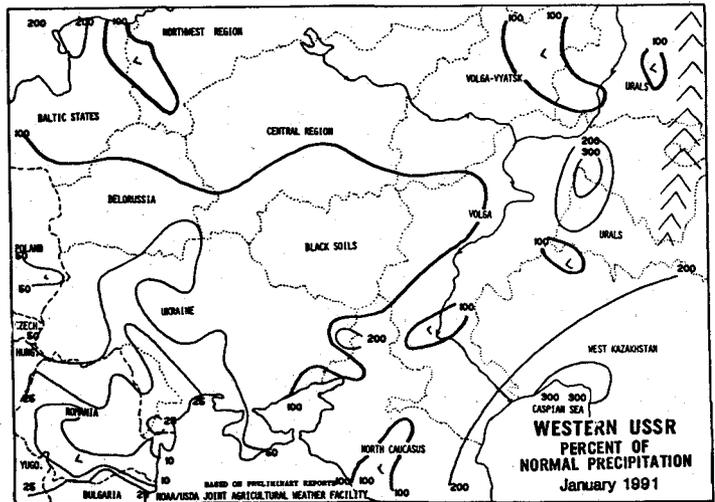
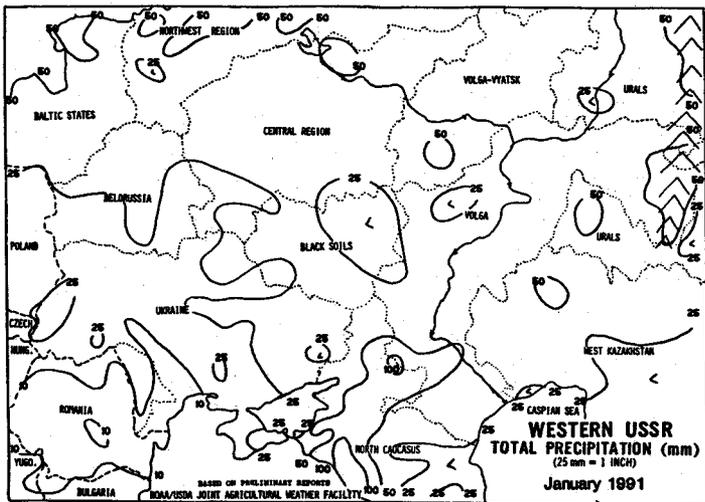
**SOUTH AMERICA** ... Dry weather returns to southern Brazil. Favorable moisture prevails in Brazil's northern soybean and Argentina's primary summer crop areas.

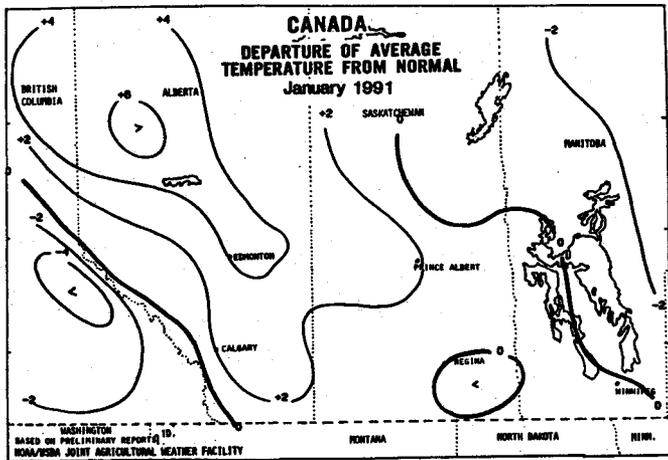
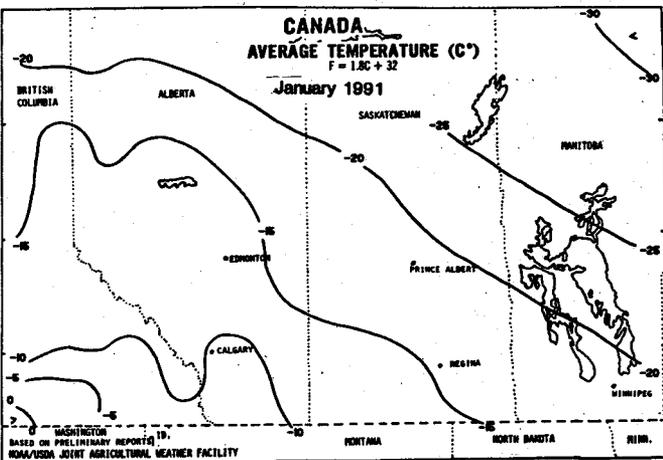
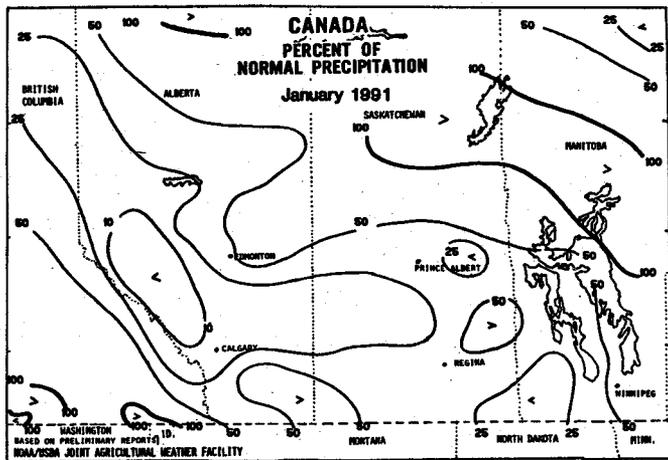
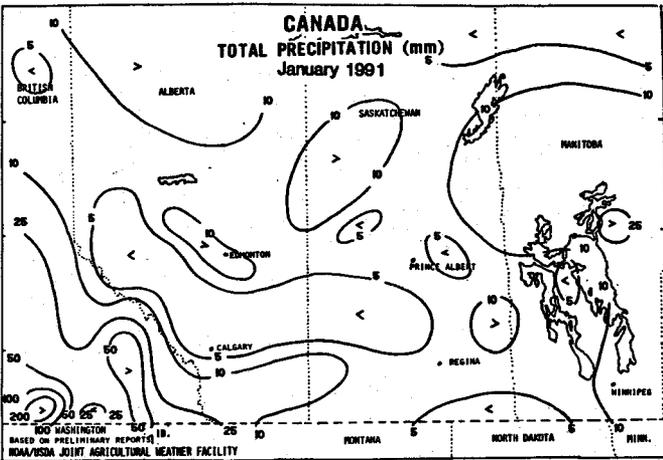
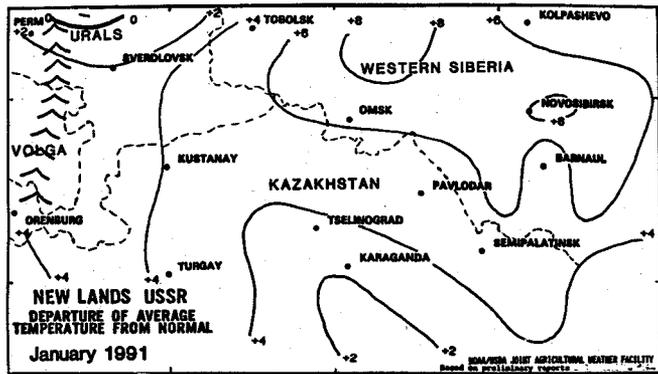
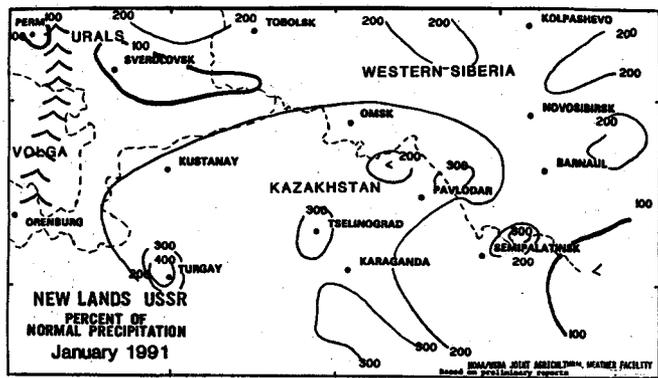
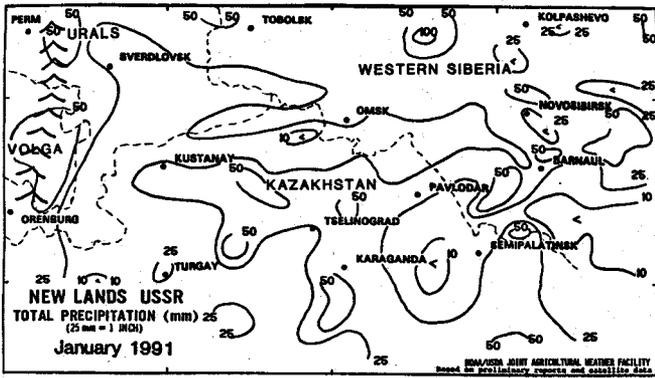
**AUSTRALIA** ... Inundating rain falls again in Queensland.

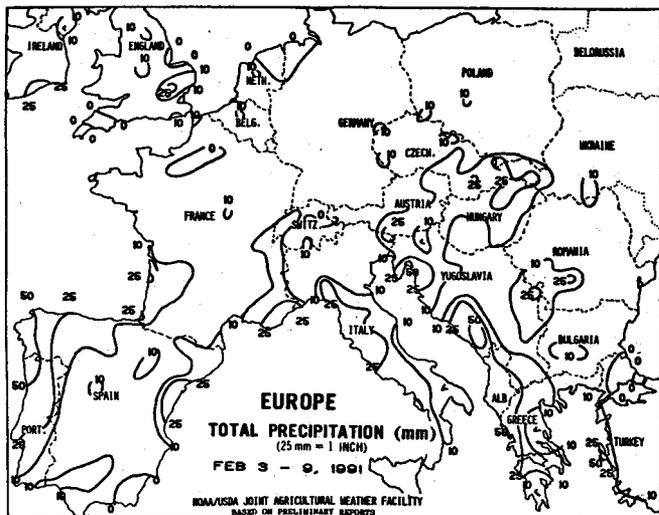




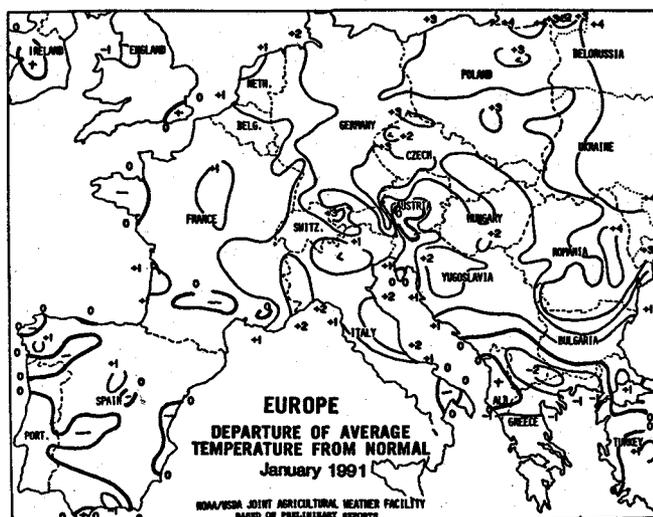
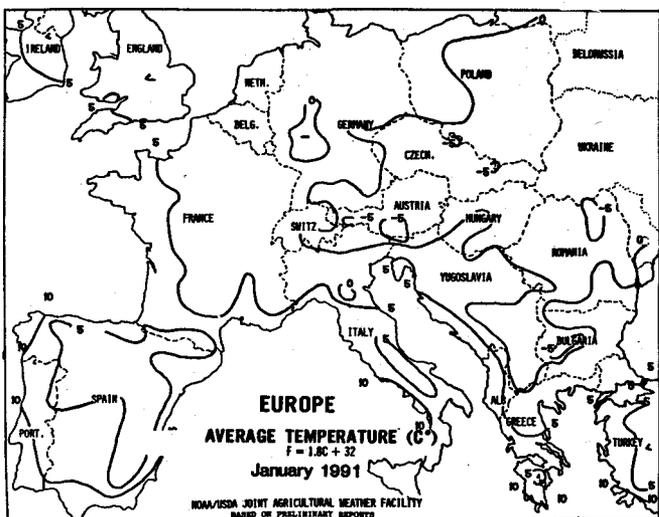
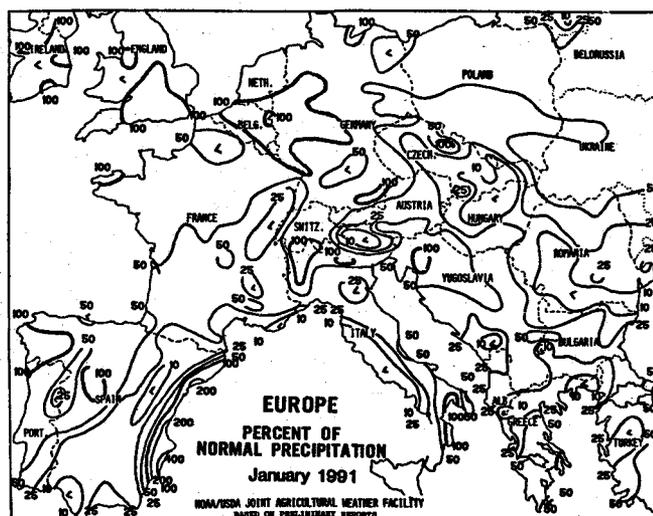
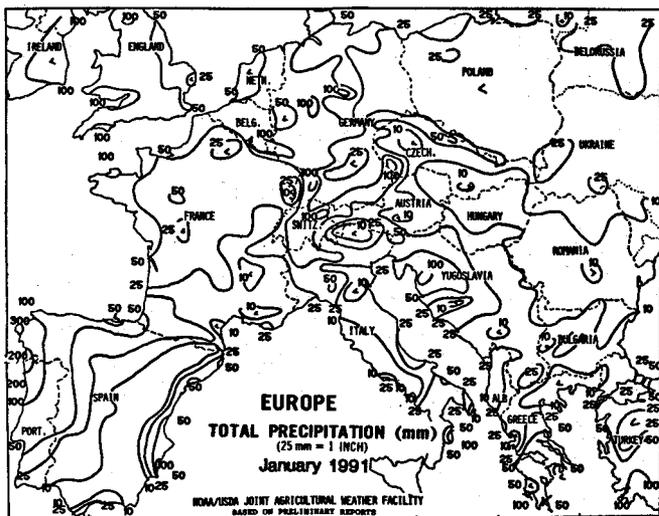
**WESTERN USSR** ... Light snow (less than 10mm liquid equivalent) accompanied bitter cold. Weekly average temperatures were 2-4 degrees Celsius (C) below normal in the north and 7-12 degrees C below normal in the Ukraine and North Caucasus. Lowest weekly temperatures ranged from -20 to -30 degrees C over most areas, except in the southern Ukraine, where lowest temperatures around -15 degrees C were reported. In January, unseasonably warm weather was accompanied by generally light precipitation. Below-normal precipitation covered Belorussia, the Ukraine, and the Black Soils Region. Precipitation in the Baltic States, the Volga, and the North Caucasus was above normal. Although unseasonably mild weather during most of January favored winter grains, it was replaced by bitter cold which began around January 28, persisting through this past week. Although a shallow to moderate snow cover provided protection from widespread winterkill, some damage to winter grains was possible, especially in Belorussia, where a shallow snow cover made crops more susceptible to extreme cold.



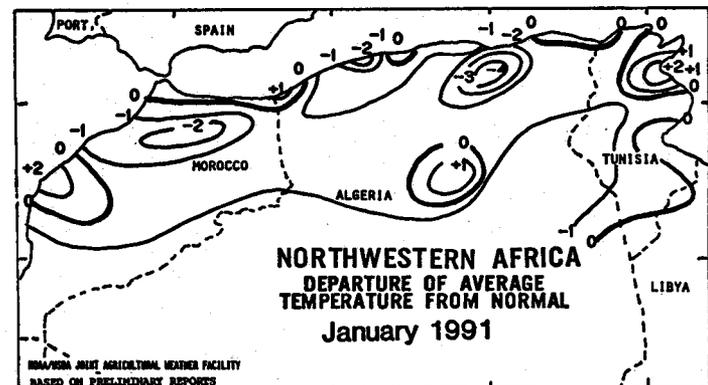
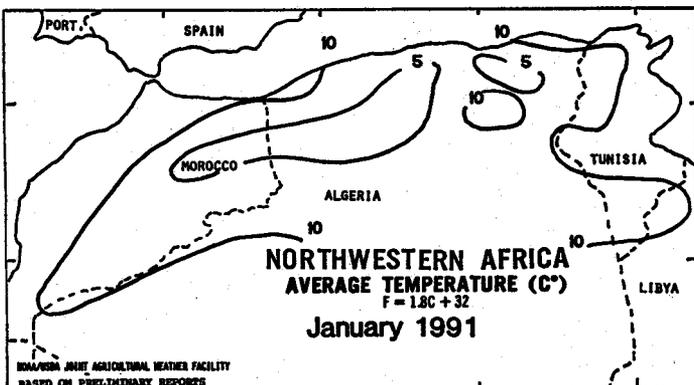
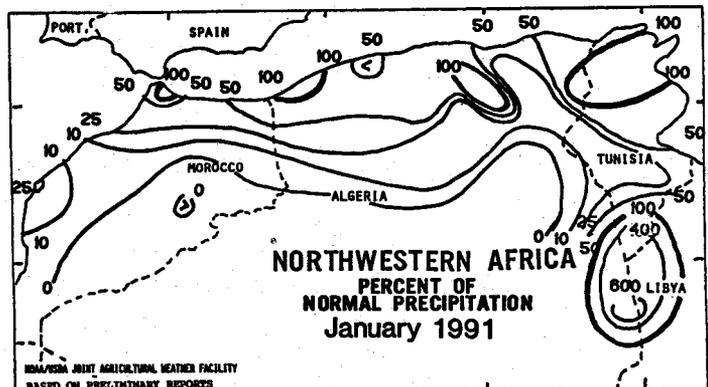
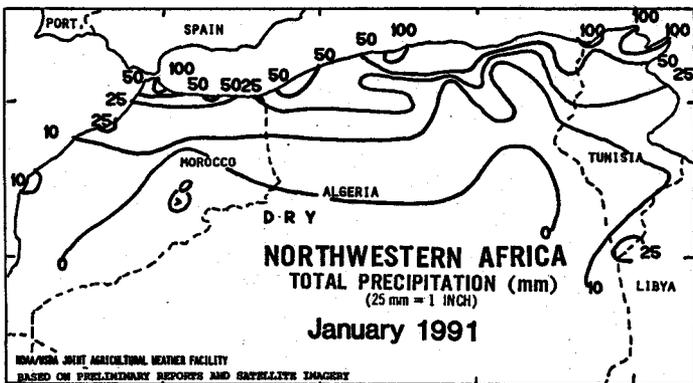
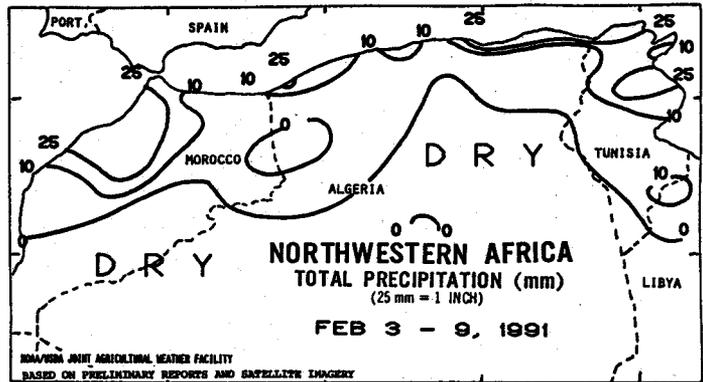


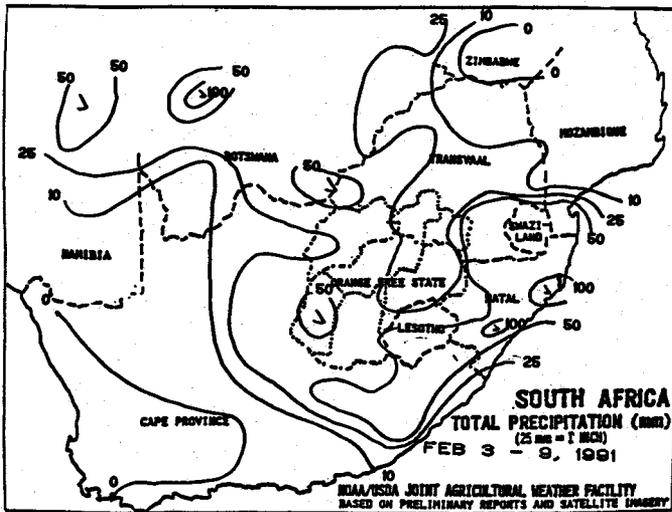


**EUROPE** ... An intense winter storm developed over the region, ushering in bitter cold and producing locally heavy snow as far south as the Mediterranean coast. Greatest amounts of precipitation (10-25mm, with local amounts in excess of 50mm) fell over southeastern England, southern France, western Italy, eastern Czechoslovakia, Hungary, Greece, and southwestern Romania. Most winter grain areas in Europe had at least a shallow protective snow cover by week's end. Weekly average temperatures were 3-6 degrees C below normal over the region, reversing January's mild weather pattern. In addition, on February 3 and 4, the cold air penetrated as far south as citrus-growing areas of Greece and eastern Italy, where minimum temperatures dropped to as low as -5 degrees C. In January, monthly average temperatures were 2-4 degrees C above normal in the north and east, and near normal in the west and south. Precipitation in January was generally light and below normal across Europe, with the exception of England, where monthly precipitation was above normal.

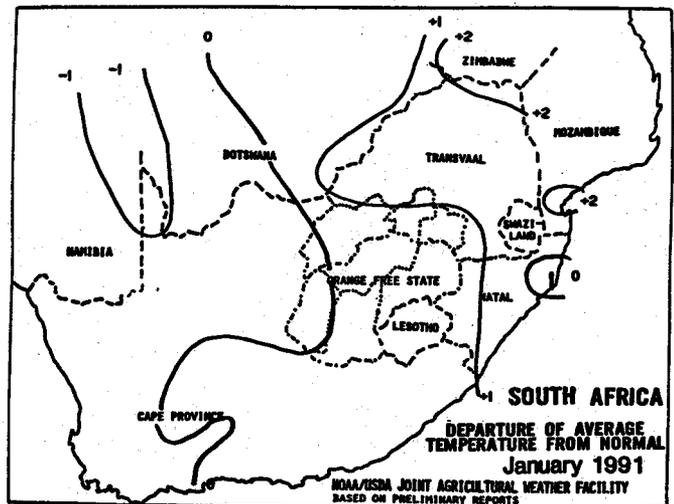
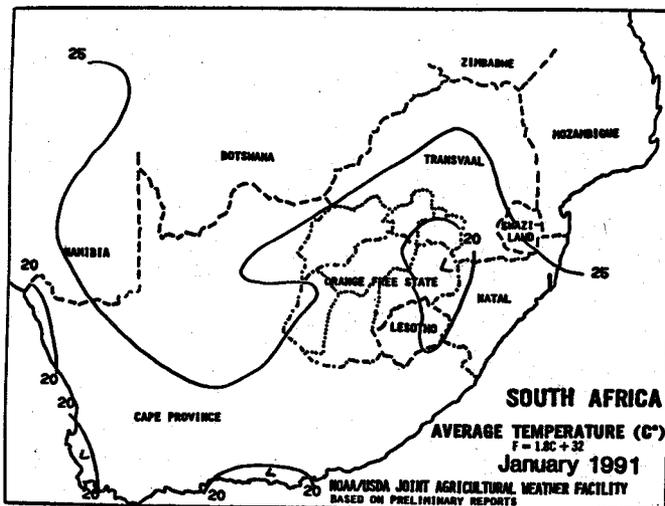
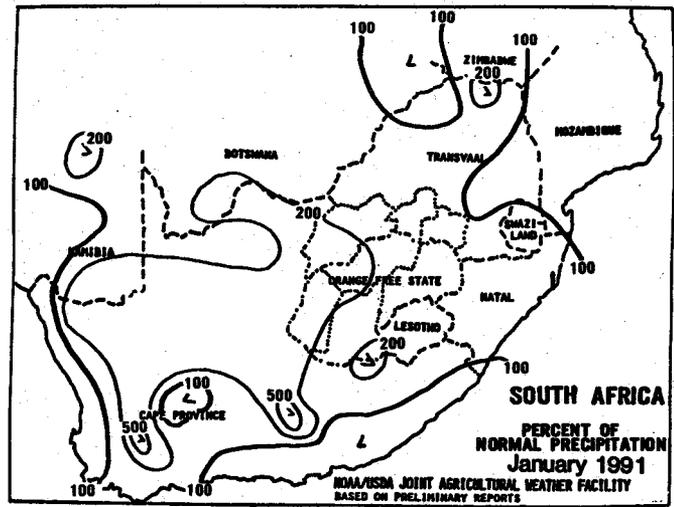
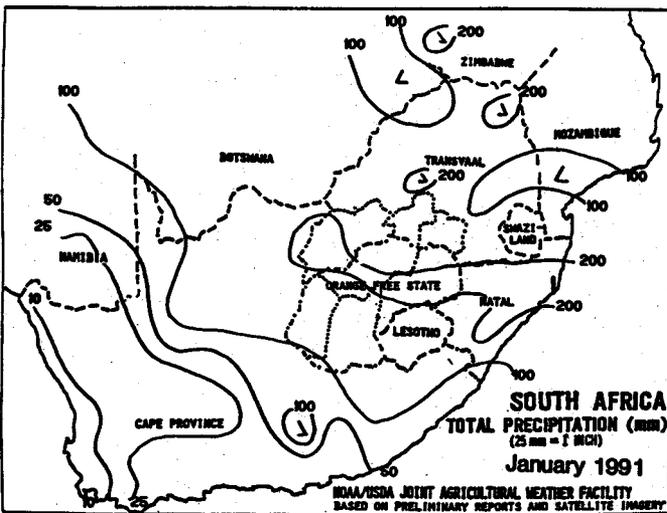


**NORTHWESTERN AFRICA** ... Showers (10-25mm) continued over northernmost winter grain areas in Algeria and Tunisia. Winter grain areas further inland received light rain (generally less than 10mm). In Morocco, although significant rain (25-30mm) over the north benefited vegetative winter grains, persistent dryness continued to stress crops in the south. In January, above-normal precipitation benefited winter grains in western Algeria and Tunisia. Precipitation was below normal in central and eastern Algeria. Well below-normal rainfall covered Moroccan winter grain areas, and crops had to rely on moisture reserves for growth. Moisture reserves in Morocco are depleted and timely rains will be needed in upcoming weeks as crops advance through the highly weather sensitive reproductive phases of development.

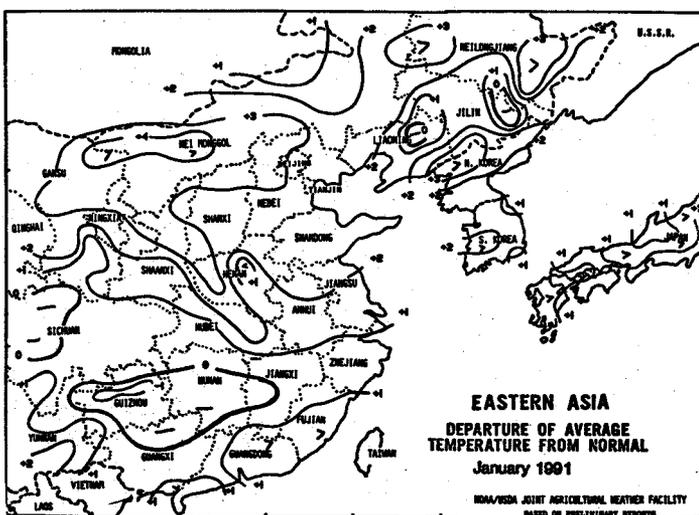
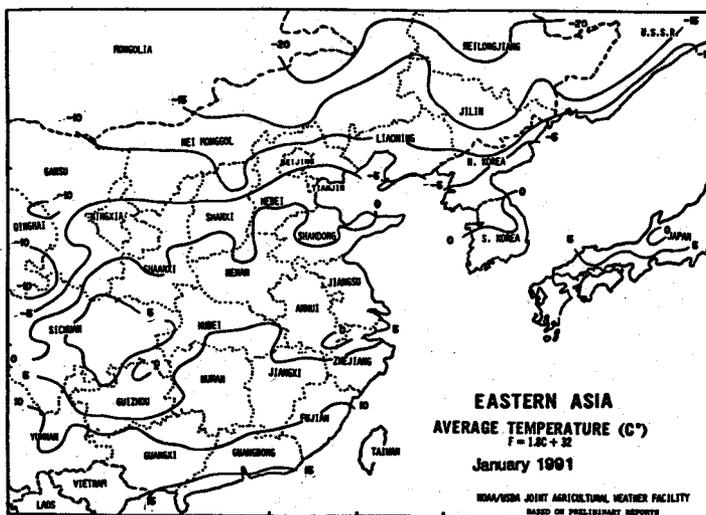
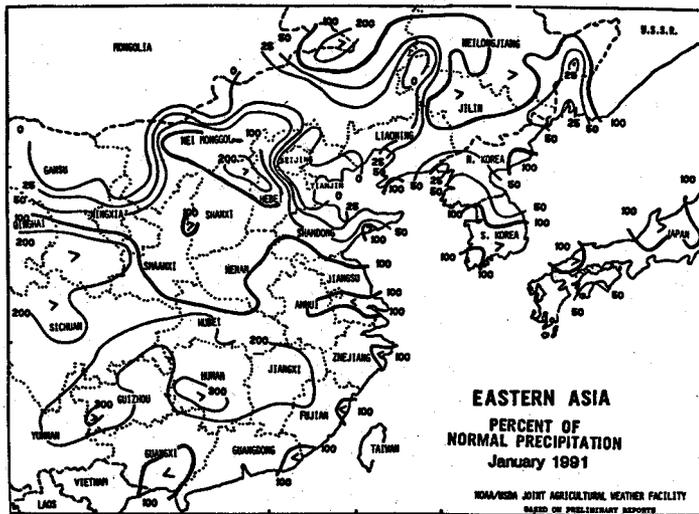
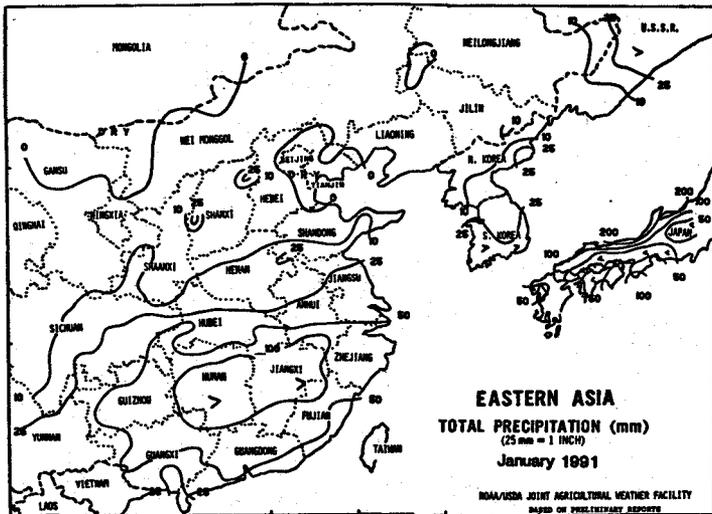
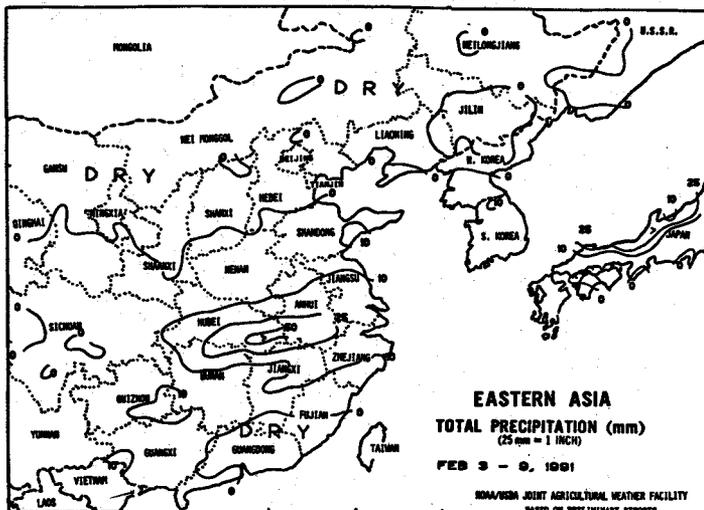


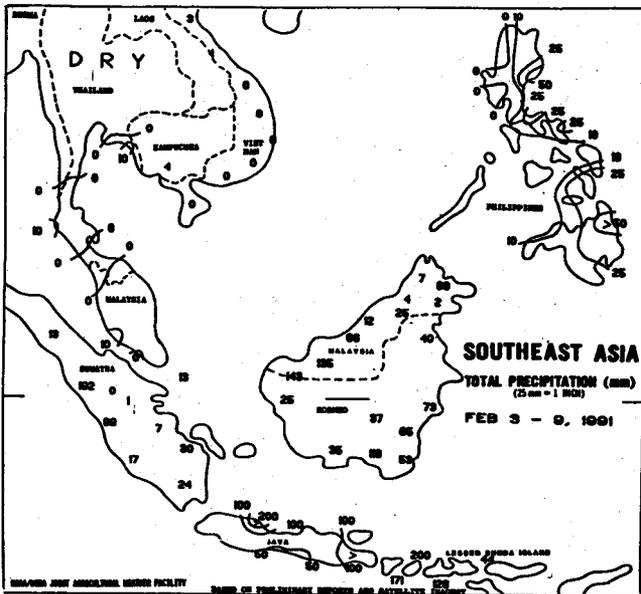


**SOUTH AFRICA** ... Rainfall tapered off over the western two-thirds of the Maize Triangle, with amounts generally ranging from 11 to 33mm. However, isolated, heavy showers (50-91mm) continued over western and southernmost corn areas of the Orange Free State. January rainfall greatly improved moisture conditions across the Maize Triangle for reproductive to filling crops, with parts of the drought-stricken western Triangle receiving more than 200 percent of normal. Elsewhere, moderate to heavy rain (25-50mm or more, with isolated totals exceeding 100mm) continued over crop regions for the eastern Cape Province and Natal, reflecting January's trend of near- to above-normal rainfall.

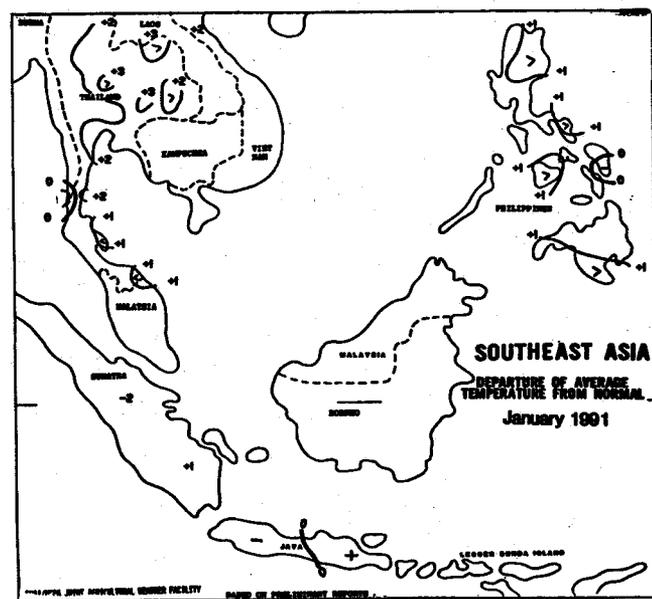
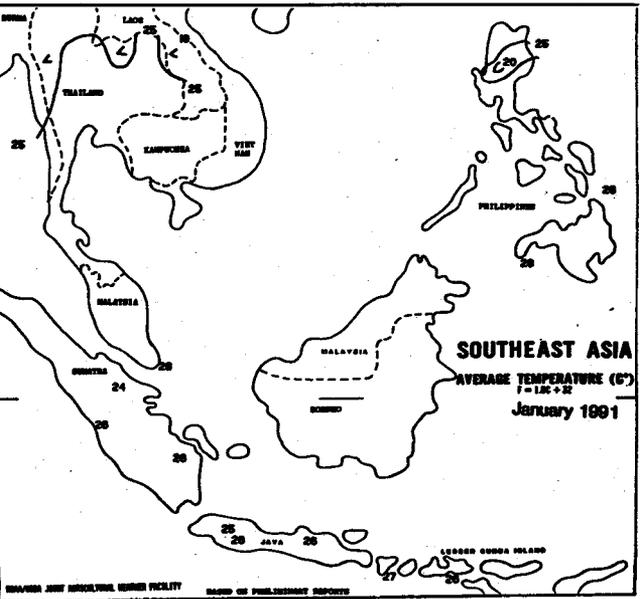
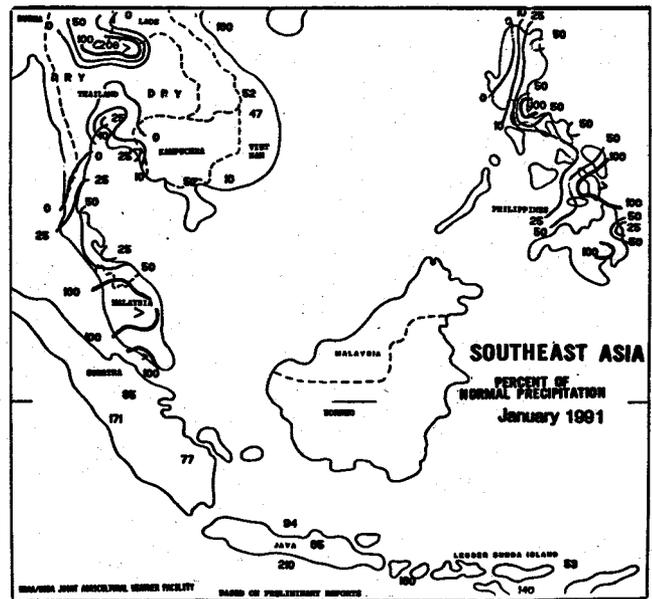
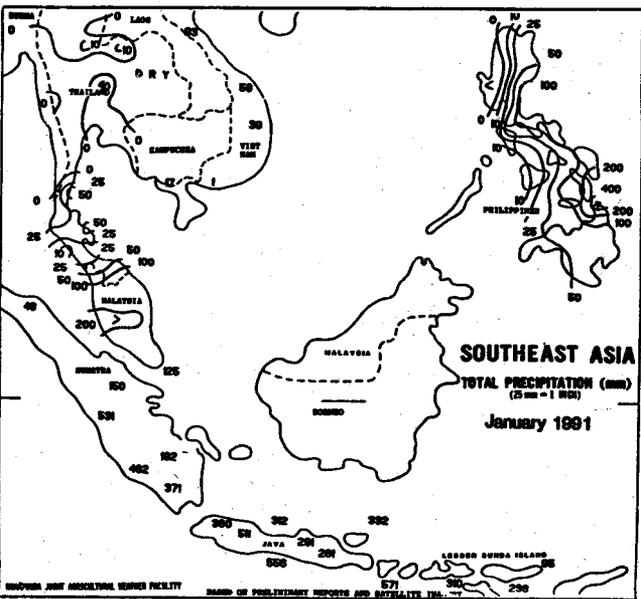


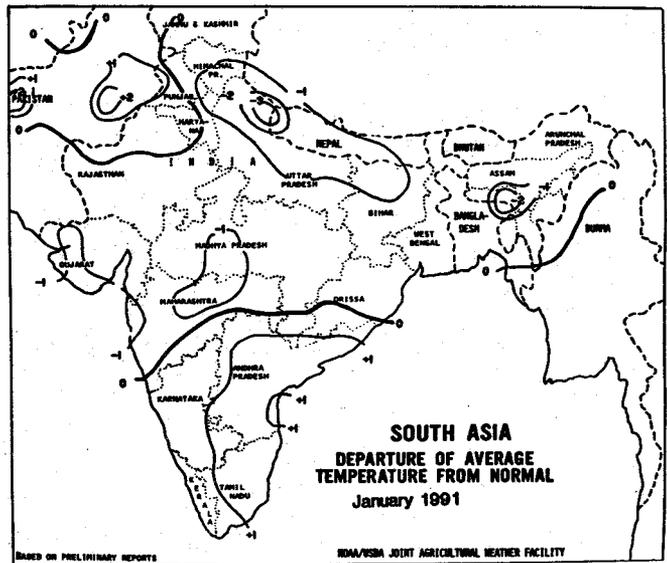
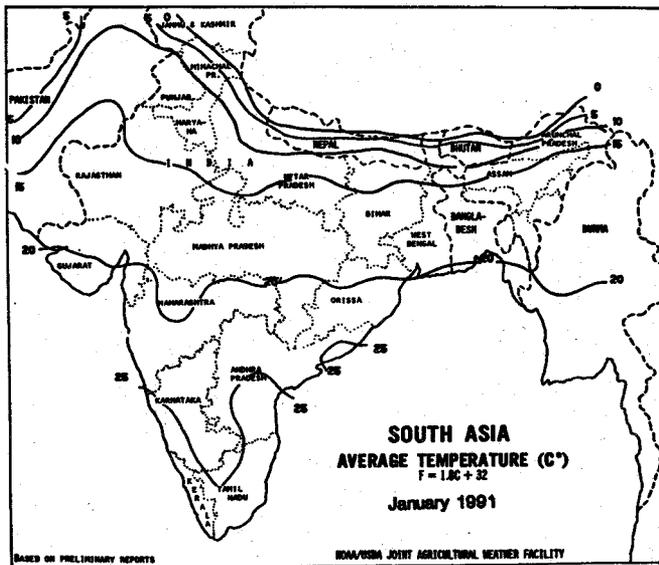
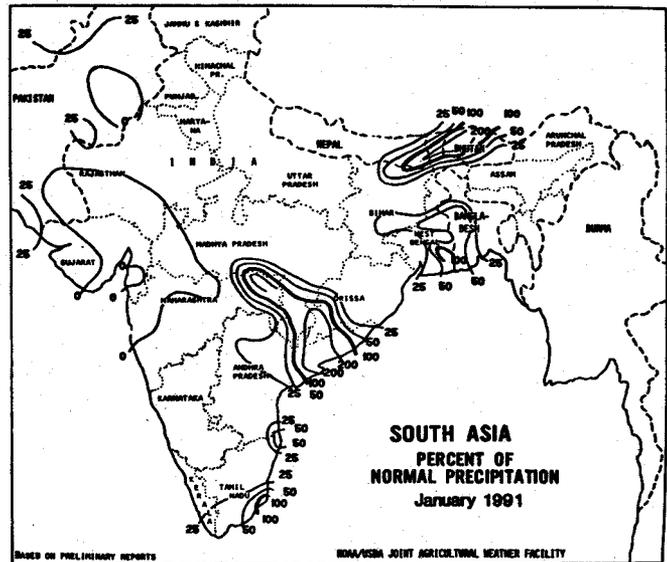
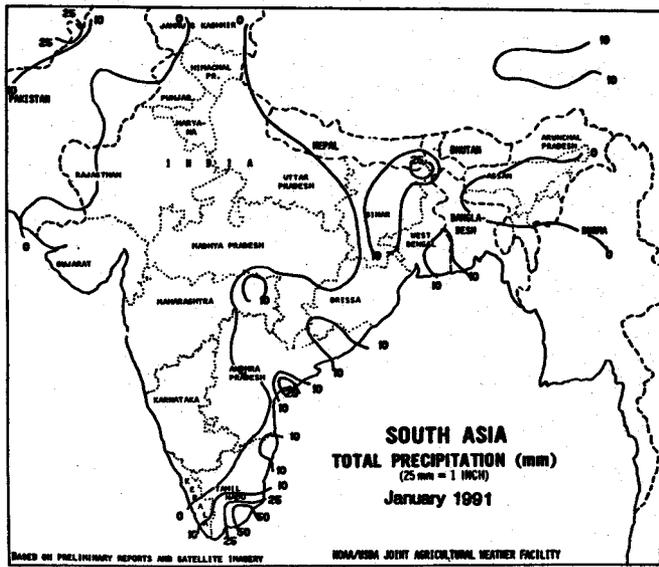
**EASTERN ASIA** ... Moderate to heavy showers (15-67mm) returned to the middle and lower Yangtze Valley this past week, but drier-than-normal conditions persisted over rice areas of the southern coast. January's near- to above-normal rainfall provided beneficial pre-planting moisture over most summer crop regions of southern China. However, more rain is needed in coastal rice areas for next month's plantings. Light to moderate rain (1-25mm) fell recently over China's western and southern wheat areas, reaching crops as far north as Shandong. Weekly temperatures continued to be much milder than usual, averaging 2-5 degrees C above normal. In fact, weekly temperatures averaged 5 degrees C or more as far north as southern Shandong, threatening to bring crops out of dormancy as much as 3-4 weeks ahead of schedule. January temperatures averaged 1-3 degrees C above normal but were sufficiently cool to keep northern crops dormant.

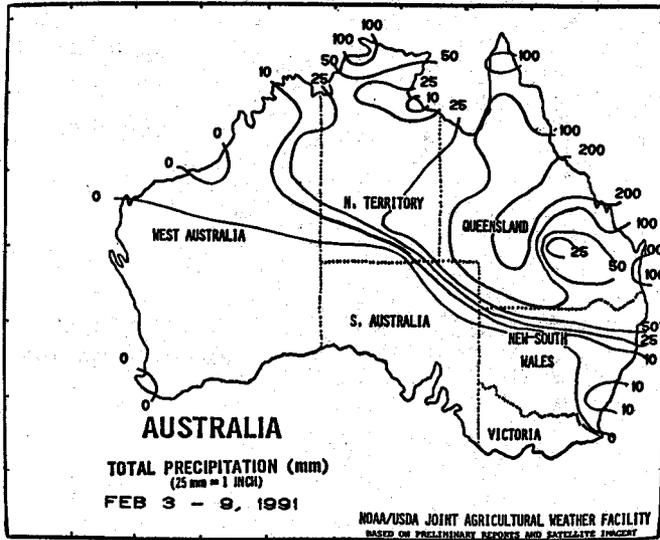




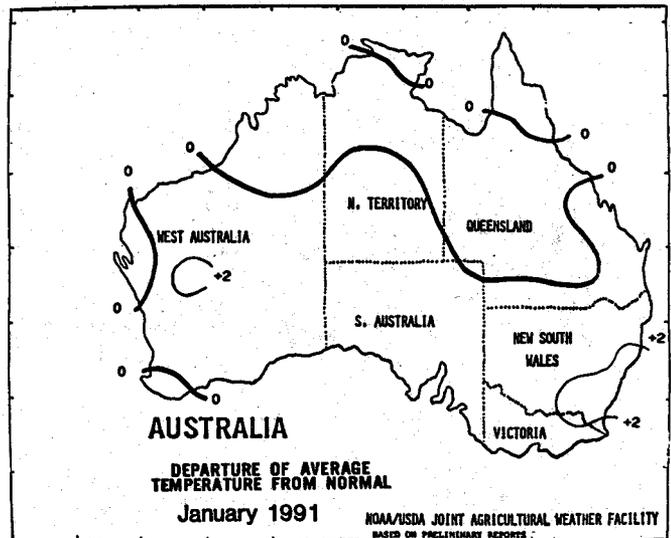
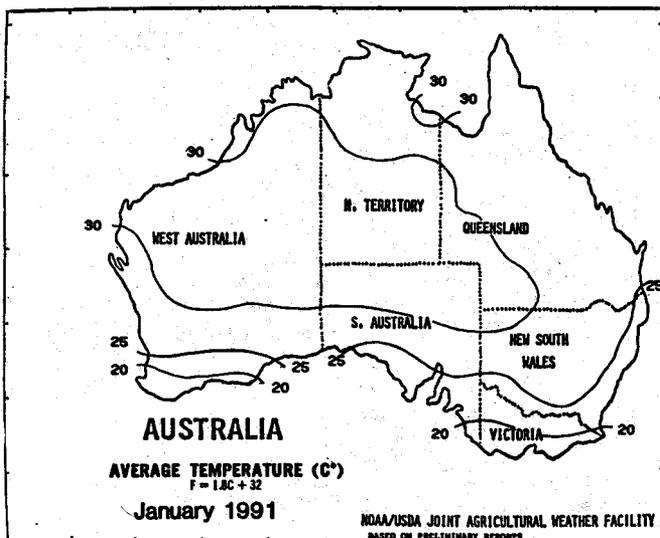
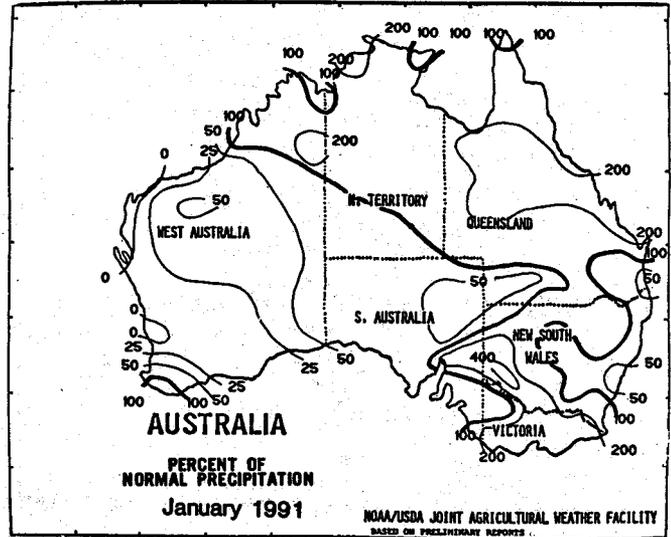
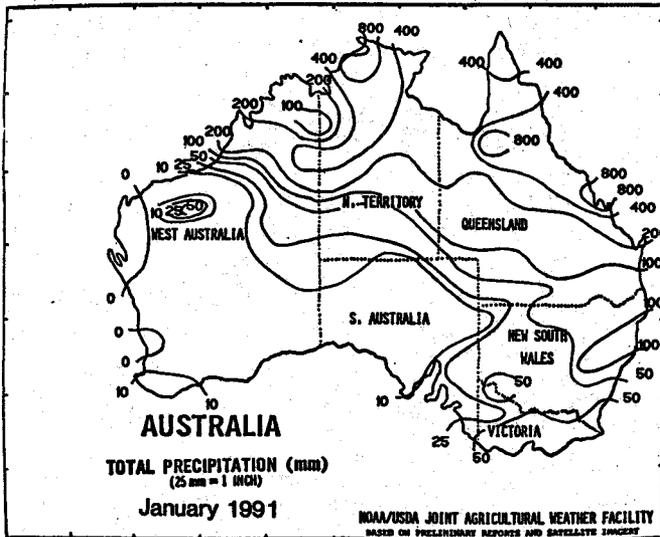
**SOUTHEAST ASIA** ... Moderate to heavy showers (50-100mm or more) continued over Java, maintaining abundant irrigation reserves but causing local flooding in areas receiving more than 200mm. Heavy rain (50-143mm) also continued over southern crop areas of eastern Malaysia, but drier weather dominated elsewhere, with most primary palm oil regions of western Malaysia receiving less than 10mm. January rainfall was near to above normal over most primary crop areas of Indonesia and Malaysia, favoring normal crop development but causing some local flooding. In the Philippines, beneficial rain (25-74mm) brought some relief to immature grains in eastern Mindanao, but elsewhere, rainfall exceeded 15mm in only local areas. During January, rainfall was below normal over most fall grain areas, reducing moisture for crop development. However, showers brought some relief to immature crops in Mindanao toward the end of the month.



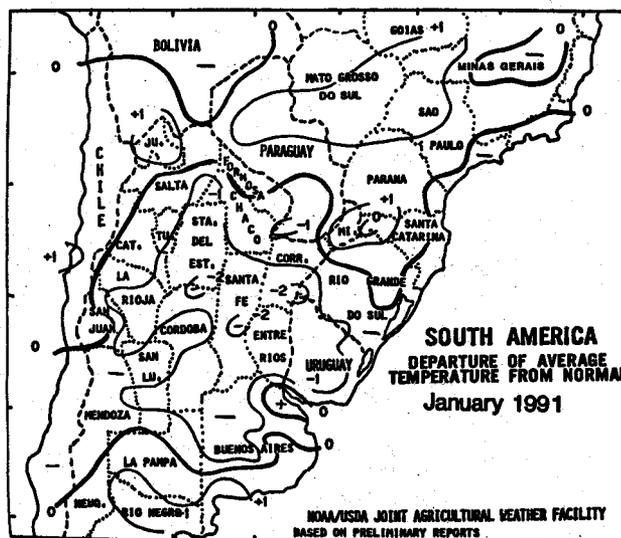
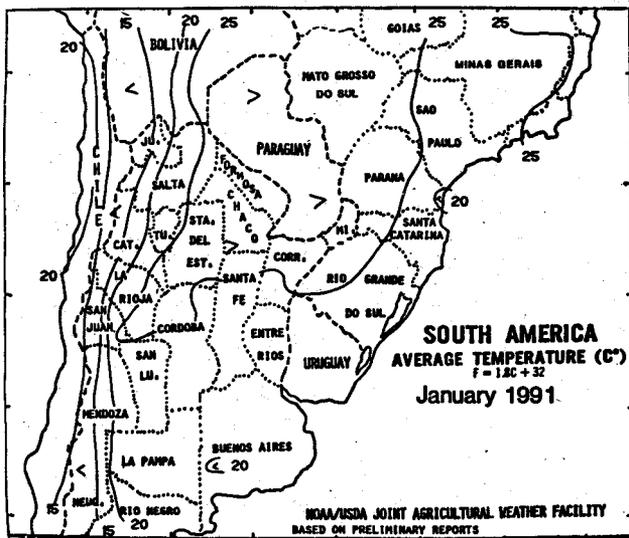
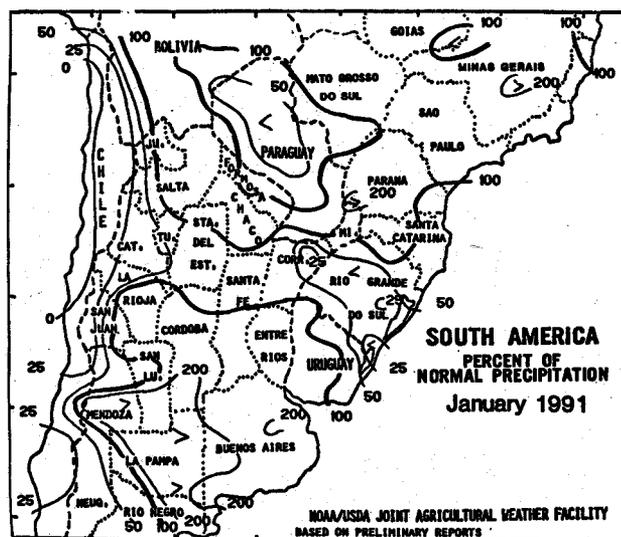
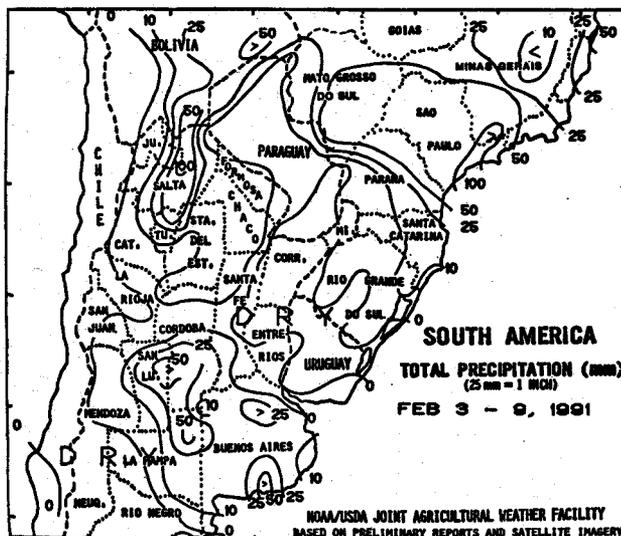


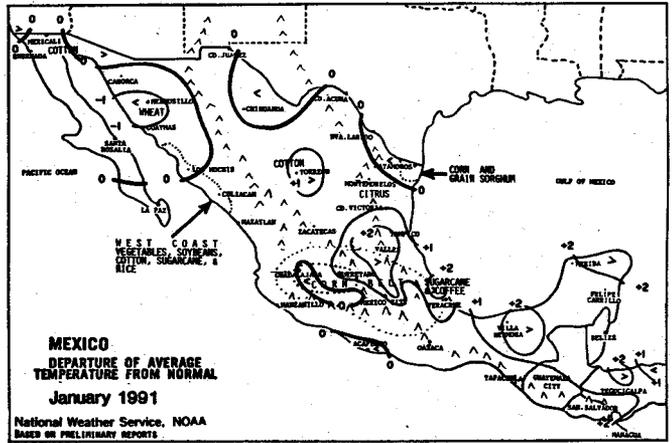
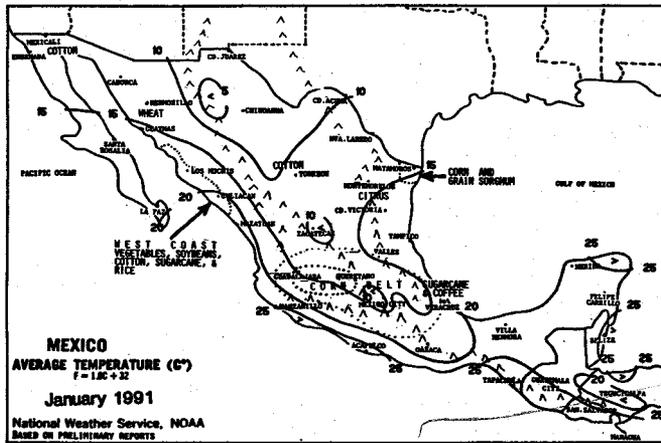
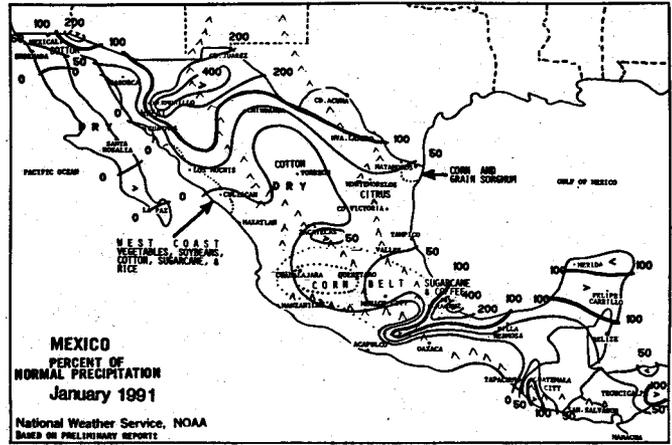
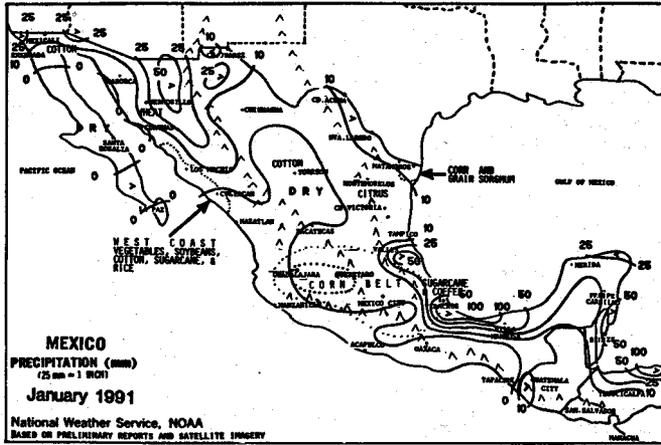


**AUSTRALIA** ... Widespread heavy rain (100-320mm) soaked much of Queensland, with the heaviest amounts (in excess of 200mm) inundating sugarcane areas of the east-central coast and extending southwestward into the interior. January rainfall averaged much above normal in Queensland and across much of northern Australia. The recent heavy rain aggravated severe flood conditions which have affected northeastern Australia. Substantial rain (50-100mm) fell over Queensland's southeastern summer crop areas and extreme northern New South Wales, where near-normal January rainfall boosted conditions for unirrigated crops. Dry weather prevailed recently in Australia's western and southern winter wheat areas, but January brought beneficial pre-season moisture to the south.



**SOUTH AMERICA** ... In south-central Brazil, dry weather prevailed over Rio Grande do Sul, western Santa Catarina, and southwestern Parana. Substantial rain in late January brought much needed crop moisture to Parana. However, the recent warm, dry weather again increased stress on soybeans and corn in Rio Grande do Sul, where late January rainfall missed some important crop areas. Summer crops are in the vulnerable reproductive to early filling stages of development. In contrast, widespread rain (25-75mm) across northern soybean areas of Brazil maintained January's favorable moisture conditions. In Argentina, highly variable showers covered the region, but following January's weather pattern, western crop areas were the wettest. In general, adequate moisture promoted favorable crop development in Argentina's primary summer crop areas.





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