

# WEEKLY WEATHER AND CROP BULLETIN

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

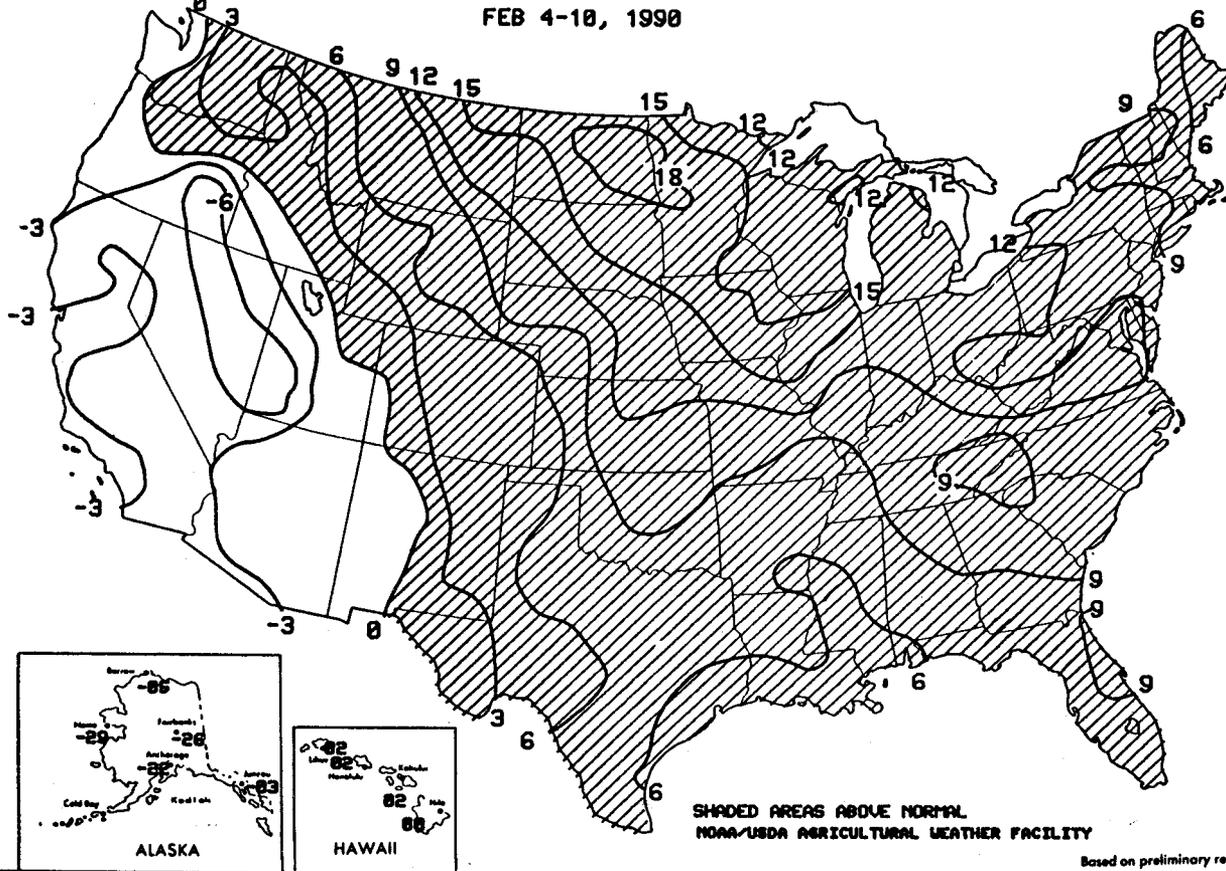
U.S. DEPARTMENT OF AGRICULTURE  
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DEPARTURE OF AVERAGE TEMPERATURE FROM NORMAL (°F)  
FEB 4-10, 1990



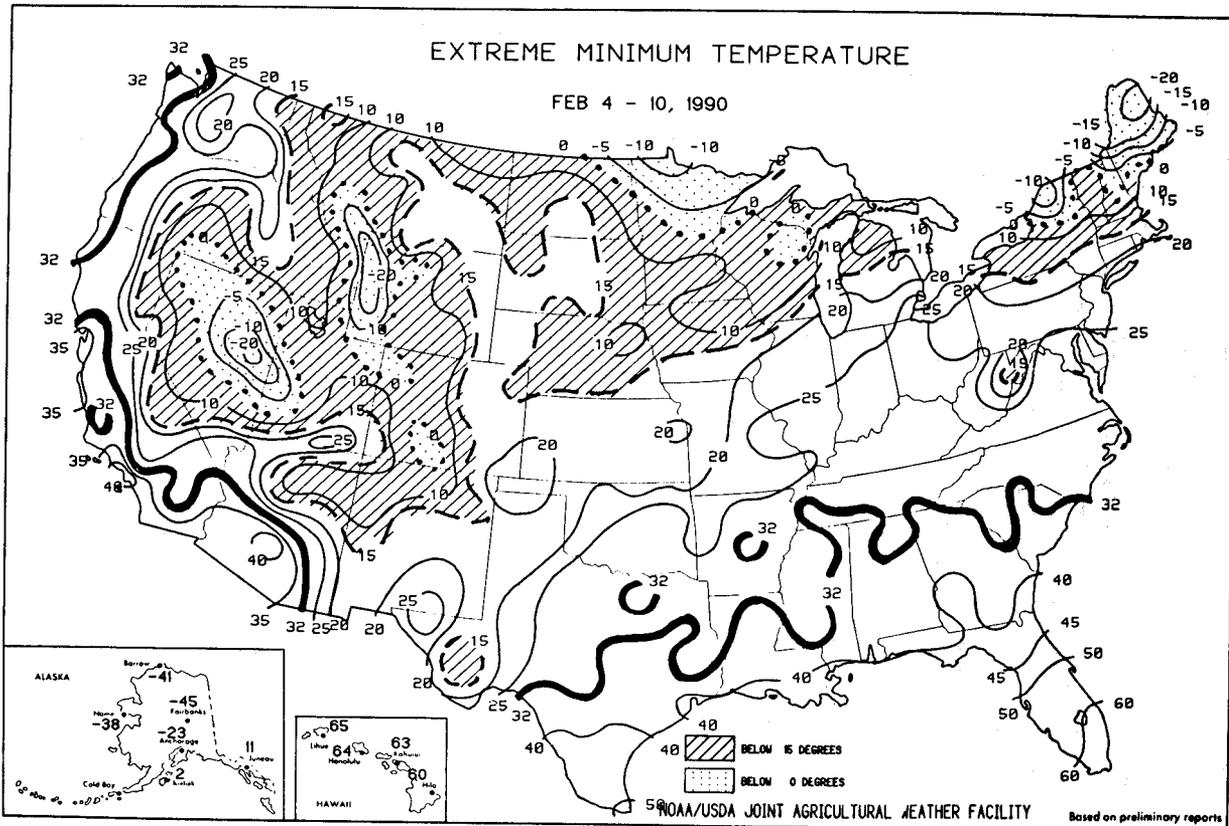
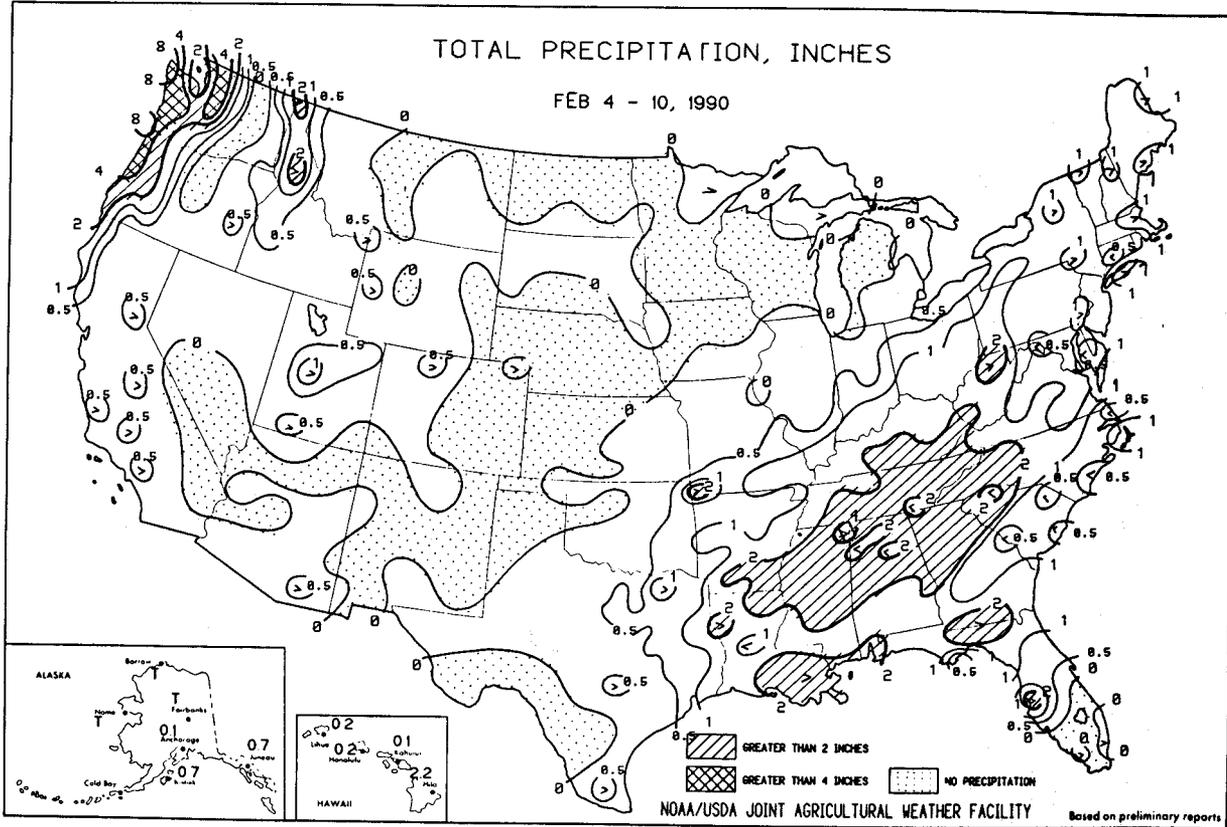
## HIGHLIGHTS

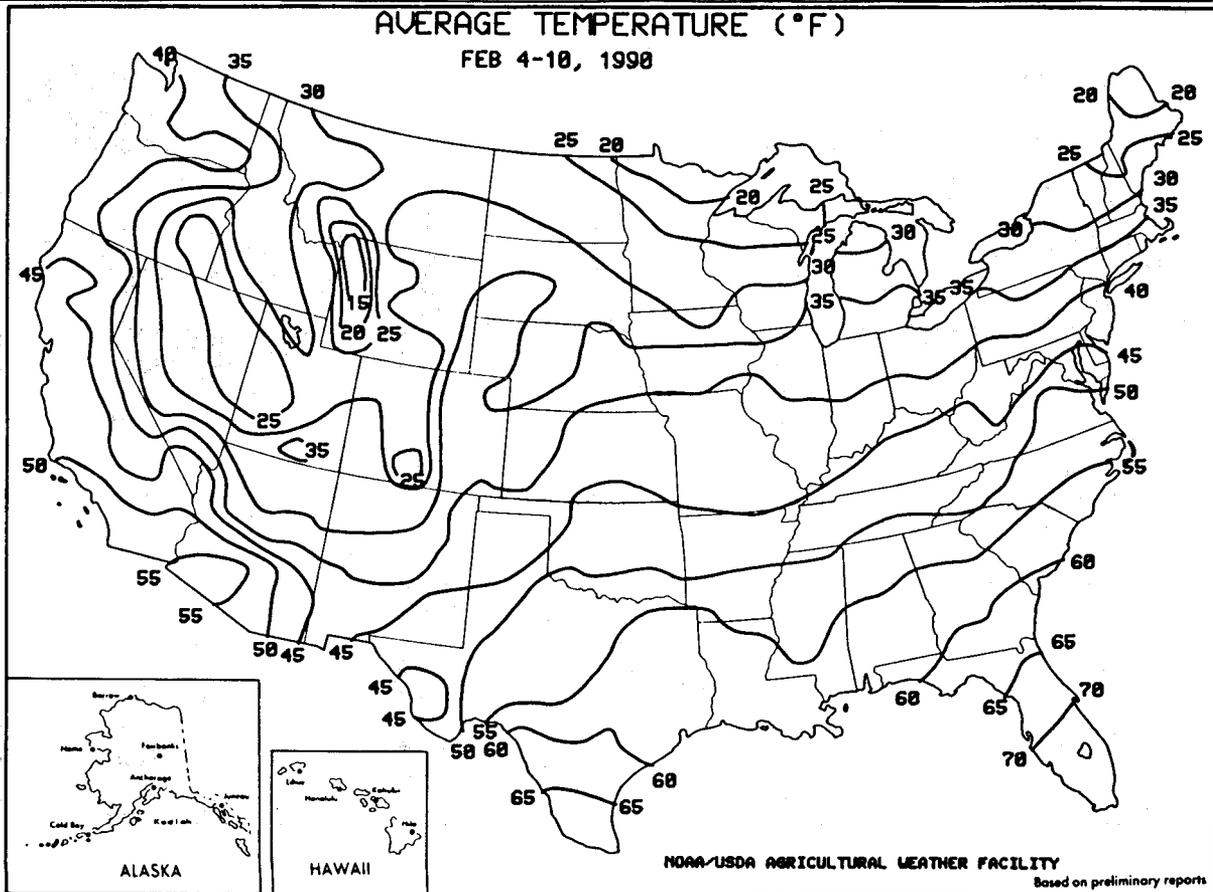
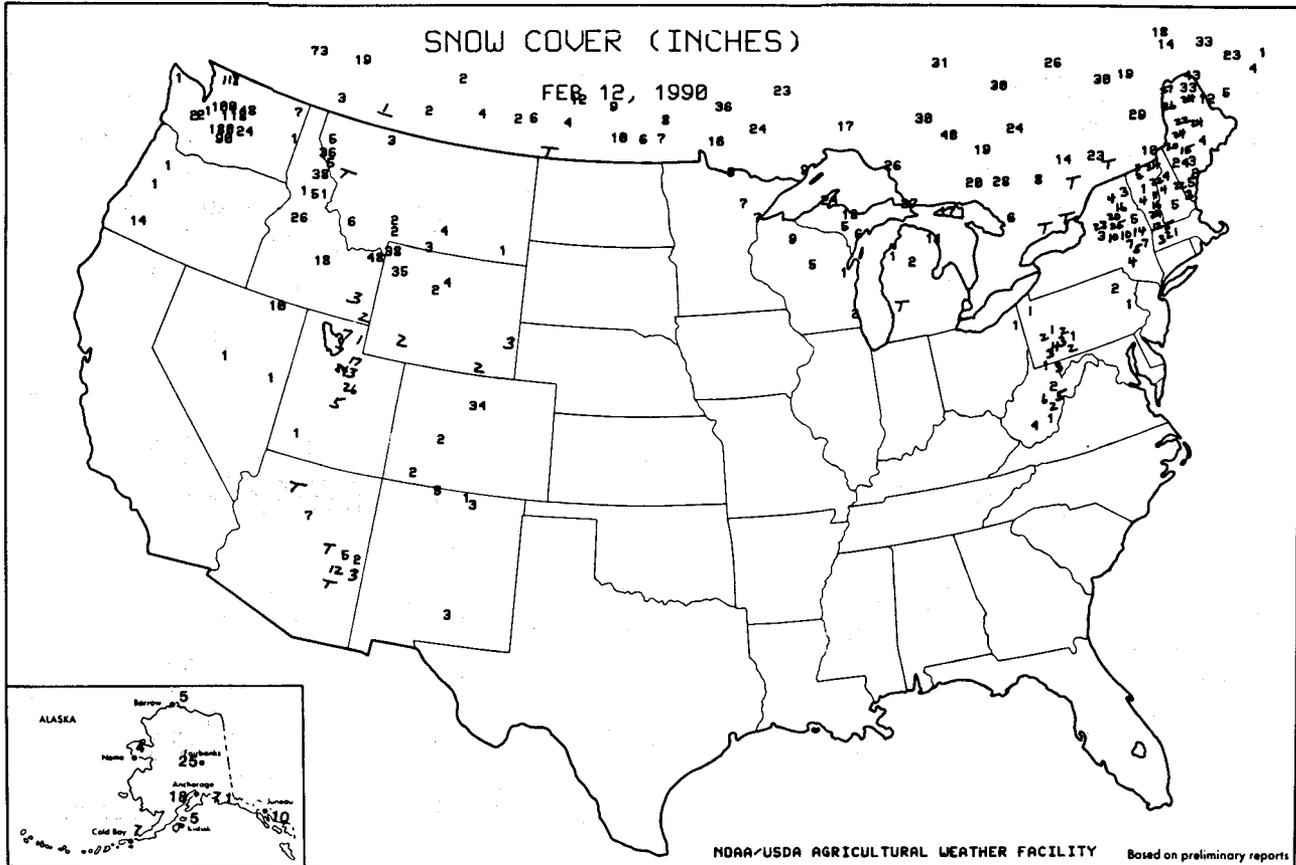
February 4-10, 1990

The unseasonable warmth persisted over the eastern two-thirds of the Nation, where temperatures ranged from 6 to 18 degrees Fahrenheit above normal. Record-high temperatures for the date were broken from the Dakotas to the Atlantic coast. Near-to below-normal temperatures remained in the Great Basin and Southwest, while bitter polar air settled over interior Alaska. Temperatures dropped to -45 degrees at Fairbanks and -58 at Fort Yukon. Wet and windy weather continued throughout the week across the Pacific Northwest. During the latter part of the week, a strong frontal system brought severe weather to the Southeast as thunderstorms spawned at least 13 tornadoes. The system spread heavy rain from the lower Mississippi Valley to the northern and middle Atlantic coast. Dry conditions prevailed over the Great Plains and western Corn Belt.

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# National Weather Data for Selected Cities

Weather Data for the Week Ending February 10, 1990

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	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	-.50 INCH OR MORE	
AL BIRMINGHAM	66	41	69	31	53	9	2.0	.9	1.0	13.4	114	10.0	147	99	58	0	1	4	2	
MOBILE	67	49	74	39	58	6	2.8	1.6	1.8	17.4	150	10.2	165	98	66	0	0	4	2	
MONTGOMERY	68	44	73	34	56	8	1.9	.9	.9	21.2	204	12.1	213	95	59	0	0	5	1	
AK ANCHORAGE	2	-13	8	-23	-6	-22	1.1	0	0	3.1	144	1.5	137	92	56	0	0	2	0	
BARROW	-20	-28	-10	-41	-24	-5	T	0	T	.2	55	T	13	78	64	0	7	1	0	
FAIRBANKS	-26	-40	-15	-45	-33	-26	T	-1.1	T	1.1	78	.5	78	73	54	0	7	1	0	
JUNEAU	28	19	33	11	23	-3	.6	-4	.6	10.5	109	4.1	83	95	68	0	7	1	1	
KODIAK	22	11	31	2	17	-14	.7	-7	.5	19.7	149	7.5	97	78	42	0	7	5	1	
NOME	-17	-33	-10	-38	-25	-29	T	-1.1	T	1.6	100	.9	90	78	64	0	6	0	0	
AZ PHOENIX	66	45	70	42	55	0	0	0	-1.1	T	1.3	78	1.2	128	72	29	0	0	0	
PRESCOTT	52	25	61	21	39	0	0	0	-1.4	T	2.2	56	1.9	82	77	27	0	7	0	0
TUCSON	65	38	73	34	52	-1	.1	0	0	1.6	83	1.5	140	84	24	0	0	2	0	0
YUMA	69	43	75	38	56	-3	T	-1.1	T	1.1	18	.1	30	54	19	0	0	1	0	0
AR FORT SMITH	64	32	74	25	48	8	T	0	.5	8.9	164	8.1	314	98	42	0	4	2	1	0
LITTLE ROCK	60	40	73	34	50	8	1.0	.1	1.0	9.1	97	7.6	146	80	55	0	0	1	1	0
CA BAKERSFIELD	56	37	62	33	47	1	1.4	0	.4	1.3	65	1.3	96	97	46	0	0	3	0	0
EUREKA	50	40	55	35	45	-3	1.4	0	.7	10.5	69	9.7	108	94	75	0	0	6	1	0
FRESNO	55	36	62	31	46	-4	.3	0	.7	3.7	85	3.7	134	95	48	0	0	1	2	1
LOS ANGELES	63	46	67	42	55	-2	.3	0	.7	10.5	69	9.7	108	94	75	0	0	6	1	0
REDDING	56	34	74	25	45	-5	.2	-1.5	0	2.2	8.8	4.9	81	91	38	0	3	2	0	0
SACRAMENTO	58	38	63	30	48	-1	.2	-2	0	5.9	73	5.9	113	93	45	0	1	1	0	0
SAN DIEGO	62	46	67	43	54	-3	.3	-2	.3	3.7	82	2.7	103	76	42	0	0	1	0	0
SAN FRANCISCO	55	42	60	37	49	-2	.1	-8	.3	3.7	39	3.7	62	92	56	0	0	1	0	0
CO DENVER	52	24	61	17	38	6	0	-1.1	0	1.7	135	.8	119	72	23	0	6	0	0	0
GRAND JUNCTION	42	21	50	14	31	0	.1	0	.1	1.0	72	.9	114	85	42	0	6	1	0	0
PUEBLO	55	20	65	14	37	4	0	-1.1	0	1.1	182	-.6	188	80	51	0	0	1	0	0
CT BRIDGEPORT	46	31	55	21	38	9	.3	-4	.2	5.3	67	4.4	103	92	62	0	6	0	0	0
HARTFORD	46	26	58	17	36	10	.9	-1	.6	6.7	76	5.2	112	91	56	0	4	3	0	0
DC WASHINGTON	58	37	66	30	48	12	.6	-1	.5	5.9	86	3.6	101	88	61	0	6	1	1	0
FL APALACHICOLA	70	52	77	45	61	8	.3	-6	.3	9.9	119	2.8	57	96	62	0	0	1	0	0
DAYTONA BEACH	78	59	87	49	69	11	1.1	0	1.1	6.5	116	2.6	76	92	52	0	0	1	1	0
JACKSONVILLE	76	52	84	42	64	9	1.1	0	1.1	6.3	94	3.0	71	95	53	0	0	1	1	0
KEY WEST	80	71	83	64	74	6	T	-5	T	1.9	44	T	0	88	61	0	0	0	0	0
MIAMI	81	67	86	61	70	7	.1	-4	.1	1.1	23	.5	16	83	49	0	0	1	0	0
ORLANDO	81	59	86	51	70	10	.4	-3	.4	5.1	101	.6	20	92	45	0	0	1	0	0
TALLAHASSEE	74	49	80	40	61	9	2.3	1.1	2.2	10.6	97	6.0	94	95	55	0	0	3	1	0
TAMPA	79	59	83	50	69	9	2.6	1.9	2.1	7.8	149	3.1	100	92	52	0	0	2	1	0
WEST PALM BEACH	81	67	87	62	74	9	T	-6	T	3.2	54	1.2	34	89	50	0	0	2	0	0
GA ATLANTA	65	44	68	36	55	11	5.0	T	3.9	17.8	168	13.4	208	91	55	0	0	5	3	0
AUGUSTA	71	43	78	31	57	11	.4	-5	2.9	7.8	92	3.1	59	93	42	0	1	3	0	0
MACON	70	44	78	37	57	10	.8	-3	.7	14.3	145	5.5	94	92	47	0	0	4	1	0
SAVANNAH	72	50	81	39	61	10	1.3	0	1.0	10.5	151	5.3	126	89	49	0	0	3	1	0
HI HILO	78	65	81	60	71	0	2.2	-1.0	1.1	33.4	125	29.9	216	89	53	0	0	4	2	0
HONOLULU	80	69	82	64	74	2	.2	-5	.1	5.8	71	4.4	93	76	49	0	0	2	0	0
KAHULUI	80	67	86	63	73	2	.1	-7	.1	8.4	106	4.2	81	86	50	0	0	1	0	0
LIHUE	76	69	77	65	73	2	.2	-8	.1	12.5	95	9.7	126	84	63	0	0	4	0	0
ID BOISE	41	26	55	20	34	-1	.5	0	.3	1.6	46	1.5	71	92	44	0	5	5	0	0
LEWISTON	48	36	58	29	42	5	.1	-1	.1	.8	25	.6	33	70	40	0	1	1	0	0
POCATELLO	36	21	45	10	29	1	.2	-1	.1	.8	33	.7	50	85	51	0	6	5	0	0
IL CHICAGO	47	30	61	23	39	16	T	-2	T	3.0	68	2.5	126	92	57	0	6	5	0	0
MOLINE	50	27	63	19	38	15	T	-3	T	2.7	69	2.0	97	95	51	0	6	1	0	0
PEORIA	50	30	63	23	40	15	.1	-2	.1	3.6	89	2.8	136	96	54	0	6	1	0	0
QUINCY	54	32	69	24	43	16	T	-3	T	2.9	83	2.2	125	89	47	0	6	1	0	0
ROCKFORD	45	26	58	19	35	14	T	-2	T	2.4	66	1.9	110	96	59	0	6	2	0	0
SPRINGFIELD	50	31	63	24	41	14	T	-3	T	3.1	73	2.5	122	98	61	0	6	2	0	0
IN EVANSVILLE	54	34	65	29	44	11	1.6	.9	1.3	8.6	116	7.2	182	96	61	0	3	2	1	0
FORT WAYNE	46	31	58	25	38	14	.5	0	.3	5.2	100	4.0	146	95	67	0	4	3	0	0
INDIANAPOLIS	49	31	62	27	40	12	.5	-1	.2	5.9	92	3.8	110	94	57	0	5	4	0	0
SOUTH BEND	45	29	59	22	37	12	T	-5	T	4.7	78	2.9	93	92	53	0	4	0	0	0
IA DES MOINES	50	27	56	15	38	16	T	-2	T	2.3	97	1.7	129	89	49	0	5	1	0	0
SIOUX CITY	46	23	56	11	35	14	T	-2	T	.8	50	.4	47	87	42	0	7	1	0	0
WATERLOO	44	22	52	6	33	15	T	-2	T	.8	37	.6	57	97	55	0	7	0	0	0
KS CONCORDIA	58	30	69	21	44	14	0	0	0	.8	49	.3	40	75	28	0	6	0	0	0
DODGE CITY	56	28	69	18	42	9	0	0	0	.8	49	.3	40	75	28	0	6	0	0	0
GOODLAND	48	24	55	19	36	5	0	0	0	2.1	196	1.6	296	82	27	0	6	0	0	0
TOPEKA	56	28	63	18	42	12	.2	0	.2	1.0	116	.7	159	86	38	0	7	0	0	0
WICHITA	57	28	66	11	42	9	T	-2	T	2.5	104	1.9	162	91	42	0	4	1	0	0
KY BOWLING GREEN	58	35	67	30	46	11	2.2	1.2	2.0	12.6	121	10.4	176	99	55	0	3	4	1	0
LEXINGTON	55	34	65	29	45	12	1.2	.5	.9	7.6	93	6.0	130	95	55	0	3	5	1	0
LOUISVILLE	56	35	67	30	46	12	1.6	.9	1.1	8.1	103	6.7	151	92	50	0	2	3	1	0
LA ALEXANDRIA	66	49	72	35	58	6	1.0	-2	.5	16.9	154	14.9	245	91	54	0	2	2	1	0
BATON ROUGE	67	50	75	36	59	6	2.2	1.0	1.2	20.7	183	14.5	229	94	68	0	0	4	2	1
LAKE CHARLES	65	51	71	37	58	6	1.7	.8	1.6	13.0	118	10.8	184	97	70	0	0	3	1	0
NEW ORLEANS	66	52	77	43	59	6	2.5	1.2	1.6	16.8	139	10.5	154	94	70	0	0	3	2	0

Based on 1951-80 normals.

Weather Data for the Week Ending February 10, 1990

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	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	68	42	78	30	55	7	1.8	.9	1.6	16.8	183	15.0	283	95	45	0	1	3	1
ME CARIBOU	27	6	43	-15	17	6	.9	.3	.7	7.1	114	4.6	149	84	60	0	7	3	1
PORTLAND	39	18	55	4	28	6	.7	.1	.5	6.3	66	4.2	83	98	58	0	5	3	1
MD BALTIMORE	57	32	66	27	45	12	.5	-.2	.4	6.2	84	4.1	102	94	55	0	5	2	0
SALISBURY	57	35	69	27	46	11	.9	.1	.6	8.1	98	5.5	122	91	54	0	3	3	1
MA BOSTON	47	26	61	15	36	7	1.0	.1	.9	5.9	60	5.1	97	95	64	0	5	2	1
CHATHAM	43	31	53	20	37	7	1.4	.3	.7	8.8	81	6.9	119	88	68	0	3	2	2
MI ALPENA	39	19	46	2	29	11	T	-.3	T	3.9	95	2.5	114	94	54	0	7	0	0
DETROIT	45	30	57	26	38	13	.1	-.3	.1	3.9	80	2.7	111	93	66	0	4	2	0
FLINT	42	26	53	17	34	12	.1	-.3	T	3.2	79	2.3	111	90	63	0	5	1	0
GRAND RAPIDS	44	28	57	18	36	13	T	-.3	T	3.5	69	2.5	101	90	57	0	6	6	0
HOUGHTON LAKE	39	20	50	9	30	13	T	-.3	T	2.2	59	1.7	86	94	57	0	7	7	0
LANSING	43	25	55	15	34	14	.1	-.2	.1	2.7	58	1.9	92	92	63	0	6	6	1
MARQUETTE	35	16	45	5	25	13	T	-.4	T	4.5	88	1.9	73	92	61	0	7	1	0
MUSKOGON	42	28	57	20	35	12	T	-.4	T	4.4	80	2.5	86	91	57	0	6	6	0
SAULT ST. MARIE	35	20	39	3	27	14	.3	-.2	.2	5.2	97	3.4	123	95	66	0	7	3	0
MN ALEXANDRIA	37	17	47	7	27	18	T	-.2	T	.4	23	.2	21	88	54	0	7	0	0
DULUTH	36	13	45	-1	24	15	T	-.2	T	1.2	43	.6	38	88	44	0	7	0	0
INT'L FALLS	34	3	47	-8	19	14	.1	-.1	.1	.9	44	.6	52	88	44	0	7	1	0
MINNEAPOLIS	42	19	50	13	31	16	0	-.2	0	.6	33	.2	19	90	49	0	7	1	0
ROCHESTER	37	19	42	7	28	14	T	-.1	T	1.1	59	.7	68	91	62	0	7	0	0
MS GREENWOOD	62	41	71	31	52	6	2.2	1.1	2.1	15.0	124	11.5	172	97	59	0	1	3	1
JACKSON	66	41	75	30	52	6	2.2	1.1	1.8	20.9	176	16.7	257	99	67	0	1	4	1
HERIDIAN	62	44	73	37	55	8	2.7	1.7	1.2	21.6	178	14.9	230	96	64	0	0	4	3
MO CAPE GIRARDEAU	53	32	66	26	42	11	1.0	-.4	.9	10.4	137	8.8	229	99	66	0	4	4	1
COLUMBIA	54	31	72	23	43	11	.2	-.2	.1	3.6	83	2.8	120	93	46	0	4	3	0
KANSAS CITY	54	30	61	17	42	11	.2	-.1	.2	2.4	78	1.8	116	89	46	0	4	1	0
SAINT LOUIS	57	35	70	30	46	14	.6	.1	.4	3.8	82	3.1	129	90	47	0	3	3	0
SPRINGFIELD	57	30	70	24	44	10	.8	.3	.5	8.5	177	7.7	343	95	47	0	5	4	1
MT BILLINGS	46	25	56	17	36	9	.2	0	.1	1.8	90	.5	38	70	29	0	6	2	0
GLASGOW	39	16	45	6	28	15	.1	0	.1	.8	95	.4	85	83	47	0	7	1	0
GREAT FALLS	42	23	55	15	33	7	T	-.2	T	1.4	69	.3	23	66	29	0	6	0	0
HAVRE	39	22	47	13	31	13	T	-.1	T	1.0	80	T	5	80	45	0	6	0	0
HELENA	42	21	55	1	31	7	T	-.1	T	1.0	69	.5	61	78	34	0	6	2	0
KALISPELL	37	24	46	15	30	5	.1	-.2	.1	4.1	113	1.9	93	84	48	0	6	3	0
MILES CITY	42	23	48	17	33	13	T	-.1	T	.8	59	.1	16	86	49	0	7	1	0
MISSOULA	37	22	49	13	30	3	.2	0	.2	1.8	60	1.2	67	91	50	0	6	3	0
NE GRAND ISLAND	49	25	57	14	37	12	0	-.2	0	1.1	83	.7	104	86	41	0	7	0	0
LINCOLN	55	22	64	15	38	14	0	-.2	0	1.1	70	.5	57	87	30	0	7	0	0
NORFOLK	46	24	51	7	35	13	0	-.2	0	1.6	124	.9	125	86	42	0	7	0	0
NORTH PLATTE	50	17	60	12	34	8	0	-.1	0	.6	59	.3	52	94	29	0	7	0	0
OMAHA	50	28	61	16	39	14	0	-.2	0	1.3	75	.8	82	76	46	0	5	0	0
SCOTTSBLUFF	52	23	61	17	38	10	0	-.1	0	1.2	116	.6	105	72	23	0	6	0	0
VALENTINE	51	17	63	10	34	12	0	-.2	T	.2	27	T	9	73	25	0	7	0	0
NV ELY	39	5	47	-20	22	-6	.4	-.2	.4	1.1	64	1.1	112	87	40	0	7	1	0
LAS VEGAS	57	33	66	30	45	-3	T	-.1	T	1.2	129	1.2	188	62	25	0	3	0	0
RENO	47	22	62	15	34	-2	T	-.2	T	.6	22	.6	39	79	33	0	7	1	0
MINNEBUCCA	39	19	53	-2	29	-6	.1	0	.1	.9	47	.8	69	88	47	0	6	3	0
NH CONCORD	41	13	56	-1	27	6	.7	.1	.6	5.0	71	4.1	112	99	58	0	7	2	1
NJ ATLANTIC CITY	56	31	67	24	43	11	.5	-.3	.3	5.0	61	3.2	70	94	51	0	5	2	0
NM ALBUQUERQUE	51	25	57	18	38	-1	T	-.1	T	.7	75	.5	92	79	38	0	7	0	0
CLOVIS	61	27	67	19	44	4	0	-.1	0	1.5	129	1.0	167	75	18	0	5	0	0
ROSWELL	66	30	72	22	48	6	0	-.1	0	.5	61	.5	96	58	14	0	5	0	0
NY ALBANY	41	24	52	13	33	11	.9	.3	.6	5.9	96	5.1	164	93	60	0	6	2	1
BINGHAMTON	40	24	49	14	32	11	.8	.3	.4	6.4	104	4.8	145	97	65	0	6	4	0
BUFFALO	41	27	55	12	34	10	.6	0	.4	6.7	93	4.4	114	95	57	0	5	3	0
NEW YORK	50	35	62	24	43	11	.7	0	.5	5.6	73	4.8	116	84	52	0	1	2	1
ROCHESTER	43	27	56	15	35	12	.6	0	.3	4.3	75	2.7	86	95	56	0	6	3	0
SYRACUSE	43	22	54	9	32	9	.8	.1	.3	5.8	87	3.7	106	96	55	0	6	4	0
NC ASHEVILLE	59	34	68	26	47	9	2.5	1.8	1.3	9.9	134	6.6	157	97	52	0	3	4	2
CHARLOTTE	64	42	74	32	53	11	2.0	1.1	1.2	9.7	115	5.9	117	85	43	0	1	4	2
GREENSBORO	62	36	65	27	49	11	1.7	.8	.8	9.0	111	5.4	115	91	44	0	2	4	2
HATTERAS	63	43	72	31	53	9	1.1	.1	.6	11.9	111	5.8	92	97	64	0	1	3	1
NEW BERN	69	42	81	29	56	11	.9	-.1	.6	9.7	106	3.6	66	95	42	0	1	3	1
RALEIGH	66	39	73	29	53	12	1.4	.6	.9	7.3	94	4.5	95	92	44	0	2	4	1
WILMINGTON	68	44	76	30	56	10	.2	-.6	.1	10.1	122	3.2	66	94	49	0	1	4	0
ND BISMARCK	40	18	50	16	29	17	T	-.1	T	.6	53	.3	22	89	45	0	7	1	0
FARGO	38	15	47	4	27	18	T	-.1	T	.4	30	.2	22	85	43	0	7	0	0
GRAND FORKS	37	13	47	-1	25	19	T	-.1	T	.4	26	.2	22	89	45	0	7	1	0
WILLISTON	39	16	46	9	27	15	T	-.1	T	.4	26	.2	22	85	43	0	7	0	0
OH AKRON-CANTON	45	31	56	23	38	12	1.2	.7	.7	6.3	107	4.3	133	96	62	0	4	3	1
CINCINNATI	52	34	64	29	43	13	1.5	.9	.8	6.8	97	4.9	121	90	54	0	3	4	1
CLEVELAND	46	32	58	24	39	13	.6	0	.3	5.9	99	4.2	130	89	57	0	4	3	0
COLUMBUS	48	32	60	26	40	12	1.2	.7	.7	6.4	106	4.7	134	94	58	0	5	4	1

Weather Data for the Week Ending February 10, 1990

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	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	48	32	60	26	40	12	1.6	1.1	1.0	7.0	122	5.2	158	92	60	0	4	4	1
TOLEDO	46	31	58	25	39	14	2.2	1.2	2.2	4.5	86	3.1	121	88	60	0	4	4	0
YOUNGSTOWN	46	31	56	22	38	14	2.8	1.2	5.5	89	4.1	119	93	56	0	4	3	0	
OK OKLAHOMA CITY	62	36	71	27	49	10	2.2	1.1	3.1	121	2.8	201	82	32	0	2	2	0	
TULSA	64	35	76	26	49	11	1.1	1.2	3.5	95	3.2	172	84	33	0	3	2	0	
OR ASTORIA	48	39	51	32	43	0	7.5	5.4	2.3	32.3	128	24.9	182	95	76	0	1	7	6
BURNS	38	15	48	2	26	-6	1.1	1.2	1.1	1.8	23	1.8	39	95	57	0	7	1	0
MEDFORD	45	34	49	29	39	-2	1.3	1.3	4.1	5.3	3.5	81	96	71	0	4	5	0	
PENDLETON	49	35	62	25	42	5	1.1	1.2	1.1	1.1	29	1.9	41	74	37	0	4	3	0
PORTLAND	47	39	56	33	43	1	1.4	1.4	13.3	94	10.2	132	94	75	0	0	5	0	
SALEM	46	38	54	32	42	0	2.2	1.0	16.3	102	12.3	140	94	79	0	1	6	1	
PA ALLENTOWN	51	27	57	21	39	11	1.9	1.2	6.9	85	5.6	128	95	50	0	6	3	1	
ERIE	44	29	57	22	37	13	1.4	1.1	6.8	107	3.7	119	94	54	0	5	3	0	
HARRISBURG	51	28	60	23	40	10	1.7	1.3	5.6	78	4.3	110	92	50	0	6	3	0	
PHILADELPHIA	55	31	64	23	43	11	1.7	1.1	6.6	87	4.8	117	93	50	0	4	2	1	
PITTSBURGH	48	32	58	24	40	13	1.2	1.7	7.2	116	4.8	132	92	52	0	4	3	1	
SCRANTON	46	28	53	19	37	11	1.0	1.5	6.2	114	5.2	177	92	57	0	6	3	0	
RI PROVIDENCE	46	26	59	18	36	8	1.0	1.1	5.7	79	6.0	113	97	62	0	6	3	1	
SC CHARLESTON	71	51	77	38	61	12	1.4	1.4	3.3	9.2	4.3	98	91	52	0	0	2	0	
COLUMBIA	71	43	79	31	57	11	1.5	1.4	4.4	8.3	3.0	52	98	42	0	1	4	0	
FLORENCE	71	44	80	29	57	12	1.1	1.7	1.1	6.5	85	2.1	46	91	40	0	1	2	0
GREENVILLE	63	39	72	30	51	9	2.0	1.0	1.0	10.5	108	5.7	100	92	44	0	1	4	2
SD ABERDEEN	40	19	47	13	29	17	1.1	1.1	0	4	32	2	32	93	47	0	7	2	0
NURON	45	20	50	13	33	17	1.1	1.2	1.3	25	1	13	83	35	0	7	1	0	
RAPID CITY	50	21	64	15	36	11	1.7	1.2	1.1	104	2	40	81	28	0	7	1	0	
SIoux FALLS	47	18	57	11	32	16	1.4	1.2	1.1	12	1	12	85	31	0	7	1	0	
TN CHATTANOOGA	63	39	67	33	51	11	1.8	1.7	1.1	15.6	130	11.9	175	99	51	0	0	5	1
KNOXVILLE	61	36	64	30	49	9	2.4	1.4	1.5	12.3	116	9.6	158	97	50	0	3	5	2
MEMPHIS	61	38	69	30	49	7	1.5	1.4	1.4	12.5	114	10.4	171	98	57	0	1	2	1
NASHVILLE	61	37	68	31	49	10	1.3	1.4	1.9	8.7	84	7.1	121	94	50	0	1	4	1
TX ABILENE	67	41	78	30	55	8	1.1	1.1	2.7	124	2.5	189	75	27	0	1	1	0	
AMARILLO	61	27	69	18	44	6	0	1.1	0	1.7	150	1.2	188	68	21	0	7	0	0
AUSTIN	73	48	82	35	61	9	1.4	1.2	1.4	2.9	6.3	2.7	111	90	36	0	0	2	0
BEAUMONT	66	51	72	39	59	5	1.7	1.6	1.5	13.7	130	10.5	186	95	67	0	0	3	1
BROWNSVILLE	76	60	84	50	68	6	1.1	1.3	1.1	2.4	83	1.7	38	93	57	0	0	3	0
CORPUS CHRISTI	76	53	93	40	64	7	1.1	1.3	1.1	2.0	58	1.5	22	93	48	1	0	2	0
DEL RIO	73	46	83	36	59	6	0	1.2	0	1.1	82	1.8	100	68	21	0	0	0	0
EL PASO	63	33	70	21	48	1	1.1	0	1.1	5	60	1.4	71	62	19	0	4	2	0
FORT WORTH	67	41	80	33	54	7	1.3	1.2	3.3	8.1	200	7.8	333	92	37	0	0	1	0
GALVESTON	64	55	70	44	60	5	1.7	1.1	1.6	4.9	65	4.2	109	92	71	0	0	4	1
HOUSTON	67	48	75	33	58	4	1.5	1.4	1.3	6.2	72	5.4	113	95	58	0	0	3	0
LUBBOCK	65	30	72	19	48	7	1.3	1.2	1.0	115	1.7	134	71	20	0	5	1	0	
MIDLAND	69	33	76	22	51	5	1.1	0	1.1	6	55	1.4	73	70	18	0	3	1	0
SAN ANGELO	71	34	78	26	53	4	1.1	1.2	1.1	2.0	130	1.8	192	82	22	0	4	1	0
SAN ANTONIO	74	46	83	32	60	7	1.1	1.3	1.1	2.0	57	1.7	75	90	30	0	1	1	0
VICTORIA	71	50	79	38	61	7	1.1	1.6	1.1	3.0	62	1.9	69	95	54	0	0	1	0
WACO	70	41	83	31	56	7	1.1	1.4	1.1	4.7	110	4.2	176	94	37	0	2	1	0
NICHITA FALLS	66	34	80	27	50	7	1.1	1.1	1.1	3.3	135	3.0	243	87	29	0	4	1	0
UT CEDAR CITY	39	12	48	-1	26	-7	1.4	1.2	1.7	111	1.7	192	98	51	0	7	2	0	0
SALT LAKE CITY	39	24	46	7	32	-1	1.2	1.2	1.3	29	1.8	43	84	48	0	6	1	0	0
VT BURLINGTON	36	19	48	5	27	11	1.1	1.7	1.6	4.7	96	3.5	148	94	64	0	6	3	2
VA NORFOLK	63	39	76	31	51	11	1.4	1.6	1.9	8.6	107	4.7	96	94	54	0	2	4	1
RICHMOND	63	37	72	30	50	13	1.0	1.2	1.5	7.1	92	4.2	97	85	45	0	2	3	0
ROANOKE	62	34	68	28	48	12	1.5	1.4	1.4	6.1	90	3.5	90	93	40	0	3	3	0
WA QUILLAYUTE	44	36	49	31	40	-1	10.1	7.1	2.8	38.9	107	30.2	161	99	82	0	2	7	6
SEATTLE-TACOMA	44	37	50	32	41	-2	1.1	0	1.3	16.1	115	11.4	148	97	74	0	1	7	0
SPokane	38	27	51	19	33	2	1.3	1.1	1.2	4.0	72	3.1	99	96	64	0	6	4	0
YAKIMA	50	28	62	16	39	5	1.1	1.2	1.7	5.6	1.5	85	85	42	0	5	0	0	0
WV BECKLEY	55	32	64	26	44	13	1.6	1.8	1.9	8.0	104	5.5	123	91	47	0	5	4	1
CHARLESTON	58	34	69	25	46	12	1.7	1.0	1.0	6.7	86	5.1	113	95	48	0	5	5	1
HUNTINGTON	57	34	66	28	45	11	1.5	1.8	1.0	7.4	101	5.1	123	92	48	0	5	4	1
PARKERSBURG	52	33	62	26	43	10	1.6	1.0	1.9	7.1	109	5.4	145	95	50	0	4	4	1
WI GREEN BAY	36	20	45	0	28	12	1.2	1.2	1.4	4.7	8	54	92	63	0	6	0	0	0
LACROSSE	40	21	47	7	31	13	0	1.2	1.5	65	1.0	86	96	55	0	7	0	0	0
MADISON	43	22	53	9	33	14	0	1.2	2.0	67	1.7	122	92	56	0	6	0	0	0
MILWAUKEE	43	28	55	17	36	14	0	1.2	3.3	82	2.8	139	92	56	0	6	0	0	0
WAUSAU	36	16	43	-1	26	12	1.1	1.2	1.4	5.7	1.0	84	95	65	0	7	0	0	0
WY CASPER	43	23	55	13	33	7	1.1	1.1	1.1	127	1.4	83	77	28	0	6	0	0	0
CHEYENNE	46	23	55	18	35	6	0	1.1	1.1	127	1.4	83	77	28	0	6	0	0	0
LANDER	46	15	56	4	31	6	0	1.1	1.1	31	1	3	65	25	0	7	0	0	0
SHERIDAN	44	20	54	11	32	8	1.2	1.2	2.3	131	1.6	59	86	37	0	6	1	0	0

## National Agricultural Summary

February 5-11, 1990

**HIGHLIGHTS:** Continued lack of moisture concerned winter wheat producers in the **central and northern Great Plains**. Lack of snow cover has left the crop vulnerable to freeze damage. Portions of the **southern Great Plains** received some moisture but more was needed. Above-normal temperatures and rain again improved small grain and pasture growth in the **Delta** and the **East**. The mild weather has caused premature fruit tree blooming in many areas. Rain added to soil moisture supplies in the **eastern Corn Belt**. Florida's citrus and vegetable producing areas remained dry. Heavy precipitation fell in **western Oregon** and **Washington**, improving soil moisture supplies.

**SMALL GRAIN:** Portions of the southern Great Plains received some moisture which improved winter wheat condition. Most of the central and northern Great Plains remained dry, but above-normal temperatures helped to maintain crop condition. In Texas, small grains were progressing well, but additional moisture was needed, especially in the High Plains area. Crop condition was good in Arkansas. In Kansas, warm weather melted snow and ice left from the previous week, improving surface soil moisture. Additional rain or snow was needed. In Montana, winter wheat was fair to good with poor snow cover protection. Blowing soil damaged some fields late in the week. In Oregon and Washington, winter wheat was good in the western areas, but rain or snow was needed in the east. Small grains were good in California. Winter wheat was mostly good in the Corn Belt and Southeast. Warm temperatures and adequate moisture encouraged rapid small grain growth in Georgia.

**OTHER FIELD CROPS:** Sugarcane harvest continued in Florida. In Georgia, tobacco plant beds were good to excellent. Growers continued to seed tobacco plant beds in North Carolina. Rain and wet field conditions again limited fieldwork in the Delta. Land preparation for the 1990 cotton crop continued in Arizona and California. Activities included preplant fertilizer and herbicide applications, leveling, and irrigating.

**FRUIT AND NUTS:** In Florida, unseasonably hot, dry weather forced citrus producers to continue irrigating. New growth and blooming continued. Early orange harvest was nearly complete and some salvage harvesting of Valencias continued.

Grapefruit harvest increased. Early peach varieties were blooming several weeks early in southern Georgia, leaving the crop susceptible to freezing temperatures. Premature fruit tree blooming concerned producers in most of the Delta and Southeast. In the Rio Grande Valley, Texas, peach producers were expected to begin post bloom spray applications soon. In eastern Texas, peach trees were in the pink bud and early bloom stage. In California, almonds and apricots were in the bud swell stage. Desert table grape, peaches, and nectarines were budding. Navel orange and desert grapefruit harvests continued. Citrus harvests continued in central and western Arizona.

**VEGETABLES:** Above-normal temperatures continued over Florida's major vegetable producing areas. Spring crop plantings continued. Harvest activity continued light but was increasing for most crops. In the Rio Grande Valley, Texas, producers were harvesting cabbage and lettuce. Melon planting was increasing. Onions were progressing well with only moderate insect and disease problems. Mixed vegetable harvests were active in Arizona. In California, desert asparagus, broccoli, cauliflower, lettuce, and potato harvests continued. Tomato planting continued in the Firebaugh district.

**PASTURES AND LIVESTOCK:** Rain and mild temperatures again improved pasture growth in the Delta and Southeast. In the Great Plains and Corn Belt, mild temperatures and lack of snow cover reduced the amount of supplemental feeding necessary. Mild weather provided ideal conditions for calving, which was underway in many areas.

## 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 2.00 to 3.00 in north; 1.00 to 2:00 in. central, south. Temperatures 6 to 10° above normal.

Wet conditions hampered most field activities. Continued warm temperatures caused premature bud development in fruit trees. Primary activities: Routine care of livestock, poultry, catfish; pruning fruit trees; soil testing; working farm records.

**ARIZONA:** Mostly light precipitation 4th, 5th except Flagstaff heavy snow; sunny 6th; scattered rain, snow 7th to 9th; sunny, warmer weekend; precipitation south traces to 0.18 in., north none to 0.54 in; temperatures 4° below to 1° above normal; lows 1°, 42°; highs 47°, 75°.

Wheat, barley stands established 100%, 100% 1989, 98% avg.; jointing 19%, 18% 1989, 16% avg.; small grains mostly good. Alfalfa first cutting began west; activities, sheep grazing, green-chop; weeds, disease, insects light; crops rated good. Cotton activities applying pre plant fertilizer, herbicides, listing, laser levelling, pre irrigation, mulching. Pruning apple, pistachio trees. Harvest grapefruit, tangerines, valencia oranges west, central; navel, lemons harvested central; Arizona sweets, minceolas completed; Boston, leaf, romaine and head lettuce harvested west; mixed vegetables harvested west, central.

**ARKANSAS:** Temperatures continued above normal. Scattered showers latter part of week. Heaviest southeast again. Extremes 23°, 76°. Rainfall 0.40 to 3.29 in.

Soil moisture adequate. Wheat good, growth normal. Warm weather could affect fruit potentials. Pastures beginning to grow. Livestock good.

**CALIFORNIA:** No weather data available.

Early rain slowed field activities northern portions. Most small grains good. Fertilization, irrigation, weed control active. Some early oats green chopped. Sheep grazed alfalfa. Spring crop preparations active. Pruning, tying vines, weed control continued; vineyards, orchards. Dormant spray applications winding down. Bud swell began almonds, apricots. Bees moved into almonds. Desert table grape, peaches, nectarines budding. Peach cordon training experiments, San Joaquin County. Navel orange, desert grapefruit harvest continued. Desert valencias near harvest. Lemons, Minneola tangelos packed. Avocado harvest slow. Desert asparagus, broccoli, cauliflower, lettuce, potato harvest continued. Growers irrigated, treated garlic, onion fields, weed control. Potato packing sheds operating full time. Sweet potato hot bed preparation progressed. Processing tomato planting continued, Firebaugh district. Livestock good statewide. Range, pasture conditions improved, due recent rains; grass growth slow due cold weather. Supplemental feeding continued. Water supplies below normal most areas. Calving, lambing active.

**COLORADO:** Warm, dry throughout, windy conditions along Front Range. Trace amounts moisture at lower elevations. Mountain areas received 1.00 to 3.00 in. of snow daily 9th through 11th. Temperatures 4 to 6° above normal most areas; up to 9° above normal along eastern foothills, slightly below normal along Kansas

border. Calving, lambing activities are underway. Water supply outlook for the 1990 season is of growing concern as the dry winter continues.

**FLORIDA:** Extended period of warm temperatures continued. Temperatures 5 to 10° above normal. All areas except western Panhandle maximum 80s. Coolest temperatures mid 30s to low 40s north, 40s to low 50s central interior south, upper 50s to low 60s lower southeast coast. A cold front brought much needed rains to Peninsula over weekend. Rainfall 1.00 in. or more common. However, few areas received less than 0.50 in., particularly across extreme south area.

Panhandle soil moisture mostly adequate; Peninsula varied short to adequate. Land preparation spring planted crops active. Tobacco plant beds progressing well. Sugarcane harvest active. Late week, weekend rains, heaviest in Panhandle, central Peninsula areas, particularly beneficial to Peninsula pastures. Additional rains needed, some upper northern, lower southern Peninsula areas. Most Panhandle pastures fair. Many upper Peninsula pastures poor; elsewhere, poor to good depending on moisture levels. Cattle, calves fair to good. Unseasonably hot, dry citrus areas most of week except weekend rain. Irrigation continued. New growth, bloom all areas; some trees full open bloom. Early orange harvest almost over. Salvage harvesting damaged valencias active. Grapefruit movement increasing with additional labor. Caretakers working young tree groves. Above normal temperatures continued over major vegetable producing areas. Planting spring crops continued active. Harvest light, increasing most crops. Volume leaders: Celery, cabbage, radishes, peppers, strawberries, squash, tomatoes, carrots. Also available: Lettuce, escarole, potatoes, eggplant. Tomato volume continued decline.

**GEORGIA:** Heavy rain northern half end of week, spread into south, southeast. Rainfall 2.00 to 3.00 in. north, mostly under 1.00 in. remainder. Temperatures 5 to 10° above normal. Extreme highs mid 60s northeast, around 80 central, lows 80s south. Coldest lows mid 20s northeast, mid 30s central, upper 30s south.

Soil moisture adequate south, surplus north, central. Clear until 9th allowed increased land preparation. Weekend rain stopped fieldwork. Fruit tree buds swelling. Early peach varieties blooming in south. Development several weeks early, susceptible to freeze. Pruning active. Small grains good, growth fast with warm temperatures. Tobacco plant beds good to excellent. Pastures fair to good, poor southwest. Livestock fair to good.

**HAWAII:** High winds, scattered showers continued over islands. Skies cloudy, light to moderate showers falling in all areas. Wind gusts up to 40 mph in exposed areas. Temperatures low 60s to low 80s. Rainfall none to 3.00 in.

Days suitable for farm work 7.0. Papaya production continued light. Some minor wind damage macadamia orchards. Pineapple harvesting continuous, weather permitting. Wind damage occurred mostly to vine crops in exposed areas.

**IDAHO:** Temperatures slightly above normal across State. Precipitation levels were normal in

north, below normal in the south central, east.

Livestock good to excellent. Calving, lambing progressing well with good conditions. Short to adequate hay, roughage supplies areas of north, east. Adequate supplies elsewhere. Other farm activities; some marketings of grain, potatoes; scouting fields; attending meetings, expos; preparing taxes.

**ILLINOIS:** Temperatures 12 to 15° above normal north, 8 to 11° above normal south. Scattered showers generally 0.10 to 0.30 in. across State, 1.00 in. or more far South.

Winter wheat mostly good. Livestock good to excellent.

**INDIANA:** Temperatures 10 to 15° above normal. Lows upper 20s to mid 30s, highs mid 40s to mid 50s. Precipitation up to 1.00 in.

Fields wet most areas. Other activities: Hauling grain, spreading fertilizer, repairing machinery, top dressing wheat, spreading manure, processing tobacco, attending meetings, tax preparation, purchasing supplies, care of livestock. Hay supplies adequate. Livestock good. Mild week.

**IOWA:** Very mild week with temperatures 13 to 18° above normal. Extremes 8°; 66°. Precipitation mostly in extreme south, none to 0.29 in.; average 0.02 in. Livestock mostly good. Some TGE in pigs. Farmers preparing for spring planting.

**KANSAS:** Temperatures above normal across State. Readings near 30 along northern areas, to middle 30s along southern areas. Readings generally 10 to 15° above normal.

Warmer temperatures melted snow, ice left from previous week. Moisture will improve surface soil moisture conditions, more precipitation needed to raise subsoil moisture levels to normal. Livestock returns grazing wheat fields, pastures as snow, ice melted reducing supplemental feeding.

**KENTUCKY:** Mild, wet; temperatures 9 to 11° above seasonal normals, highs 50s, 60s; lows 30s to lower 40s. Rainfall 1.00 to 1.40 in. mostly on 7th, 9th.

Fall seeded small grains greening up due to abnormal warm temperatures. Soil moisture mostly surplus to adequate. Wet fields limited activities. Routine chores major activity. Burley sales finishing up.

**LOUISIANA:** Temperatures 4 to 6° above normal. Extremes 29°; 78°. Rainfall 3.00 in. southeast, south central, 2.50 in. northeast, 1.50 to 2.00 in. remainder of State.

Main activities: Crawfishing; livestock care; routine chores.

**MARYLAND & DELAWARE:** **MARYLAND:** Precipitation 0.61 in. Temperature 45°, normal 33°. Extremes 19°; 72°.

**DELAWARE:** Precipitation 0.82 in. Temperature 45°, normal 34°. Extremes 23°; 67°.

**MICHIGAN:** Temperatures 11 to 15° above normal. Extremes 2°; 59°. Precipitation none to 0.25 in. across State. Unseasonably mild temperatures. Snowcover virtually gone in central, southern Lower Peninsula. Snow depth significantly reduced in northern areas. Thawing conditions have kept fields wet, muddy.

Major activities: Marketing grain, hay, pruning fruit trees, attending farm meetings, cleaning barns, preparing tractors, equipment for spring planting. Livestock good. Calving, lambing activity increasing. Feed supplies plentiful.

**MINNESOTA:** Temperatures 11 to 18° above normal. Extremes -11°; 60°. Precipitation trace to 0.07 in. Greatest weekly total 0.10 in.

**MISSISSIPPI:** Warm, wet. Temperatures 6° above normal. Extremes 26°; 75°. Rainfall 2.19 in., 1.03 in. above normal.

Days suitable for fieldwork 0.8. Soil moisture surplus to excessive. Wheat fair; farmers awaiting clear weather to apply nitrogen. Livestock good. Pastures fair, becoming muddy. Hay, feed grain supply adequate. Warm temperatures causing fruit trees to bloom too early.

**MISSOURI:** Rainfall over 1.00 in. confined to extreme south, some Bootheel streams at flood stage. Precipitation northern counties light to none. Temperatures continuing well above normal.

Topsoil adequate to surplus extreme south, short to adequate elsewhere. Most wheat fields green, growth underway. Farmers planning for spring crops, still too early for field activities. Warm weather favorable for calving.

**MONTANA:** Temperatures 5 to 15° above normal across State. Precipitation above normal west. Elsewhere most amounts less than 0.10 in.

Winter wheat mostly fair to good. Snowcover protection poor. Wind damage occurred weekend. Considerable soil blowing. Livestock good. Calving, lambing underway.

**NEBRASKA:** Warm, dry. Temperatures 10° in Panhandle up to 17° above east. No precipitation. Extremes 9°; 65°.

**NEVADA:** Week began with end of strong cold front producing light dusting snow most areas. Fast moving front midweek brought heavier snows north, central sections. Temperatures dipped to -22° northeast. Light snow showers, cloudy skies common northwest end of period. Skies mostly sunny remainder areas.

Feeding, caring livestock main ranch, farm activities.

**NEW ENGLAND:** Precipitation (rainfall, water equivalent of snow) averaged less than 0.50 in. coastal Connecticut, 0.50 to 1.00 in. remainder. Temperatures upper teens northern Maine to mid 30s Rhode Island, coastal areas of Massachusetts, Connecticut. Temperatures 5 to 10° above normal.

Major farm activities: Repairing machinery, tending livestock, moving crops from storage.

**NEW JERSEY:** Temperatures much above normal, 38° north, 42° south, 45° coastal. Extremes 18°; 67°. Precipitation near normal; 0.84 in. north, 0.64 in. south, 0.43 coastal. Heaviest 24 hour total 0.63 in. 9th, 10th. Heaviest 24 hour snowfall 0.50 in. 11th, 12th.

Farmers performed machinery maintenance, repair; livestock tending; normal winter chores.

**NEW MEXICO:** Above normal temperatures. Meager amounts of rain, snow fell mostly in the mountainous areas.

**NEW YORK:** Unseasonably warm. Temperatures 7° above normal Hudson Valley to 12° above normal Northern Plateau. Extremes -12° at Messena, 5th; 62° at New York City, 9th. Precipitation was above average in eastern areas, below average elsewhere. Totals 0.16 in. at Messena to 1.33 in. at Stillwater Reservoir.

Activities: Caring for livestock, spreading manure, moving crops from storage, maintaining machinery, attending meetings.

**NORTH CAROLINA:** Temperatures 8 to 13° above normal across the State. Precipitation 0.22 to 4.80 in.

Days suitable for fieldwork 3.8. Soil moisture, 74% adequate, 26% surplus. Pasture 2% very poor, 15% poor, 46% fair, 37% good. Livestock feed from pasture 30%. Crop condition: Wheat, 1% poor 40% fair, 59% good; oats 1% poor, 42% fair, 57% good; barley 42% fair, 58% good; rye 3% poor, 36% fair, 61% good; tobacco plant beds 39% fair, 58% good, 3% excellent. Hay, roughage supplies 1% short, 92% adequate, 7% surplus. Feed grain supplies 3% short, 95% adequate, 2% surplus. Activities: Preparing, seeding tobacco beds, tending livestock, land preparation, general farm maintenance.

**NORTH DAKOTA:** Mild, dry week. Temperatures 14° above normal southwest to 19° above normal central. Extremes -10° northeast; 54° west central, central. Precipitation none except 0.01 in. south central.

Soil moisture below normal. Snowcover insufficient for adequate protection of winter seedings, alfalfa. Livestock good, received supplemental forages. Feed supplies mostly adequate, warm weather stretched supplies. Roads open, dry.

**OHIO:** Unseasonably mild; temperatures 10 to 15° above normal. Highs mid 40s to low 50s. Lows upper 20s to mid 30s. Precipitation 0.10 to 0.50 in. north; 0.60 to 1.50 in. south.

Soils fairly wet; some standing surface water. Very little fieldwork because of wet soils. Farmers waiting to spread manure, fertilizer. Grass, winter wheat green; no significant growth.

**OKLAHOMA:** Temperatures 9° above normal south central to 13° above normal central, east central. Precipitation none north central to 0.60 in. east central.

Warm temperatures, some rain induced wheat pasture growth. Topdressing continuing. Cattle good, feed cattle prices lower than preceding week.

**OREGON:** Temperatures in western areas near normal north, 2 to 3° below normal southwest interior. East Cascades temperatures 3° above normal Columbia Basin, near normal north, 2 to 6° below normal south. Precipitation heavy along coast, Cascades 5.00 to 8.00 in. Rainfall in western valleys 1.00 to 2.00 in. east of Cascades precipitation very light 0.50 in. or less.

Soil moisture adequate to surplus west, short to adequate east. Winter wheat fair to good east, good to excellent west. Fruit, nut trees being pruned, caneberries being pruned. Winter vegetables finishing. Livestock fair to good, mostly good. Range, pastures fair to good. Hay supplies adequate southeast, mild winter east allowing extra grazing.

**PENNSYLVANIA:** Warm across the Commonwealth with near normal precipitation. Temperature 37°, 11° above normal. Extremes 14°; 64°. Precipitation 0.66 in., 0.05 in. above normal.

Activities: Spreading manure, caring for livestock; grading potatoes, chopping wood, fixing fence, maintaining machinery.

**SOUTH CAROLINA:** Temperatures 7° above normal upstate to more than 10° above near the south coast. Rainfall 2.00 in. northwest to less than 0.50 in. over the northeast.

Farm activities included care of tobacco seedbeds, applying nitrogen to small grains, land preparation for spring planting, general farm maintenance.

**SOUTH DAKOTA:** Temperatures 3 to 18° above normal. Extremes -3°; 64°. Precipitation below normal all areas except one at 0.05 in. above normal. Melted precipitation none to 0.28 in. Yearly precipitation below normal entire State. Range 0.11 to 0.76 in. below normal. Snowcover limited to Black Hills area maximum 4.00 in.

**TENNESSEE:** Weak cold front moved through State from west 6th, 7th with generally light rain. Another cold front moved through State from west 9th, 10th with much heavier rainfall. Temperatures several degrees above normal. Precipitation above normal statewide. Rainfall 1.00 to 2.00 in. common, local amounts in excess of 3.00 in.

Soil moisture mostly adequate to surplus. Winter wheat mostly fair to good. Minimal disease problems. Wheat beginning to grow due to mild temperatures. Fruit good. Some fruit trees beginning to bud out early, which concerns growers because hard freezes still very likely. Hay, roughage supplies mostly adequate. Livestock responding favorably to Spring like weather. Primary activities: Routine care of livestock, poultry, catfish; lambing; preparing plantbeds; repairing, maintaining equipment; spraying, pruning fruit trees; planting pine trees; soil testing.

**TEXAS:** Spring like temperatures prevailed. Early week upper air disturbance brought light rain far south, south central. Temperatures much above normal midweek, another disturbance produced some showers coast, east. Cold front, stronger upper air disturbance triggered thunderstorms Blacklands, eastern areas late week. Heavy rainfall amounts northeast, east central counties. Temperatures cooled slightly, then warmed. Although all areas rain, amounts below normal statewide. Temperatures above normal.

Crops: Small grains making good progress with warm weather, good moisture, more moisture needed to promote good growth fields, pastures. High Plains dry, some producers irrigating. Some oats good stands, slow growth. Most oat fields not recovered from late December freeze.

Commercial Vegetables: Rio Grande Valley, growers harvesting cabbage, lettuce. Melon planting increase. Onions progressing well, only moderate insect, disease problems. San Antonio Winter Garden, spinach for processing recovered well from December freeze. Peach producers Lower Valley soon begin post bloom spray applications for pests. East trees pink bud, early bloom. Pruning still active.

Range and Livestock: Range, pasture conditions mostly unchanged, most ranchers continued supplemental feeding. Winter forages excellent growth some areas. Calving in progress. Livestock fair to good.

**UTAH:** Precipitation moderate over mountainous areas, light elsewhere. Temperatures 3° above normal.

Snow pack in mountains improved, fall grain snowcover remains short. Russian Wheat aphid population spreading because of mild winter in Utah County. Potential for serious aphid problems in spring very high. Cattle on feed have done well due to mild winter. Calving, lambing also progressed well in moderate weather.

**VIRGINIA:** Temperatures unseasonably warm about 12° above normal. Extremes 22°; 77°. Rainfall normal 0.34 to 1.46 in.

Days suitable for fieldwork 2.7. Topsoil 23% surplus, 77% adequate. Winter grains, grazing

crops 51% good, 45% fair, 4% poor. Forage from pastures, dairy cattle 4%, beef cattle 18%, sheep 19%. Topdressing, lambing, calving, soil tests, pruning, maple tree tapping, preparing tobacco plantbeds.

**WASHINGTON:** Temperatures 1° below normal to 7° above normal, east; 2° below normal to 2° above normal, west. Precipitation none to 0.73 in., east; 1.50 to 4.93 in., west.

Days suitable for fieldwork 1.6. Soil moisture 31% short, 67% adequate, 2% surplus. Range, pasture 65% short, 35% adequate. Hay, other roughage 20% very short, 30% short, 50% adequate. Heavy precipitation reduced activity in western area, caused concern for flood damage. Eastern area still has areas with moisture shortages, lack snowcover to protect the winter wheat from a hard frost. Eastern farmers were preparing fields, weeding, planting wheat, pruning fruit trees, calving, lambing. Winter wheat 1% poor, 21% fair, 78% good. Activities in the rest of the State included livestock winter feeding programs, caning raspberry fields.

**WEST VIRGINIA:** Temperature 42°, 7 to 14° above normal. Extremes 12°; 69°. Precipitation 1.57 in. above normal. Heavy rains evening 9th, 10th measuring up to 1.75 in. Snow 11th with depth up to 6.00 in. over high mountains.

**WISCONSIN:** Temperature 29°. Extremes -11°; 60°. Precipitation none to trace. Snowfall 0.50 to 1.50 in. west central to southeast on 11th. Trace amounts across far north. Mild temperatures. Frost depth 25.4 in., average 16.9; snow depth 4.30 in., average 10.9 as of 11th.

**WYOMING:** Temperatures generally above normal. Precipitation below normal.

Winter wheat fair to good, additional moisture needed. Livestock mostly good. Supplemental feeding continues most areas. Early calving underway. Lambing, shearing farm flocks underway.

# International Weather and Crop Summary

## HIGHLIGHTS

February 4-10, 1990

**WESTERN USSR** ... The fifth consecutive week of unseasonably warm weather causes further melting of protective snow cover.

**NORTHWESTERN AFRICA** ... Dry weather covers winter grains in Morocco, Algeria, and Tunisia.

**EUROPE** ... Storminess persists across sections of the northwest. Much-above-normal temperatures continue in most crop areas.

**SOUTH ASIA** ... Light rain benefits immature wheat in central India and the northwest. Temperatures continue above normal.

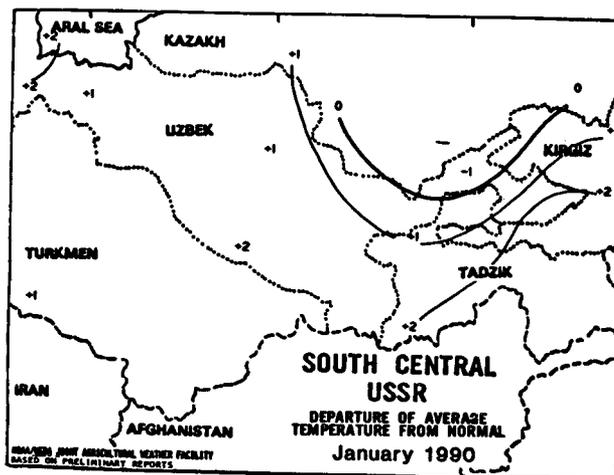
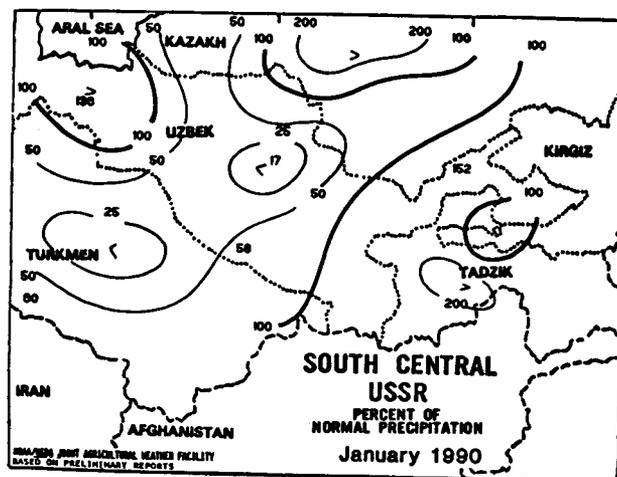
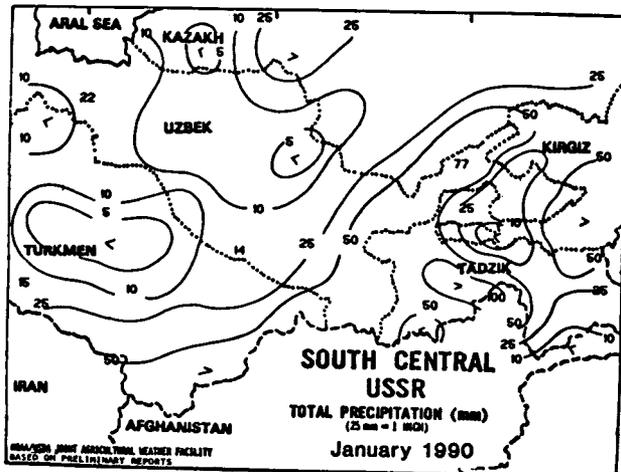
**EASTERN ASIA** ... Moderate to heavy rain continues in sections of the Yangtze Valley. Above-normal temperatures return to winter crop areas.

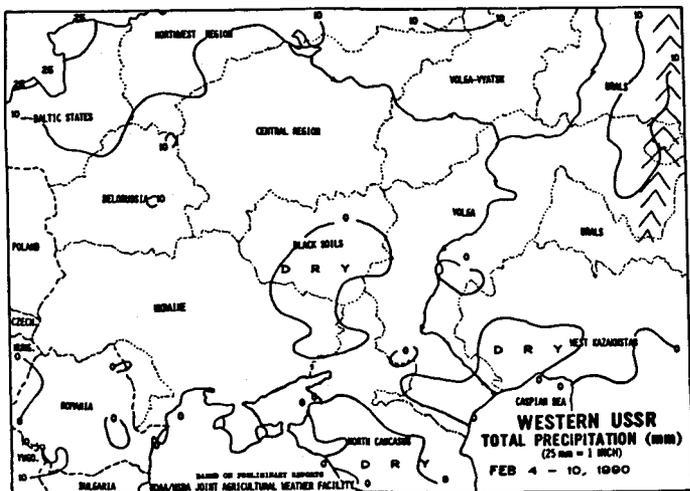
**SOUTHEAST ASIA** ... Rainfall tapers off over Java, relieving flooded areas. Dry weather persists in the eastern Philippines.

**SOUTH AFRICA** ... Showers benefit late-planted corn in the western Maize Triangle.

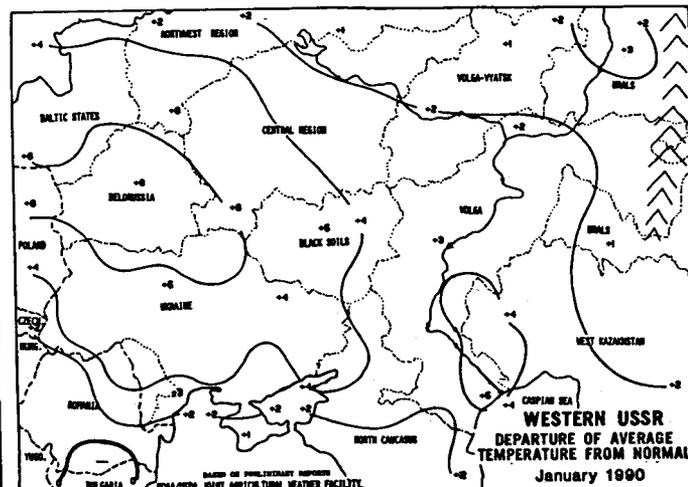
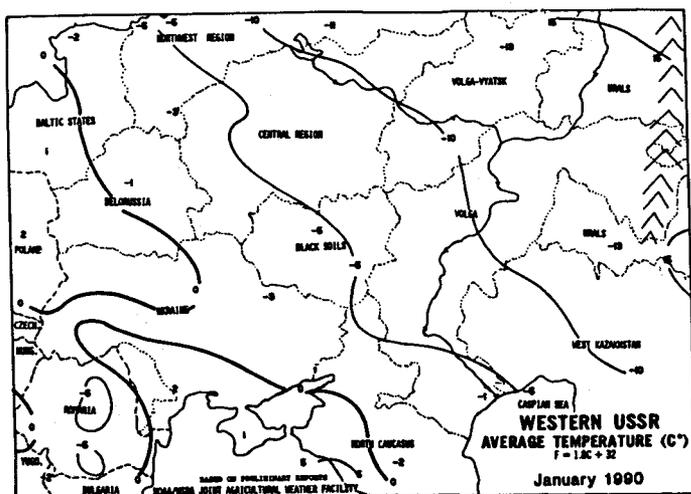
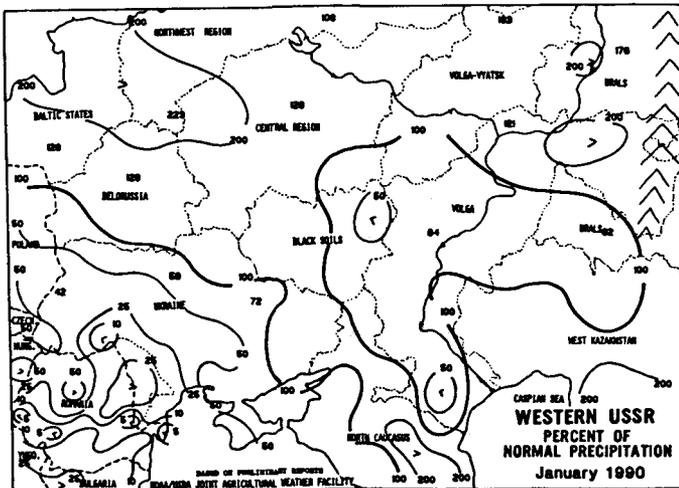
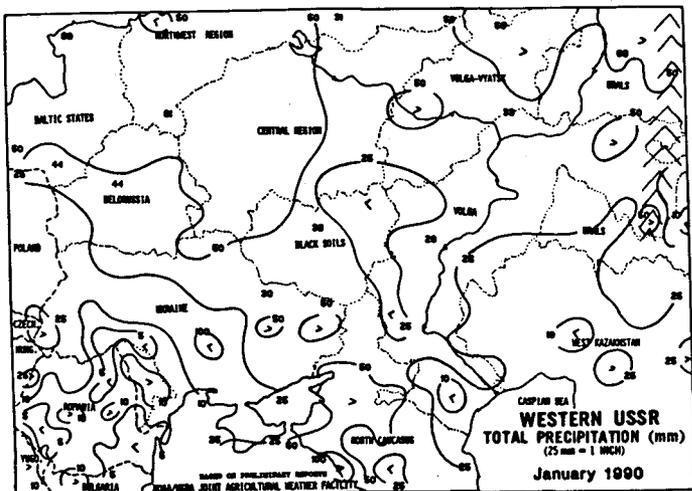
**SOUTH AMERICA** ... Substantial rain benefits summer crops in Argentina. Light showers cover soybean areas of south-central Brazil.

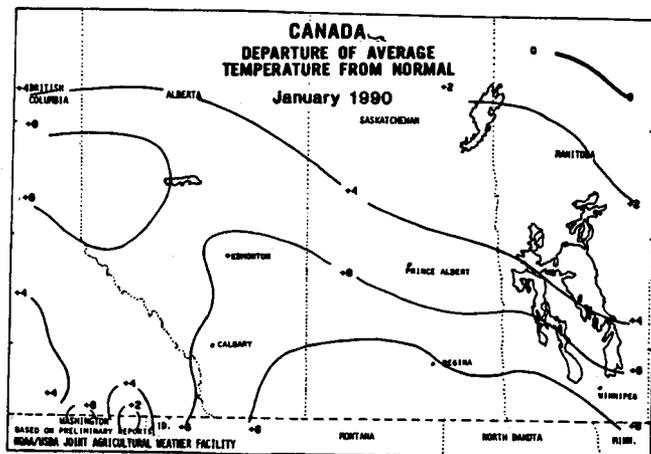
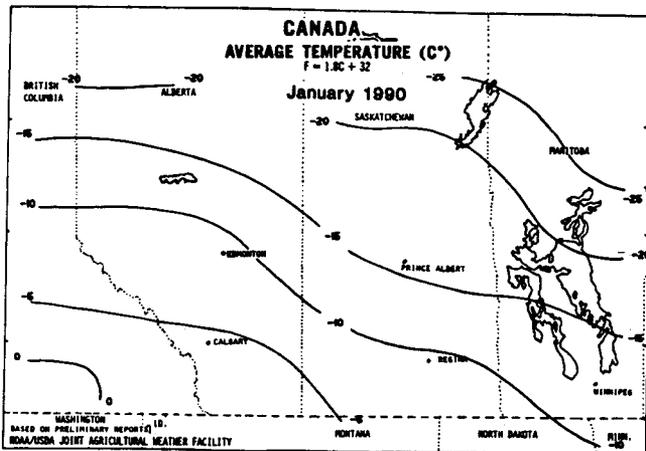
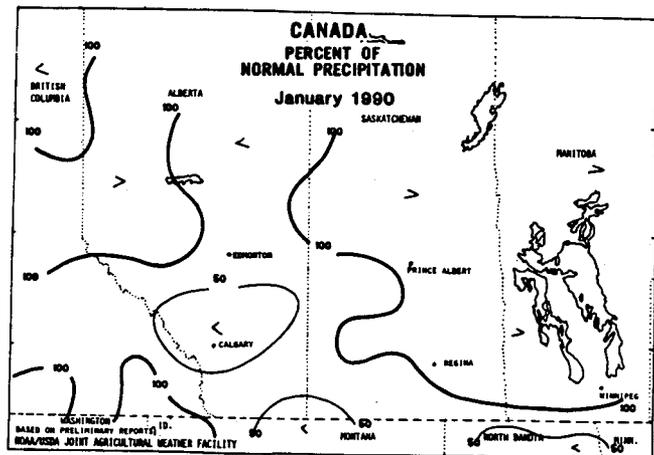
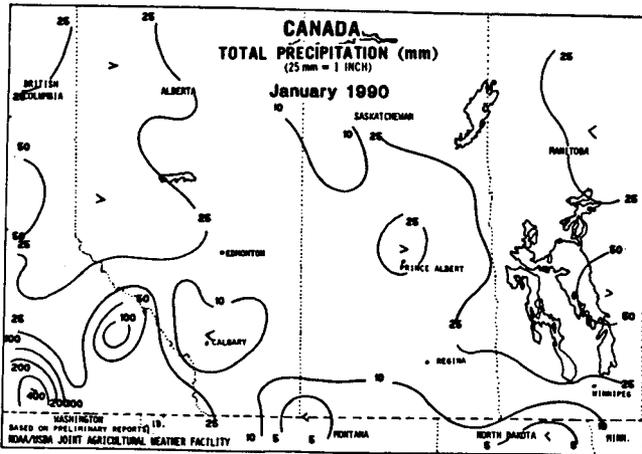
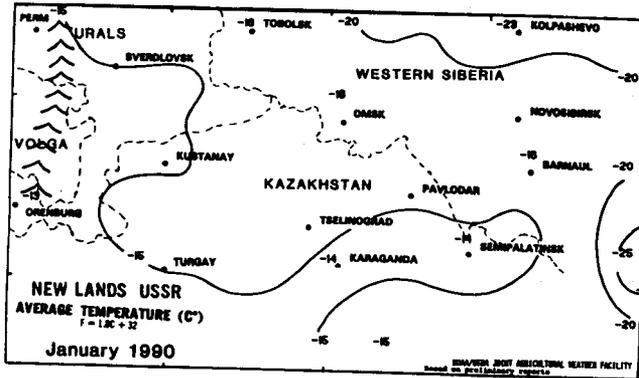
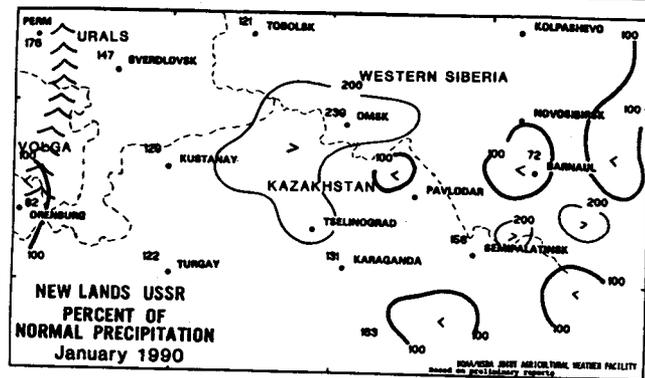
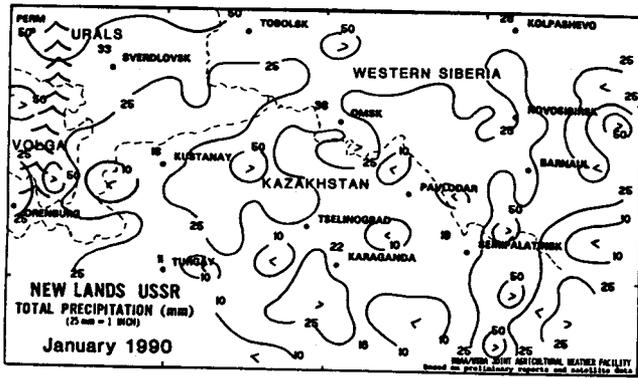
**AUSTRALIA** ... Rain benefits sugarcane and summer crops in sections of New South Wales, while Queensland remains unfavorably dry.

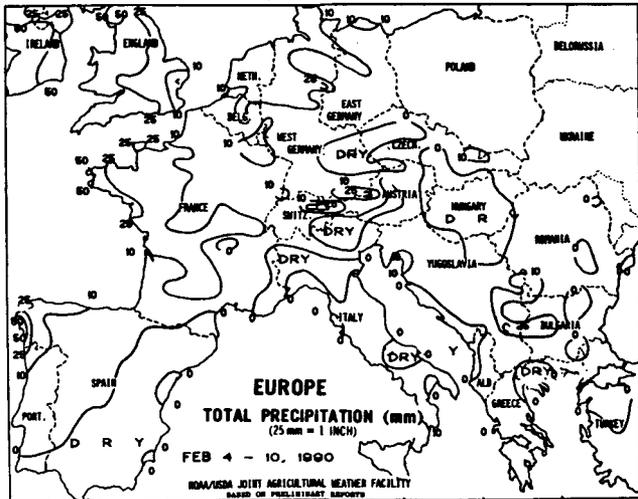




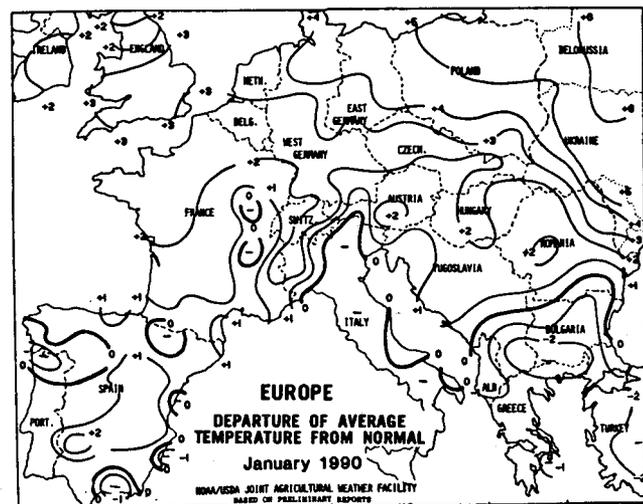
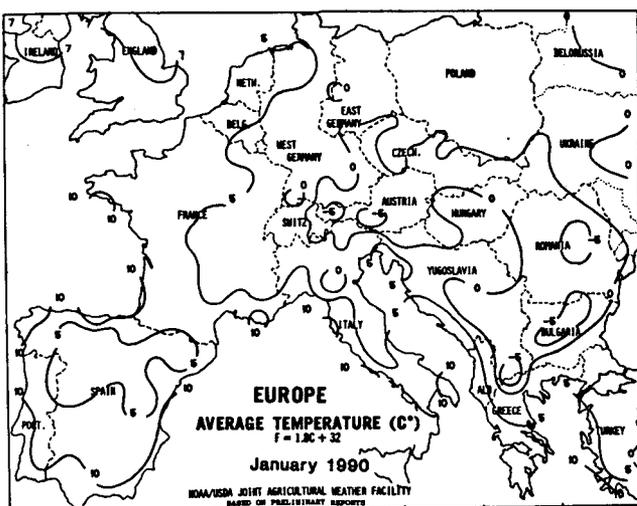
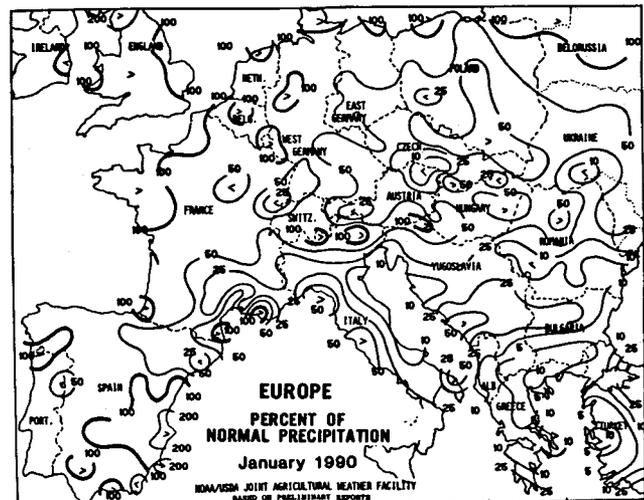
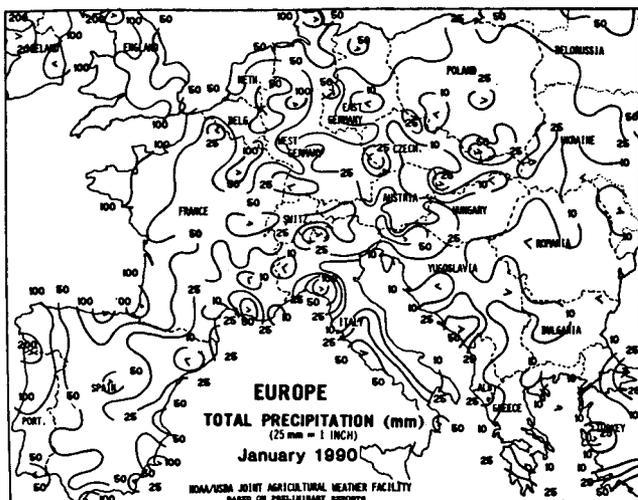
**WESTERN USSR** ... The 5th consecutive week of unseasonably warm weather continued over most of the region, causing further melting of protective snow cover. Weekly average temperatures were 6-12 degrees Celsius (C) above normal in the north and 2-6 degrees C above normal in the south. Light precipitation (less than 10mm) continued over most of the region. In January, above-normal precipitation increased moisture reserves in the Baltic States, Belorussia, Central Region, Volga Vyatsk, western Black Soils Region, the eastern Ukraine, and parts of the North Caucasus. In contrast, there was below-normal precipitation in the western and southern Ukraine, the eastern Black Soils Region, and the Volga. Unusually mild weather covered the entire region during most of January. Monthly average temperatures were 2-4 degrees C above normal in the east and south, and 4-6 degrees C above normal in the west. Although January's unseasonably warm weather provided generally favorable conditions for winter grains, it left crop areas in the Baltic States, Belorussia, the Ukraine, and the western North Caucasus without a protective snow cover and caused winter grains to lose hardiness, making them more susceptible to potential winterkill.



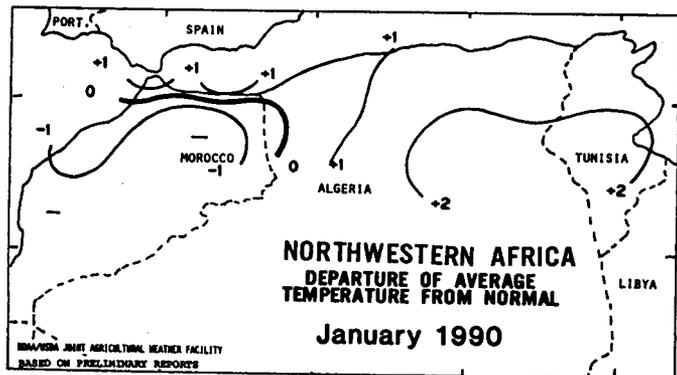
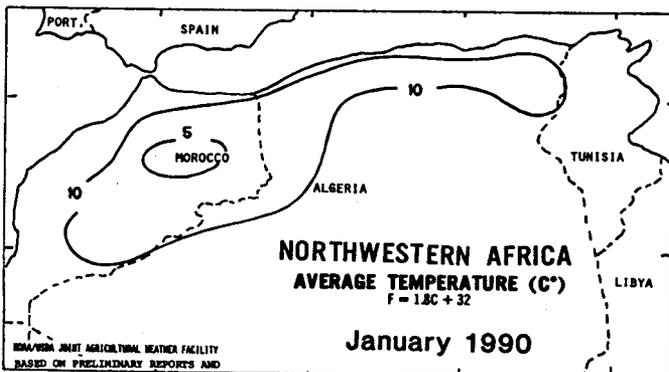
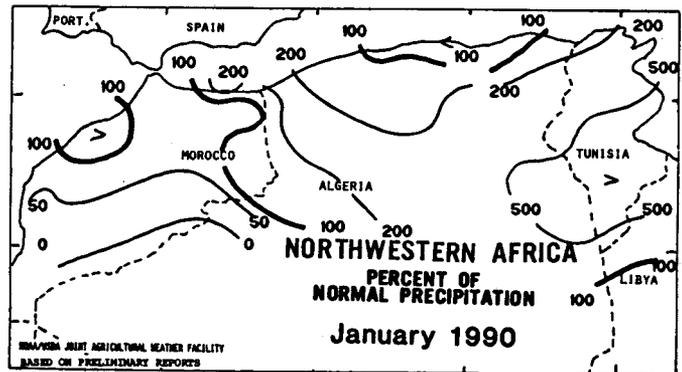
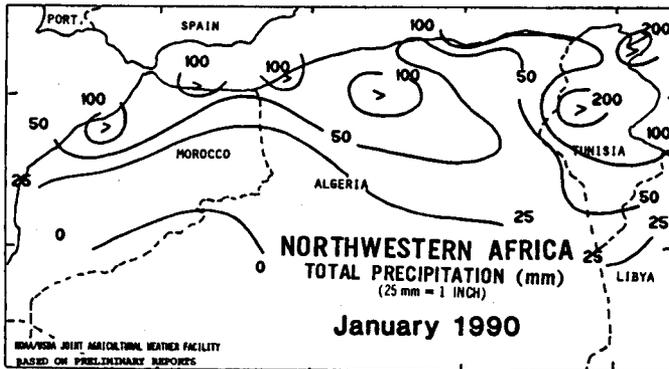
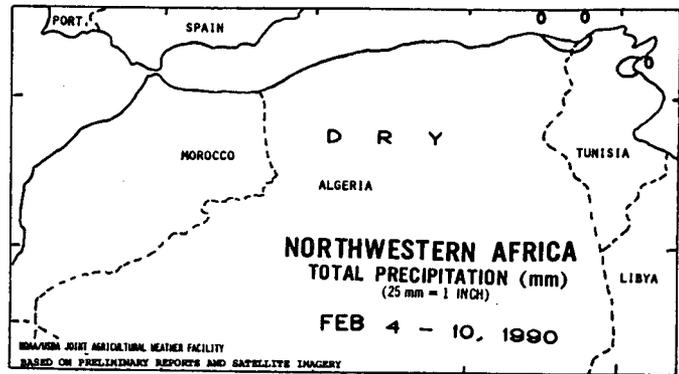


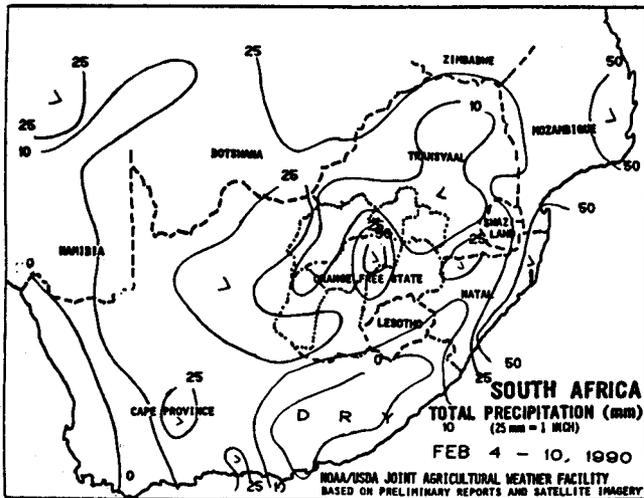


**EUROPE** ... Storminess continued for the 3rd consecutive week across the northwest, including further high winds and property damage in sections of northern France, Benelux, and West Germany on the 4th and 5th. Heavy rain (25-60mm, with isolated amounts in excess of 60mm) associated with the storms fell across Ireland, Great Britain, northwestern France, and southern Scandinavia. Light to moderate rain (5-20mm) fell from southern France northeastward to Poland. In the south, scattered, mostly light rain (less than 10mm) favored early season growth of winter grains in some areas, although below-normal precipitation during January and much of the fall has left soil moisture and irrigation reservoir levels at unfavorable low levels across sections of southern France, northern Italy, and the Balkans. Much-above-normal temperatures (mean weekly temperatures 3-10 degrees C above normal) persisted across nearly all crop areas, continuing a trend since mid January. The warmer-than-normal weather has caused some winter crops to break dormancy several weeks earlier than normal across the south and west.

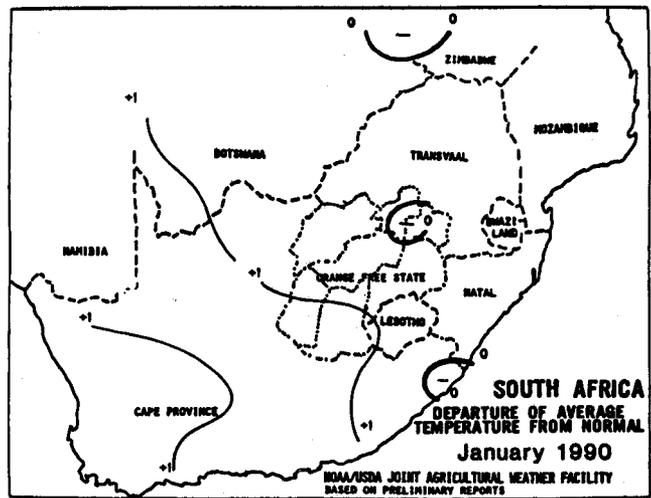
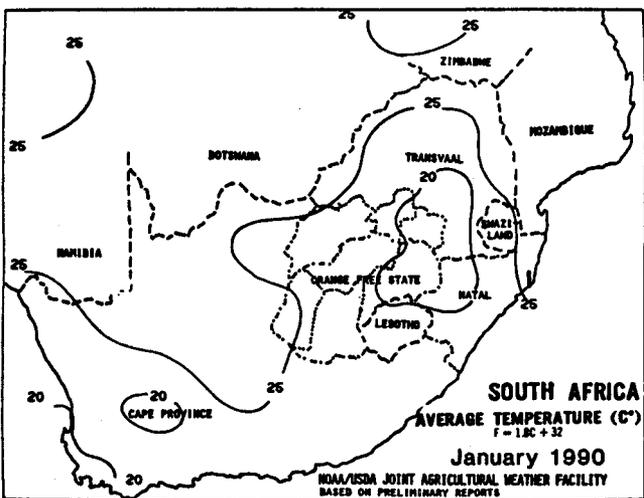
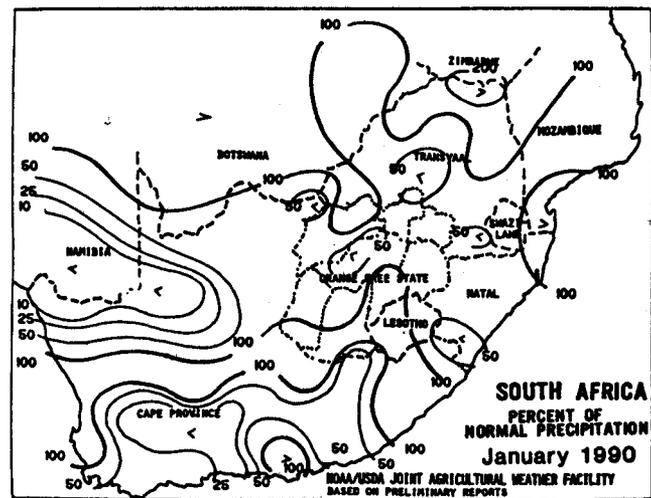
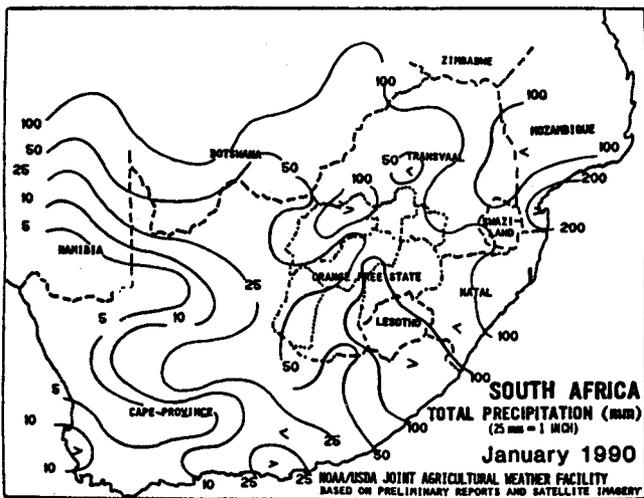


**NORTHWESTERN AFRICA** ... Dry weather covered winter grains in Morocco, Algeria, and Tunisia. In Morocco, below-normal precipitation in January covered most winter grain areas, except for crop areas surrounding Casablanca, where precipitation was above normal. In Algeria, above normal January precipitation in western areas improved conditions for winter grains. However, below-normal precipitation in central areas continued an inadequate rainfall pattern which has covered crop areas since the beginning of the growing season. In Tunisia, above-normal January precipitation reversed a drying trend, benefiting winter grains in the vegetative stage. Subsoil moisture throughout most of the region is limited. Winter grains are currently in the jointing stage and usually advance through reproduction in March and April, the period in the crop's growth cycle when moisture requirements are their highest. As a result, timely rains will be needed in upcoming weeks to prevent significant declines in crop yield potential.

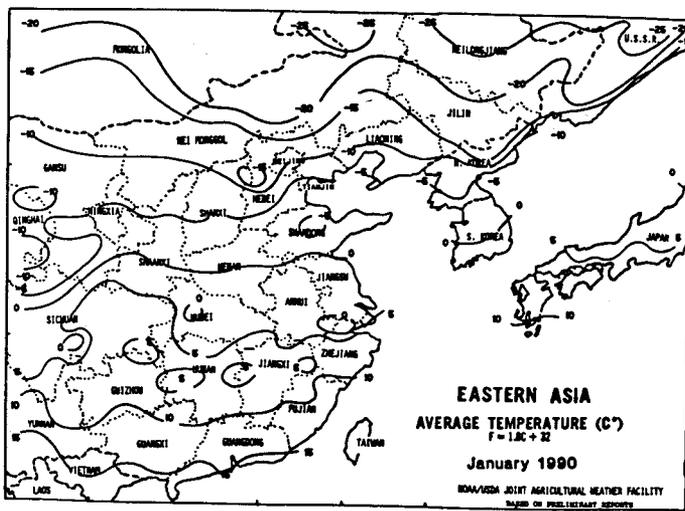
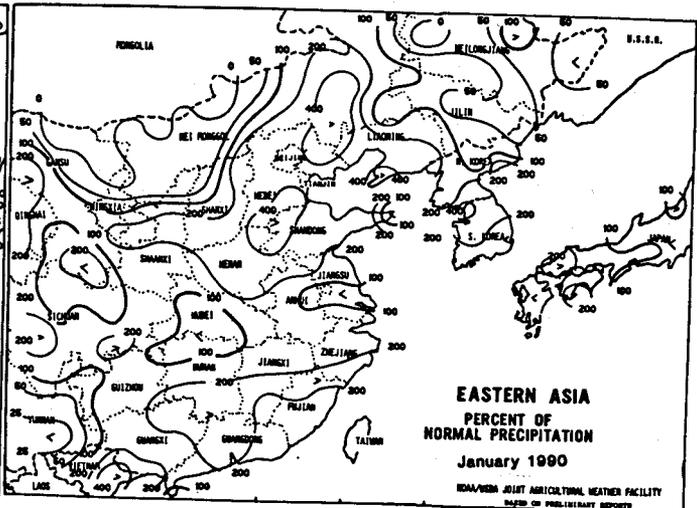
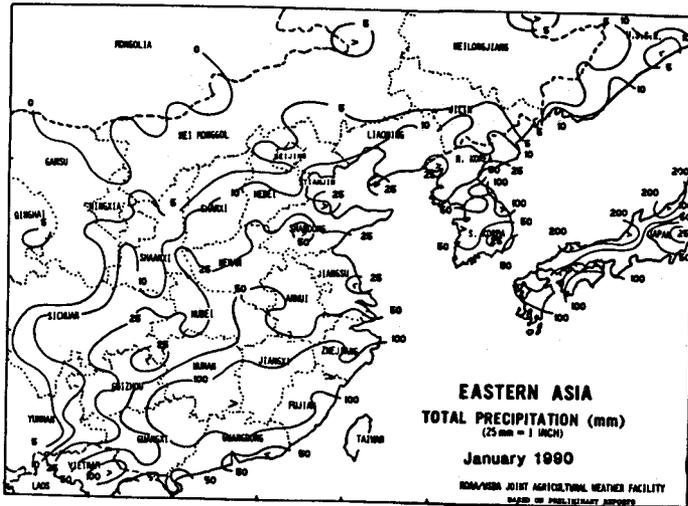
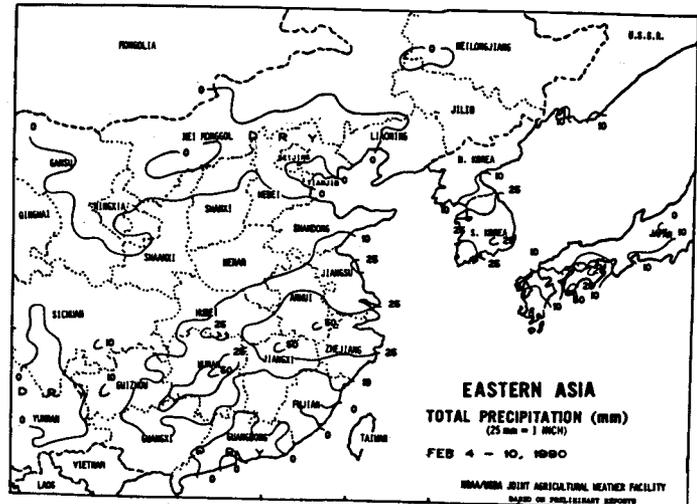


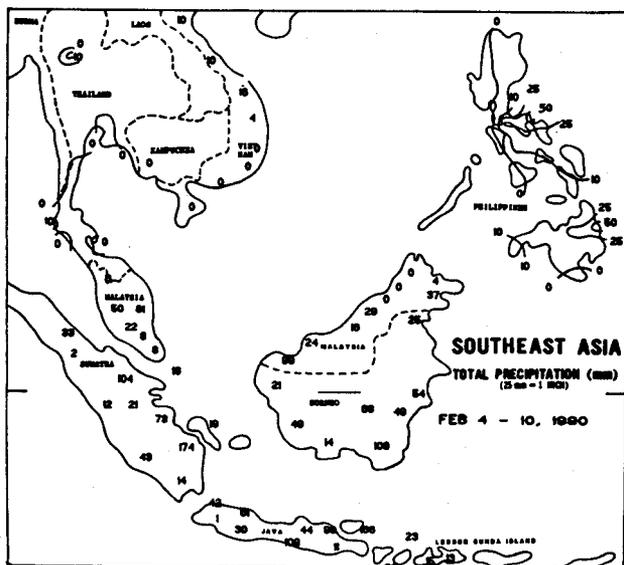


**SOUTH AFRICA** ... Moderate to heavy showers (15-64mm) benefited late-planted crops in the western Maize Triangle, but came too late to help November planted corn nearing maturity. Rainfall was heaviest over the Orange Free State and northern Cape Province as light rain (1-15mm) fell across the southern Transvaal. Rainfall ranged from 5 to 34mm over most other corn regions, but heavy rain (56-92mm) covered Natal's sugarcane regions. Temperatures continued to average below normal across the primary corn regions, with highs in the mid to upper 20's C. In January, rainfall was below normal over most of the Maize Triangle, with less than 50 percent of normal rainfall in local areas of the central Orange Free State and southern Transvaal. Timely, near- to above-normal rainfall, however, in the eastern and northwestern Maize Triangle benefited reproductive crops. Despite the dryness, January temperatures were seasonable, with hot weather limited to westernmost crop areas.

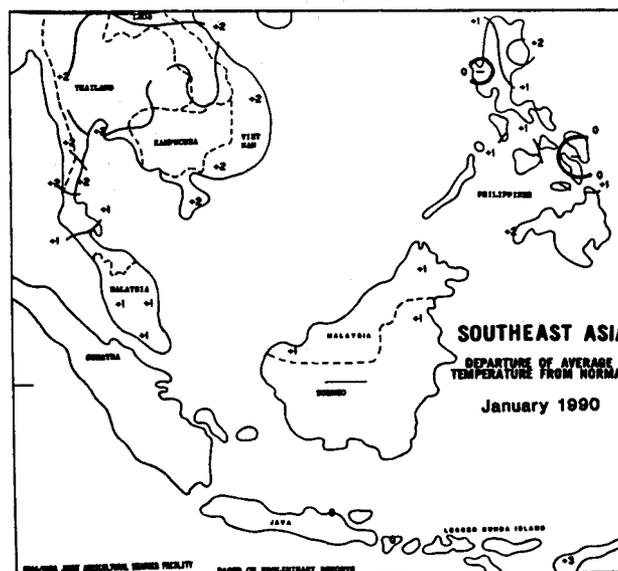
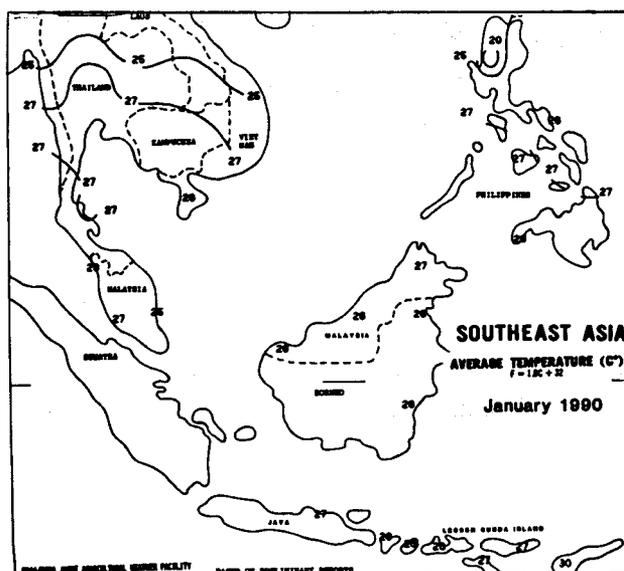
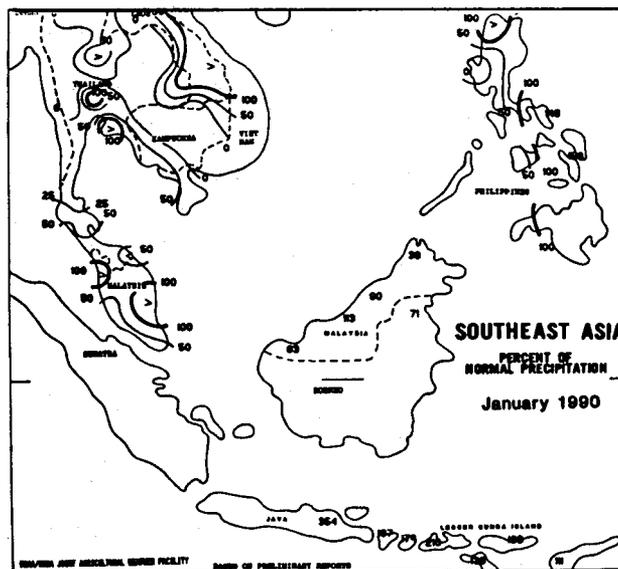
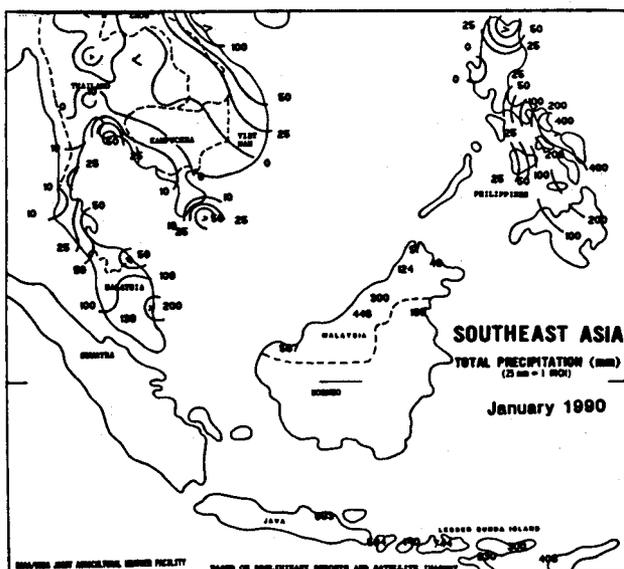


**EASTERN ASIA** ... Moderate to heavy rain (10-40mm, with isolated amounts in excess of 50mm) continued across middle and upper sections of the Yangtze Valley, keeping soil moisture at high levels prior to greening of winter crops. Scattered light rain (mostly less than 10mm) in southern China ended a wetter-than-normal pattern that persisted over the southeast during January and early February. Above-normal precipitation also fell across much of the remainder of China, including the North China Plain. In the east, moderate to heavy rain and snow (10-40mm) fell across southern and eastern sections of the Korean Peninsula, while scattered, mostly light rain and snow (less than 10mm) and drier weather covered Japan. Above-normal temperatures (2-6 degrees C above normal) returned to winter grain areas in China, following abnormally cold weather the preceding week. Mean temperatures during January were below normal in the north and above normal elsewhere.

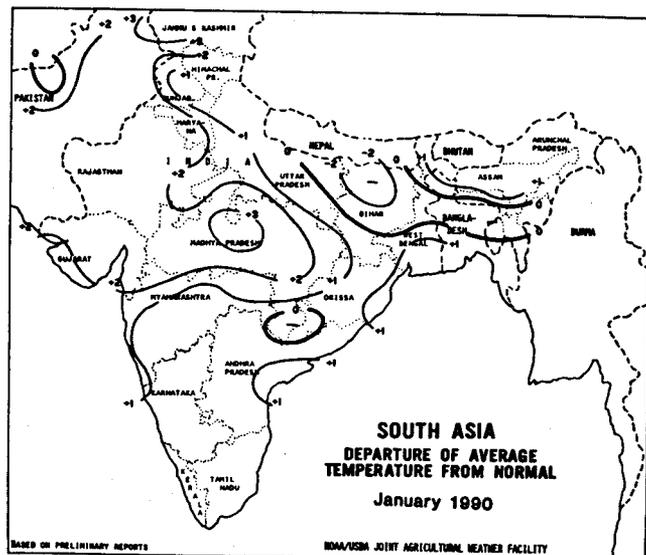
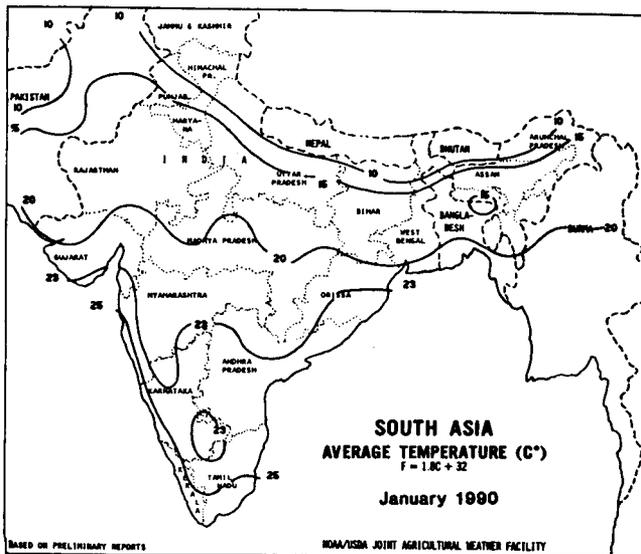
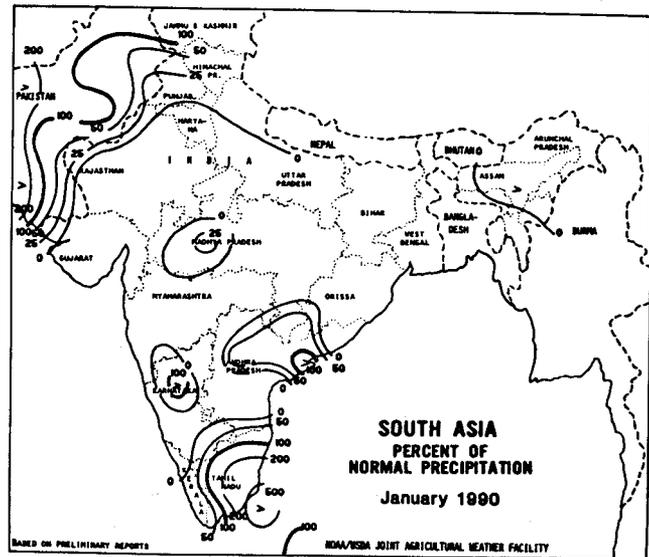
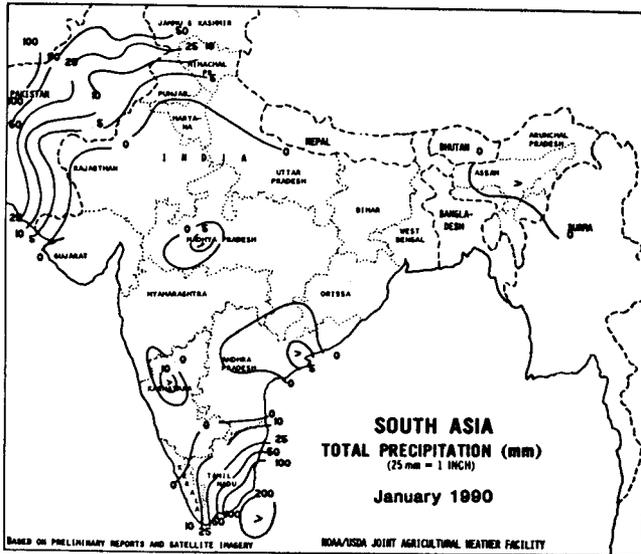
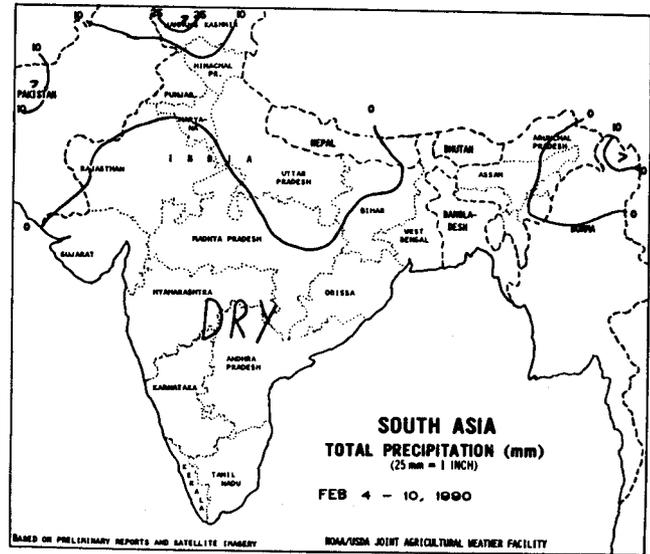


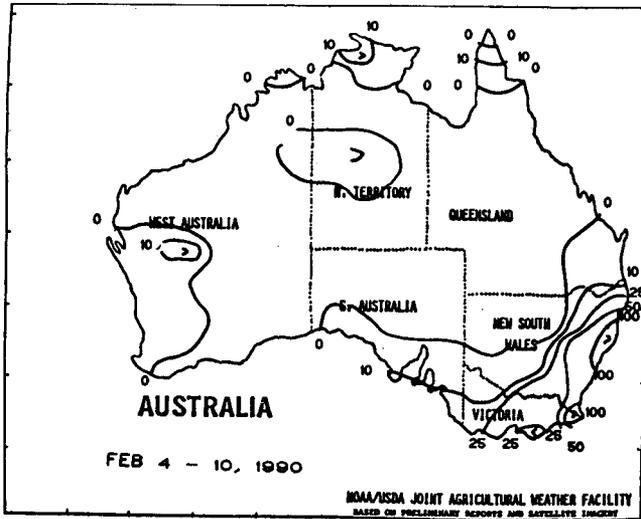


**SOUTHEAST ASIA** ... Scattered showers continued over Malaysia and Indonesia, but amounts were less than in recent weeks, as only local areas received 50mm or more. Rainfall ranged from 10 to 61mm in previously flooded areas of northwestern Java but exceeded 100mm over local areas of the southern coast. In the Philippines, rainfall continued to be below normal over much of the east, but moderate rain (28-58mm) fell over local areas of southern Luzon and northeastern Mindanao. In January, rainfall was near to above normal over most of Indonesia and Malaysia. Excessive rain in late January caused flooding and crop damage in northern Java. Drier-than-normal conditions continued, however, over peninsular Thailand and portions of western Malaysia. In the Philippines, an erratic rainfall pattern continued, but periodic heavy showers provided near- to above-normal rainfall from southeastern Luzon to northeastern Mindanao. January temperatures averaged 1-2 degrees C above normal over most of the Philippines.

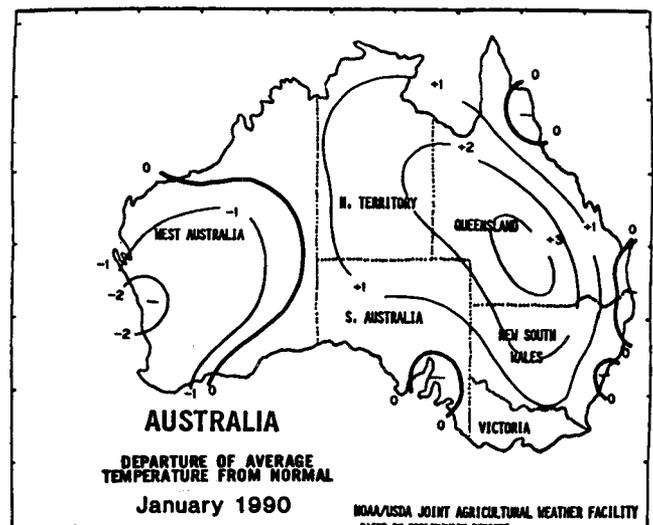
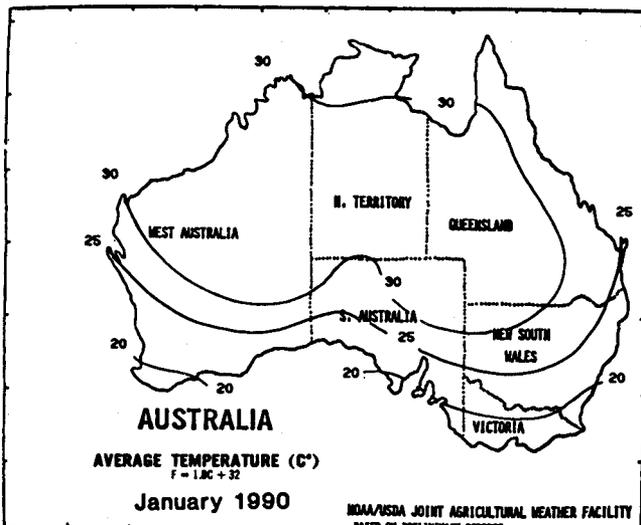
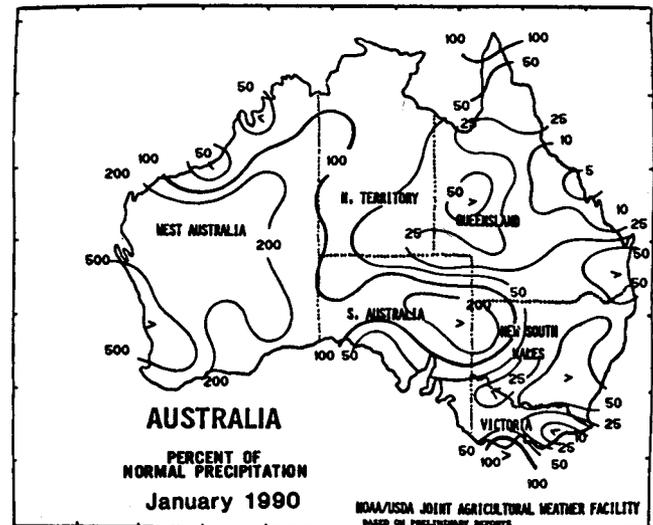
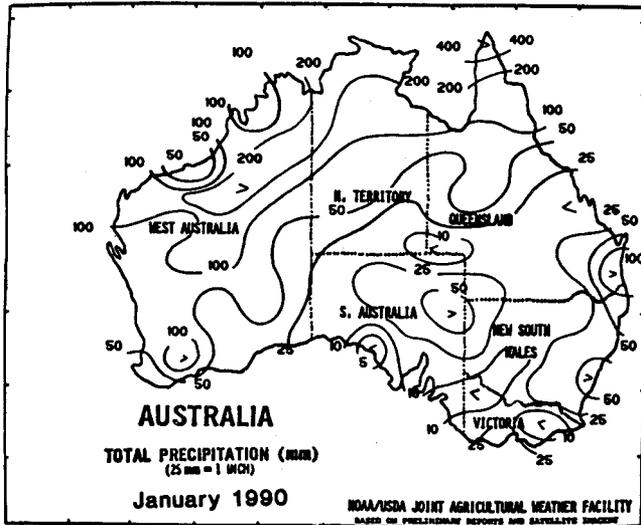


**SOUTH ASIA** ... Light rain (1-11mm) covered winter wheat areas of Madhya Pradesh, Punjab, Haryana, and northern Pakistan as dry weather continued elsewhere. Temperatures again averaged 2-4 degrees C above normal, hastening growth of reproductive to filling wheat and benefiting cotton harvesting and late rice planting. In January, scattered rain fell across northern Pakistan and northernmost India, increasing local irrigation reserves. Variable rain (10-50mm or more) fell early in the month over Tamil Nadu, but elsewhere, only scattered, light rain occurred. January temperatures averaged above normal over Pakistan and central and northwestern India, increasing growth of winter wheat ranging from the vegetative to filling stages of development.

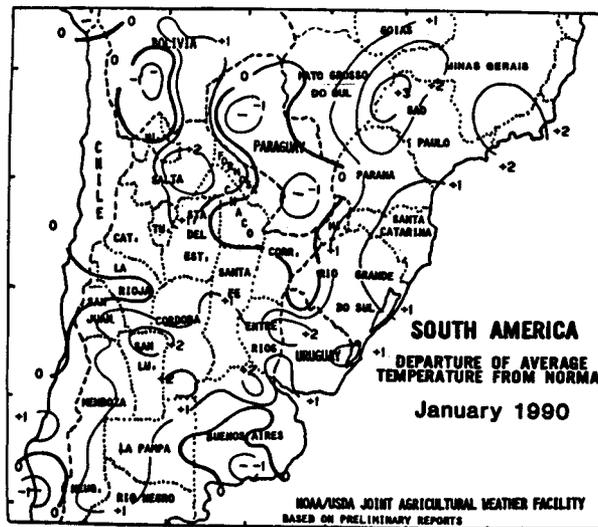
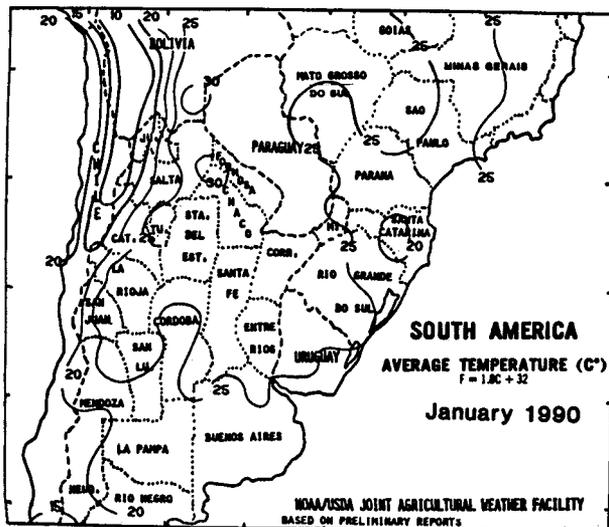
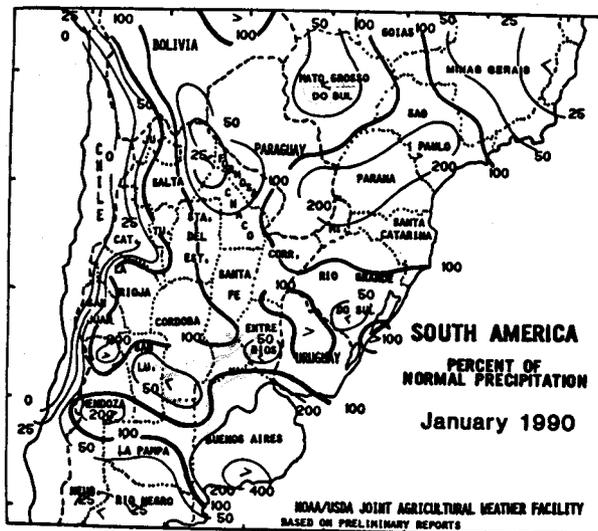
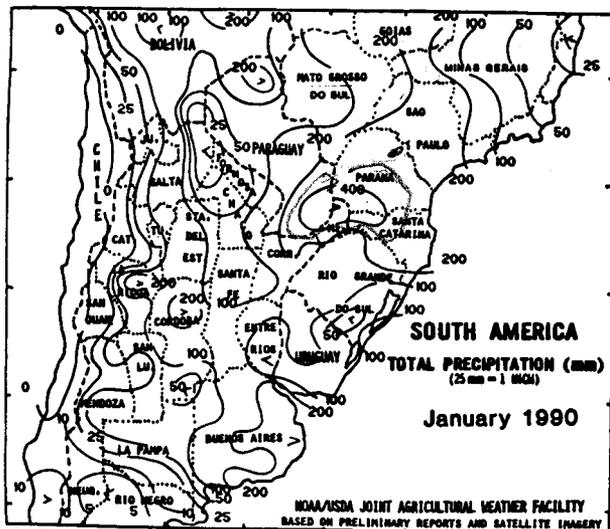
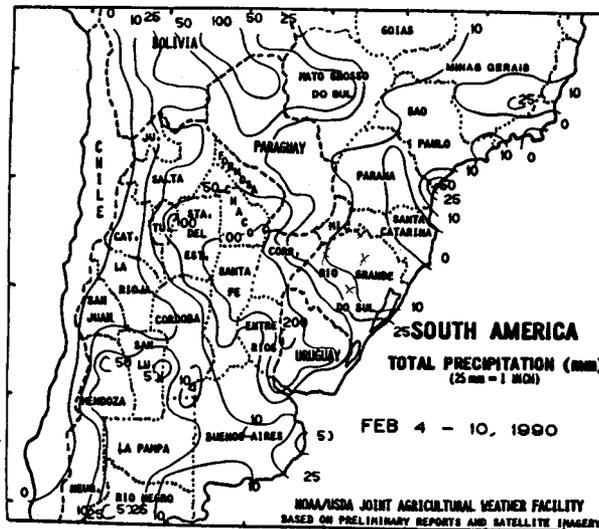


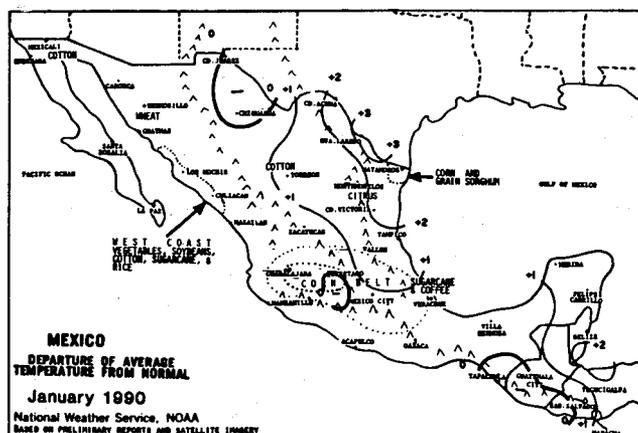
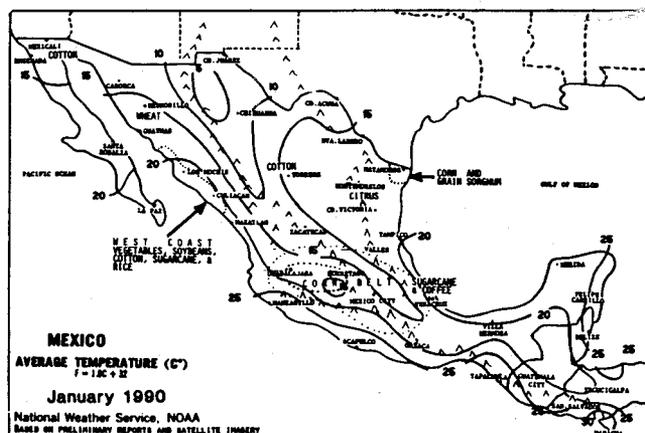
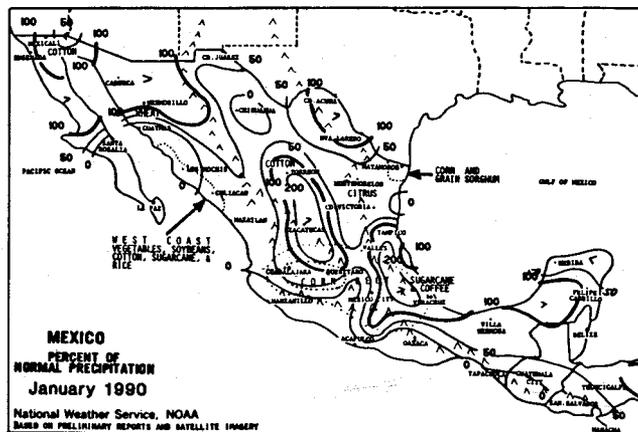
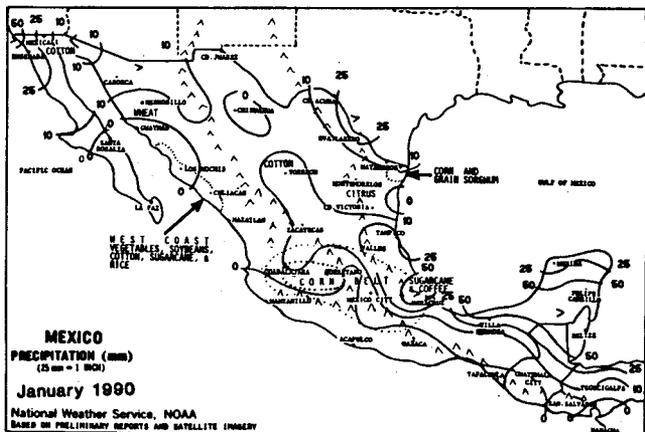


**AUSTRALIA** ... Moderate to heavy rain (10-60mm, with isolated amounts in excess of 60mm) fell across eastern New South Wales, including eastern summer crop areas. The rain greatly benefited vegetative sugarcane and vegetative to filling summer crops, although northern summer crop and sugarcane growing areas in Queensland remained unfavorably dry. Much-below-normal rainfall and above-normal temperatures during January and early February in most eastern crop areas stressed unirrigated crops and delayed planting of summer sorghum. Elsewhere, heavy rain (20-40mm) continued for the 2nd consecutive week in Victoria, while scattered light showers (less than 10mm) fell in southwestern crop areas. Below-normal temperatures (1-6 degrees C below normal) covered all but extreme southwestern and coastal northeastern Australia, where they were above normal.



**SOUTH AMERICA** ... In Argentina, substantial rain (25-82mm) benefited soybeans in southern Santa Fe and northern cotton areas, and maintained generally favorable growing conditions for summer crops in Buenos Aires. Much-needed rain (10-16mm) fell in southern Cordoba. A relatively small area along the borders of northwestern Buenos Aires, northeastern La Pampa, and southeastern Cordoba continue to receive only light rainfall (less than 10mm), leaving summer crops with marginal soil moisture in those areas where January rainfall averaged well below normal. Monthly rainfall was also below normal in southern Santa Fe, and two episodes of unseasonable heat aggravated stressful conditions. Near- to above-average January rains helped crop development in central and eastern Buenos Aires. In south-central Brazil, mostly light showers (less than 10mm) covered the major soybean areas of Rio Grande do Sul and Parana for the second consecutive week. Heavier rain (25-75mm) was confined to extreme southern Rio Grande do Sul and western Mato Grosso do Sul. Beneficial showers (10-38mm) also fell in southern Minas Gerais, where January rainfall averaged well below normal. Near- to above-average January rain favored soybeans in most center-south growing areas.





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