

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

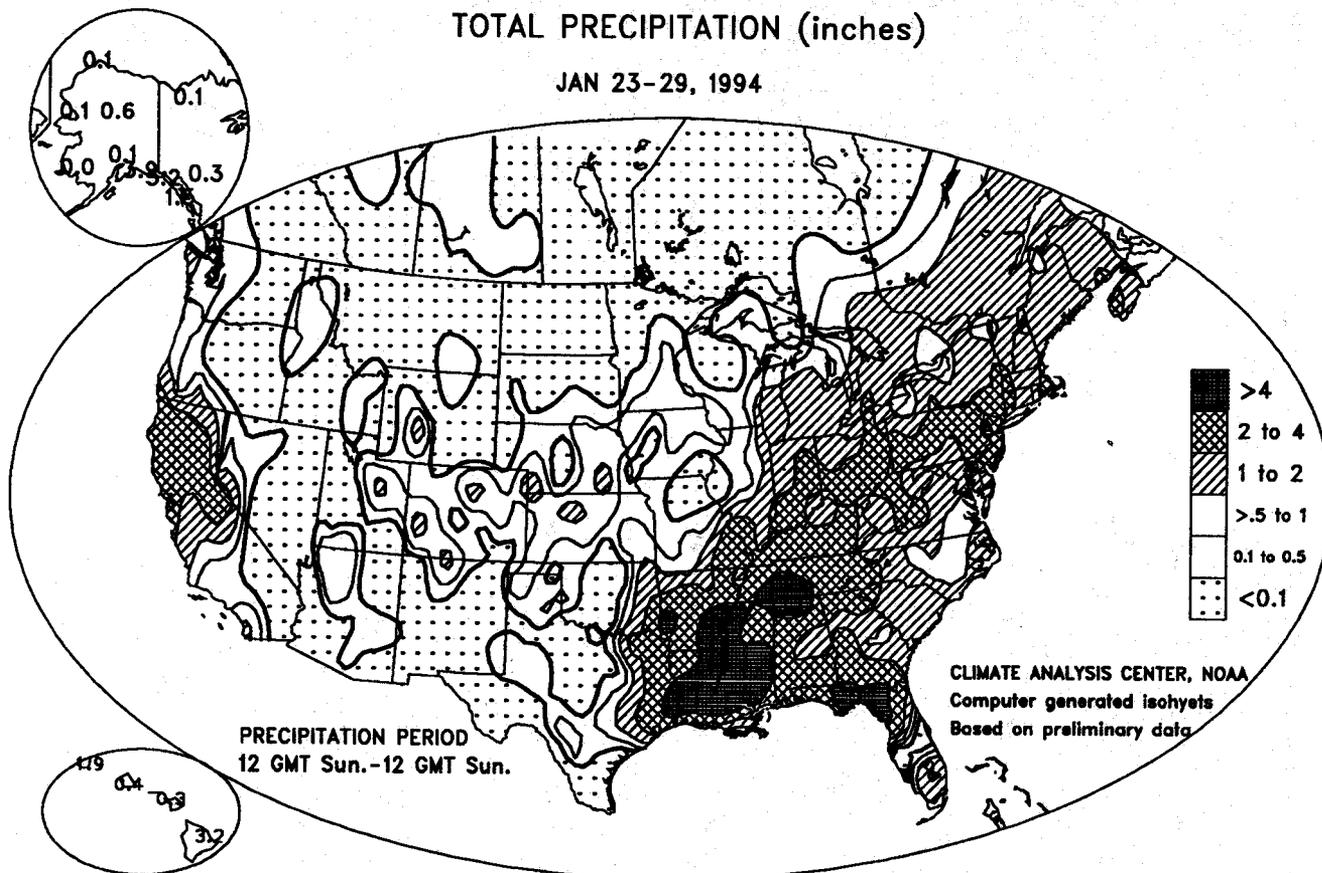
Volume 81, No. 5

Washington, D.C.

February 1, 1994

TOTAL PRECIPITATION (inches)

JAN 23-29, 1994



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

PRECIPITATION PERIOD
12 GMT Sun.-12 GMT Sun.

HIGHLIGHTS

January 23 - 29, 1994

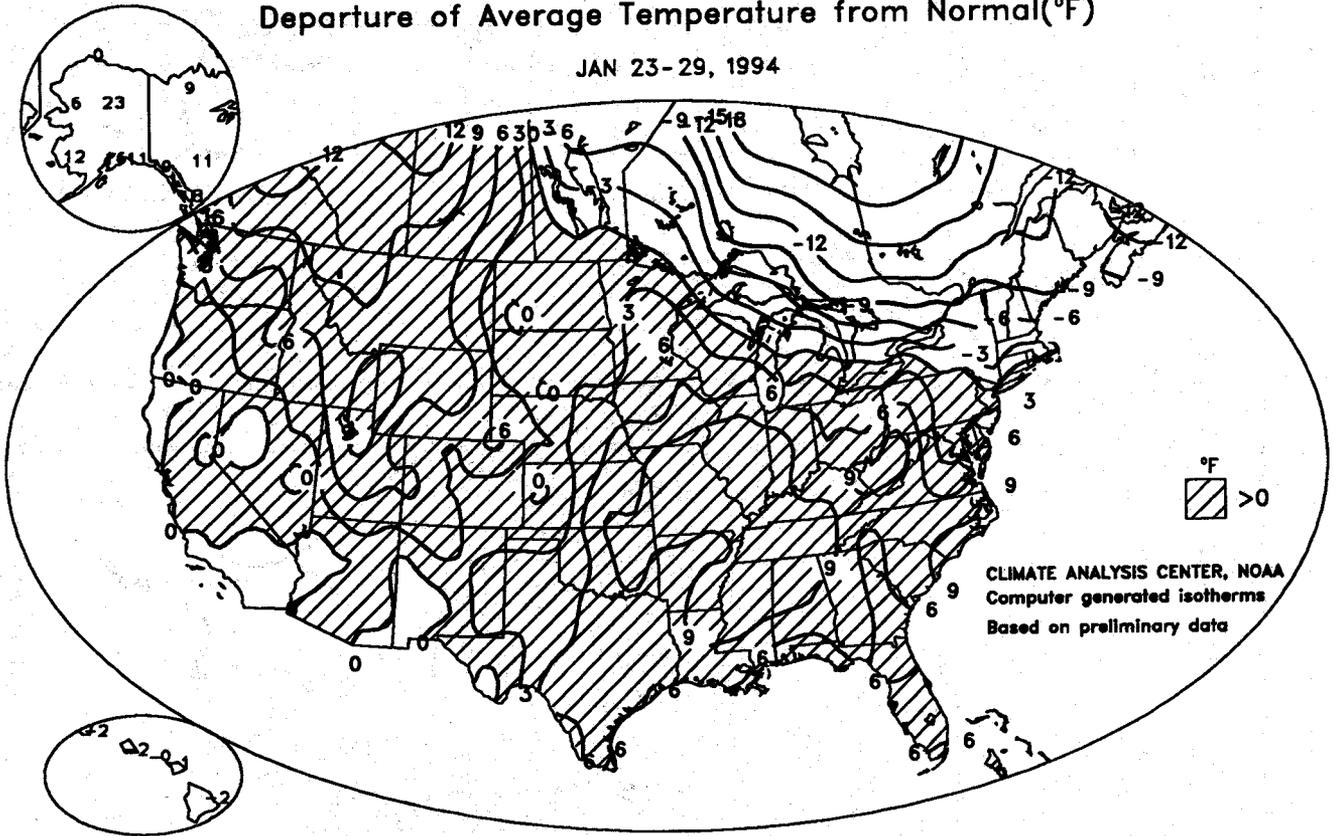
Precipitation returned to northern California for the first time since mid-December, and copious rainfall caused flooding in the lower Mississippi and Ohio Valleys. Arctic air receded into southeastern Canada, but not until snow and ice accumulations prolonged the Northeastern States' 6-week siege of wintry weather. Early in the week, heavy precipitation overspread key watershed areas of northern California. Lowland totals topped 2 inches in many areas, including Eureka (3.18 inches) and Redding (2.41 inches). In the Sierra Nevada, snow depths increased by more than 2 feet at locations such as Mammoth Mountain. Despite the rain and snow, wet-season (since October 1, 1993) precipitation continues to languish at 55 to 80 percent of normal at most northern California observing stations. Farther east, warm air encompassed much of the Nation in advance of the storm. Temperatures (Continued to p. 11)

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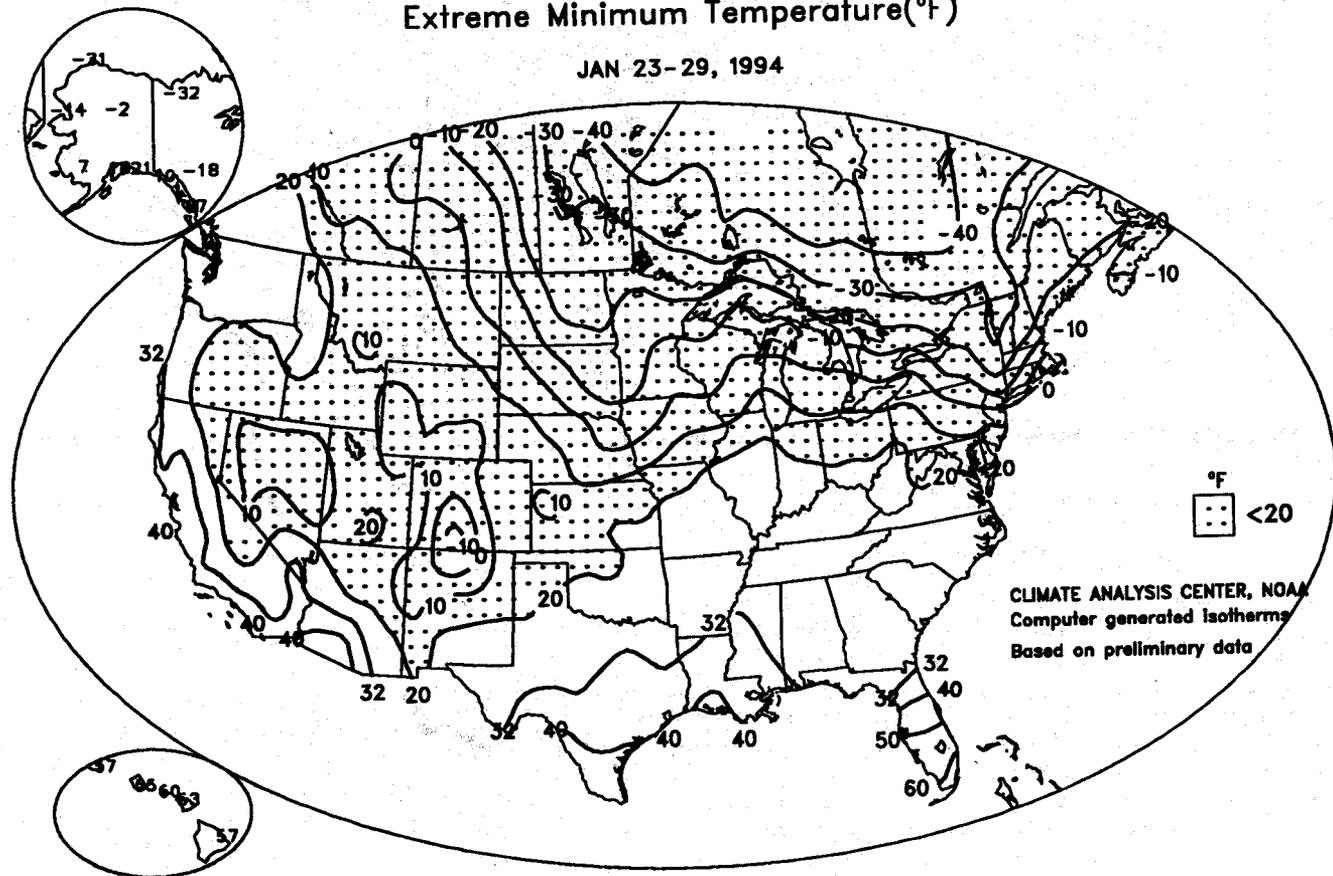
Departure of Average Temperature from Normal(°F)

JAN 23-29, 1994



Extreme Minimum Temperature(°F)

JAN 23-29, 1994

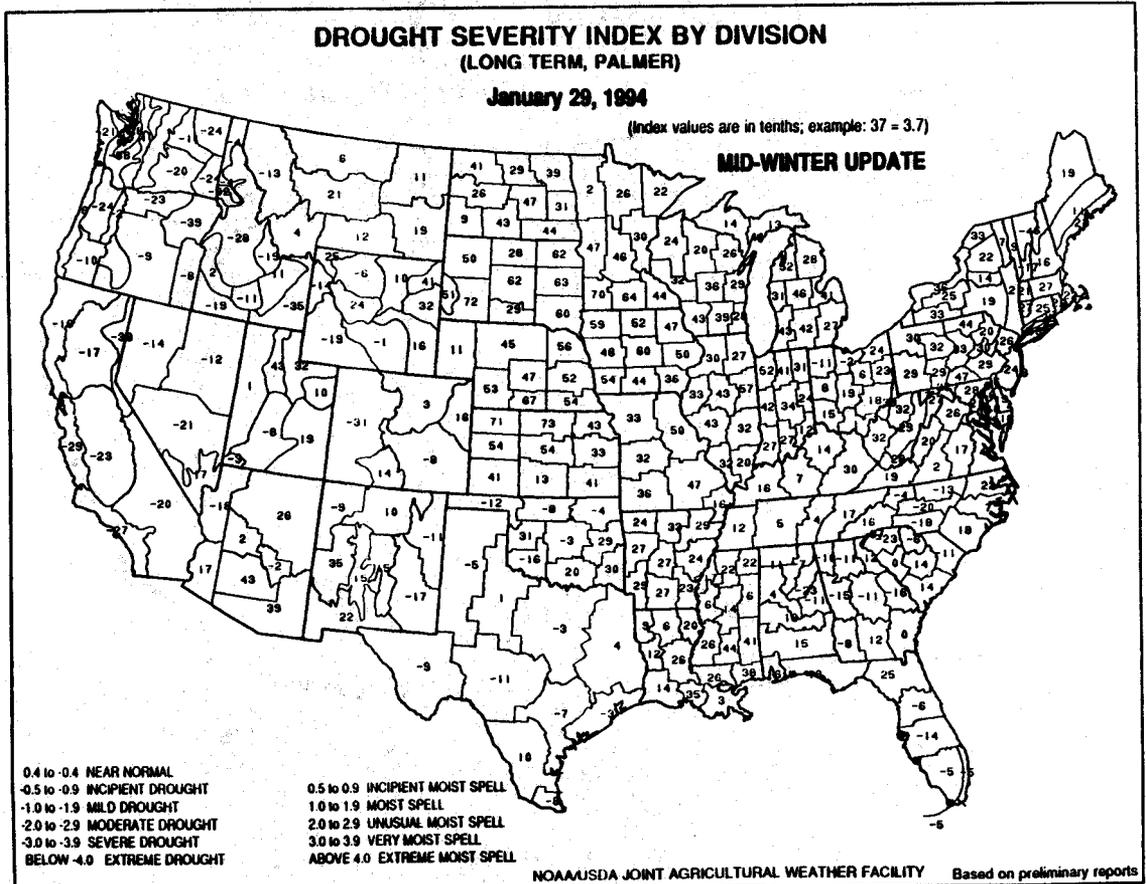
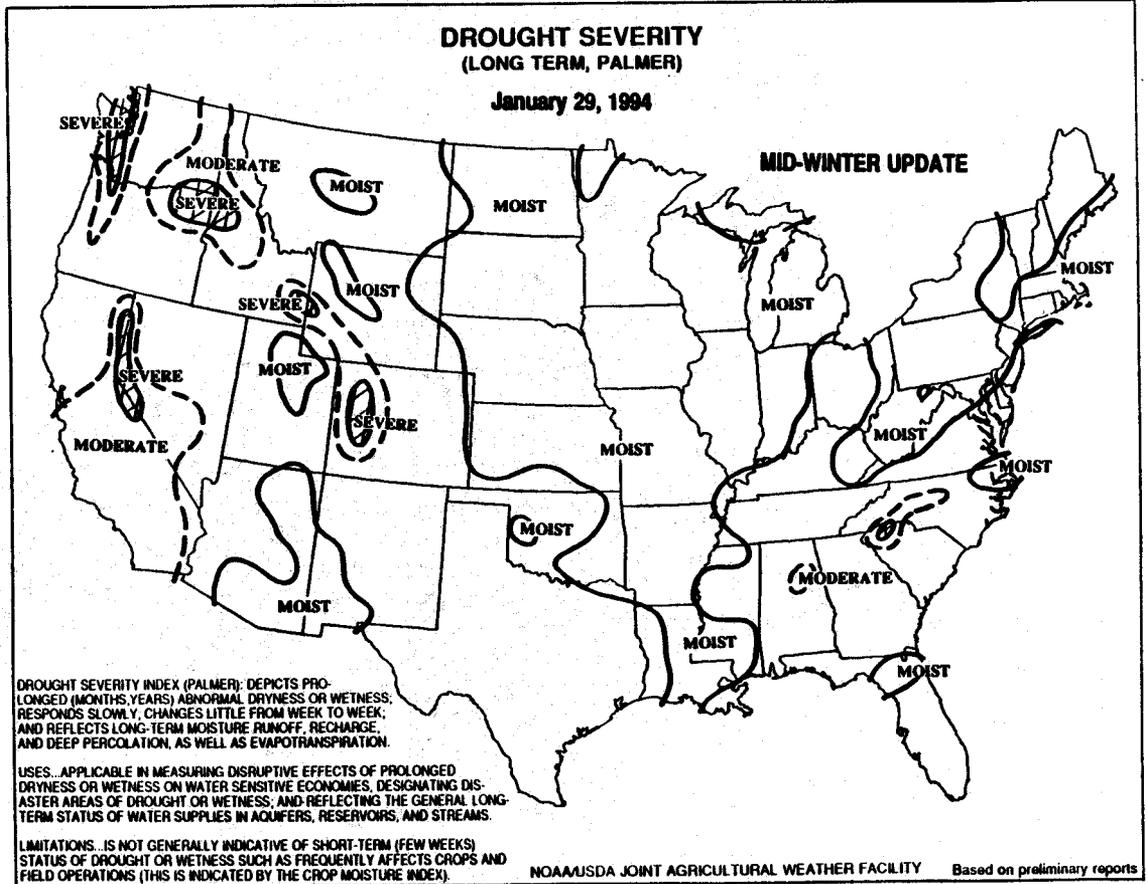


Mid-Winter Palmer Update

For the second consecutive year, mid-winter Palmer indices depict unusually wet conditions across a large portion of the Nation, especially in the Mississippi River Basin. Although precipitation has been light in the upper Mississippi Valley since the weather pattern shifted southward in September 1993, ground-water supplies remain well above average from last summer's inundations. Recent and ongoing minor to moderate flooding on the Ohio River and numerous tributaries shows the propensity of unusually wet areas to incur spring flooding, especially when rains combine with snow melt and thawing ground.

Frequent autumn and winter precipitation has eradicated drought in the Southeast, but storms have largely bypassed areas from California to the High Plains. Although the long-term indices do not yet reflect recent dryness, many Western and High Plains States have been reporting below-normal topsoil moisture as well as concern for summer water supplies.

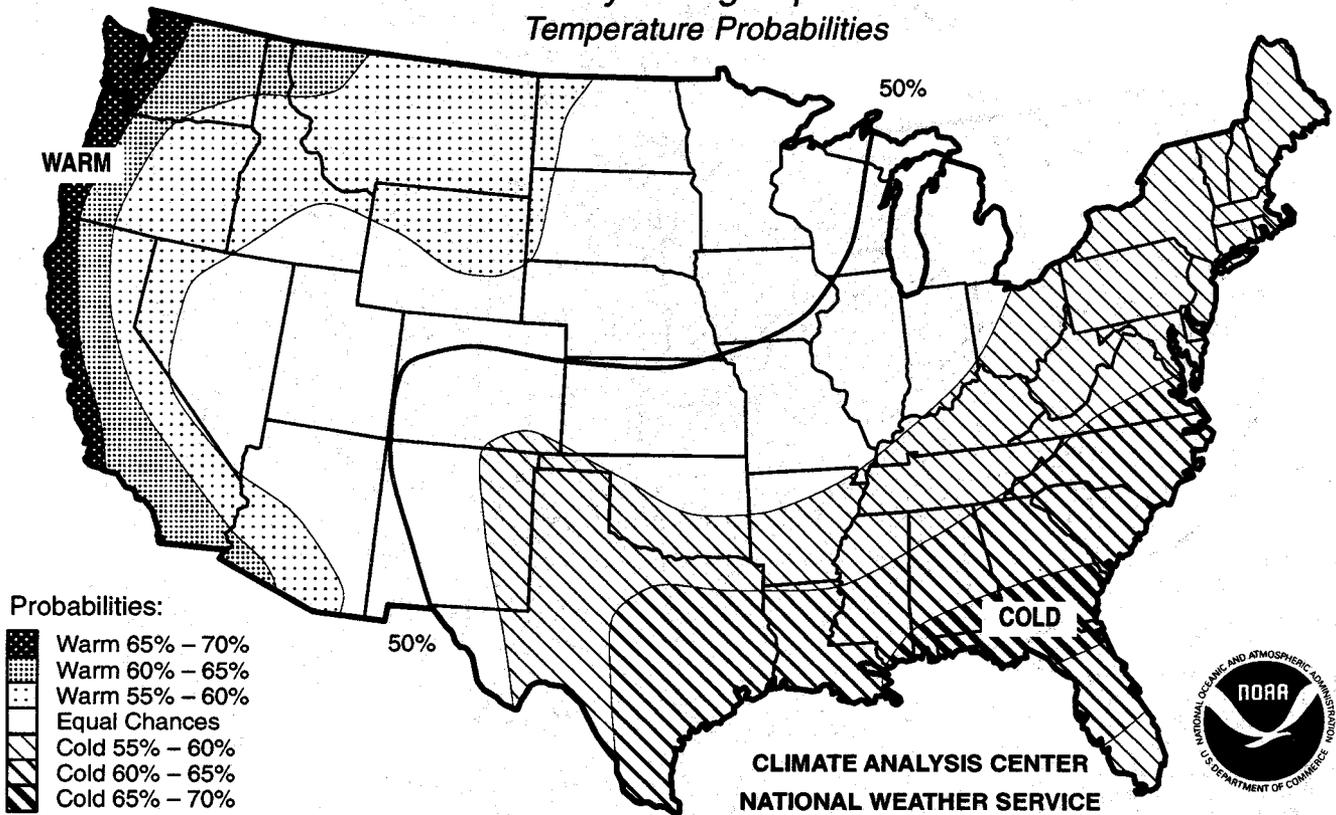
--Brad Rippey,
(202) 720-1444



THREE-MONTHLY WEATHER OUTLOOK

February through April 1994

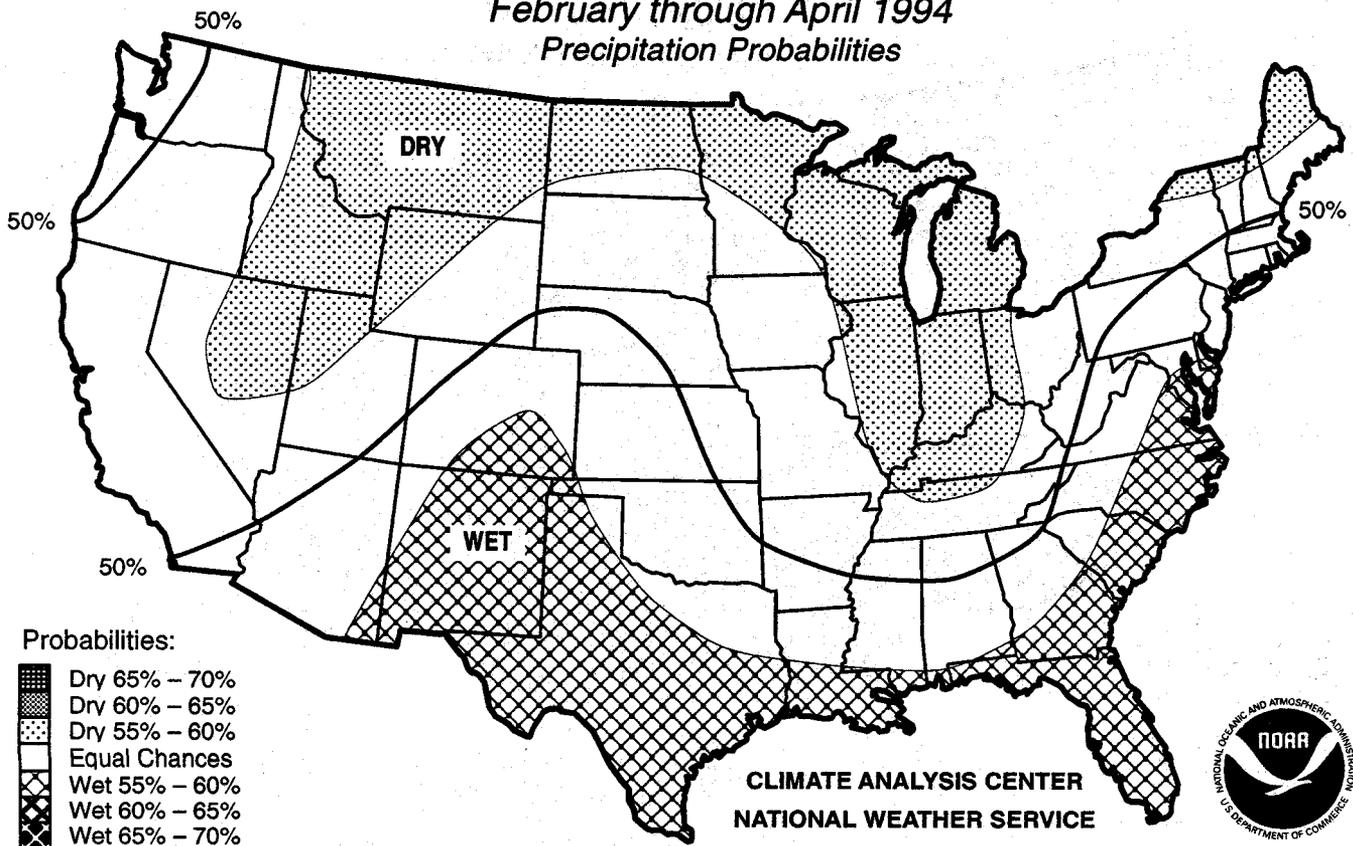
Temperature Probabilities



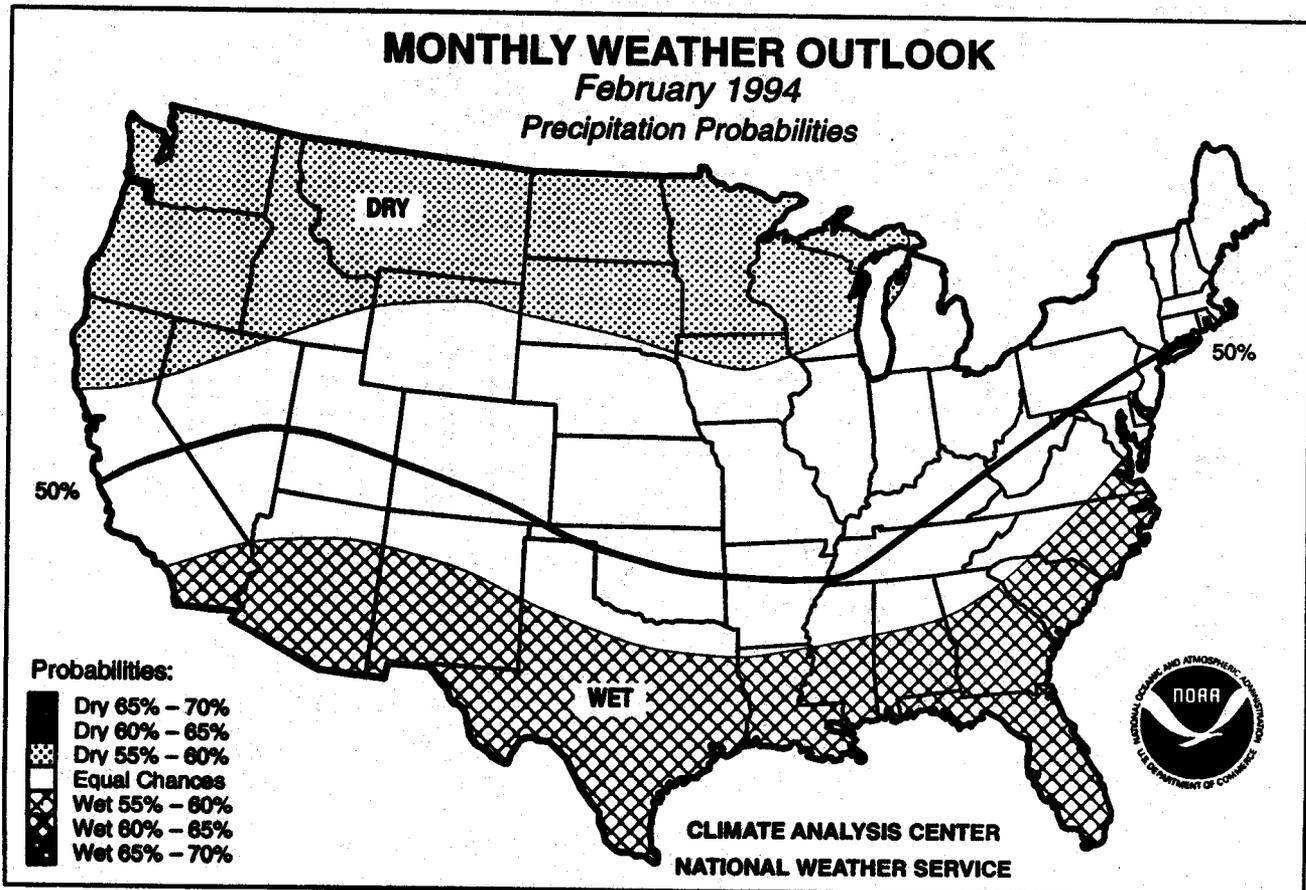
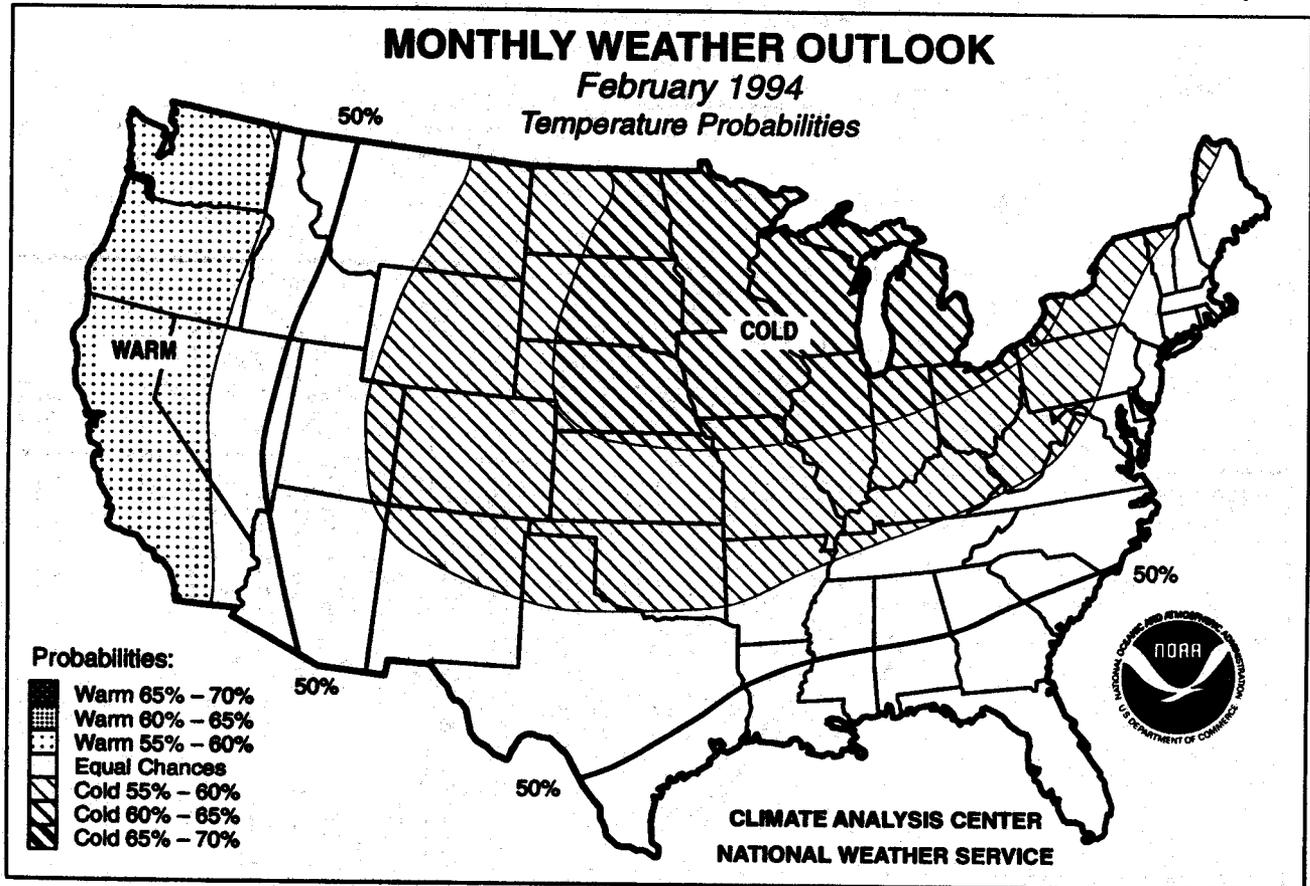
THREE-MONTHLY WEATHER OUTLOOK

February through April 1994

Precipitation Probabilities



Due to interest in the possible continuation of bitterly cold weather in the Northeastern and Great Lakes States, and of warm, dry conditions along the West coast, we include the latest 30-day outlook, issued by the National Weather Service on January 28, 1994.



National Weather Data for Selected Cities

Weather Data for the Week Ending January 29, 1994

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE 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						.50 INCH OR MORE
AL BIRMINGHAM	62	42	68	25	52	10	1.4	.3	1.4	9.1	92	5.1	107	85	52	0	1	2	1
MOBILE	65	45	73	30	55	5	3.5	2.5	2.5	10.2	105	6.5	147	93	53	0	1	3	2
MONTGOMERY	65	40	76	25	52	8	1.2	0.0	0.0	8.5	87	3.0	82	89	48	0	2	1	1
AK ANCHORAGE	37	25	48	18	31	15	1.1	-1.1	-1.1	0.9	49	.6	80	93	73	0	7	3	0
BARROW	21	0	-19	-4	-31	-14	1.1	-1.1	-1.1	.2	71	.1	45	78	71	0	7	2	0
FAIRBANKS	21	0	35	-9	11	20	1.1	-1.1	-1.1	.2	71	.5	107	89	79	0	7	1	0
JUNEAU	39	33	42	27	36	11	2.0	1.0	.8	12.4	142	6.4	151	98	91	0	2	6	2
KODIAK	40	33	44	30	37	7	3.5	1.9	.9	21.2	154	10.4	150	97	80	0	4	7	4
NOME	15	-4	32	-15	6	-1	1.1	-1.1	-1.1	2.4	149	.5	67	87	72	0	7	1	0
AZ PHOENIX	65	45	75	41	55	5	1.1	-1.1	-1.1	.2	9	.1	21	67	25	0	0	1	0
PRESCOTT	47	27	59	23	37	0	.3	-1.1	-1.1	.7	24	.3	19	80	40	0	7	2	0
TUCSON	63	39	76	32	51	-1	1.1	-1.1	-1.1	.2	8	.2	2	75	22	0	0	1	0
YUMA	69	47	77	42	58	-1	1.1	-1.1	-1.1	.2	5	.2	12	55	21	0	0	0	0
AR FORT SMITH	53	39	73	24	46	4	2.0	1.6	1.8	6.2	128	3.3	185	86	61	0	0	0	1
LITTLE ROCK	55	41	67	29	48	8	2.3	1.6	1.0	9.6	128	5.2	186	83	64	0	0	2	2
CA BAKERSFIELD	59	41	65	35	50	1	.6	1.9	2.1	1.2	84	.6	71	78	31	0	0	3	3
FRESNO	56	41	59	35	48	0	3.2	1.9	2.1	12.2	105	5.1	90	86	61	0	0	2	2
LOS ANGELES	55	39	65	31	47	-2	1.1	-1.1	-1.1	2.2	67	1.2	62	94	35	0	0	3	3
REDDING	64	47	68	42	55	-2	.3	-3.3	-2.2	1.3	34	.3	15	79	38	0	0	2	0
SACRAMENTO	56	40	66	30	48	1	2.4	1.1	1.1	6.5	58	3.3	59	90	53	0	0	3	3
SAN DIEGO	63	49	72	44	56	-2	1.2	-3.3	-3.3	3.2	53	1.5	42	97	60	0	1	4	1
SAN FRANCISCO	58	44	61	40	51	-2	.7	-3.3	-3.3	1.5	45	.7	41	83	44	0	0	3	1
CO DENVER	58	44	61	40	51	-2	2.4	1.4	1.3	4.7	65	2.5	61	92	39	0	0	5	1
GRAND JUNCTION	46	22	62	14	34	4	.5	.4	.3	1.0	86	.5	117	73	41	0	0	6	0
FURBER	45	27	55	17	36	7	.2	-1.1	-1.1	.8	69	.2	46	78	48	0	7	3	0
CT BRIDGEPORT	47	14	65	11	30	0	.3	-2.3	-3.3	.3	34	.3	83	89	45	0	0	0	0
HARTFORD	36	20	52	-1	28	0	1.7	1.0	1.4	9.5	146	5.0	164	84	52	0	6	2	1
DC WASHINGTON	34	11	53	-10	23	-2	1.7	.9	1.3	10.1	142	5.9	184	83	51	0	0	4	1
FL APALACHICOLA	44	26	61	19	35	1	1.8	-2.2	-2.2	8.7	152	4.3	167	96	68	0	6	3	0
DAYTONA BEACH	65	46	69	30	55	3	2.8	2.0	2.0	8.7	112	5.9	162	94	60	0	1	2	2
JACKSONVILLE	73	52	79	38	63	6	.4	-3.3	-3.3	5.0	97	3.1	122	100	64	0	0	2	0
KEY WEST	71	47	74	30	59	4	2.0	1.3	1.3	7.4	127	5.5	189	94	60	0	1	3	2
MIAMI	79	69	83	64	74	5	.0	-4.4	-4.4	4.6	116	2.3	123	88	69	0	0	0	0
ORLANDO	79	66	83	58	72	4	.2	-3.3	-3.3	3.8	101	3.3	176	86	60	0	0	3	0
TALLAHASSEE	77	56	82	44	67	7	.7	-6.6	-6.6	3.9	90	3.1	146	97	60	0	0	1	0
TEMPA	71	42	76	22	57	6	2.4	1.3	2.1	10.5	110	7.5	168	96	59	0	1	2	1
WEST PALM BEACH	76	57	81	48	67	7	.1	-4.4	-4.4	4.0	101	2.8	151	97	60	0	0	1	0
GA ATLANTA	78	68	84	64	73	7	1.5	.9	1.5	6.3	137	5.4	235	86	64	0	0	2	1
AUGUSTA	62	42	70	34	52	11	1.4	.4	.9	7.6	87	5.1	115	87	57	0	0	3	1
MACON	63	37	71	20	50	6	.6	-4.4	-4.4	6.5	90	3.7	99	96	56	0	0	3	0
SAVANNAH	63	39	71	23	51	6	1.3	-3.3	-3.3	6.4	74	3.5	83	97	61	0	3	3	1
HI HILO	67	43	73	27	55	6	1.7	.9	1.3	6.0	95	3.9	115	94	56	0	1	3	1
HONOLULU	76	62	78	58	69	-2	3.2	1.1	1.1	26.4	124	10.3	111	90	72	0	0	5	4
KAHULUI	78	63	84	56	71	-2	.4	-3.3	-3.3	.8	11	.5	16	84	57	0	0	2	0
LIHUE	77	63	82	53	70	-1	.3	-6.6	-6.6	1.5	21	.9	24	85	61	0	0	2	0
ID BOISE	75	63	78	58	69	-2	1.9	-7.7	-7.7	6.5	61	3.8	68	81	62	0	0	3	1
LEWISTON	42	25	47	20	34	3	.1	-2.2	-2.2	2.3	84	1.3	95	96	59	0	6	3	0
POCATELLO	45	36	53	32	41	6	.1	-2.2	-2.2	1.5	60	.7	54	82	59	0	1	1	0
IL CHICAGO	43	23	55	15	33	8	.3	-1.1	-1.1	1.3	62	.6	61	94	62	0	7	3	0
MOLINE	33	25	40	18	29	8	1.0	-7.7	-7.7	2.7	69	1.7	120	94	77	0	6	5	1
PERIA	34	25	39	15	29	9	.3	-1.1	-1.1	2.1	58	1.0	68	92	79	0	7	4	0
QUINCY	37	28	44	22	33	11	.3	-0.3	-0.3	2.0	53	.8	59	96	82	0	6	3	0
ROCKFORD	40	31	49	22	35	11	T	-3.3	-3.3	1.2	33	.3	25	92	78	0	4	1	0
SPRINGFIELD	32	21	40	12	27	8	.4	-2.3	-2.3	2.1	65	.9	73	97	80	0	7	4	0
IN EVANSVILLE	40	31	47	25	36	11	.7	-4.4	-4.4	2.2	53	1.1	79	94	80	0	4	4	0
FORT WAYNE	47	34	60	26	41	8	1.5	-8.8	-8.8	5.6	84	2.9	102	94	75	0	2	4	1
INDIANAPOLIS	37	25	45	15	31	8	1.9	1.5	.9	4.1	89	2.7	150	94	85	0	6	5	2
SOUTH BEND	40	29	52	23	35	9	1.6	1.1	.7	4.6	83	2.4	109	96	80	0	5	7	2
IA DES MOINES	35	22	45	14	29	6	1.2	-8.8	-8.8	3.9	72	2.4	113	95	77	0	6	5	1
SIoux CITY	32	21	48	9	27	7	.5	-4.4	-4.4	1.9	82	1.0	113	95	80	0	7	4	0
WATERLOO	29	16	45	-7	22	4	.7	-6.6	-6.6	1.6	126	1.1	214	91	77	0	7	3	0
KS CONCORDIA	28	14	38	5	21	7	.6	-4.4	-4.4	1.9	95	1.2	161	95	79	0	7	5	0
DODGE CITY	39	23	54	14	31	5	.5	-4.4	-4.4	1.7	126	.6	111	96	68	0	6	1	1
GOODLAND	40	20	65	11	30	0	.4	-3.3	-3.3	1.4	126	.4	83	91	63	0	7	2	0
TOPEKA	41	15	65	8	28	-1	.3	-3.3	-3.3	.4	49	.4	103	87	57	0	7	1	0
WICHITA	43	27	54	18	35	7	.3	-1.1	-1.1	1.3	57	.4	47	92	65	0	6	1	0
KY BOWLING GREEN	49	30	60	20	40	9	T	-2.2	-2.2	.4	17	T	2	92	63	0	3	1	0
LEXINGTON	48	37	58	28	42	10	2.4	1.6	1.5	11.6	134	5.3	148	96	74	0	2	4	2
LOUISVILLE	44	33	53	27	38	8	1.6	1.0	.9	7.6	113	4.3	159	95	74	0	3	5	1
LA BATON ROUGE	45	33	57	28	39	8	1.5	-8.8	-8.8	6.7	105	4.1	152	95	77	0	2	4	1
LAKE CHARLES	65	48	75	38	57	7	4.7	3.5	4.2	9.9	98	6.6	144	91	59	0	0	3	1
NEW ORLEANS	65	50	74	39	58	7	1.3	-3.3	-3.3	6.3	68	3.8	89	90	66	0	0	4	1
SHERBOURNE	67	49	78	35	58	7	1.3	-2.2	-2.2	6.1	58	3.2	68	92	53	0	0	3	1
SHREVEPORT	61	46	74	33	54	9	2.2	1.3	1.2	5.0	57	3.5	68	89	65	0	0	4	2

Based on 1961-90 normals.

Weather Data for the Week Ending January 29, 1994

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT			NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE 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	TEMP. °F		PRECIP. OR MORE
																			.01 INCH OR MORE	.50 INCH OR MORE	
ME CARIBOU	10	-15	45	-32	-3	-11	.8	.4	.7	7.7	139	3.7	161	77	56	0	0	7	4	1	
PORTLAND	25	0	46	-18	13	-8	1.6	.8	1.4	10.7	136	5.3	161	85	55	0	0	7	3	1	
MD BALTIMORE	42	27	55	17	34	3	1.2	.5	.7	9.1	144	4.6	160	97	70	0	0	6	4	1	
SALISBURY	51	33	63	17	42	3	1.5	-.3	.2	8.3	116	3.5	103	98	74	0	0	3	4	0	
MA BOSTON	35	14	54	0	25	-4	1.1	.3	1.0	11.8	161	5.2	155	89	55	0	0	7	5	1	
CHATHAM	38	24	51	13	31	1	.9	.1	.7	13.9	173	6.2	177	90	68	0	0	6	3	1	
MI ALPENA	24	8	32	-7	16	-1	1.1	.7	.6	2.3	65	1.9	123	92	79	0	0	7	5	1	
DETROIT	34	20	42	11	27	5	1.6	1.3	.8	4.2	95	3.5	209	84	69	0	0	6	4	2	
FLINT	31	15	42	4	23	2	1.2	.9	.6	2.2	64	1.7	128	94	74	0	0	7	3	2	
GRAND RAPIDS	30	16	36	5	23	2	1.4	1.1	.8	3.9	85	2.4	140	94	74	0	0	7	6	2	
HOUGHTON LAKE	25	10	33	-2	18	1	1.0	.7	.7	2.5	74	1.7	123	92	77	0	0	7	3	1	
LANSING	32	15	42	5	24	5	1.1	.8	.6	2.4	71	1.7	124	94	74	0	0	7	3	1	
MARQUETTE	16	3	24	-14	9	-2	.5	.1	.2	2.9	63	1.6	79	87	61	0	0	7	5	0	
MUSKEGON	30	16	35	6	23	0	.9	.5	.6	3.7	70	2.6	116	93	73	0	0	7	3	1	
SAULT ST. MARIE	14	-6	26	-21	4	-8	.4	-.1	.2	4.7	91	2.2	94	82	55	0	0	7	3	0	
MI ALEXANDRIA	17	6	24	-11	11	4	.2	-.1	.1	1.2	74	.5	55	88	67	0	0	7	2	0	
DULUTH	16	3	26	-14	9	2	.2	-.2	.2	2.3	97	1.0	89	85	61	0	0	7	2	0	
INT'L FALLS	12	-6	19	-25	3	1	T	-.2	T	.9	54	.5	55	80	53	0	0	7	1	0	
MINNEAPOLIS	24	13	37	2	18	6	.5	.3	.2	1.7	89	1.2	133	86	63	0	0	7	5	0	
ROCHESTER	23	12	36	-3	17	6	.6	.4	.3	1.9	110	1.2	164	93	77	0	0	7	5	0	
MS GREENWOOD	61	45	67	31	53	10	1.9	.8	1.0	5.8	56	2.9	62	92	51	0	0	1	3	2	
JACKSON	61	45	70	35	53	10	4.5	3.4	4.5	10.9	96	8.1	156	87	55	0	0	0	1	1	
MERIDIAN	63	44	73	30	53	8	5.3	4.1	5.3	11.5	106	8.3	170	91	51	0	0	1	1	1	
MO CAPE GIRARDEAU	49	34	60	26	42	10	2.9	2.3	1.2	7.3	102	4.6	166	96	77	0	0	4	6	2	
COLUMBIA	43	32	54	21	37	11	.3	.0	.2	2.3	57	.8	55	96	82	0	0	3	2	0	
KANSAS CITY	41	29	52	20	35	9	.4	.2	.4	1.7	65	.6	56	92	73	0	0	4	2	0	
SAINT LOUIS	46	35	57	27	40	11	1.0	.7	.7	3.6	75	2.1	122	92	79	0	0	2	4	1	
SPRINGFIELD	49	36	65	19	42	12	.4	.0	.4	3.0	70	1.4	87	93	77	0	0	3	2	0	
MT BILLINGS	42	24	56	18	33	9	T	-.2	T	.6	33	.4	40	77	51	0	0	5	1	0	
GLASGOW	24	10	29	-2	17	6	.1	.0	.1	.8	114	.7	200	91	74	0	0	7	1	0	
GREAT FALLS	42	22	58	16	32	10	T	-.1	.1	.6	36	.3	37	80	58	0	0	6	2	0	
HAVRE	28	16	34	14	22	7	T	-.1	T	0	0	T	0	93	78	0	0	7	0	0	
HELENA	42	20	50	15	31	10	.1	-.1	.1	.3	25	.2	27	87	54	0	0	7	2	0	
KALISPELL	40	23	45	17	31	10	.2	-.1	.1	2.6	83	1.1	72	95	80	0	0	7	4	0	
MILES CITY	29	13	43	3	21	4	.1	.0	.1	.8	72	.7	138	95	76	0	0	7	2	0	
MISSOULA	39	22	50	16	31	7	.2	-.1	.1	.7	32	.4	30	93	73	0	0	7	2	0	
NE GRAND ISLAND	35	17	67	2	26	4	.5	.4	.5	1.0	86	.6	126	92	71	0	0	7	2	1	
LINCOLN	38	18	65	3	28	6	.4	.3	.4	.9	62	.5	90	95	70	0	0	7	2	0	
NORFOLK	34	17	64	-5	25	6	.4	.6	.4	1.2	99	.8	162	91	69	0	0	7	4	0	
NORTH PLATTE	36	18	54	14	27	4	.2	.2	.2	.8	94	.5	159	91	68	0	0	7	1	0	
OMAHA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SCOTTSBLUFF	42	22	56	21	32	6	T	-.1	T	1.1	111	.6	122	90	51	0	0	7	1	0	
VALENTINE	28	13	58	1	21	-2	.1	.0	.1	.7	71	.2	38	85	64	0	0	7	1	0	
NV ELY	36	13	44	0	24	-1	.4	.3	.3	.7	50	.5	79	90	50	0	0	7	3	0	
LAS VEGAS	59	39	67	35	49	2	T	-.1	T	.3	30	T	6	48	25	0	0	0	1	0	
RENO	45	28	50	18	36	2	.1	-.2	.0	.2	12	.1	6	77	39	0	0	6	3	0	
WINNEMUCCA	41	17	49	7	29	-1	.3	.1	.2	.8	48	.4	61	89	58	0	0	7	2	0	
NE CONCORD	27	-1	45	-27	13	-5	1.1	.6	1.1	6.8	124	3.5	147	91	47	0	0	7	3	1	
NJ ATLANTIC CITY	45	25	56	14	35	5	1.3	.5	1.0	8.4	127	4.2	128	95	71	0	0	6	4	1	
NM ALBUQUERQUE	51	26	62	13	38	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
CLOVIS	54	27	68	20	41	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ROSWELL	58	30	72	23	44	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
NY ALBANY	29	3	48	-23	16	-4	.7	-.2	.4	6.3	122	3.2	145	80	54	0	0	7	4	0	
BINGHAMTON	31	11	47	-8	21	0	.8	.3	.5	6.3	120	3.0	133	87	67	0	0	7	5	0	
BUFFALO	33	15	51	0	24	1	1.0	.4	.5	6.5	105	2.9	114	85	68	0	0	6	6	0	
NEW YORK	41	21	56	0	31	0	2.0	1.3	1.5	9.2	147	4.7	166	87	61	0	0	6	4	1	
ROCHESTER	32	12	50	-5	22	0	.7	.3	.3	4.2	90	2.6	133	89	70	0	0	6	5	0	
SYRACUSE	30	6	51	-16	18	-4	.9	.4	.3	5.8	106	2.6	116	89	58	0	0	7	5	0	
NC ASHEVILLE	53	31	65	22	42	5	1.6	.7	.8	8.8	109	5.3	144	95	69	0	0	3	4	1	
CHARLOTTE	58	37	64	28	48	8	1.0	.1	.7	6.9	99	3.6	103	87	51	0	0	1	4	1	
GREENSBORO	56	32	64	21	44	7	.7	.0	.6	6.9	108	3.6	121	90	58	0	0	3	4	1	
HATTERAS	63	45	67	28	54	10	1.6	.4	.9	10.1	106	6.0	120	91	55	0	0	1	3	1	
NEW BERN	64	39	71	24	51	8	1.0	.0	.7	7.1	92	5.5	136	95	56	0	0	1	2	1	
RALEIGH	59	35	69	24	47	8	.8	.0	.7	7.2	111	3.5	107	89	53	0	0	1	4	1	
WILMINGTON	64	41	70	25	53	10	1.7	.6	.9	7.3	86	4.7	105	94	55	0	0	1	2	2	
ND BISMARCK	20	4	36	-20	12	2	T	-.1	T	1.4	154	.6	135	96	71	0	0	7	2	0	
FARGO	15	4	20	-21	9	3	T	-.1	T	1.7	130	.7	105	81	69	0	0	7	1	0	
GRAND FORKS	13	-3	20	-23	5	0	T	-.2	T	1.2	92	.8	113	86	71	0	0	7	0	0	
WILLISTON	21	3	28	-10	12	2	.2	.0	.1	1.3	122	.9	188	89	69	0	0	7	4	0	
OH AERON-CANTON	35	22	47	13	29	5	2.3	1.8	1.0	6.5	131	3.8	187	97	81	0	0	6	5	2	
CINCINNATI	41	31	52	25	36	8	1.5	1.0	.7	5.6	100	3.1	126	98	80	0	0	4	4	2	
CLEVELAND	36	22	47	13	29	5	1.3	.9	.5	4.8	95	2.6	134	91	79	0	0	6	6	1	
COLUMBUS	38	27	50	18	33	9	2.1	1.7	1.0	5.8	119	3.6	195	93	76	0	0	6	5	3	
DAYTON	37	26	47	16	32	6	2.4	1.9	1.0	6.5	131	3.7	184	97	85	0	0	6	5	3	

Based on 1961-90 normals.

Weather Data for the Week Ending January 29, 1994

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS								
	AVERAGE	MAXIMUM	MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE 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	TEMP. °F		PRECIP.	
																				.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
TOLEDO	34	22	42	12	28	6	1.6	1.3	.6	4.0	88	2.8	168	95	81	0	0	0	0	6	5	2	2
YOUNGSTOWN	35	23	47	13	29	6	1.4	1.3	.6	5.3	108	2.7	135	93	80	0	0	0	6	6	3	2	
OK OKLAHOMA CITY	50	35	61	21	42	6	1.1	-.2	-.1	1.5	59	2.2	47	91	56	0	0	0	6	6	1	1	
TULSA	53	37	68	21	45	9	-.4	-.1	-.4	2.4	68	1.7	47	91	60	0	0	0	6	6	1	1	
OR ASTORIA	49	35	53	29	42	-1	-.4	-1.4	-.4	16.7	83	7.1	75	99	80	0	0	0	6	6	1	1	
BURNS	40	21	48	14	31	6	-.1	-.1	-.1	1.1	53	3.3	29	90	46	0	0	0	7	7	2	2	
MEDFORD	54	30	61	21	42	3	-.3	-.2	-.3	3.5	60	1.1	42	94	46	0	0	0	4	4	2	2	
PENDLETON	44	30	53	26	37	2	-.3	-.3	-.3	2.5	83	1.6	114	93	55	0	0	0	4	4	2	2	
PORTLAND	46	35	53	28	41	1	-.6	-.5	-.3	8.7	78	3.7	74	93	59	0	0	0	4	4	2	2	
SALEM	49	36	58	27	42	2	-.5	-.8	-.3	11.3	91	4.5	81	94	56	0	0	0	2	2	2	2	
PA ALLENTOWN	37	16	55	-5	27	0	2.2	1.5	1.5	10.6	165	5.7	191	90	64	0	0	0	1	1	1	1	
ERIE	34	19	49	8	26	2	-.7	-.3	-.2	5.4	95	2.5	120	88	71	0	0	0	7	7	4	4	
HARRISBURG	35	24	48	7	30	1	1.8	1.1	-.9	9.5	162	5.6	209	89	69	0	0	0	6	6	4	4	
PHILADELPHIA	43	26	58	11	34	5	1.5	-.7	1.1	7.9	115	4.2	130	89	63	0	0	0	6	6	4	4	
PITTSBURGH	38	27	51	15	33	7	1.5	1.0	-.6	6.0	113	3.9	162	93	75	0	0	0	4	4	5	5	
SCRANTON	36	19	51	4	28	4	-.8	-.4	-.5	6.4	141	3.3	167	92	67	0	0	0	4	4	5	5	
RI PROVIDENCE	37	17	53	0	27	-1	1.8	1.0	1.7	11.3	140	5.5	152	91	56	0	0	0	7	7	3	3	
SC CHARLESTON	67	43	74	27	55	7	1.6	-.9	-.8	8.8	138	6.5	202	91	54	0	0	0	1	1	3	3	
COLUMBIA	65	38	72	20	52	8	1.0	-.0	-.8	6.3	82	3.9	94	91	50	0	0	0	3	3	2	2	
FLORENCE	65	41	73	24	53	9	-.9	-.2	-.8	5.9	91	3.9	119	92	49	0	0	0	1	1	3	3	
GREENVILLE	58	36	66	24	47	7	1.1	-.2	-.9	7.1	89	4.2	109	90	57	0	0	0	1	1	2	2	
SD ABERDEEN	20	7	37	-14	13	3	1.1	-.1	-.1	1.4	129	-.8	146	85	68	0	0	0	7	7	1	1	
HURON	22	8	38	-19	15	1	1.4	-.5	-.4	1.7	201	-.9	258	90	74	0	0	0	7	7	3	3	
RAPID CITY	32	17	55	6	25	2	1.1	-.1	-.4	1.0	118	-.4	124	89	76	0	0	0	7	7	1	1	
STOUL FALLS	23	12	40	-8	18	3	-.7	-.6	-.4	1.3	108	1.0	202	92	75	0	0	0	2	2	3	3	
TN CHATTANOOGA	56	39	65	24	48	10	1.9	-.9	1.0	11.6	119	6.4	139	94	65	0	0	0	7	7	4	4	
KNOXVILLE	48	36	62	21	42	6	1.9	1.0	-.7	15.0	178	7.0	178	96	76	0	0	0	2	2	4	4	
MEMPHIS	57	44	64	31	50	10	3.4	2.6	2.1	11.1	120	5.5	157	86	63	0	0	0	2	2	4	4	
NASHVILLE	52	41	61	32	47	10	1.9	1.1	1.2	10.7	134	4.1	122	86	66	0	0	0	1	1	5	5	
TX ABILENE	55	42	66	28	48	4	1.1	-.1	-.1	1.9	93	-.9	98	90	61	0	0	0	2	2	1	1	
AMARILLO	55	24	72	18	40	5	-.3	-.2	-.3	1.2	140	-.3	61	84	31	0	0	0	5	5	1	1	
AUSTIN	62	51	74	38	56	7	-.6	-.2	-.3	2.6	75	1.4	91	90	67	0	0	0	0	0	4	4	
BEAUMONT	65	51	75	38	58	7	3.5	2.5	2.9	8.7	94	6.7	150	95	66	0	0	0	0	0	4	4	
BROWNSVILLE	72	59	82	44	65	6	1.1	-.3	-.1	4.2	153	1.9	129	95	64	0	0	0	0	0	2	2	
CORPUS CHRISTI	69	54	79	41	62	6	-.1	-.4	-.0	5.8	204	1.0	62	91	60	0	0	0	0	0	2	2	
DEL RIO	63	51	75	40	57	8	-.1	-.2	-.2	2.4	114	2.2	215	84	58	0	0	0	0	0	2	2	
EL PASO	58	36	71	29	47	3	-.1	-.1	-.1	7.7	77	-.1	8	69	26	0	0	0	3	3	2	2	
FORT WORTH	58	47	72	32	53	10	-.3	-.1	-.2	3.9	104	1.4	82	88	65	0	0	0	1	1	3	3	
GALVESTON	62	54	69	42	58	5	-.4	-.3	-.2	4.5	69	2.1	69	91	76	0	0	0	0	0	4	4	
HOUSTON	65	51	75	35	58	8	1.4	-.6	1.1	4.8	57	2.1	59	92	62	0	0	0	0	0	6	6	
LUBBOCK	58	33	74	21	46	6	-.1	-.0	-.1	6.6	65	-.3	71	91	42	0	0	0	3	3	1	1	
MIDLAND	55	39	67	28	47	2	1.1	-.0	-.1	1.2	124	-.8	180	91	57	0	0	0	2	2	1	1	
SAN ANGELO	57	43	68	30	50	6	-.1	-.1	-.1	2.2	144	1.4	195	92	60	0	0	0	1	1	1	1	
SAN ANTONIO	64	51	75	37	57	8	-.5	-.1	-.2	1.9	63	1.5	94	91	65	0	0	0	0	0	4	4	
VICTORIA	66	54	74	39	60	8	-.4	-.4	-.2	5.4	88	1.4	45	91	68	0	0	0	0	0	3	3	
WACO	58	46	74	33	52	6	-.3	-.1	-.1	2.9	87	1.5	95	96	77	0	0	0	0	0	4	4	
NICHITA FALLS	55	37	69	22	46	7	-.3	-.3	-.3	2.8	99	-.1	11	91	59	0	0	0	3	3	0	0	
UT CEDAR CITY	44	26	58	17	35	4	1.1	-.1	-.1	4.3	33	-.1	14	86	45	0	0	0	7	7	1	1	
SALT LAKE CITY	46	30	57	23	38	9	-.2	-.2	-.2	1.5	60	-.6	58	81	49	0	0	0	4	4	1	1	
VT BURLINGTON	24	-5	47	-29	10	-6	-.4	-.1	-.3	3.8	92	2.2	128	80	54	0	0	0	7	7	4	4	
VA NORFOLK	56	36	68	27	46	7	-.9	-.0	-.5	7.0	104	3.7	105	91	63	0	0	0	1	1	2	2	
RICHMOND	50	32	64	23	41	5	1.8	-.1	-.7	6.8	108	3.1	101	93	37	0	0	0	4	4	3	3	
ROANOKE	50	32	58	26	41	7	1.0	-.4	-.4	9.5	176	4.2	173	89	62	0	0	0	5	5	4	4	
WA QUILLAYUTE	50	36	53	28	43	3	1.9	-1.2	1.4	22.5	78	9.9	73	98	84	0	0	0	3	3	4	4	
SEATTLE-TACOMA	48	41	52	33	45	4	1.5	-.7	-.4	7.1	65	2.6	51	96	79	0	0	0	0	0	3	3	
SPokane	38	29	45	22	34	5	-.2	-.3	-.1	3.2	75	1.4	76	96	86	0	0	0	6	6	2	2	
YAKIMA	43	29	50	23	36	5	-.1	-.2	-.1	1.4	53	-.3	28	99	77	0	0	0	5	5	3	3	
WV BECKLEY	43	33	58	26	38	9	-.4	-.2	-.2	9.0	150	4.5	165	96	80	0	0	0	3	3	5	5	
CHARLESTON	48	35	64	30	41	9	1.0	-.3	-.5	9.6	158	6.4	235	93	73	0	0	0	2	2	4	4	
HUNTINGTON	47	34	59	30	41	11	1.1	-.4	-.4	8.4	133	5.2	184	87	71	0	0	0	1	1	4	4	
PARKERSBURG	43	32	55	28	38	7	1.9	1.2	-.7	9.1	155	7.1	237	98	75	0	0	0	3	3	4	4	
WI GREEN BAY	23	10	32	2	16	2	-.6	-.4	-.4	1.9	73	1.5	135	88	71	0	0	0	7	7	4	4	
LACROSSE	26	12	36	-5	19	4	-.2	-.2	-.2	-.1	0	0	0	91	65	0	0	0	7	7	0	0	
MADISON	27	13	39	2	20	4	-.6	-.4	-.4	1.8	64	1.4	129	93	73	0	0	0	7	7	5	5	
MILWAUKEE	32	21	43	14	27	8	1.1	-.8	-.7	2.8	73	2.1	140	95	75	0	0	0	7	7	5	5	
WAUSAU	22	8	28	1	15	3	-.2	-.0	-.1	1.4	61	-.8	94	79	53	0	0	0	7	7	2	2	
WY CASPER	41	24	52	13	32	9	-.3	-.2	-.2	1.2	105	-.6	110	83	53	0	0	0	6	6	3	3	
CHEYENNE	38	20	58	9	29	2	-.5	-.5	-.3	-.9	124	-.6	183	84	50	0	0	0	7	7	3	3	
LANDER	37	20	48	13	28	8	1.0	-.9	-.5	1.4	140	1.0	226	88	54	0	0	0	7	7	3	3	
SHERIDAN	38	18	48	13	28	6	-.4	-.2	-.4	2.0	137	1.5	214	90	68	0	0	0	7	7	1	1	

Based on 1961-90 normals.

HEATING DEGREE DAYS (Base 65° F) January 23 - 29, 1994

(Cumulative totals and departures from normal are for the period July 1, 1993 - January 29, 1994)

STATES AND STATIONS	WEEKLY		CUMULATIVE			STATES AND STATIONS	WEEKLY		CUMULATIVE			STATES AND STATIONS	WEEKLY		CUMULATIVE		
	TOTAL	DEPARTURE	TOTAL	DEPARTURE	DEP fm 92-93		TOTAL	DEPARTURE	TOTAL	DEPARTURE	DEP fm 92-93		TOTAL	DEPARTURE	TOTAL	DEPARTURE	DEP fm 92-93
AL BIRMINGHAM	89	-73	1921	104	315	LA BATON ROUGE	61	-44	1337	240	465	TULSA	139	-67	2473	181	83
AL HUNTSVILLE	120	-62	2211	167	360	LA LAKE CHARLES	56	-43	1094	52	226	OR ASTORIA	160	2	2791	-8	-155
AL MOBILE	68	-42	1301	198	425	LA NEW ORLEANS	53	-47	1126	147	440	OR EUGENE	166	3	2682	148	61
AL MONTGOMERY	86	-47	1616	201	376	ME SHERBORNE	80	-58	1556	109	131	ME MILFORD	160	-20	2576	-110	133
AK ANCHORAGE	238	-110	5286	-908	-972	ME BANGOR	404	68	4580	237	209	ME NORTH BEND	128	-5	2412	-28	31
AR BARRON	541	-16	9838	-1063	-923	ME PORTLAND	362	49	4125	109	199	ME PENDELTON	195	-18	2959	-191	-455
AR BETHEL	322	-91	6476	-794	-908	MD BALTIMORE	213	-19	2904	213	405	ME PORTLAND	167	-5	2322	-244	-218
AR COLD BAY	227	-32	4689	-512	-576	MA BOSTON	281	22	3262	245	207	ME REDMOND	227	-1	3818	50	-320
AR FAIRBANKS	379	-143	7587	-892	-898	MI ALPENA	342	6	4803	350	282	ME SALEM	158	-15	2457	-262	-133
AR JUNEAU	201	-82	4218	-896	-787	MI DETROIT	261	-36	3709	53	276	PA ALLENTOWN	267	-5	3472	209	331
AR KING SALMON	257	-94	5367	-1095	-940	MI FLINT	292	-16	4333	491	576	PA BRADFORD	279	-43	4522	91	365
AR KOTZEBU	420	-48	7738	-686	-1152	MI GRAND RAPIDS	292	-16	4220	342	416	PA ERIE	269	-16	3680	370	566
AR MCGRATH	387	-126	7391	-1187	-838	MI LANSING	287	-28	4279	334	380	PA PHILADELPHIA	213	-32	2654	-127	208
AR NOME	411	0	7081	-563	-1336	MI MUSKOGEE	295	0	4079	346	324	PA PITTSBURGH	225	-49	3488	126	402
AR ST PAUL ISLAND	251	-27	5278	-483	-708	MI TRAVERSE CITY	330	8	4325	198	160	PA SCRANTON	258	-29	3755	252	492
AR YAKUTAT	211	-68	4528	-787	-1066	MI DULUTH	388	-16	5972	410	377	PA WILLIAMSPORT	264	-16	3726	296	550
AZ FLAGSTAFF	254	4	3669	-212	-117	MI INT'L FALLS	432	-12	6403	329	270	RI PROVIDENCE	266	4	3345	184	274
AZ PHOENIX	68	-7	604	-234	-55	MI MINNEAPOLIS	324	-45	4948	287	288	SC CHARLESTON	67	-57	1299	39	266
AZ TUCSON	95	4	843	-174	-123	MI ROCHESTER	332	-40	5096	325	161	SC COLUMBIA	92	-56	1744	94	194
AR FORT SMITH	133	-60	2219	55	170	MS JACKSON	83	-64	1818	255	537	SC GREENVILLE	125	-50	2195	214	179
AR LITTLE ROCK	116	-66	2127	115	185	MS MERIDIAN	80	-59	1623	78	351	SD ABERDEEN	359	-21	5294	328	123
CA FRESNO	124	0	1432	-174	-8	MO COLUMBIA	191	-68	3319	240	224	SD HURON	347	-13	5031	376	206
CA LOS ANGELES	67	11	429	-256	-164	MO KANSAS CITY	208	-63	3309	96	54	SD PIERRE	338	6	4626	297	25
CA SACRAMENTO	112	-17	1553	-83	-4	MO SAINT LOUIS	170	-78	2919	96	177	SD RAPID CITY	280	-14	4046	-132	-535
CA SAN DIEGO	60	5	533	-83	-58	MO SPRINGFIELD	156	-81	2926	158	232	SD SIOUX FALLS	331	-23	4871	171	172
CA SAN FRANCISCO	97	-10	1270	-369	-41	MT BILLINGS	223	-65	3935	-209	-461	TN BRISTOL	159	-58	2710	116	310
CO COLORADO SPRINGS	233	-15	3619	4	-98	MT GLASGOW	333	-42	5227	85	-96	TN CHATTANOOGA	120	-70	2133	-45	208
CO DENVER	212	-29	3324	-109	-366	MT GREAT FALLS	232	-66	4444	-8	-451	TN KNOXVILLE	159	-44	2503	143	370
CO GRAND JUNCTION	204	-65	3375	-42	41	MT HAVRE	298	-49	4975	-17	-408	TN MEMPHIS	100	-74	2018	101	201
CT HARTFORD	294	11	3731	266	279	MT HELENA	234	-73	4441	-277	-600	TN NASHVILLE	126	-76	2451	188	378
DE WILMINGTON	220	-23	2881	94	313	MT KALISPELL	235	-70	4611	-323	-477	TX ABILENE	116	-35	1739	90	145
DC WASHINGTON	208	-6	2633	292	297	MT MISSOULA	239	-46	4284	-310	-579	TX AMARILLO	176	-30	2679	117	-147
FL DAYTONA BEACH	26	-36	588	33	288	NE GRAND ISLAND	270	-27	3812	-5	-321	TX AUSTIN	67	-44	1042	-60	14
FL FORT MYERS	0	-35	178	-90	107	NE NORTH PLATTE	266	-31	3935	-123	-371	TX BROWNSVILLE	28	-20	383	-64	72
FL JACKSONVILLE	42	-50	989	83	350	NE OMAHA	296	-11	4028	222	165	TX CORPUS CHRISTI	38	-38	585	-89	57
FL KEY WEST	0	-13	19	-42	16	NE SCOTTSDALE	232	-40	3996	104	-365	TX DALLAS FT WORTH	90	-58	1572	51	141
FL MIAMI	0	-21	63	-66	45	NV ELKO	243	-26	4467	380	-387	TX EL PASO	124	-24	1602	-160	08
FL ORLANDO	8	-44	420	-18	201	TX ELY	283	7	4474	209	117	TX HOUSTON	59	-40	1038	12	175
FL PENSACOLA	63	-38	1103	67	404	TX LAS VEGAS	112	-14	1418	-117	-153	TX LUBBOCK	135	-43	2162	17	58
FL TALLAHASSEE	58	-46	1160	77	443	TX RENO	201	-15	2784	-544	-491	TX LUFKIN	78	-42	1390	128	128
FL TAMPA	7	-42	398	-63	186	TX WINNEMUCA	247	10	3651	-36	-262	TX MIDLAND ODessa	126	-27	1781	0	97
FL WEST PALM BEACH	0	-28	123	-80	75	NE CONCORD	362	35	4428	202	288	TX SAN ANGIOLO	102	-42	1516	-69	75
GA ATHENS	115	-46	1967	182	245	NJ ATLANTIC CITY	208	-34	3046	199	349	TX SAN ANTONIO	59	-47	1033	-50	95
GA ATLANTA	89	-79	1803	-45	138	NJ HENRIK	236	-9	2841	135	392	TX VICTORIA	46	-38	806	-57	94
GA AUGUSTA	102	-45	1667	60	266	NM ALBUQUERQUE	183	-24	2529	-188	-69	TX WACO	93	-43	1574	187	268
GA MACON	95	-42	1698	212	343	NY ALBANY	341	27	4167	314	422	TX WICHITA FALLS	129	-43	2042	128	224
GA SAVANNAH	66	-46	1220	34	276	NY BINGHAMTON	309	-4	4409	408	331	UT CEDAR CITY	208	-33	3266	-143	-126
ID BOISE	218	-24	3417	-68	-259	NY BUFFALO	286	-8	3936	306	397	UT SALT LAKE CITY	185	-65	3206	-175	-384
ID POCATELLO	225	-58	4169	44	-218	MA MASSENA	420	63	4801	204	314	VT BURLINGTON	383	36	4567	241	455
IL CHICAGO	250	-58	3932	221	275	NY NEW YORK	235	-3	2776	110	231	VA LYNCHBURG	171	-46	2663	123	312
IL MOLINE	248	-67	3942	186	202	NY ROCHESTER	296	2	4084	427	345	VA NORFOLK	130	-53	2055	92	287
IL PEORIA	227	-74	3672	111	247	NY SYRACUSE	327	26	4192	464	527	VA RICHMOND	166	-39	2394	54	218
IL ROCKFORD	268	-61	4184	203	212	NC ASHEVILLE	159	-45	2735	205	364	VA ROANOKE	164	-50	2781	220	310
IL SPRINGFIELD	203	-84	3451	143	379	NC CAPE HATTERAS	77	-70	1262	-193	163	WA OLYMPIA	166	-17	2858	-327	-176
IN EVANSVILLE	168	-77	2914	114	393	NC CHARLOTTE	120	-58	1995	-4	177	WA QUILLAYUTE	153	-20	2968	-236	-259
IN FORT WAYNE	238	-59	3669	130	268	NC GREENSBORO	147	-49	2440	152	168	WA SEATTLE TACOMA	142	-26	2529	-205	-148
IN INDIANAPOLIS	210	-67	3490	230	438	NC RALEIGH DURHAM	124	-58	2204	141	235	WA SPOKANE	217	-39	3813	-200	-438
IN SOUTH BEND	252	-42	3916	356	459	NC WILMINGTON	83	-57	1486	15	174	WA YAKIMA	203	-32	3479	-127	-409
IA DES MOINES	266	-50	4099	281	238	ND BISMARCK	369	-18	5553	314	83	WV BECKLEY	188	-64	3254	61	378
IA MASON CITY	320	-40	4879	315	177	ND FARGO	386	-24	5627	245	105	WV CHARLESTON	164	-67	2866	155	381
IA SIOUX CITY	296	-30	4406	303	181	ND MINOT	380	-8	5685	349	73	WV HUNTINGTON	169	-62	2914	178	427
IA WATERLOO	303	-47	4442	79	157	ND WILLISTON	371	-15	5648	255	-44	WI KAU CLAIRE	341	-36	5132	305	436
KS CONCORDIA	235	-35	3341	60	-284	OH AKRON CANTON	351	-35	3783	349	411	WI GREEN BAY	339	-17	4719	164	251
KS DODGE CITY	243	2	3167	189	-410	OH CLEVELAND	251	-35	3648	256	450	WI MADISON	313	-30	4446	76	266
KS GOODLAND	257	5	3619	145	-394	OH COLUMBUS	222	-51	3366	104	411	WI MILWAUKEE	266	-56	3857	-179	72
KS RUSSELL	242	-16	3213	45	-323	OH CINCINNATI	202	-57	3328	282	439	WI CASPER	227	-67	3961	-385	-274
KS TOPEKA	212	-52	3263	91	44	OH DAYTON	232	-41	3565	302	438	WY CHEYENNE	250	-16	4152	101	-3
KS WICHITA	177	-67	2889	5	-107	OH TOLEDO	257	-44	3860	167	469	WY LAMDER	256	-55	4361	-204	-454
KY LEXINGTON	185	-54	3080	282	491	OH YOUNGSTOWN	250	-44	3852	238	372	WY ROCK SPRINGS	279	-29	4780	60	-189
KY LOUISVILLE	179	-53	2915	251	559	OK OKLAHOMA CITY	157	-43	2435	178	141	WY SHERIDAN	259	-43	4374	-128	-477

Based on 1961-90 normals.

National Agricultural Summary

January 24 - 30, 1994

Precipitation fell across the Pacific coast early in the week, which boosted crop and pasture prospects. Much-needed moisture fell over the central Plains by midweek. Heavy rains, sleet, ice, and snow fell from eastern Texas to New England, which stopped fieldwork in the South, flooded fields in the Ohio Valley, and caused problems to livestock producers in the northern parts of the country. Temperatures were above normal for the week, which reduced livestock stress. Snow cover for winter wheat in the upper Midwest and northern Great Plains remained adequate. In the Ohio Valley, rains and melting snow caused flooding of some low-lying wheat fields. Snow fell in western Kansas at midweek, which provided protection for the winter wheat from low temperatures at the end of the week. Welcomed moisture fell on wheat fields in other parts of the central Great Plains. Wheat in the southern Great Plains also received moisture. However, more rain was needed to improve

crop prospects. In the Northwest, snow cover was little to non-existent in many areas. Mild conditions allowed some winter wheat fields to break dormancy in some areas of Idaho. Rain hindered fieldwork from New Mexico to Georgia, and in central California. The rains in the Texas Winter Garden area increased vegetable disease problems. Freezing rain and sleet concerned fruit growers in Michigan. Mild conditions in Washington caused early budding of some fruit trees, and made those trees vulnerable to frost. Recent rains benefited pasture feed conditions in California, Texas, and across the South. However, more warm, sunny weather was needed to promote growth. Muddy conditions stressed livestock in the Ohio Valley and parts of Texas. Mild conditions benefited livestock in the Northwest. Supplemental feeding was still active nationally. Shortages of hay occurred in parts of Arkansas, and quality forage was difficult to obtain in the Midwest.

(Continued from front cover)

climbed above 60°F as far north as **Omaha, NE** (63°F on Sunday) and **Washington, DC** (61°F on Monday). In the Northeast, an oscillating arctic front engendered wild temperature fluctuations. **Caribou, ME** tied its January record low with a -32°F reading on Wednesday, followed by a daily record high of 45°F on Friday. During the same period, **Montpelier, VT** observed a change from -30°F to 50°F. However, moisture accompanied the warmth into the **Midwest** and **Northeast**, resulting in accumulations of ice and snow into Thursday and early Friday before temperatures rose above freezing. Midweek snowfall totaled 5 inches in **Newark, NJ**, **Binghamton, NY**, and **Harrisburg, PA**. Snow also fell in the central Plains, providing beneficial moisture for winter wheat. Totals were highest in western **Kansas**, where **Goodland** reported 10 inches. Heavy snow also covered areas from eastern **Colorado** into the western **Great Lakes States**. Farther south, thunderstorms erupted at midweek across eastern **Texas** and traveled eastward, inundating the central **Gulf Coast States**. Rainfall exceeded 4 inches from **Louisiana** to the **Tennessee Valley**, causing widespread flash flooding. Heavy rain spread into the **Ohio Valley** on Thursday, causing widespread flash flooding and river flooding due to runoff maximized by partially frozen ground and snow melt. By late in the week, the **Ohio River** rose above flood stage along the **Ohio-West Virginia** border from **Parkersburg** to **Huntington**. Meanwhile, a new storm arrived in the **Southwest**, blanketing southern **California's** **Mt. Laguna** with 14 inches of snow. By Saturday morning, snow covered the ground in areas as far south as **Carlsbad, NM** and **Midland, TX**. Late-week snow also spread southward along the east slopes of the **Rockies**.

State Summaries of Weather and Agriculture

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

ALABAMA: Rainfall 1.12 to 3.76 in. north; 0.75 to 3.80 in. central; 1.79 to 5.47 in. south. Temperatures 3 to 9° above normal north, central; 1 to 7° above normal south. Lows 19 to 30° north; 20 to 30° central; 23 to 32° south. Highs 61 to 73° north; 68 to 76° central; 73 to 77° south.

Primary activities: General care of livestock, poultry, catfish.

ARIZONA: Normal temperatures returned. Averages varied 4° below normal to 3° above normal. Extremes 5°; 72° higher elevations; 23°; 78° deserts. Precipitation reported across State, generally under 0.25 in.

Small grains field preparations, planting almost complete. Small grain seeded 99%, 92% 1993, 97% avg.; established 97%, 86% 1993, 92% avg. Alfalfa fair to good. Harvest mostly light, sheepling off activities light; stand renovation, new stand establishment mostly normal. Citrus harvest active. Grapefruit, navel, sweet oranges, lemons available central, western areas. Tangerines, tangelos, also available central area. Winter vegetable harvest active. Available from western, central areas: Broccoli, cabbage, cauliflower, leaf, romaine lettuces, spinach. Western harvest also included: Iceberg, Boston lettuce, endive, escarole. Central crops available included: Beets, carrots, mixed greens, green onions, radishes, rapini, turnips. Pecans, tomatoes continued available eastern areas. Dry range, pasture conditions prevailed over most of State. Ranges, pastures feed 62% normal, 15 percentages points lower than last month. Cattle, calves remained fair to good condition. Stock water supplies short to adequate; soil moisture rated short. Below average to average amounts of feed supplies remained available on range, pastureland. Insect damage negligible.

ARKANSAS: Temperatures mild, generally averaging 5 to 10° above normal. Extremes 19°; 73°. Precipitation middle of week, heavy in southeast. Precipitation 0.30 to 8.89 in.

Soil moisture supplies adequate to surplus. Wheat condition fair to good, needs dry weather. Livestock, pastures good. Spotty hay, shortages in south west.

CALIFORNIA: Good amounts of precipitation most areas. Temperatures slightly above normal.

Rain, wet soils hampered progress field activities most areas. Growth small grains, winter forages considerably improved after rain. Some fields received fertilizer, herbicide applications. Rice straw burned limited areas prior to rain. Sugarbeets, dry beans, alfalfa irrigated, sprayed weeds. Cotton fields pre-irrigated, treated pre-emergent herbicides in preparation for planting. Fieldwork other spring planted row crops halted, wet conditions. Alfalfa, sudangrass greenchopped desert areas, good quality noted. Winter cultural activities progressed. Orchards pruned and sprayed. Bee hives went into some almond orchards. Grape growers active pruning and tying. Kiwifruit exports steady. One third navel orange crop picked; rind puffiness concerned growers. Lemon picking active in all districts. Grapefruit, tangerine harvests active with good quality.

Artichokes harvested Coachella Valley. Broccoli packed San Joaquin, Imperial Valleys. The young broccoli along central coast looks good. Cabbage harvest ongoing Kern, Riverside Counties. Carrots packed Kern County. Cauliflower harvested central, desert valleys, celery harvested desert valley. Cucumber beds prepared spring planting central valley. Head lettuce fields thinned Fresno County. Head, leaf, Romaine lettuce harvested Coachella valley. Lettuce progressing very well Tulare County. Planting melons just started Blythe area. Winter potatoes packed Riverside County, Kern County average harvest. Spinach harvest Coachella Valley. Processing tomato beds treated pre-emergent herbicides, irrigated, planted Fresno, Colusa Counties. Strawberry fields tarp fumigated Tulare County. The central coast fieldwork delayed due recent rains. Other crops being harvested: Sweet potatoes, parsley, squash, kale, taro root, various oriental vegetables. Additional rainfall prevented deterioration of foothill grasses. Supplemental feeding continues. Growth slowed, cold temperatures, lack of rainfall. Calving active. Livestock continued good condition.

COLORADO: Mild, dry weather prevailed over most of State the 24th, 25th. By the 26th low pressure brought much colder temperatures that remained the rest of the week. A winter storm brought heavy snow to the southern mountains, southwest on the 25th. On the 26th an arctic cold front brought an inch of snow to portions of the east, northeast. Temperatures above normal on the 24th, 25th, much below normal the remainder of the week.

General precipitation across the eastern part of the State was welcomed by winter wheat producers. Care of livestock main producer activity.

FLORIDA: Temperatures 2 to 10° above normal. Highs; mid 70s to mid 80s. Lows; near freezing to mid 60s. Heavy rains northern areas, 3.00 to 6.00 in. common. Peninsula, light, scattered showers, local totals exceeding 1.00 in.

Soil moisture mostly adequate throughout State with areas of short or surplus moisture. Sugarcane harvest, planting active. Maintaining tobacco beds. Making preparations for spring planted crops. Citrus trees statewide excellent condition; light new growth reported. Harvest near peak early, mid oranges, grapefruit. Active for Temples, tangelos, tangerines. Pre-bloom cultural practices active. Some field activity hampered by wet fields. Increasing planting activity of many spring crops. Leading vegetable shipments: Tomatoes, peppers, cabbage, celery, cucumbers. Also available: Snap beans, carrots, squash, chinese cabbage, sweet corn, eggplant, escarole, iceberg, leaf, romaine, specialty lettuces, radishes, strawberries, cherry tomatoes. Pasture feed 15% poor, 40% fair, 30% good, 15% excellent. Cattle herds mostly fair to good condition.

GEORGIA: Temperatures 3 to 6° above normal. Highs 60s along Tennessee border to 70s south. Lows 20s north to 30 central, upper 30s southeast. Rain 3 to 5 days. Rain totals 1.00 to 3.00 in., local areas south over 5.00 in.

Soil moisture adequate to surplus. Field preparation limited due to rains. Few reports of topdressing of small grain fields, tobacco bed preparation. Pecans, soybean, cotton harvest little progress. Crop conditions fair to good, mostly good. Pastures poor to fair.

HAWAII: Variable weather. Rainfall, snow on Mauna Kea early in week, followed by dry, warm temperatures (record high) midweek. Cold week's end caused by a dry, cold front; dropped mercury levels to new record lows. Rainfall 0.03 to 5.20 in. Temperatures low 50s to mid 80s.

Rains were beneficial to soil moisture, reservoir levels in dry areas. Most crop progress hampered by cold weather. Banana, papaya output should continue near last week's level.

IDAHO: Temperatures 5 to 10° above normal. Precipitation 0.02 to 0.35 in. north, 0.09 to 0.61 in. southwest, none to 0.14 in. south central, none to 0.22 in. east.

Soil moisture adequate. Hay, roughage supplies adequate. Activities: marketing, educational meetings, taxes, budgeting, shop activities, livestock care. Livestock good condition with calving, lambing. Nez Perce county reports winter wheat is growing at lower elevations due to warm weather.

ILLINOIS: Milder, wetter than normal conditions prevailed last week, with low pressure, cold front bringing an ice storm to northern, central parts of the State on 26th night, 27th. Highs upper 20s to mid 30s north to upper 30s to mid 40s north. Lows teens to mid 20s north, 20s to mid 30s south. Precipitation 0.20 to 3.00 in., with snow coverage from 1 to 6 in. over the north, central areas.

Farmer concerns continued in the areas of winter wheat, livestock conditions, supplies of quality hay.

INDIANA: Weather conditions turned warm which caused flooding in some areas due to melting snow, abundant rains, frozen ground. Temperatures mid to upper 20s north to near 40° south, 3 to 9° above normal. Highs near 30° north to the low 40s south. Lows near 20° north to the low 30s south. Precipitation slightly more than 1.00 in. north, west to around 2.50 in. south, east. Such amounts 0.75 to 1.00 in. above normal north, west to around 2.00 in. above usual south, east.

Warm weather has made most farm lots muddy, messy. Operators report both good, poor conditions on wheat fields, depending on the snowcover that was available during the recent cold snap. Hay supplies are good to adequate. Main activities focused on hauling manure, fixing fences.

IOWA: Temperatures 7° above normal southeast to 2° below normal northwest; return to much colder weather at the weekend. Extremes -20°; 44°. Major winter storm at mid week; up to 10 in. new snowfall northwest; 0.50 in. sleet/freezing rain common central. Precipitation 0.08 in. southeast to 1.25 in. northwest; average 0.47 in. (normal 0.22 in.). Snowpack water equivalent reaching potentially dangerous levels far northwest, especially Big Sioux, Floyd River basins. Ice, snow made routine farm chores difficult. Electrical outages added to the difficulties for those lacking emergency power.

KANSAS: Temperatures fell sharply as arctic air covered the State by the weekend. High temperatures in the 50s to 60s early in the week were replaced with teens, twenties at the weekend.

Northeast district was the warmest with an average of 13° above normal while the southwest 3° above normal. Precipitation in varying forms fell at midweek.

Snow in the western half of Kansas provided wheat protection from sub-zero temperatures late in the week. Rains elsewhere provided wheat with needed moisture. Almost 1.00 in. of precipitation fell in the northwest, while the southeast received about a third of an inch. Livestock remain in good condition, having received much less weather stress than a year ago. Relatively mild winter thus far has allowed producers to keep stock in condition without the large amounts of feed needed last year.

KENTUCKY: Temperature 40.3°, 7° above normal. Average high 45°; low 35°. Mean precipitation 1.60 in. Mild temperatures, rain melted most of snow.

Melting snow, rain flooded lowland. Farm lots became muddy, feeding difficult. No field activity, some manure hauling where ground firm. Repair began on storm damaged tobacco greenhouses. Livestock under some stress.

LOUISIANA: Temperatures 6.1 to 8.9° above normal. Extremes 25°; 79°. Rainfall 1.44 in. south east to 6.42 in. central.

North: heavy rains in excess of 6.00 in. fell which halted all fieldwork. Winter grazing of rye grass pasture, supplemental hay feeding continued active during the week. Farmers continued equipment repair, attending various extension meetings around the State. South: fieldwork was halted due to heavy rains. Main activities: cattle tending, grazing of rye grass, feeding of hay. Sugarcane farmers were busy with drainage work in their fields, equipment maintenance. Extension meetings, forums continued allowing farmers to keep up with current research, developments.

MARYLAND & DELAWARE: MARYLAND: Precipitation 1.04 in., normal 0.70 in. Temperature 32.1°, normal 32.4°. Extremes -23°; 63°.

Cold weather related activities. Caring for livestock. Frozen ground impairing manure spreading, small grain top-dressing.

DELAWARE: Precipitation 1.49 in., normal 0.73 in. Temperature 33.7°, normal 33.5°. Extremes 11°; 58°.

Cold weather related activities. Caring for livestock. Frozen ground impairing manure spreading, small grain top-dressing.

MICHIGAN: Extremes -23°; 46°. Precipitation 0.05 to 1.62 in. across the State. After a week of extremely cold weather, temperatures rose slightly above normal. Warmer weather brought a sleet, freezing rain storm that hit most of the Lower Peninsula.

Freezing rain, sleet brought more concern to the State's fruit producers. Livestock were stressed somewhat by the previous week's bitter cold, freezing rain, sleet last week. Feed supplies were adequate. Activities: plowing snow, hauling corn, soybeans to market, thawing pipes, automatic waters, hauling manure.

MINNESOTA: Temperatures 2° below normal to 3° above normal for the State. Extremes -35°; 44°. Precipitation 0.02 to 0.12 in. below normal for northern third., 0.18 to 0.54 in. above normal elsewhere. Precipitation 0.01 to 0.73 in. by division. Greatest weekly precipitation 1.07 in. Snowfall 6 to 10 in. for the southern third of the State and 1 to 4 in. elsewhere. Snow depth at weekend 11 to 25 in. for State.

Indoor activities of tax preparation, attending producer meetings dominate the agricultural scene. Livestock producers continue to attend to the feeding through large temperature swings.

MISSISSIPPI: Temperatures 8.4° above normal. Extremes 11°; 76°. Heavy precipitation experienced throughout State, with the south-central district accumulating over 7.00 in. Rainfall 3.86 in., 2.73 in. above normal. Soil temperature 49°. Days suitable for fieldwork 1.5, 1.6 1993, 1.4 avg. Soil moisture 30% adequate, 45% surplus, 25% excessive. Hay supply 10% very short, 25% short, 65% adequate. Livestock 5% poor, 45% fair, 50% good. Pasture feed 76% of normal. Activities: feeding livestock.

MISSOURI: Temperatures 10 to 13° above normal across State, cooler by weekend. Precipitation about 0.10 in. across northern third to over 1.00 in. east central, southeast. Farm work consisted of barnyard work, bookkeeping, planning for spring crop season.

MONTANA: Temperatures above normal. Precipitation light. Protectiveness of snowcover for winter wheat 46% poor, 26% fair, 28% good. Wind damage to winter wheat 29% none, 57% light, 12% moderate, 2% heavy. Grazing is 69% open, 31% difficult. Supplemental feed was given to 92% of the livestock. Calving, lambing have started under good conditions.

NEBRASKA: Temperatures varied from 3° above normal Panhandle to 5° below normal north-central. Precipitation in the form of rain, sleet, snow produced moisture of 0.10 in. Panhandle; up to 0.70 in. northeast. Winter wheat 2% poor, 32% fair, 66% good. Feed grain supplies 4% short, 88% adequate, 8% surplus. Hay, forage supplies 4% short, 87% adequate, 9% surplus. Cattle were grazing stalks for most of month. Some supplemental feeding necessary due to cold temperatures, snowcover. Calving, lambing activities underway with 4% calved. Cattle 9% fair, 89% good, 2% excellent. Producer activities included financial, crop season planning, machinery repair, maintenance.

NEVADA: Low pressure brought some precipitation early in the week, high pressure brought drier, stable air by end of period. Temperatures generally near normal. Extremes -7°; 70°. Mild temperatures easy on livestock feeding requirements, also great for calving, lambing. Lack of precipitation continues to concern farmers/ranchers. Major activities: care, feeding of livestock, general maintenance.

NEW ENGLAND: Precipitation unavailable. Temperatures unavailable. Maximum, minimum temperatures unavailable. Major farm activities: Removing snow from barnyards, caring for livestock. Attending farm organization meetings.

NEW JERSEY: Temperatures near normal; 25° north, 32° south, 36° coastal. Extremes -13°; 59°. Precipitation was above normal; 2.07 in. north, 1.94 in. south, 1.09 in. coastal. Heaviest 24 hour total 1.46 in. on 28th, 29th. Heaviest 24-hour snowfall 6 in. on the 25th, 26th. Snow on ground on 31st: little in south, none to 4 in. central, 5 to 10 in. north. Farmers busy caring for livestock, tending to other normal winter chores.

NEW MEXICO: Week started warm, turned abruptly colder during the latter half. Overall, temperatures for the State averaged very close to normal. Extremes ranged from 72° at Roswell on the 25th to -4° at Gallup on the 29th. Most areas of the State received some precipitation from two winter storms that traversed the area during the week. Higher totals included 0.47 in. at Las Cruces, 0.41 in. at Johnson Ranch, 0.37 in. at Alamogordo.

Farming activities continued to focus around land preparation for spring planting, were slowed by winter storms. Supplemental feeding was still prevalent in most livestock areas.

NEW YORK: Weather data not available.

Major activities: Tending livestock, spreading manure, attending meetings, general maintenance. Extreme coldness, snow made outside activities very difficult. Snow removal continued as more snow fell. Extreme cold temperatures set record lows in many areas.

NORTH CAROLINA: Mean temperatures 42° at Asheville to 54° at Cape Hatteras. Precipitation 0.73 in. at Greensboro to 1.56 in. at Asheville.

Activities included: Tobacco plant bed preparation; tending livestock; general farm maintenance, cutting wood.

NORTH DAKOTA: Temperatures 1 to 4° above normal. Extremes -21° northeast, southeast; 42° southwest, south central. Snowcover sufficient to protect fall-seeded crops in most areas. Cattle, sheep were in good condition. Warmer temperatures were less stressful for livestock, feed requirements remained above normal. Calving underway in some areas. Secondary roads had snow drifting in some areas. Grain marketing normal to below normal.

OHIO: After surviving frigid arctic temperatures the previous week, the State experienced rather mild weather much of this period. With the mild temperatures came more moisture, however. Low pressure moved out of the southern Plains through the Ohio Valley, brought rain to the State. Rain plus snowmelt combined to cause some lowland river, stream flooding on the 28th, 29th. Cold temperatures returned on the 29th, 30th as well. Temperatures 3 to 6° warmer than normal across most of the State. Highs in the lower 30s to the lower 40s, reached into the 50s across the south. Lows ranged from the upper teens to lower 30s. The coldest day was the 31st with lows in the single digits, teens. Precipitation 1.00 to 2.00 in. with some areas getting over 2.00 in., a few areas in the northwest received under 1.00 in.; most of the precipitation fell as rain. Some snow fell on the 29th, 30th, creating 1 in. or less of snowcover.

Winter wheat experienced some ponding during the period, especially in low-lying areas. Livestock continued to require considerable amounts of roughage.

OKLAHOMA: Temperatures 1° below normal Panhandle 6° above normal east-central. Precipitation 0.08 in. central 1.30 in. east-central.

Light rain fell in all areas of the State. Western counties need more rain to improve growing conditions, crop prospects. Heavier weight feeders weak to \$2.00 lower, lighter weights were steady.

OREGON: Temperatures above normal statewide; 5 to 6° above normal northeastern areas, 1 to 3° above normal elsewhere. Coast 1.00 to 4.00 in., remainder of western areas 0.50 to 1.00 in., eastern areas less than 0.10 in.

Soil moisture: adequate. Winter orchard pruning continued. Snowpack down to 60% of normal in Cascades. Livestock good to excellent. Supplemental feeding continued, statewide.

PENNSYLVANIA: Two separate storm systems delivered above normal precipitation. First brought mostly snow; second brought significant ice accumulations for central, eastern areas. Temperature 31°, 5° above normal. Extremes -20°; 58°. Precipitation 1.46 in., 0.82 in. above normal.

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

PUERTO RICO: Rainfall 0.61 in. was 0.02 in. below normal. Rainfall 2.80 in. at Isabela, 1.79 in. at Las Marias, 1.62 in. at Villalba. Highest 24 hour rainfall 1.54 in. at Central San Francisco on 23rd. Temperatures 75 to 76° on the coasts, 70 to 74° in the interior with mean station temperatures 80.6° Fajardo to 62.1° Pico del Este Luquillo. Extremes 56°; 91°.

SOUTH CAROLINA: Temperatures 4 to 7° above normal across State. Average precipitation 1.10 in.

Farm activities: Small grain condition fair to good, no cold damage reported as of yet. Some soil samples taken. Tobacco beds good. Livestock good.

SOUTH DAKOTA: Temperatures normal to 10° below normal across most of the State, except in the extreme west central where average temperatures were up to 9° above normal. Extremes -34°; 56°. Precipitation generally above normal, 0.83 in. above normal to 0.14 in. below normal. Maximum 0.94 in.

Farm activities include: Livestock care, tax accounting, farm shows, livestock sales, routine chores.

TENNESSEE: Temperatures were above normal, highs reached the mid to upper 40s. West region was above the norm by 11° while the east region 7° above normal. Extreme maxima 49° at Bristol, Knoxville, Crossville to 56° at Memphis. The lows averaged 37° at Bristol, Knoxville, Crossville to 43° at Memphis. Precipitation above normal with some areas receiving more than 3.00 in. of rain, ranging from 1.81 in. above normal in the west to 0.42 in. above normal in the east. Jackson received the most rain with 3.81 in.

Cattle made it through the cold spell with very few problems. Routine farm maintenance, chores are the main activities.

TEXAS: Late last week cold surge of air pushed deep into Texas, set stage for wintery conditions across several areas of State. Moist air flowed over shallow cold air, caused cold rains to occur in South Texas. Further north, frozen precipitation of all forms occurred at end of week, through weekend. Amarillo received several inches of snow as did many other spots around West Texas area. Freezing rain hampered farm, ranch operations across portions of North, East Texas. Temperature data showed that readings were below normal overall in High Plains area, where coldest conditions occurred. Very mild conditions early in week offset cold change that occurred at weekend. Unfortunately rainfall was behind average in driest portions of State. Trans-Pecos got slightly more than average, not near enough to offset very dry situation that is common in West Texas now.

Crops: Small grains recent rains should boost growth of small grains across State, more rain mixed with sunshine is needed to promote good growth. In Cross Timbers, wheat fields were looking better. Some producers were having to contend with greenbugs in Blacklands, Edwards Plateau, Southern Low Plains. Some East Texas fields were in need of fertilizer. Wheat 54% normal, 66% 1992.

Commercial Vegetables: In Rio Grande Valley, harvesting of broccoli, cabbage, carrot, cauliflower, greens remained active. Land preparation was well underway for watermelons. In East Texas, some cool season crops were planted. Field activity was limited by rain. In High Plains, land preparation continued. In San Antonio-Winter Garden area, recent rains have increased disease problems in some areas. In Trans-Pecos, onion, garlic seedings made good progress. Some onion sets were planted, land preparation continued. Pecans harvest was virtually completed across State. In Trans-Pecos, producers were pruning trees in commercial orchards. Peaches producers were pruning trees, applying dormant oils. More hours of cold temperatures are needed for a good crop. In South Central Texas, a few early varieties have already started to bloom. In Blacklands, some trees were already showing signs of bud swelling.

Range and Livestock: Livestock remained in various conditions across State. Some cattle were showing signs of stress from muddy conditions in some areas of Blacklands. Recent rains should boost growth of winter weeds, cool season grasses across State, more moisture is needed. Wheat pasture

was starting to run out in some areas of Northern High Plains. Predator problems were picking up in some areas of Edwards Plateau. In Trans-Pecos, ranchers were preparing for goat, sheep sheering. In Northern Low Plains, lice were a problem in some untreated cattle herds. Cattle market remained steady.

UTAH: Temperature maximums 6° above normal, minimums averaged 8° above normal. Precipitation was light to moderate across the entire State.

Major farm activities were: Feeding, caring for livestock; general farm, equipment maintenance; marketing hay, grains.

VIRGINIA: Temperatures near normal. Extremes 14°; 68°. Precipitation near normal. Significant ice accumulations occurred in the northern, western counties.

Days suitable for fieldwork 0.4. Topsoil 2% short, 27% adequate, 71% surplus. Winter grains, grazing crops condition 11% poor, 77% fair, 12% good. Forage from pastures, grazing crops dairy cattle 1%, beef cattle 4%, sheep 4%. Feeding, watering livestock, pesticide recertification, repairing machinery, working on farm records, some topdressing wheat.

WASHINGTON: Temperatures 2 to 7° above normal west; 5 to 13° above normal east. Precipitation 0.29 to 1.44 in. west; none to 0.31 in. east.

Days suitable for fieldwork 4.5. Soil moisture 25% short, 74% adequate, 1% surplus. Hay, other roughage supplies 14% short, 85% adequate, 1% surplus. Range, pasture 15% very poor, 15% poor, 35% fair, 35% good. Winter wheat dryland 2% very poor, 4% poor, 35% fair, 59% good; irrigated 2% fair, 98% good. Barley dryland 4% very poor, 10% poor, 61% fair, 25% good; irrigated 10% fair, 90% good. Some fieldwork was underway, including plowing, other preparations for spring. Grass growth in many pastures was noted due to the mild weather. Pruning of fruit trees, vineyards, caneberries continued. Early budding of fruit trees was bringing fear of frost damage in some areas. Calving, lambing were underway or just around the corner in most areas. Except for a few respiratory problems, disease has been light thus far. Feed requirements continued to remained low due to the mild weather.

WEST VIRGINIA: Temperature 37°. Extremes 16°; 64°. Precipitation 1.10 in. Temperatures 4 to 12° above normal. Precipitation above normal.

Farm activities: Calving, lambing, feeding livestock, bookkeeping, general maintenance.

WISCONSIN: Temperature 13°. Extremes -36°; 38°. Late-January frost depth was 18.9 in., 13.7 in. 1992, 14.4 in. 32-yr avg. Snow depth 10.4 in., 8.6 in. 1992, 9.7 in. 32-yr avg.

Farmers are spending extra effort keeping water flowing, livestock protected from severe temperatures. Snow removal fills in the remainder of the days' activities.

WYOMING: Temperatures mostly normal to above normal across the State. Exception was Jackson 5° below normal. Worland 14° above normal. Precipitation was above normal in the southern portion of the State, below normal in the northern parts. Lander received the largest amount of precipitation with 0.59 in.

Winter wheat 27% fair, 73% good. Snowcover protection on winter wheat was 48% short, 31% adequate, 21% surplus. Wind damage to winter wheat was 69% light, 20% moderate. Livestock condition for cattle was 10% fair, 85% good, 5% excellent. Condition of sheep was 12% fair, 83% good, 5% excellent. Grazing prospects were 8% poor, 48% fair, 44% good. Hay, roughage supplies were 10% short, 90% adequate. Spring calving 4% complete: Lambing 6%. Eleven percent of the farm flock sheep were shorn.

International Weather and Crop Summary

HIGHLIGHTS

January 23 - 29, 1994

FSU-WESTERN: The seventh consecutive week of unseasonably warm weather covered dormant winter grains.

EUROPE: Substantial precipitation soaked northern Europe, while unfavorable dryness persisted in Spain.

SOUTH ASIA: Warm, dry weather enhanced growth of winter crops in or nearing reproduction.

SOUTHEAST ASIA: Seasonable showers covered crop areas of eastern Philippines and most of Indonesia and Malaysia.

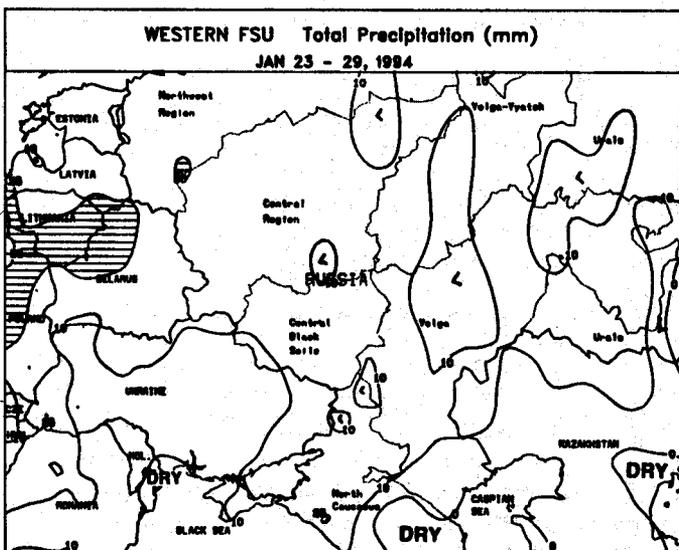
EASTERN ASIA: Seasonably dry weather prevailed in the North China Plain.

AUSTRALIA: Dry weather stressed eastern crop areas.

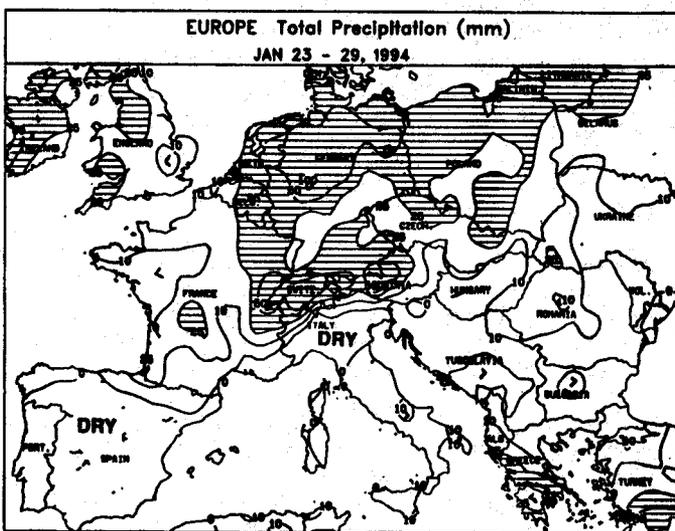
SOUTH AMERICA: Widespread showers favored summer crops across Argentina, southern Paraguay, and southern Brazil.

NORTHWESTERN AFRICA: Mostly dry weather limited moisture for vegetative winter grains in Morocco, Algeria, and Tunisia.

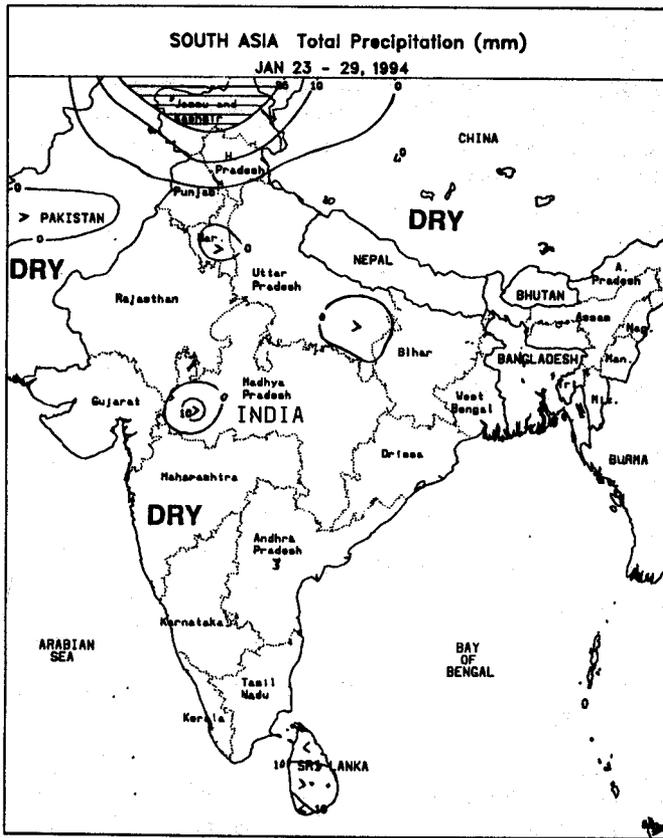
SOUTH AFRICA: Mild, showery weather benefited reproductive corn.



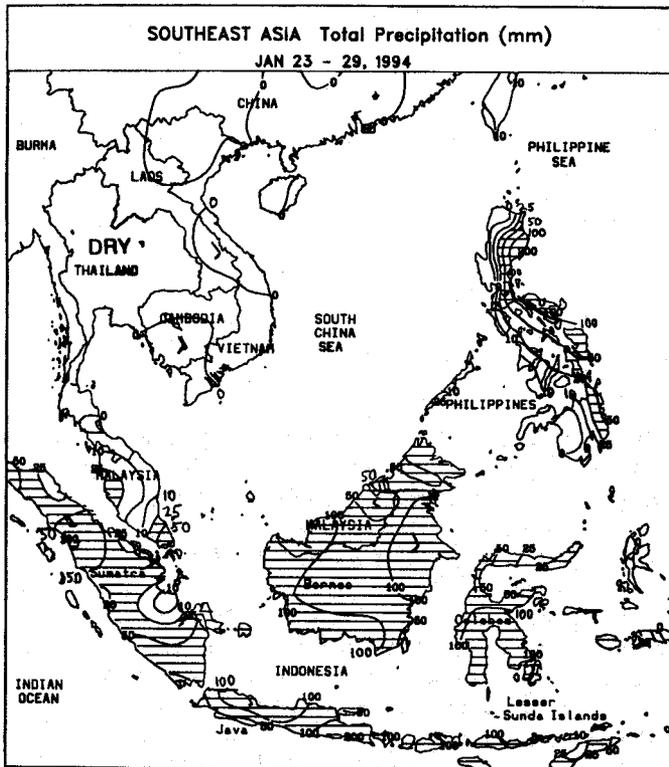
FSU-WESTERN: The seventh consecutive week of unusually warm weather favored winter grains in the Baltic States, Belarus, Russia, and Ukraine. Weekly average temperatures, ranging from 1 to 3 degrees Celsius (C) in the south and -3 to -1 degrees C in the north, were low enough to keep winter grains dormant. However, the mild weather melted most of the protective snow cover in Ukraine and North Caucasus. Widespread precipitation fell over the region. Precipitation amounts in the Baltic States, Belarus, and Russia ranged from 10 to 37 mm, with lesser amounts of moisture (2-10 mm) falling over Ukraine.



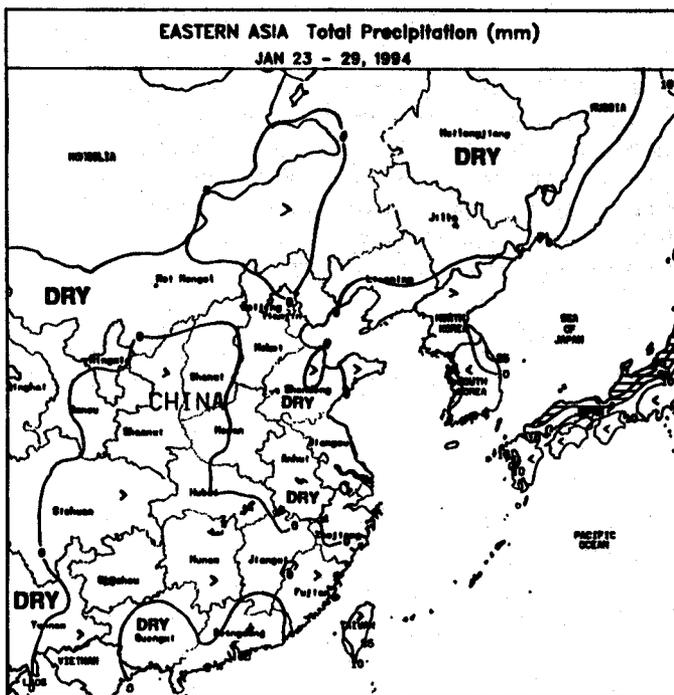
EUROPE: Widespread rain covered northern and eastern crop areas, while dry weather prevailed over Spain and Italy's Po Valley. Severe storms pounded north-central Europe. The heaviest rain (50-100 mm) drenched northern Germany, with a broad area of 20-50 mm amounts extending from east-central France to Poland. Periodic, variable showers (5-20 mm) kept topsoils moist over southern England, France, and much of eastern Europe. Heavier showers (10-45 mm) in western Greece promoted winter crop growth. In contrast, dry weather prevailed over Italy's Po Valley and the Iberian peninsula. Soil moisture is especially low over the southeastern half of Spain. While temperatures averaged near to above normal throughout Europe, minimum temperatures in Spain fell below freezing, slowing early vegetative growth of winter grains.



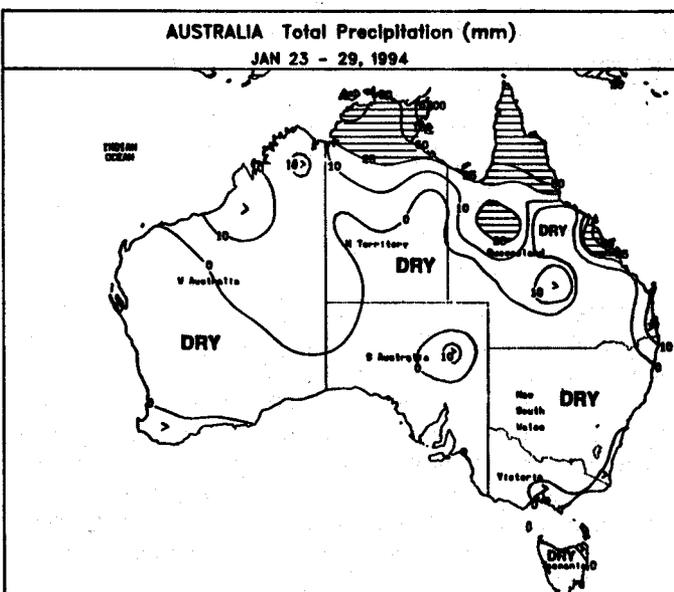
SOUTH ASIA: Dry, warm weather dominated the region, enhancing growth of winter grains and oilseeds and increasing irrigation requirements. Winter wheat in India and Pakistan advances through the heading and flowering stages in January and February. Although the rain received 2 weeks ago helped rainfed crops, more is needed soon to carry the crop through moisture-sensitive stages of development.



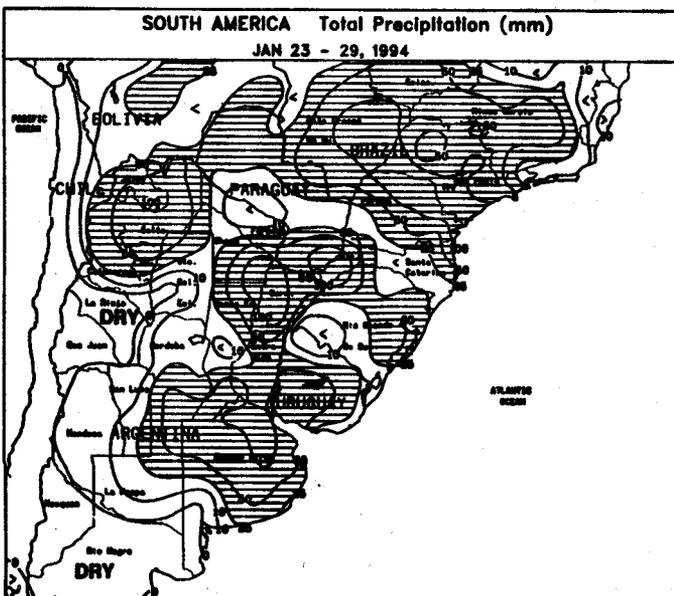
SOUTHEAST ASIA: Moderate to heavy showers (50-100 mm or more) fell across eastern Philippine crop areas, with more moderate rain (19-36 mm) covering rice and sugarcane areas of the west-central islands. The rain exacerbated flooding in southeastern Luzon. Elsewhere, light rain (25 mm or less) covered rice and oil palm areas of western Malaysia, but heavy showers (50-100 mm or more) covered a large area from eastern Malaysia to Java and the Lesser Sunda Islands. While the rainy season arrived late, Java's rice crop currently has adequate to abundant moisture, with the heavy rainfall in recent weeks causing some flooding.



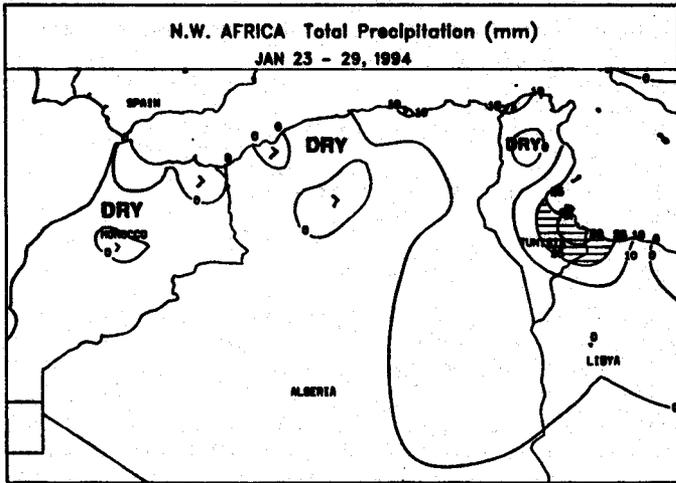
EASTERN ASIA: Seasonably dry weather continued across the North China Plain, with temperatures averaging 1-2 degrees C above normal. However, temperatures are still cool enough for winter wheat to remain dormant.



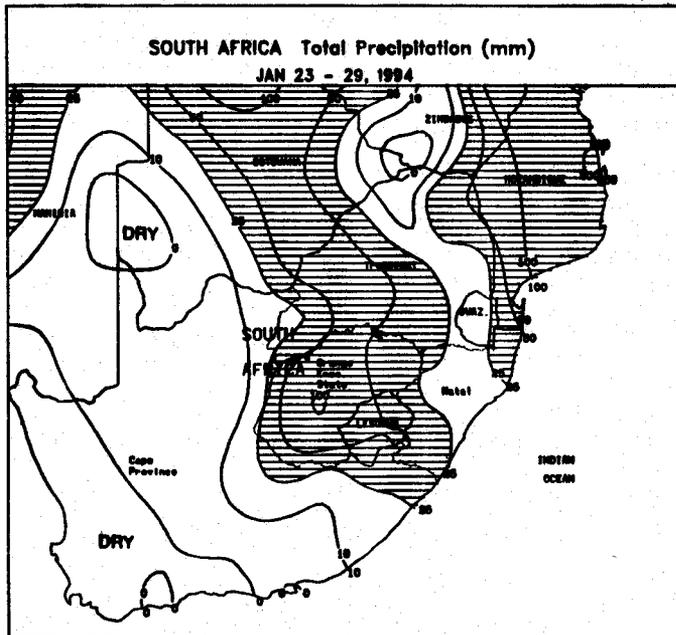
AUSTRALIA: Dry weather prevailed across the eastern summer crop region, except for isolated showers (10-30 mm) in south-central Queensland. The dry weather stressed vegetative cotton and sorghum. Temperatures averaged 1-2 degrees above normal across the summer crop region, further reducing soil moisture. Scattered showers (10-80 mm) fell across the main Queensland sugarcane region.



SOUTH AMERICA: Early-week moderate to heavy showers (15-90 mm) covered the prime summer crop region of Argentina, favoring vegetative soybeans and vegetative to reproductive corn. The rain was especially beneficial across southern Santa Fe, which was trending dry. Drier, warmer weather prevailed late in the week, aiding crop development. Moderate showers (25-100 mm) fell across northern Argentina, benefiting cotton. Weekly temperatures averaged near normal across the region. Across southern Brazil, widespread showers (20-100 mm) continued to favor vegetative to reproductive corn and soybeans. Isolated heavier showers (150-250 mm) fell across portions of northern Parana and Sao Paulo, causing local flooding. Southern Paraguay received much-needed rain (15-40 mm, with isolated amounts greater than 75 mm), benefiting cotton and soybeans. Temperatures averaged near normal across southern Paraguay and extreme southern Brazil and 1-3 degrees above normal elsewhere in southern Brazil.



NORTHWESTERN AFRICA: Mostly dry weather prevailed over winter grain areas in Morocco, Algeria, and Tunisia. Moisture reserves were limited for winter grains in the vegetative stage, and rain is needed soon to ease developing stress. Weekly average temperatures were near normal over most areas.



SOUTH AFRICA: Widespread showers benefited crops in or nearing reproduction throughout primary corn areas. Most areas received at least 25 mm, although lighter rain (6-19 mm) fell in northwestern crop areas. Rainfall ranged from 15 to 59 mm across the Cape Province and Natal, but coastal sugarcane areas received 20-25 mm. Temperatures averaged 1-3 degrees C below normal throughout the region, reducing crop moisture demands.

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