

# WEEKLY WEATHER AND CROP BULLETIN

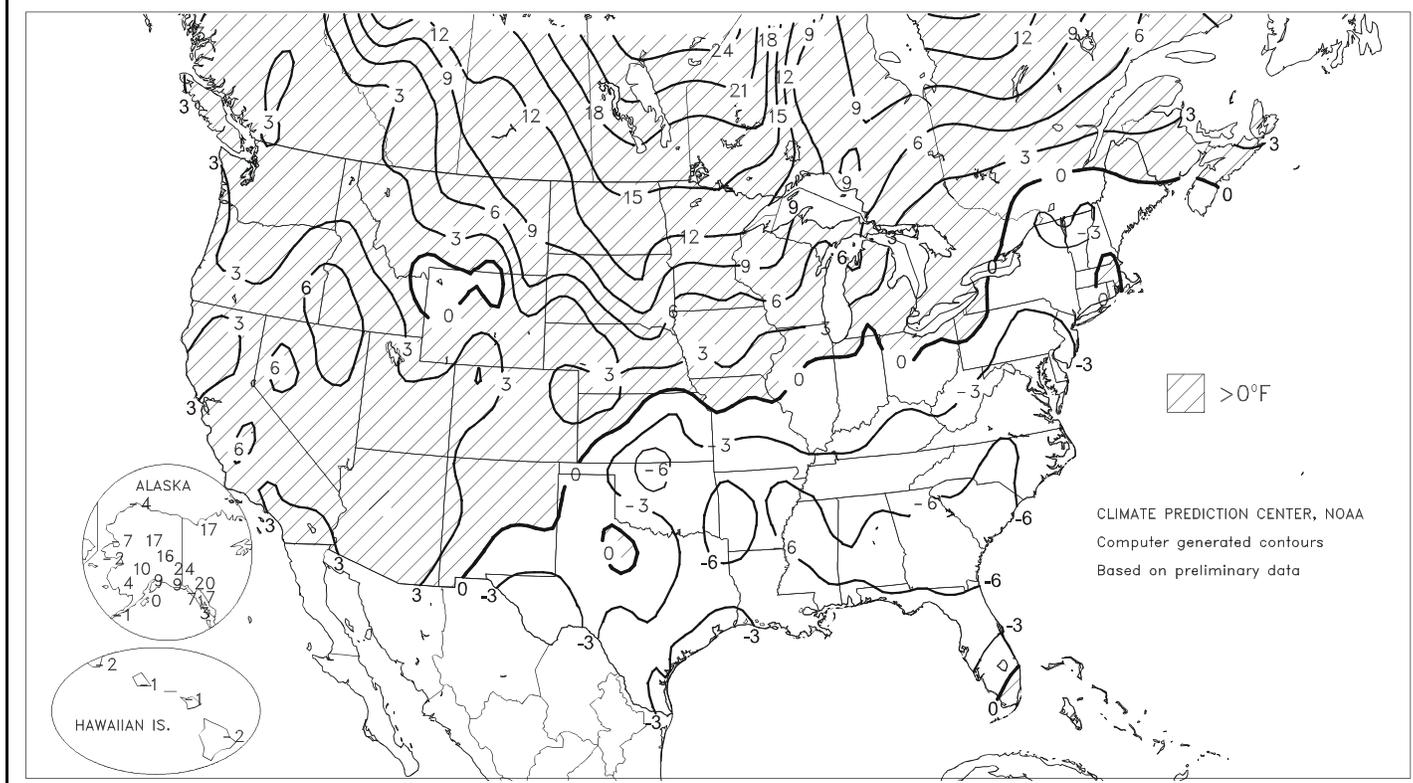
U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Weather Service

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



Departure of Average Temperature from Normal (°F)

JAN 30 - FEB 5, 2000



## HIGHLIGHTS

January 30 - February 5, 2000

A generally quieter weather pattern evolved across much of the Nation, although very cool conditions lingered in the **East** and **South**. In addition, occasional snowfall continued in the **East**, while much-needed showers dampened parts of **central and southern Texas**. Farther west, beneficial rain and snow fell across **northern and central California** for the fourth week in a row, while locally heavy precipitation returned to the **Pacific Northwest** for the first time since mid-January. Meanwhile in the **Southwest**, a fourth consecutive week of warm weather (up to 7°F above normal) brought further intensification of the region's 4-month dry spell. On the

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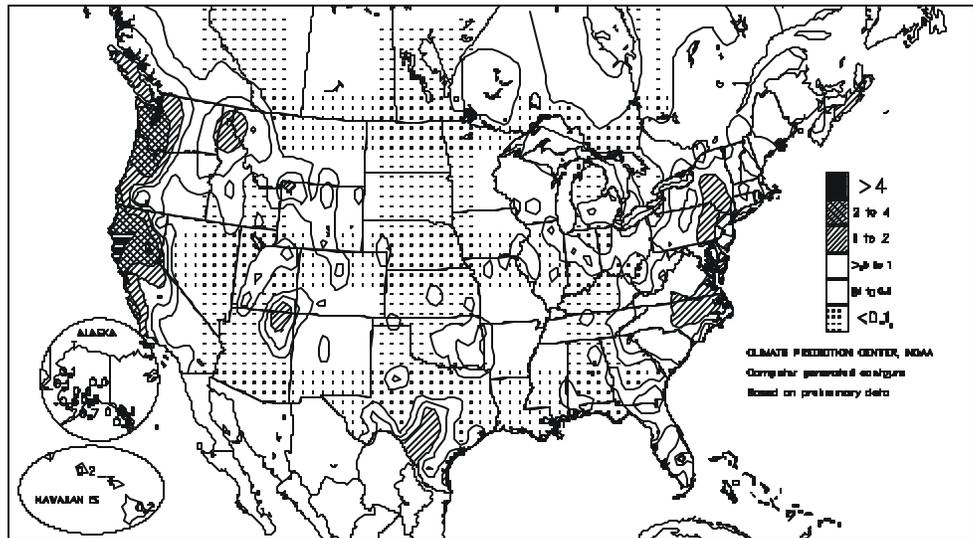
**northern Plains**, where warmer-than-normal weather has prevailed for 15 consecutive weeks, temperatures ranged from 2 to 16°F above normal. Farther east, milder air overspread the **Midwest**, following a 3-week cold snap. However, temperatures averaged as much as 8F below normal in the **Southeast**, where a late-week cold snap produced near-freezing temperatures for the second time in 10 days across **Florida's** northern citrus and cool-season vegetable areas, and may have adversely affected **southern Louisiana's** emerging sugarcane.

Precipitation tapered to showers across **northern and central California** at the end of January, then returned toward week's end. Following **Sacramento's** driest December 10 - January 10 period on record (no measurable rainfall), their January rainfall reached 7.20 inches. The high-elevation **Sierra Nevada** snowpack increased 10 inches in less than 1 month, from about 20 percent of normal on January 10 to nearly 70 percent on February 15. Farther east, beneficial rainfall overspread **south-central Texas** at midweek, totaling 1.11 inches in **San Antonio** and 0.92 inch in **Del Rio**. During January, **Del Rio** received only 0.03 inch. Elsewhere, early-week showers dampened the **southern Atlantic Coast region**, where **Orlando, FL** (0.51 inch on Monday) notched a daily-record rainfall. Occasional snow continued along and near the **East Coast** farther to the north, where early-week totals ranged from 6 to 12 inches in many **Mid-Atlantic piedmont** locations. In **eastern Maine**, **Caribou** noted 43.7 inches during the month, their second-snowiest January on record.

Except in the **East** and **South**, warm conditions prevailed for most of the week, resulting in more than a dozen daily-record highs. On Wednesday, highs in **southern California** soared to 83°F in **San Diego** and **Chula Vista**. Meanwhile on the **central High Plains**, **Yuma, CO** posted a record-tying high of 66°F. Daily-record warmth also overspread the **northern Plains** at midweek, where **Grand Forks, ND** registered 48°F. In contrast, a reinforcing shot of cold air spread into the **Southeast** at week's end. By Sunday morning, February 6, lows included 26°F in

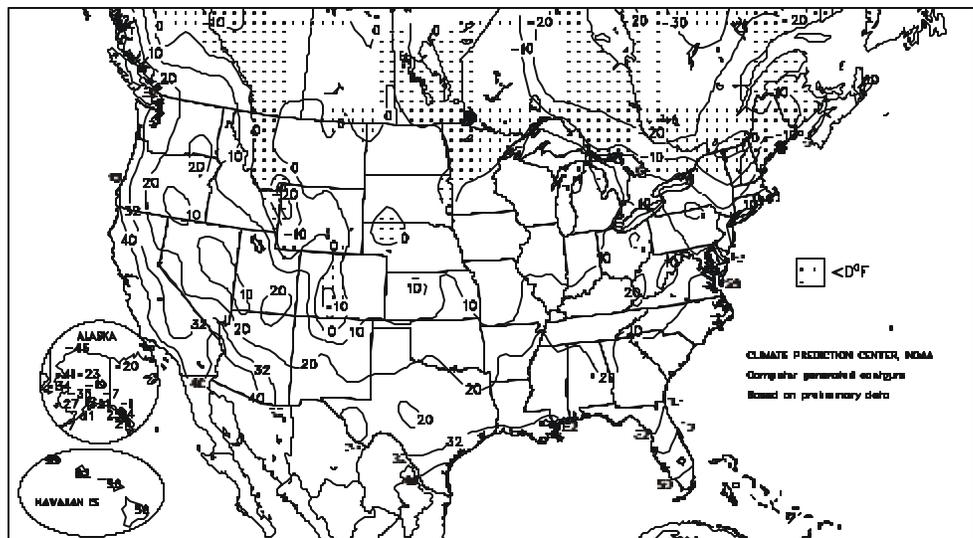
### Total Precipitation (Inches)

JAN 30 - FEB 5, 2000



### Extreme Minimum Temperature (°F)

JAN 30 - FEB 5, 2000



**Baton Rouge, LA** and 20°F (a daily record) in **Montgomery, AL**. Across **central Florida**, lows in key agricultural areas were generally a few degrees warmer than during the January 27 cold outbreak, thus again resulting in minimal damage to tender ground crops. Lows included 33°F (2°F warmer than on January 27) in **Leesburg** and 32°F (1°F warmer) in **Ruskin**.

Very mild weather continued for the third consecutive week across **interior Alaska**, where temperature departures reached +17°F. Elsewhere, however, stormy, cold conditions (as much as 7°F below normal) affected **southern and western Alaska**, especially during the mid- to late-week period. On Wednesday, wind gusts reached 87 mph in **Cordova** and exceeded 100 mph in the **Anchorage** area. Meanwhile, cool, mostly dry weather prevailed in **Hawaii**.

National Weather Data for Selected Cities

Weather Data for the Week Ending February 5, 2000

Data Provided by Climate Prediction Center (301-763-8000, Ext. 7503)

STATES AND STATIONS	TEMPERATURE EF						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	TEMP. EF		PRECIP	
																90 AND ABOVE	32 AND BELOW	0.1 INCH OR MORE	5.0 INCH OR MORE
AL BIRMINGHAM	49	25	58	21	37	-6	0.00	-1.12	0.00	8.65	78	5.72	97	85	36	0	7	0	0
HUNTSVILLE	45	25	58	20	35	-5	0.00	-1.12	0.00	7.64	64	4.24	71	89	48	0	7	0	0
MOBILE	57	34	65	28	45	-6	0.22	-0.98	0.20	6.11	56	2.68	47	91	44	0	3	3	0
AK MONTGOMERY	52	27	60	21	39	-8	0.09	-1.11	0.09	7.42	69	4.04	72	90	36	0	6	1	0
ANCHORAGE	30	21	45	12	25	9	0.81	0.62	0.32	3.70	180	2.15	231	96	69	0	7	6	0
BARROW	-7	-34	18	-46	-20	-4	0.01	-0.02	0.01	0.51	146	0.38	200	-99	-99	0	7	1	0
FAIRBANKS	19	-4	41	-19	8	16	0.00	-0.10	0.00	1.64	117	1.29	235	87	68	0	7	0	0
JUNEAU	38	28	46	24	34	8	0.13	-0.87	0.11	15.13	156	4.83	92	10	76	0	5	3	0
KODIAK	35	26	41	11	30	0	0.67	-0.84	0.26	9.78	64	2.77	33	91	62	0	3	6	0
NOME	12	-6	28	-34	3	-2	0.12	-0.05	0.10	2.68	154	2.47	271	90	67	0	7	2	0
AZ FLAGSTAFF	49	21	57	14	35	5	0.00	-0.48	0.00	0.32	7	0.32	13	75	24	0	7	0	0
PHOENIX	72	47	76	44	60	4	0.00	-0.15	0.00	0.01	1	0.01	1	41	13	0	0	0	0
TUCSON	72	39	78	33	56	3	0.00	-0.18	0.00	0.10	5	0.10	10	35	11	0	0	0	0
YUMA	73	50	77	46	62	3	0.00	-0.06	0.00	0.00	0	0.00	0	49	21	0	0	0	0
AR FORT SMITH	46	23	60	19	35	-4	0.00	-0.50	0.00	6.89	130	1.88	83	93	51	0	7	0	0
LITTLE ROCK	47	25	64	20	36	-4	0.00	-0.79	0.00	6.47	73	1.23	31	86	45	0	7	0	0
CA BAKERSFIELD	67	46	77	40	57	6	0.12	-0.12	0.12	1.08	65	0.95	91	90	36	0	0	1	0
EUREKA	**	**	**	**	**	**	**	**	**	12.74	100	9.72	145	**	**	**	**	**	**
FRESNO	65	46	77	42	55	6	0.32	-0.13	0.31	3.21	87	3.18	139	97	41	0	0	2	0
LOS ANGELES	69	53	79	50	61	4	0.20	-0.42	0.10	1.23	27	0.83	29	86	49	0	0	2	0
REDDING	55	41	67	37	48	-1	2.77	1.54	1.06	9.58	77	8.95	129	10	66	0	0	6	3
SACRAMENTO	59	45	64	42	52	4	0.60	-0.21	0.24	7.55	111	7.52	175	98	64	0	0	6	0
SAN DIEGO	69	53	83	49	61	3	0.03	-0.36	0.02	0.52	14	0.20	10	84	45	0	0	2	0
SAN FRANCISCO	60	51	64	50	55	4	1.00	0.10	0.54	6.61	82	6.14	123	94	65	0	0	5	1
CO ALAMOSA	40	1	52	-8	21	3	0.08	0.02	0.08	0.26	35	0.23	77	91	35	0	7	1	0
CO SPRINGS	42	18	57	1	30	0	0.00	-0.06	0.00	0.88	111	0.68	206	70	31	0	7	0	0
DENVER	48	20	62	10	34	3	0.00	-0.11	0.00	0.54	44	0.26	45	75	25	0	6	0	0
GRAND JUNCTION	44	24	50	19	34	4	0.03	-0.08	0.03	1.61	129	1.35	211	89	43	0	7	1	0
PUEBLO	51	16	70	0	33	1	0.00	-0.06	0.00	0.39	50	0.34	94	82	27	0	7	0	0
CT BRIDGEPORT	33	22	38	13	27	-2	0.49	-0.24	0.22	4.67	64	2.29	61	81	44	0	7	4	0
HARTFORD	30	17	37	1	24	-1	0.45	-0.33	0.31	4.50	57	2.23	56	89	42	0	7	3	0
DC WASHINGTON	38	26	42	22	32	-3	0.75	0.11	0.72	5.53	88	3.04	95	81	40	0	7	2	1
DE WILMINGTON	34	20	35	10	27	-4	0.78	0.08	0.70	5.65	80	3.80	107	90	50	0	7	4	1
FL DAYTONA BEACH	63	43	78	34	53	-5	0.37	-0.36	0.35	3.36	57	1.80	55	91	50	0	0	2	0
JACKSONVILLE	61	34	75	28	48	-5	0.41	-0.50	0.41	3.66	55	2.77	69	91	35	0	3	1	0
KEY WEST	75	65	79	60	70	0	0.48	0.02	0.47	1.63	37	0.98	42	95	69	0	0	2	0
MIAMI	75	62	79	53	68	0	0.14	-0.35	0.12	3.34	80	0.66	28	90	58	0	0	3	0
ORLANDO	67	47	80	38	57	-3	0.63	-0.02	0.51	3.99	81	1.34	48	92	44	0	0	4	1
PENSACOLA	56	36	65	31	46	-5	0.03	-1.21	0.03	6.97	71	3.06	55	84	34	0	2	1	0
TALLAHASSEE	60	31	68	27	45	-6	0.39	-0.84	0.39	5.13	48	2.58	45	93	41	0	5	1	0
TAMPA	65	49	73	41	57	-3	0.62	-0.01	0.55	3.04	66	2.02	82	95	54	0	0	3	1
WEST PALM	74	57	78	49	65	0	0.06	-0.57	0.05	2.67	47	1.22	38	93	57	0	0	2	0
GA ATHENS	48	27	58	23	37	-6	0.32	-0.74	0.32	6.64	70	4.40	82	84	39	0	7	1	0
ATLANTA	47	27	58	25	37	-5	0.18	-0.95	0.18	7.10	72	4.89	88	86	46	0	7	1	0
AUGUSTA	51	25	60	17	38	-7	0.42	-0.58	0.41	7.63	93	6.66	139	90	37	0	7	2	0
COLUMBUS	53	29	60	24	41	-6	0.21	-0.89	0.21	5.71	55	3.99	74	89	36	0	6	1	0
MACON	51	26	60	19	39	-7	0.22	-0.91	0.22	7.01	72	5.21	97	86	39	0	6	1	0
SAVANNAH	54	27	65	21	41	-9	0.21	-0.59	0.21	4.66	65	2.72	65	94	40	0	6	1	0
HI HILO	78	61	79	58	70	-2	0.15	-2.15	0.10	28.45	120	13.65	118	95	64	0	0	4	0
HONOLULU	79	64	83	62	71	-2	0.16	-0.49	0.16	4.08	52	1.43	36	92	62	0	0	1	0
KAHULUI	81	59	83	56	70	-1	0.02	-0.81	0.02	3.61	45	1.06	22	94	56	0	0	1	0
LIHUE	77	63	79	59	70	-1	0.03	-1.01	0.02	6.42	55	2.33	35	10	69	0	0	2	0
ID BOISE	48	31	56	20	40	8	0.12	-0.17	0.04	2.45	81	1.55	94	88	48	0	5	4	0
LEWISTON	45	32	55	25	39	3	0.36	0.11	0.16	2.23	84	1.09	75	97	66	0	3	3	0
POCATELLO	42	20	49	7	31	5	0.01	-0.21	0.01	1.72	74	1.45	121	88	51	0	7	1	0
IL CHICAGO/O'HARE	30	18	37	11	24	2	0.05	-0.23	0.05	4.12	98	1.35	78	92	64	0	7	1	0
MOLINE	31	14	37	2	23	2	0.05	-0.21	0.05	3.67	93	1.40	81	93	68	0	7	1	0
PEORIA	32	16	39	8	24	1	0.03	-0.27	0.02	3.36	81	0.81	47	90	66	0	7	2	0
ROCKFORD	29	11	35	2	20	1	0.07	-0.18	0.06	3.36	96	1.42	97	96	69	0	7	2	0
SPRINGFIELD	33	16	41	6	25	0	0.01	-0.32	0.01	2.75	61	0.55	31	90	66	0	7	1	0
IN EVANSVILLE	37	23	50	14	30	-1	0.00	-0.63	0.00	9.48	139	4.35	139	86	54	0	7	0	0
FORT WAYNE	30	17	39	5	24	1	0.05	-0.35	0.05	3.25	64	1.30	60	94	70	0	7	1	0
INDIANAPOLIS	31	17	40	7	24	-2	0.10	-0.41	0.08	4.77	79	2.16	80	95	68	0	7	3	0
SOUTH BEND	31	19	38	10	25	1	0.16	-0.27	0.05	5.17	89	2.51	99	91	65	0	7	6	0
IA BURLINGTON	32	15	38	3	24	1	0.02	-0.20	0.02	3.72	110	1.20	86	89	67	0	7	1	0
CEDAR RAPIDS	30	10	36	2	20	1	0.00	-0.19	0.00	1.90	69	1.15	100	94	70	0	7	0	0
DES MOINES	34	15	43	7	24	3	0.01	-0.20	0.01	0.83	34	0.48	43	87	63	0	7	1	0
DUBUQUE	29	11	33	4	20	3	0.03	-0.22	0.03	2.25	66	1.39	97	91	66	0	7	1	0
SIoux CITY	37	12	55	1	25	5	0.09	-0.02	0.09	0.75	53	0.40	63	87	55	0	7	1	0
WATERLOO	31	11	38	3	21	5	0.01	-0.18	0.01	1.66	74	1.08	115	91	66	0	7	1	0
KS CONCORDIA	39	17	49	11	28	1	0.00	-0.11	0.00	0.49	33	0.06	9	92	52	0	7	0	0
DODGE CITY	42	18	56	8	30	-2	0.00	-0.11	0.00	0.81	66	0.50	88	91	57	0	7	0	0
GOODLAND	51	16	69	7	33	3	0.00	-0.06	0.00	0.57	66	0.26	58	82	25	0	7	0	0
TOPEKA	40	15	53	7	28	-1	0.00	-0.19	0.00	1.95	77	0.19	17	90	50	0	7	0	0

Weather Data for the Week Ending February 5, 2000

STATES AND STATIONS	TEMPERATURE EF						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	TEMP. EF		PRECIP	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
KY WICHITA	37	17	51	10	27	-4	0.00	-0.16	0.00	4.98	237	0.92	102	91	60	0	7	0	0
KY JACKSON	34	24	41	21	29	-4	0.17	-0.70	0.11	5.31	61	2.75	63	90	62	0	7	4	0
KY LEXINGTON	33	22	39	13	28	-3	0.04	-0.64	0.03	6.13	84	3.43	102	92	66	0	7	2	0
KY LOUISVILLE	38	25	46	18	32	-1	0.05	-0.64	0.04	11.15	159	5.51	164	86	54	0	6	2	0
LA PADUCAH	40	23	51	15	31	-3	0.00	-0.82	0.00	10.40	121	6.36	163	88	51	0	7	0	0
LA BATON ROUGE	59	35	66	28	47	-4	0.02	-1.28	0.02	8.05	70	2.78	47	87	30	0	2	1	0
LA LAKE CHARLES	60	37	68	32	49	-2	0.00	-0.96	0.00	6.05	59	1.57	30	88	34	0	1	0	0
LA NEW ORLEANS	57	40	66	36	48	-4	0.09	-1.30	0.09	6.11	52	2.25	37	80	39	0	0	1	0
LA SHREVEPORT	54	31	70	24	43	-3	0.00	-0.96	0.00	6.42	74	2.60	57	94	48	0	3	0	0
ME CARIBOU	22	1	30	-15	12	3	0.20	-0.28	0.20	5.74	96	2.94	106	89	60	0	7	1	0
ME PORTLAND	32	11	43	0	22	1	0.52	-0.28	0.52	5.41	62	3.41	83	76	39	0	7	1	1
MD BALTIMORE	35	18	38	7	27	-5	0.18	-0.55	0.16	6.62	95	3.66	102	88	48	0	7	2	0
MA BOSTON	35	22	47	15	28	0	0.21	-0.65	0.21	4.29	52	2.77	66	77	41	0	7	1	0
MA WORCESTER	31	18	43	10	24	1	0.38	-0.46	0.35	5.69	68	3.14	73	85	45	0	7	3	0
MI ALPENA	28	11	30	-6	19	2	0.17	-0.14	0.17	3.42	88	1.86	100	93	61	0	7	1	0
MI GRAND RAPIDS	31	15	35	2	23	2	0.13	-0.20	0.08	3.35	68	1.04	50	94	63	0	7	3	0
MI HOUGHTON LAKE	27	15	29	7	21	5	0.03	-0.25	0.02	3.03	83	1.40	82	94	64	0	7	2	0
MI LANSING	34	13	39	0	24	4	0.21	-0.09	0.10	3.02	75	1.18	69	94	65	0	7	3	0
MI MUSKEGON	32	20	35	5	26	3	0.13	-0.26	0.09	3.46	61	1.10	42	93	63	0	7	3	0
MI TRAVERSE CITY	30	20	31	15	25	7	0.10	-0.29	0.04	3.57	80	1.73	74	90	63	0	7	5	0
MN DULUTH	29	13	32	4	21	12	0.05	-0.15	0.05	1.05	41	0.82	61	89	53	0	7	1	0
MN INT'L FALLS	29	9	38	-7	19	16	0.01	-0.16	0.01	0.79	43	0.61	61	88	54	0	7	1	0
MN MINNEAPOLIS	31	11	37	7	21	7	0.05	-0.13	0.00	1.26	58	0.93	86	86	60	0	7	1	0
MN ROCHESTER	27	9	34	2	18	5	0.00	-0.15	0.00	2.25	118	1.76	200	92	71	0	7	0	0
MN ST. CLOUD	30	8	39	3	19	9	0.00	-0.14	0.00	0.98	59	0.76	90	88	61	0	7	0	0
MS JACKSON	53	26	65	22	40	-5	0.00	-1.14	0.00	4.64	39	1.88	31	89	35	0	7	0	0
MS MERIDIAN	54	25	65	20	39	-7	0.00	-1.22	0.00	6.69	55	3.11	51	93	32	0	7	0	0
MS TUPELO	49	25	63	22	37	-4	0.00	-1.08	0.00	6.38	54	3.35	59	87	40	0	6	0	0
MO COLUMBIA	36	19	50	9	27	-2	0.00	-0.35	0.00	4.14	99	0.77	45	90	53	0	7	0	0
MO KANSAS CITY	37	17	50	9	27	0	0.00	-0.22	0.00	2.64	93	0.46	37	90	56	0	7	0	0
MO SAINT LOUIS	37	21	49	13	29	-2	0.02	-0.39	0.02	3.07	60	1.23	58	96	69	0	7	1	0
MO SPRINGFIELD	39	15	55	3	27	-5	0.00	-0.41	0.00	8.15	155	1.16	56	88	51	0	6	0	0
MT BILLINGS	38	18	48	9	28	2	0.21	0.04	0.21	1.89	104	1.69	166	82	43	0	6	1	0
MT BUTTE	36	10	44	-9	23	4	0.05	-0.04	0.03	0.99	94	0.45	74	91	53	0	6	2	0
MT GLASGOW	36	13	45	1	25	12	0.00	-0.08	0.00	0.43	53	0.23	53	91	54	0	7	0	0
MT GREAT FALLS	41	19	54	10	30	6	0.00	-0.15	0.00	0.37	20	0.34	34	83	44	0	7	0	0
MT KALISPELL	33	13	42	-4	23	0	0.04	-0.27	0.02	2.61	75	1.52	87	94	67	0	7	3	0
MT MILES CITY	42	15	54	9	29	10	0.01	-0.10	0.01	0.27	21	0.03	5	84	33	0	7	1	0
MT MISSOULA	35	17	50	-1	26	0	0.31	0.08	0.22	1.19	46	0.71	51	91	60	0	7	3	0
NE GRAND ISLAND	37	16	52	7	27	3	0.00	-0.11	0.00	0.52	42	0.25	46	91	54	0	7	0	0
NE LINCOLN	39	14	50	7	26	3	0.00	-0.11	0.00	0.63	42	0.06	10	91	48	0	7	0	0
NE NORFOLK	39	14	63	6	26	5	0.00	-0.12	0.00	0.36	27	0.16	26	85	47	0	7	0	0
NE NORTH PLATTE	41	13	61	5	27	3	0.00	-0.08	0.00	0.36	40	0.31	74	92	49	0	7	0	0
NE OMAHA	37	16	49	8	26	3	0.00	-0.14	0.00	0.74	40	0.17	20	90	54	0	7	0	0
NE SCOTTSBLUFF	41	15	59	2	28	0	0.00	-0.09	0.00	0.65	58	0.52	93	88	45	0	7	0	0
NE VALENTINE	38	13	53	-5	26	4	0.00	-0.08	0.00	0.34	47	0.23	66	84	51	0	6	0	0
NV ELY	48	19	59	4	33	6	0.04	-0.11	0.02	0.67	44	0.62	77	83	35	0	7	2	0
NV LAS VEGAS	63	41	67	35	52	4	0.00	-0.11	0.00	0.00	0	0.00	0	51	25	0	0	0	0
NV RENO	53	29	60	25	41	5	0.17	-0.10	0.17	2.21	98	2.14	169	90	41	0	5	1	0
NV WINNEMUCCA	50	25	62	11	37	4	0.25	0.09	0.16	1.40	80	1.32	153	93	47	0	4	3	0
NH CONCORD	31	9	42	-2	21	2	0.31	-0.28	0.31	3.61	59	2.26	77	85	36	0	7	1	0
NJ NEWARK	35	24	38	21	30	-1	0.89	0.15	0.51	6.48	88	3.53	90	88	43	0	7	4	1
NM ALBUQUERQUE	50	29	61	23	39	2	0.23	0.12	0.14	0.47	46	0.44	85	82	29	0	6	2	0
NY ALBANY	27	12	33	-4	20	-1	0.46	-0.08	0.37	4.85	85	3.43	125	84	48	0	7	2	0
NY BINGHAMTON	25	11	30	6	18	-3	0.20	-0.34	0.08	4.68	81	3.03	109	97	56	0	7	6	0
NY BUFFALO	29	16	35	10	22	-1	0.53	-0.03	0.39	4.99	74	2.79	90	91	57	0	7	5	0
NY ROCHESTER	29	14	38	-1	22	-1	0.85	0.35	0.41	5.32	103	3.26	133	94	63	0	7	6	0
NY SYRACUSE	28	14	34	0	21	-1	0.37	-0.14	0.14	4.23	72	2.88	106	91	57	0	7	6	0
NC ASHEVILLE	40	23	56	18	31	-5	0.00	-0.85	0.00	5.08	69	3.10	80	88	49	0	7	0	0
NC CHARLOTTE	45	24	55	19	35	-5	0.49	-0.40	0.49	5.81	74	4.07	93	87	47	0	7	1	0
NC GREENSBORO	40	23	48	17	32	-5	0.83	0.05	0.83	6.02	85	3.97	106	85	44	0	7	1	1
NC HATTERAS	48	34	58	25	41	-3	0.61	-0.50	0.61	10.45	98	5.88	97	84	54	0	1	1	1
NC RALEIGH	42	24	51	19	33	-6	1.07	0.20	1.07	8.35	113	6.03	146	89	46	0	7	1	1
NC WILMINGTON	55	30	63	24	43	-2	0.39	-0.52	0.39	6.07	74	4.66	103	85	41	0	4	1	0
ND BISMARCK	33	15	48	8	24	13	0.00	-0.10	0.00	0.62	60	0.39	74	86	62	0	7	0	0
ND DICKINSON	38	17	48	10	27	11	0.00	-0.08	0.00	0.41	49	0.20	45	86	45	0	7	0	0
ND FARGO	30	11	47	-1	20	12	0.00	-0.12	0.00	0.78	56	0.33	44	91	70	0	7	0	0
ND GRAND FORKS	31	9	48	0	20	14	0.00	-0.13	0.00	0.42	29	0.07	9	91	65	0	7	0	0
ND JAMESTOWN	31	13	46	2	22	12	0.00	-0.12	0.00	0.34	29	0.29	41	91	68	0	7	0	0
ND WILLISTON	34	10	43	-2	22	10	0.00	-0.11	0.00	0.68	57	0.38	62	90	54	0	7	0	0
OH AKRON-CANTON	30	18	33	9	24	-1	0.55	0.07	0.19	4.80	88	2.93	117	96	67	0	7	5	0
OH CINCINNATI	33	21	41	9	27	-2	0.08	-0.49	0.03	8.10	132	4.50	150	93	57	0	7	3	0
OH CLEVELAND	31	19	35	12	25	0	0.65	0.18	0.18	5.83	106	3.13	131	92	60	0	7	5	0
OH COLUMBUS	32	22	35	18	27	0	0.41	-0.08	0.31	6.58	122	3.90	154	94	64	0	7	5	0
OH DAYTON	30	19	36	10	25	-2	0.06	-0.40	0.05	5.81	108	3.25	132	94	63	0	7	2	0
OH MANSFIELD	29	18	33	10	23	-1	0.11	-0.32	0.05	5.80	108	3.10	135	94	63	0	7	3	0

Based on 1961-90 normals

\*\*\* Not Available

Weather Data for the Week Ending February 5, 2000

STATES AND STATIONS	TEMPERATURE EF						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	TEMP. EF		PRECIP	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OK TOLEDO	31	19	35	16	25	3	0.12	-0.25	0.08	3.41	69	1.59	78	92	66	0	7	2	0
OK YOUNGSTOWN	29	17	33	10	23	0	0.30	-0.16	0.10	4.91	91	2.54	103	93	55	0	7	5	0
OK OKLAHOMA CITY	45	24	57	16	34	-4	0.00	-0.30	0.00	4.46	162	0.75	56	92	53	0	6	0	0
OR TULSA	44	23	62	18	34	-3	0.00	-0.38	0.00	6.00	151	0.89	49	88	49	0	7	0	0
OR ASTORIA	53	43	61	38	48	5	2.31	0.24	1.32	25.27	115	12.41	108	88	58	0	0	5	2
OR BURNS	41	24	46	9	32	6	0.30	0.11	0.14	2.31	101	1.74	154	97	67	0	7	5	0
OR EUGENE	50	37	57	28	43	0	1.34	-0.22	0.34	14.35	81	10.70	119	99	76	0	2	7	0
OR MEDFORD	55	38	61	32	47	6	0.15	-0.38	0.12	5.92	93	5.03	164	90	51	0	1	2	0
OR PENDLETON	42	32	61	23	37	1	0.64	0.33	0.23	3.50	104	2.49	144	98	74	0	3	5	0
OR PORTLAND	50	40	56	34	45	3	1.73	0.67	0.83	10.39	85	6.77	111	87	47	0	0	5	2
PA SALEM	52	38	61	31	45	4	2.56	1.35	0.89	14.28	105	8.90	131	96	67	0	1	6	2
PA ALLENTOWN	30	13	33	6	22	-5	0.26	-0.47	0.24	5.35	75	2.90	79	90	47	0	7	2	0
PA ERIE	32	20	36	10	26	2	0.20	-0.30	0.13	6.50	105	2.66	103	96	53	0	7	5	0
PA MIDDLETOWN	32	15	36	6	23	-6	0.58	-0.11	0.40	4.76	72	2.19	65	87	53	0	7	3	0
PA PHILADELPHIA	34	22	38	11	28	-3	0.92	0.23	0.75	6.41	90	3.42	92	97	58	0	7	3	1
PA PITTSBURGH	31	20	34	14	25	-1	0.27	-0.27	0.17	4.04	69	1.80	61	95	58	0	7	4	0
PA WILKES-BARRE	28	14	31	4	21	-3	0.71	0.20	0.68	3.35	67	2.11	85	93	49	0	7	3	1
PA WILLIAMSPORT	30	16	32	6	23	-2	0.31	-0.32	0.26	4.34	72	1.98	66	89	51	0	7	3	0
RI PROVIDENCE	34	22	42	16	28	0	0.71	-0.17	0.64	6.65	75	4.26	94	80	45	0	7	4	1
SC BEAUFORT	53	30	64	25	42	-7	0.03	-0.77	0.03	4.10	55	1.63	38	88	38	0	5	1	0
SC CHARLESTON	53	29	64	24	41	-7	0.20	-0.57	0.20	6.58	92	4.04	101	90	40	0	5	1	0
SC COLUMBIA	48	26	59	20	37	-7	0.59	-0.42	0.59	10.30	118	8.88	172	89	44	0	6	1	1
SD GREENVILLE	48	27	56	21	38	-3	0.23	-0.77	0.23	6.34	71	3.72	77	81	40	0	7	1	0
SD ABERDEEN	36	12	57	1	24	12	0.00	-0.08	0.00	0.42	50	0.27	63	88	54	0	7	0	0
SD HURON	39	16	60	4	28	13	0.00	-0.11	0.00	0.32	33	0.22	45	89	46	0	7	0	0
SD RAPID CITY	36	16	49	4	26	2	0.00	-0.10	0.00	0.39	41	0.22	47	83	52	0	7	0	0
SD SIOUX FALLS	31	11	45	0	21	5	0.00	-0.11	0.00	0.85	66	0.68	115	91	68	0	7	0	0
TN BRISTOL	36	23	46	18	30	-5	0.23	-0.57	0.17	5.07	70	3.62	95	90	54	0	7	2	0
TN CHATTANOOGA	46	25	57	20	35	-4	0.00	-1.11	0.00	6.91	64	5.08	89	86	41	0	6	0	0
TN KNOXVILLE	40	24	50	19	32	-5	0.01	-0.94	0.01	6.84	73	5.14	106	87	52	0	7	1	0
TN MEMPHIS	44	25	57	21	35	-6	0.00	-0.93	0.00	6.10	60	1.37	31	81	47	0	7	0	0
TX NASHVILLE	41	24	56	20	33	-4	0.02	-0.83	0.02	6.02	68	3.52	84	81	49	0	7	1	0
TX ABILENE	58	31	76	22	44	0	0.07	-0.20	0.07	0.59	26	0.24	20	83	30	0	4	1	0
TX AMARILLO	50	21	60	14	36	-1	0.00	-0.13	0.00	1.17	114	0.24	40	83	33	0	7	0	0
TX AUSTIN	57	35	73	20	46	-4	0.25	-0.24	0.21	4.63	117	3.94	189	91	45	0	3	2	0
TX BEAUMONT	61	40	70	33	50	-2	0.00	-0.96	0.00	5.71	56	1.68	31	82	33	0	0	0	0
TX BROWNSVILLE	67	48	78	42	57	-3	0.22	-0.11	0.19	1.42	47	1.10	61	97	59	0	0	2	0
TX CORPUS CHRISTI	61	45	70	40	53	-3	0.35	-0.15	0.24	1.11	33	0.86	41	89	62	0	0	2	0
TX DEL RIO	61	37	69	26	49	-3	0.84	0.63	0.67	0.88	66	0.87	121	87	42	0	2	3	1
TX EL PASO	58	31	63	24	45	0	0.03	-0.07	0.03	0.66	63	0.03	6	73	29	0	5	1	0
TX FORT WORTH	57	32	72	23	45	0	0.00	-0.48	0.00	4.14	103	1.59	73	80	36	0	4	0	0
TX GALVESTON	58	45	66	37	51	-2	0.06	-0.58	0.06	7.61	105	1.80	48	83	47	0	0	1	0
TX HOUSTON	60	38	70	32	49	-3	0.11	-0.65	0.09	3.56	49	1.36	35	87	39	0	2	2	0
TX LUBBOCK	55	24	76	20	39	-2	0.03	-0.10	0.03	1.08	106	0.03	6	80	32	0	7	1	0
TX MIDLAND	55	29	75	22	42	-2	0.00	-0.13	0.00	0.61	58	0.61	122	79	31	0	6	0	0
TX SAN ANGELO	60	30	75	17	45	0	0.03	-0.21	0.03	0.20	11	0.11	11	79	28	0	4	1	0
TX SAN ANTONIO	57	39	70	26	48	-3	1.11	0.66	0.75	3.03	85	2.51	123	87	41	0	2	2	1
TX VICTORIA	60	43	71	34	51	-3	0.25	-0.28	0.25	5.00	109	3.98	156	88	51	0	0	1	0
TX WACO	55	32	72	23	44	-3	0.28	-0.18	0.28	5.14	133	2.33	117	96	45	0	3	1	0
TX WICHITA FALLS	54	27	67	21	41	-1	0.00	-0.29	0.00	1.45	57	0.73	58	91	38	0	6	0	0
UT SALT LAKE CITY	42	22	49	18	32	1	0.37	0.10	0.37	4.01	148	2.17	166	94	57	0	7	1	0
VT BURLINGTON	25	1	33	-11	13	-3	0.43	0.05	0.39	3.21	71	2.09	100	87	47	0	7	3	0
VA LYNCHBURG	38	22	44	13	30	-5	0.67	-0.02	0.67	5.69	86	3.33	99	86	45	0	7	1	1
VA NORFOLK	45	28	52	23	37	-2	1.06	0.19	1.06	6.78	89	5.07	115	90	46	0	5	1	1
VA RICHMOND	41	26	48	22	33	-3	1.17	0.41	1.17	5.68	81	3.96	104	86	45	0	7	1	1
VA ROANOKE	38	27	48	23	33	-2	0.51	-0.16	0.51	4.54	75	2.08	67	70	42	0	6	1	1
VA WASH/DULLES	36	16	40	5	26	-5	0.58	-0.07	0.56	4.46	70	1.79	56	84	41	0	7	2	1
WA OLYMPIA	50	32	59	19	41	1	3.45	1.82	1.71	19.92	115	9.97	109	99	58	0	3	6	2
WA QUILLAYUTE	51	37	55	27	44	3	1.35	-1.87	0.59	34.63	108	13.00	78	94	67	0	1	5	1
WA SEATTLE-TACOMA	52	39	59	36	45	3	2.39	1.29	1.49	10.33	86	5.27	85	92	56	0	0	4	2
WA SPOKANE	38	26	43	13	32	2	0.84	0.44	0.63	4.79	102	2.53	111	98	66	0	7	3	1
WA YAKIMA	40	27	46	15	34	1	0.41	0.19	0.25	2.00	72	1.72	126	89	64	0	5	4	0
WV BECKLEY	29	21	38	17	25	-4	0.07	-0.52	0.04	3.68	56	1.87	56	92	66	0	6	3	0
WV CHARLESTON	35	26	41	23	31	-2	0.28	-0.41	0.17	4.06	60	1.51	44	92	60	0	7	5	0
WV ELKINS	30	17	39	2	24	-3	0.38	-0.32	0.28	5.01	71	1.73	48	92	55	0	7	5	0
WV HUNTINGTON	36	26	40	22	31	-1	0.01	-0.65	0.01	4.65	70	1.92	58	88	56	0	7	1	0
WI EAU CLAIRE	29	11	31	6	20	8	0.02	-0.15	0.02	1.97	90	1.60	145	91	60	0	7	1	0
WI GREEN BAY	28	11	31	1	20	5	0.08	-0.14	0.05	1.78	63	0.95	73	88	57	0	7	2	0
WI LA CROSSE	31	14	37	9	22	6	0.00	-0.19	0.00	2.11	90	1.46	136	87	58	0	7	0	0
WI MADISON	31	14	34	4	23	6	0.10	-0.11	0.08	1.73	56	0.87	71	88	58	0	7	2	0
WI MILWAUKEE	30	20	34	13	25	5	0.19	-0.12	0.15	2.49	60	1.23	68	87	60	0	7	4	0
WY CASPER	34	8	45	-11	21	-3	0.05	-0.08	0.05	0.62	47	0.52	80	85	53	0	7	1	0
WY CHEYENNE	44	15	59	6	30	2	0.00	-0.08	0.00	0.54	61	0.35	76	74	30	0	6	0	0
WY LANDER	37	11	60	-3	24	2	0.00	-0.11	0.00	0.17	15	0.02	4	87	38	0	7	0	0
WY SHERIDAN	32	6	45	-3	19	-4	0.05	-0.12	0.05	2.16	139	1.53	180	90	57	0	7	1	0

Based on 1961-90 normals

\*\*\* Not Available

NOTE: These data are preliminary and subject to change. In the past, precipitation totals from a number of stations have been incomplete.

## January Weather and Crop Summary

### Weather

A month that began remarkably mild turned increasingly cold and stormy across the South and East. Due to early-month warmth, however, temperatures averaged 2 to 6°F above normal in the Mississippi Valley and were within 2°F of normal along the East Coast. Nevertheless, a late-month cold snap dropped temperatures to near the freezing mark on January 27 as far south as Florida's northern citrus and cool-season vegetable areas. In contrast, January ended with 3 weeks of warm weather across California and the Intermountain West, propelling monthly temperatures as much as 10°F above normal in the latter region.

Beneficial precipitation fell in several areas during January, easing long-term drought in the Ohio Valley, Southeast, and portions of the upper Midwest. In the West, a southward shift in the storm trajectory delivered much-needed precipitation to areas from northern and central California to the central Rockies. The moisture favored dryland crops and eased irrigation requirements in California's Central Valley, and significantly improved high-elevation Sierra Nevada snow packs. Farther south, however, areas from southern California to western Texas remained extremely dry for a fourth consecutive month, resulting in further declines in range, pasture, and dryland crop conditions. Unfavorably dry conditions also persisted throughout most of the Plains, western Corn Belt, and lower Mississippi Valley, raising concerns about a lack of moisture for winter grains and the availability of moisture during the upcoming planting season.

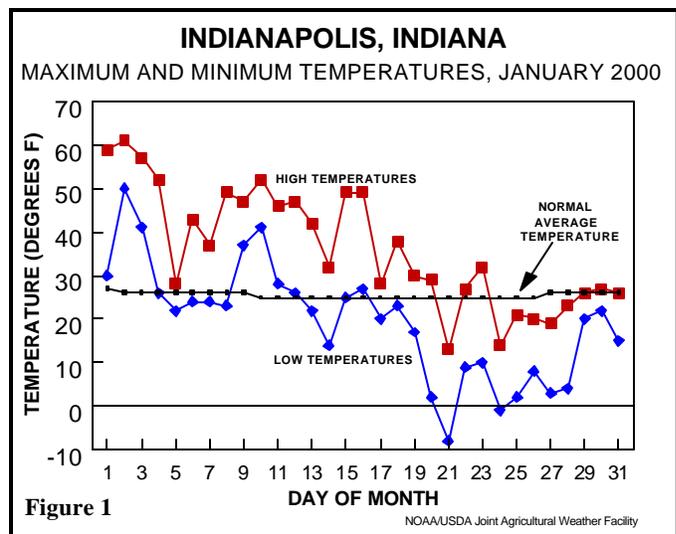
The first 4 days of January featured more than 100 daily-record highs as warm air streamed northward in advance of a moisture-laden cold front. On January 2, Corpus Christi, TX recorded 87°F. A day later, Monroe, LA and Columbus, GA noted 78°F, while Concord, NH logged 60°F. Heavy rain spread into the lower Ohio Valley on January 3, resulting in a record single-day January rainfall (3.97 inches) in Paducah, KY. Near-record totals were reported in Louisville, KY (3.41 inches) and Evansville, IN (3.05 inches). Monthly precipitation ended at 6.36 inches (194 percent [%] of normal) in Paducah, 5.51 inches (193%) in Louisville, and 4.36 inches (164%) in Evansville.

A mid-month pattern shift brought increasingly warm conditions to the Southwest, and a sudden turn toward cold weather across the Northeast and Midwest. In Indianapolis, IN, January 1-16 high temperatures averaged 45.6°F, but January 17-31 maxima averaged 24.2°F (fig. 1). Correspondingly, all but 0.6 inch of Indianapolis' monthly snowfall (11.3 inches) fell after January 18. In Arizona, Winslow posted four consecutive daily-record highs (72, 69, 70, and 66°F) from January 16-19. Warmth peaked on January 19 across southern Texas, where Del Rio (90°F) marked their earliest incidence of 90-degree heat. Del Rio's previous record had been set on January 30, 1911, with a high of 91°F. Brownsville, TX tallied 17 January days with highs at or above 80°F, behind only 20 days in 1950 and 19 days in 1971. Farther north, January closed with a 14th consecutive week of warmer-than-normal weather on the northern Plains, propelling Glasgow, MT to their warmest October-January (average temperature of 32.9°F) on record. Their previous standard, 32.1°F, had been established in 1957-58.

Farther east, however, a succession of cold outbreaks dropped temperatures to as low as -38°F (in Enosburg Falls, VT on January 18 and near Tower, MN on January 21). LaCrosse, WI recorded -20°F on January 21, their lowest temperature since a -31°F reading on February 4, 1996. On January 27, near- to slightly below-freezing temperatures were reported as far south as central Florida, where lows dipped to 31°F in Leesburg and Ruskin, and 32°F in Tampa and Fort Pierce.

Occasional snow accompanied the cold weather across parts of the Midwest and East. On January 13, Boston, MA received 5.6 inches of snow, ending their 303-day (March 16 - January 12) period without a

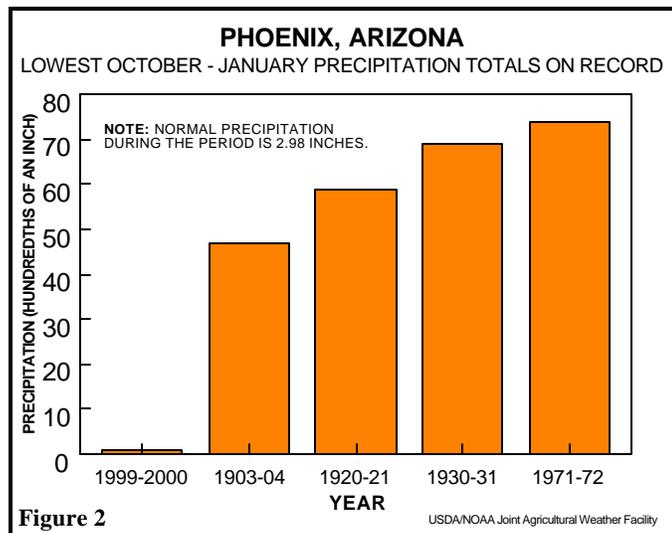
measurable amount. Boston's previous latest first accumulation occurred on January 6, 1892, and their previous longest snow-free period was 274 days, set in 1998. Measurable snow fell for the first time this season on January 13 in Concord, NH and on January 16 in Portland, ME, breaking records for the latest first snowfall (formerly December 24, 1912 in both locations). On January 20, 3.0 inches blanketed Norfolk, VA, their first 1-inch, or greater, snow depth since February 16, 1996. Less than a week later, a record-setting storm buried areas from northern South Carolina to northern New England with as much as 1 to 2 feet of snow. Raleigh-Durham, NC netted 20.3 inches on January 24-25, eclipsing their single-storm record of 17.9 inches on February 15-17, 1902. Monthly snowfall reached 43.7 inches in Caribou, ME (their second-snowiest January behind 44.5 inches in 1994), 42.0 inches in Rochester, NY, and 25.8 inches in Raleigh-Durham (their snowiest month on record, replacing 20.0 inches in January 1893).



Snow and ice accumulations periodically affected the Deep South after January 20, disrupting transportation and causing widespread power outages, but providing drought-easing moisture. The southern Appalachians and adjacent piedmont areas were particularly hard-hit by repeated snow and ice events. Farther west, January 26-28 snowfall ranged from 12 to locally as much as 18 inches in a few locations from eastern Oklahoma to northern Mississippi. Little Rock, AR received 7.2 inches of snow on January 27-28, their first measurable snowfall since February 13, 1997. Little Rock's 1,077-day period without accumulating snow easily shattered their previous record of 778 days, set from January 21, 1930 - March 8, 1932.

Light, early-month precipitation ended record-setting dry spells in parts of the Southwest, although little or no moisture fell thereafter. On January 1, precipitation in Arizona totaled 0.21 inch in Flagstaff and 0.01 inch in Phoenix. Flagstaff's 99-day spell (September 24 - December 31) without measurable precipitation surpassed their previous record of 93 days, set in April-July 1974. Phoenix's record-breaking spell without a drop of rain ended at 100 days. However, no additional rain fell in Phoenix during the remainder of January (fig. 2), sealing their driest October-January (0.01 inch, or 2.97 inches below normal, and significantly less than the previous record of 0.47 inch in 1903-04). October-January precipitation throughout the entire Salt and Verde River watersheds totaled only 0.28 inch (5.57 inches below normal), well below the former record of 0.56 inch, also set in 1903-04. Meanwhile in San Diego, CA, the 7-month (July-January) rainfall reached 0.56 inch (10% of normal), ahead of only 0.35 inch in 1962-63 and 0.46 inch in 1903-04. Across the Southeast, however, frequent precipitation dented long-term moisture deficits. Monthly totals

reached 8.88 inches (201% of normal) in Columbia, SC and 6.65 inches (164%) in Augusta, GA. Nevertheless, 19-month (July 1998 - January 2000) rainfall deficits remained greater than 20 inches in some locations, including 20.79 inches in Greenville-Spartanburg, SC. Meanwhile in the Corn Belt, Iowa concluded its fourth-driest September-January period on record, and driest since 1976-77. In eastern Iowa, 6-month (August-January) precipitation totaled 8.22 inches (56% of normal) in Cedar Rapids and 8.72 inches (48%) in Dubuque.



Storminess spreading across northern and central California into the Sierra Nevada added about 10 inches of liquid equivalent to the high-elevation snowpack in just 3 weeks, according to the State's Department of Water Resources. The snowpack's water content, which stood at 3 inches (20% of normal) on January 10, increased to 13 inches (about 70%) by month's end. A few locations in the Sierra Nevada received snowfall at an average rate of more than 1 inch per hour for 60 hours from January 22-25. A station at the 7,500-foot level near Carson Pass netted 64 inches. Meanwhile, heavy rain soaked lower elevations, including California's Sacramento Valley. With 3.51 inches on January 23-24, Sacramento experienced their fifth-wettest 24-hour period on record. Monthly rainfall totaled 7.20 inches in Sacramento, following their first-ever December 10-to-January 10 period on record without measurable precipitation.

Farther north, only light precipitation dampened the Pacific Northwest following a mid-month storm that raked coastal areas with strong winds. On January 16, peak wind gusts were clocked to 115 mph at Cannon Beach, OR and 109 mph on Cape Disappointment, WA. Across inland areas of northwestern Oregon, gusts reached 60 mph in Salem and 59 mph in Portland. Farther inland, periodic storms provided highly beneficial moisture and insulation for winter wheat. Monthly snowfall reached 20.3 inches in Spokane, WA and 6.2 inches in Boise, ID.

Unusually heavy precipitation fell across much of mainland Alaska as milder air replaced bitterly cold conditions--reversing a 3-month trend--around mid-month. For the month as a whole, temperatures ranged from as much as 11°F below normal in western Alaska to near or slightly above normal in interior and southeastern areas. Temperatures in Fairbanks ranged from a low of -49°F on January 2 to highs of 29°F from January 20-23. Monthly precipitation exceeded 200% of normal in many interior and western locations. In the Aleutians at Cold Bay, where monthly temperatures averaged 9.2°F below normal, persistently stormy conditions resulted in a January-record 57.1 inches of snow and 46-inch snow depth. Previous records had been established in 1982 (34.6 inches) and 1986 (20 inches), respectively. In addition, Cold Bay registered an all-time record-tying low of -13°F on January 30. Farther east, Fairbanks received 1.97 inches (419% of normal), including 28.5 inches of snow. Most of the snow fell from January 16-19, boosting Fairbanks' snow depth from 16 to 31 inches.

In Hawaii, frequent trade winds brought locally heavy rainfall to windward portions of the islands, but resulted in a continuation of the 2½-year dry spell in leeward areas. On the Big Island, Hilo netted 17.87 inches (181% of normal), while monthly totals reached 23.00 inches (163%) in Mt. View and 23.06 inches (125%) in Glenwood. At the major airport sites on the other islands, however, totals included 2.28 inches (39% of normal) in Lihue, Kauai, 1.27 inches (35%) in Honolulu, Oahu, and 1.00 inch (24%) in Kahului, Maui. Hawaiian temperatures were generally near to slightly below normal during January, with departures reaching -2°F in eastern areas.

## Fieldwork

Dry weather and above-normal temperatures prevailed across most of the Nation as the new year began. The western Corn Belt and Great Plains remained dry with temperatures averaging well above normal throughout the month, but most of the East experienced cold weather with a mixture of wintery precipitation, especially after mid-month.

The hard red winter wheat crop lacked snow cover across most of the Great Plains, but winterkill was minimal due to above-normal temperatures. However, the warm weather also promoted insect activity in the central and southern Plains and reduced the quality of piled sugarbeets in the northern Plains. Record-high temperatures near mid-month stimulated winter wheat growth where moisture was available in the southern Great Plains, lower Mississippi Valley, and Southeast. In Texas, germination and emergence of wheat and oats was boosted by mid-month precipitation. However, spotty wheat stands and seedling death continued in parts of the central and southern Plains due to dry soils. Early-month field activity rapidly progressed in California, including seeding of wheat, barley, and oats. However, dry soils forced some growers to irrigate wheat fields to germinate seeds. Florida citrus producers also ran irrigation systems to maintain good tree conditions.

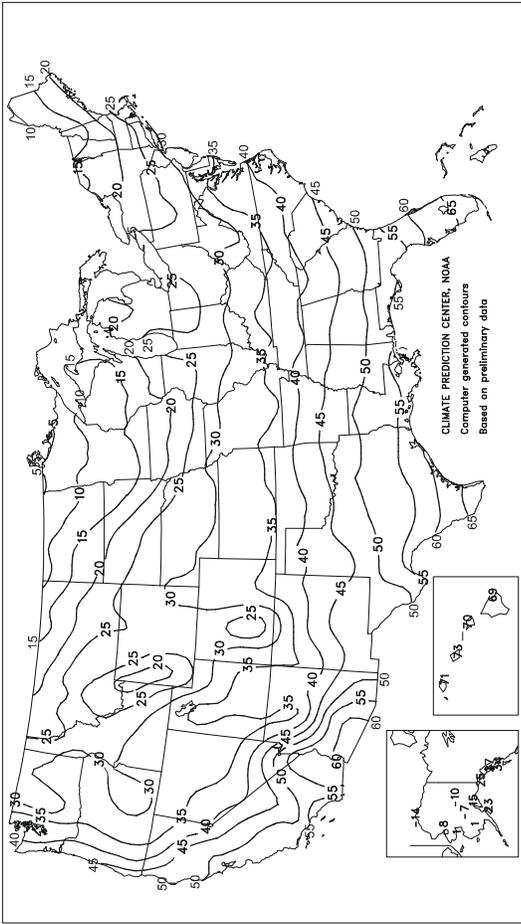
A series of winter storms provided beneficial moisture from mixed precipitation in the Ohio Valley, Appalachians, Piedmont, and parts of the Southeast and Atlantic Coastal Plains. A blast of cold, arctic air pushed southward through the Great Lakes region and into the eastern Corn Belt and Atlantic Coast States shortly after mid-month. Snow covered most wheat fields in the eastern Corn Belt and protected plants from sub-zero temperatures and dangerous wind chills. Persistent storms continued in the Pacific Northwest, dumping unneeded rain along the coast and heavy snow in the Cascade and interior Rocky Mountain ranges.

Some precipitation extended into dry areas of northern and central California after mid-month, halting fieldwork, but stimulating forage growth and aiding germination and emergence of small grains. In central and southern parts of the State, irrigation continued in vineyards and orchards due to moisture shortages. Dry weather aided grapefruit and lemon picking, which was active in southern California. In the San Joaquin Valley, the navel orange harvest gained momentum, alfalfa seeding continued, and corn planting began.

In Florida, topsoil moisture remained short throughout the State, and citrus growers continued to irrigate daily to maintain good tree and fruit condition. New growth and bloom buds formed on young well-cared-for trees in the southern part of the State. Early and midseason fruit had good color, and Valencias were beginning to color in some early bloom groves. Harvest of oranges for processing was very active due to nearly ideal weather. Sugarcane grinding and planting were also active. Temperatures briefly dipped below freezing as far south as central Florida late in the month, as a cold front passed through the State. However, damage to crops was minimal due to the short duration of sub-freezing temperatures.

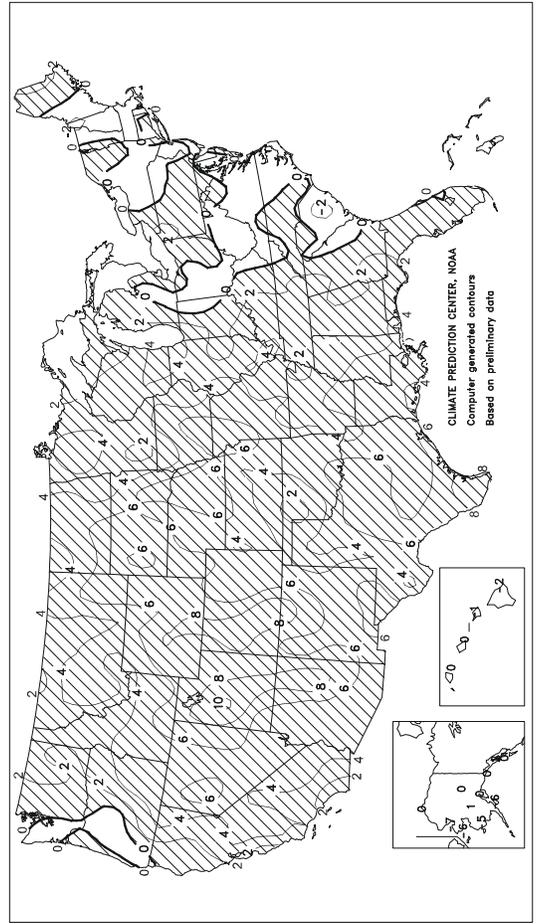
Average Temperature (°F)

JAN 2000



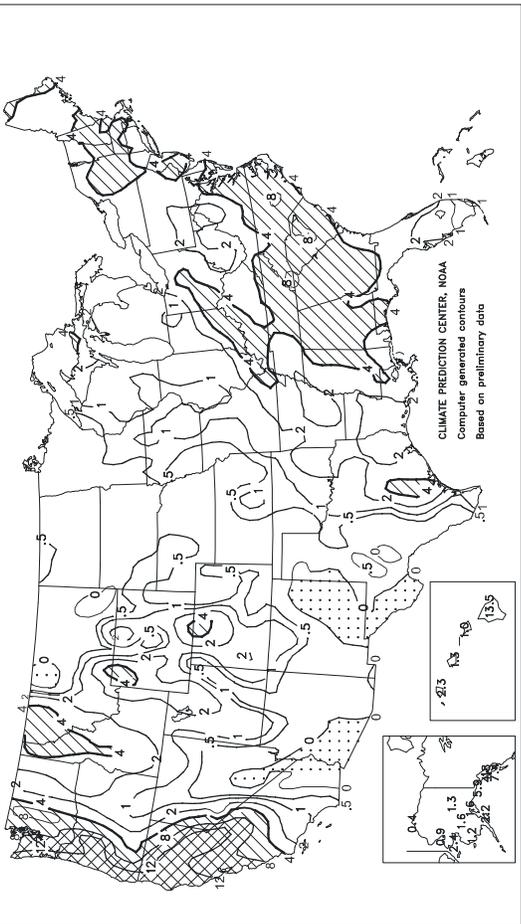
Departure of Average Temperature from Normal (°F)

JAN 2000



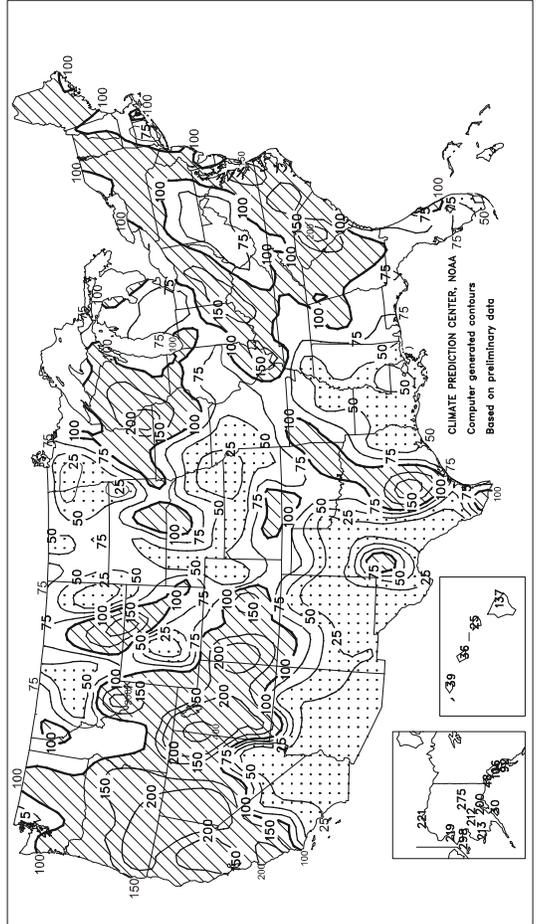
Total Precipitation (Inches)

JAN 2000



Percent Of Normal Precipitation

JAN 2000



# TEMPERATURE AND PRECIPITATION SUMMARY

## January 2000

STATES AND STATIONS	TEMP, EF		PRECIP.		STATES AND STATIONS	TEMP, EF		PRECIP.		STATES AND STATIONS	TEMP, EF		PRECIP.	
	AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE
AL BIRMINGHAM	44	2	5.72	0.62	LEXINGTON	32	1	3.40	0.54	COLUMBUS	27	1	3.53	1.35
AL HUNTSVILLE	42	3	4.24	-0.93	LONDON-CORBIN	34	1	3.27	-0.22	DAYTON	26	0	3.20	1.07
AL MOBILE	54	4	2.67	-2.09	LOUISVILLE	34	2	5.51	2.65	MANSFIELD	24	0	3.03	1.05
AL MONTGOMERY	49	3	4.04	-0.64	PADUCAH	37	4	6.36	3.09	TOLEDO	24	2	1.55	-0.20
AK ANCHORAGE	15	0	1.58	0.79	LA BATON ROUGE	54	4	2.78	-2.13	YOUNGSTOWN	26	2	2.32	0.19
AK BARROW	-13	0	0.36	0.19	LAKE CHARLES	55	5	1.57	-2.95	OK OKLAHOMA CITY	41	5	0.75	-0.38
AK COLD BAY	20	-9	3.19	0.35	NEW ORLEANS	56	5	2.25	-2.80	OK TULSA	40	5	0.89	-0.65
AK FAIRBANKS	-10	0	1.97	1.50	SHREVEPORT	50	5	2.60	-1.28	OR ASTORIA	43	1	11.67	1.67
AK JUNEAU	27	3	4.82	0.28	ME BANGOR	18	0	2.85	-0.14	OR BURNS	28	5	1.63	0.64
AK KING SALMON	4	-11	0.95	-0.10	ME CARIBOU	11	2	2.94	0.52	OR EUGENE	40	-1	9.57	1.66
AK KODIAK	23	-7	2.18	-5.20	ME PORTLAND	21	0	3.41	-0.12	OR MEDFORD	40	2	5.00	2.31
AK NOME	1	-6	2.24	1.45	MD BALTIMORE	32	0	3.64	0.59	OR PENDELTON	35	2	2.01	0.50
AZ FLAGSTAFF	33	4	0.32	-1.72	MA BOSTON	27	-2	2.77	-0.82	OR PORTLAND	40	0	5.66	0.31
AZ PHOENIX	58	4	0.01	-0.66	MA WORCESTER	23	0	3.11	-0.57	PA SALEM	40	0	7.05	1.13
AZ TUCSON	55	4	0.10	-0.77	MI ALPENA	19	1	1.69	0.05	PA ALLENTOWN	28	1	2.90	-0.26
AR FORT SMITH	42	5	1.88	-0.02	MI DETROIT	24	1	1.16	-0.60	PA ERIE	28	3	2.48	0.26
AR LITTLE ROCK	43	4	1.23	-2.19	MI FLINT	20	-2	0.88	-0.51	PA MIDDLETOWN	30	1	2.01	-0.83
CA BAKERSFIELD	51	3	0.95	0.09	MI GRAND RAPIDS	23	1	0.99	-0.84	PA PHILADELPHIA	32	2	3.25	0.04
CA EUREKA	48	0	9.71	3.71	MI HOUGHTON LAKE	18	1	1.38	-0.12	PA PITTSBURGH	28	2	1.70	-0.84
CA FRESNO	50	4	3.17	1.21	MI LANSING	21	0	1.07	-0.42	PA WILKES-BARRE	25	0	2.08	-0.02
CA LOS ANGELES	58	1	0.83	-1.57	MI MUSKEGON	25	2	1.07	-1.27	PA WILLIAMSPORT	26	1	1.93	-0.61
CA REDDING	47	1	7.67	1.61	MI TRAVERSE CITY	21	1	1.67	-0.40	PR SAN JUAN	76	-1	2.37	-0.28
CA SACRAMENTO	49	4	7.20	3.47	MN DULUTH	10	3	0.77	-0.45	RI PROVIDENCE	28	0	4.19	0.31
CA SAN DIEGO	58	1	0.18	-1.62	MI INT'L FALLS	5	4	0.60	-0.28	SC CHARLESTON	47	-1	4.04	0.59
CA SAN FRANCISCO	53	4	5.72	1.37	MI MINNEAPOLIS	16	4	0.88	-0.07	SC COLUMBIA	43	-1	8.88	4.46
CA STOCKTON	50	5	3.72	0.88	MI ROCHESTER	15	4	1.76	0.98	SC FLORENCE	43	-1	4.58	1.05
CO ALAMOSA	24	9	0.23	-0.03	MI ST. CLOUD	12	4	0.76	0.02	SC GREENVILLE	42	2	3.72	-0.38
CO CO SPRINGS	33	4	0.68	0.39	MS JACKSON	49	5	1.88	-3.36	SD MYRTLE BEACH	44	***	4.88	*****
CO DENVER	33	3	0.28	-0.22	MI MERIDIAN	48	3	3.11	-2.04	SD ABERDEEN	14	4	0.27	-0.10
CO GRAND JUNCTION	33	8	1.35	0.79	MI TUPELO	43	3	3.35	-1.54	SD HURON	19	6	0.22	-0.19
CO PUEBLO	34	4	0.34	0.02	MO COLUMBIA	32	4	0.77	-0.68	SD RAPID CITY	26	4	0.22	-0.17
CT BRIDGEPORT	28	-1	2.23	-1.01	MO JOPLIN	37	5	1.11	-0.43	SD SIOUX FALLS	17	3	0.68	0.17
CT HARTFORD	24	-1	2.21	-1.20	MO KANSAS CITY	32	6	0.46	-0.63	TN BRISTOL	34	0	3.62	0.39
DC WASHINGTON	36	1	3.01	0.29	MO SPRINGFIELD	35	4	1.16	-0.63	TN CHATTANOOGA	41	4	5.08	0.19
DE WILMINGTON	31	0	3.73	0.70	MO ST JOSEPH	31	6	0.16	-0.79	TN JACKSON	40	3	1.89	-2.05
FL DAYTONA BEACH	59	1	1.80	-0.95	MO ST LOUIS	33	4	1.23	-0.58	TN KNOXVILLE	37	1	5.14	0.97
FL FT LAUDERDALE	69	2	0.53	-1.69	MT BILLINGS	28	5	1.48	0.58	TN MEMPHIS	42	2	1.37	-2.36
FL FT MYERS	64	0	1.25	-0.59	MT BUTTE	23	6	0.40	-0.15	TN NASHVILLE	39	3	3.52	-0.06
FL JACKSONVILLE	54	2	2.77	-0.54	MT GLASGOW	17	6	0.23	-0.14	TX ABILENE	49	6	0.17	-0.86
FL KEY WEST	70	0	0.50	-1.51	MT GREAT FALLS	27	6	0.34	-0.57	TX AMARILLO	39	4	0.24	-0.26
FL MELBOURNE	62	1	2.34	0.15	MT HELENA	25	5	0.19	-0.44	TX AUSTIN	53	4	3.69	1.98
FL MIAMI	68	1	0.53	-1.48	MT KALISPELL	24	4	1.48	-0.05	TX BEAUMONT	56	5	1.68	-3.09
FL ORLANDO	60	0	1.23	-1.07	MT MILES CITY	26	10	0.02	-0.53	TX BROWNSVILLE	66	7	0.91	-0.65
FL PENSACOLA	54	3	3.06	-1.62	MT MISSOULA	26	3	0.40	-0.84	TX COLLEGE STATION	54	5	3.14	0.49
FL ST PETERSBURG	62	1	1.75	-0.47	NE GRAND ISLAND	28	6	0.25	-0.21	TX CORPUS CHRISTI	62	7	0.51	-1.20
FL TALLAHASSEE	52	1	2.58	-2.19	NE HASTINGS	29	7	0.26	-0.25	TX DALLAS/FT WORTH	51	8	1.59	-0.24
FL TAMPA	61	1	1.95	-0.04	NE LINCOLN	28	7	0.06	-0.48	TX DEL RIO	56	6	0.03	-0.53
FL WEST PALM BEACH	65	0	1.17	-1.63	NE MCCOOK	31	6	0.07	-0.37	TX EL PASO	50	7	0.00	-0.40
GA ATHENS	43	1	4.40	-0.20	NE NORFOLK	26	7	0.16	-0.36	TX GALVESTON	59	6	1.74	-1.52
GA ATLANTA	43	2	4.89	0.14	NE NORTH PLATTE	27	5	0.31	-0.05	TX HOUSTON	56	6	1.25	-2.04
GA AUGUSTA	44	0	6.65	2.60	NE OMAHA/EPPLEY	27	6	0.17	-0.57	TX LUBBOCK	43	4	0.00	-0.39
GA COLUMBUS	47	1	3.99	-0.60	NE SCOTTSBLUFF	30	5	0.52	0.02	TX MIDLAND	47	5	0.61	0.21
GA MACON	46	1	5.21	0.65	NE VALENTINE	26	6	0.23	-0.06	TX SAN ANGELO	51	7	0.08	-0.72
GA SAVANNAH	48	-1	2.72	-0.87	NV ELKO	30	5	1.48	0.50	TX SAN ANTONIO	55	6	1.40	-0.31
HI HILO	69	-3	17.87	7.99	NV ELY	31	6	0.62	-0.08	TX VICTORIA	59	6	3.73	1.57
HI HONOLULU	73	0	1.27	-2.28	NV LAS VEGAS	51	5	0.00	-0.48	TX WACO	51	6	2.05	0.40
HI KAHULUI	70	-2	1.00	-3.14	NV RENO	39	6	2.14	1.07	TX WICHITA FALLS	45	5	0.73	-0.30
HI LIHUE	71	-1	2.28	-3.61	NH WINNEMUCA	34	5	1.31	0.57	UT SALT LAKE CITY	35	7	2.17	1.06
ID BOISE	34	5	1.51	0.06	NH CONCORD	20	1	2.26	-0.25	VT BURLINGTON	18	2	2.05	0.23
ID LEWISTON	36	2	0.89	-0.39	NJ ATLANTIC CITY	31	0	4.75	1.29	VA LYNCHBURG	34	0	3.33	0.47
ID POCATELLO	29	6	1.45	0.41	NJ NEWARK	31	0	3.35	-0.04	VA NORFOLK	40	1	5.07	1.29
IL CHICAGO/O'HARE	25	4	1.35	-0.18	NM ALBUQUERQUE	41	7	0.30	-0.14	VA RICHMOND	36	0	3.96	0.72
IL MOLINE	24	4	1.40	-0.14	NY ALBANY	20	-1	3.43	1.07	VA ROANOKE	35	0	2.08	-0.54
IL PEORIA	26	4	0.80	-0.71	NY BINGHAMTON	20	-1	2.94	0.54	VA WASH/DULLES	33	2	1.77	-0.93
IL ROCKFORD	22	4	1.41	0.13	NY BUFFALO	24	0	2.65	-0.05	WA OLYMPIA	38	0	8.15	0.14
IL SPRINGFIELD	28	4	0.54	-0.97	NY ROCHESTER	23	-1	2.98	0.90	WA QUILLAYUTE	39	-1	12.52	-1.85
IN EVANSVILLE	33	3	4.35	1.69	NY SYRACUSE	21	-1	2.72	0.38	WA SEATTLE-TACOMA	40	0	3.77	-1.61
IN FORT WAYNE	23	0	1.25	-0.62	NC ASHEVILLE	36	0	3.10	-0.15	WA SPOKANE	28	1	1.90	-0.08
IN INDIANAPOLIS	28	2	2.07	-0.25	NC CHARLOTTE	40	1	4.07	0.36	WA YAKIMA	30	0	1.65	0.44
IN SOUTH BEND	26	3	2.40	0.17	NC GREENSBORO	37	0	3.97	0.80	WV BECKLEY	29	0	1.80	-1.12
IA BURLINGTON	25	3	1.20	-0.04	NC HATTERAS	45	0	5.88	0.58	WV CHARLESTON	32	0	1.41	-1.50
IA CEDAR RAPIDS	20	2	1.15	0.14	NC RALEIGH	38	-1	6.03	2.55	WV ELKINS	26	-1	1.63	-1.45
IA DES MOINES	26	7	0.48	-0.48	NC WILMINGTON	45	0	4.66	0.79	WV HUNTINGTON	32	0	1.92	-0.91
IA DUBUQUE	20	4	1.39	0.13	ND BISMARCK	15	6	0.39	-0.06	WI EAU CLAIRE	15	4	1.58	0.60
IA SIOUX CITY	22	4	0.40	-0.15	ND DICKINSON	20	7	0.20	-0.18	WI GREEN BAY	16	2	0.87	-0.28
IA WATERLOO	20	5	1.08	0.28	ND FARGO	10	4	0.33	-0.34	WI LA CROSSE	18	4	1.46	0.53
KS CONCORDIA	32	6	0.06	-0.52	ND GRAND FORKS	8	4	0.07	-0.65	WI MADISON	21	5	0.85	-0.22
KS DODGE CITY	33	3	0.50	0.01	ND JAMESTOWN	11	3	0.29	-0.33	WI MILWAUKEE	24	5	1.20	-0.40
KS GOODLAND	32	4	0.26	-0.15	ND MINOT	14	5	0.15	-0.61	WI WAUSAU	15	3	1.62	0.68
KS HILL CITY	32	6	0.11	-0.36	ND WILLISTON	12	3	0.38	-0.15	WY CASPER	28	6	0.47	-0.08
KS TOPEKA	32	5	0.19	-0.76	OH AKRON-CANTON	25	0	2.51	0.35	WY CHEYENNE	40	14	0.35	-0.05
KS WICHITA	34	5	0.92	0.13	OH CINCINNATI	29	1	4.45	1.86	WY LANDER	28	8	0.02	-0.46
KY JACKSON	33	0	2.63	-1.13	OH CLEVELAND	26	1	2.63	0.59	WY SHERIDAN	24	3	1.48	0.75

Based on 1961-90 normals.

(Note: 24 new stations added for December 1999 table)

\*\*\* Not Available.

# National Agricultural Summary

January 31 - February 6, 2000

## HIGHLIGHTS

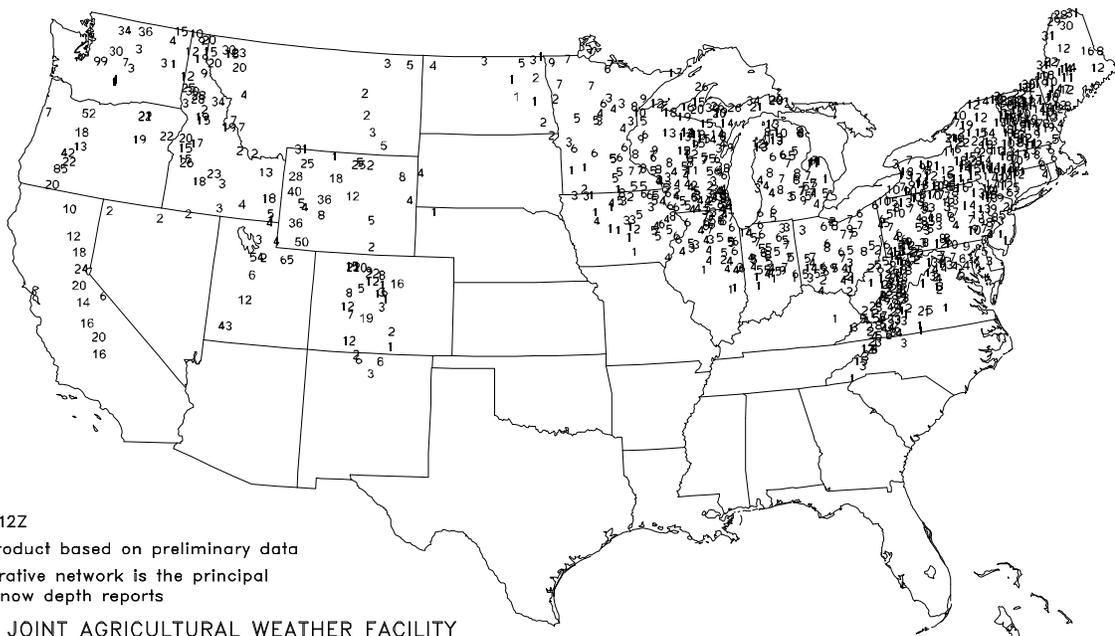
The Great Plains remained mostly dry, with only light, scattered precipitation in the central and southern Plains and virtually no precipitation in the northern Plains. The hard red winter wheat crop was mostly exposed, with little or no protective snow cover, but winter kill remained light due to above-normal temperatures and seasonably mild overnight lows. Near-normal and below-normal temperatures prevailed in the soft red winter wheat areas of the eastern Corn Belt and Ohio Valley, but adequate snow cover, especially near the Great Lakes, protected wheat fields from the cold weather. Another winter storm moved northward along the Atlantic Coastal Plains, increasing moisture supplies with mixed precipitation near the coast and snow in the Virginia Piedmont and central and northern

Appalachians. Coastal areas of the Pacific Northwest, including northern California, remained wet due to a persistent stormy pattern. In California, the condition of small grains, winter forages, new alfalfa, and emerging sugarbeets improved with recent rainfall. Also, dryland grain and oat fields began to germinate and emerge. Above-normal temperatures and improved moisture supplies stimulated growth of emerged crops. Farmers in the southern San Joaquin Valley continued planting corn for grain and silage. Growers also prepared cotton, safflower, and sunflower fields for spring planting. In Florida, over-night lows briefly dipped below freezing in northern areas of the State, and some citrus groves experienced frost, but damage to trees and fruit was minimal.

*(Commodity-specific information will resume during the first week of April 2000.)*

Snow Depth (Inches)

Feb 07, 2000



Snow Depth at 12Z

Experimental product based on preliminary data

The NWS cooperative network is the principal source of the snow depth reports

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Supplemental values from the U.S. Air Force Snow Depth Analysis, 00Z Feb. 7

## International Weather and Crop Summary

January 30- February 5, 2000

### HIGHLIGHTS

**FSU-WESTERN:** Unseasonably mild weather provided favorable overwintering conditions for winter grains but melted some protective snow cover in Ukraine and southern Russia.

**EUROPE:** Unseasonably mild weather reduced the winter hardness of winter grains and oilseeds.

**NORTHWESTERN AFRICA:** Prolonged dryness increased stress on winter grains in Morocco and the western half of Algeria.

**AUSTRALIA:** Sunny skies aided summer crop development.

**SOUTH AFRICA:** Dry weather dominated the corn belt, reducing moisture for summer crop reproduction.

**SOUTHEAST ASIA:** A tropical disturbance brought unseasonably heavy showers to the eastern Philippines, while widespread showers favored main-season rice in Java, Indonesia.

**EASTERN ASIA:** Cold weather continued to chill the North China Plain and the Yangtze Valley, keeping winter crops dormant.

**SOUTH AMERICA:** Widespread rain favored reproductive to filling soybeans across southern Brazil, but somewhat drier weather stressed summer crops in central Argentina.

## January 2000

**MONTHLY DATA FROM SELECTED FOREIGN CITIES  
CLIMATE PREDICTION CENTER-NCEP-NWS-NOAA  
\*\*\* DATA NOT AVAILABLE**

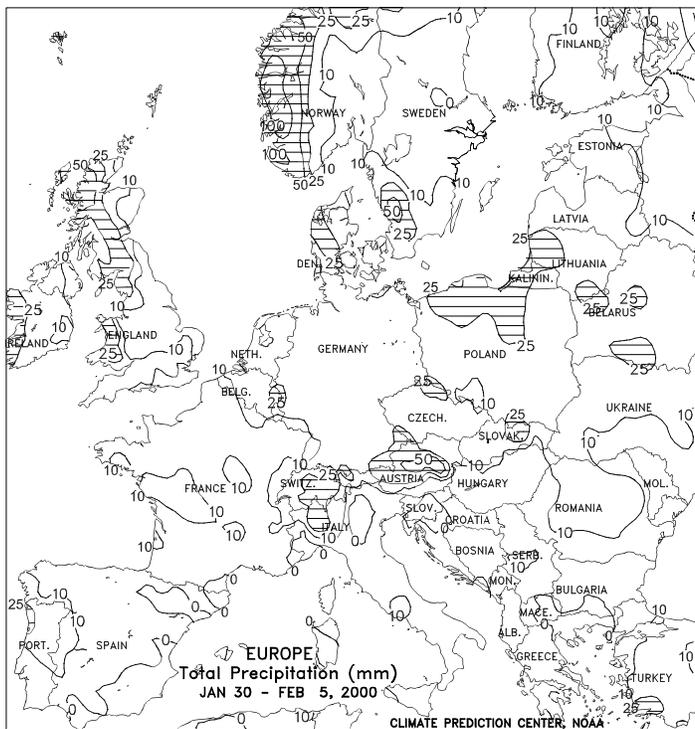
COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM
NORWAY	OSLO	1	-5	9	-17	-2	5.1	38	-21
SWEDEN	STOCKHOLM	1	-4	7	-21	-2	1.2	0	-38
FINLAN	HELSINKI	-1	-5	4	-21	-3	3.6	39	-2
IRELAN	DUBLIN	8	3	12	-3	5	0.1	41	-29
ICELAN	REYKJAVIK	2	-1	8	-7	1	1.4	54	-22
DENMAR	COPENHAGEN	4	0	9	-12	2	2.0	30	-19
LUXEMB	LUXEMBOURG	4	0	9	-9	2	1.6	26	-46
SWITZE	ZURICH	2	-2	11	-12	0	0.4	33	-35
	GENEVA	4	-1	12	-9	1	0.6	17	-62
FRANCE	PARIS/ORLY	6	2	13	-7	4	***	16	**
	STRASBOURG	5	0	12	-11	3	1.8	27	-9
	BOURGES	7	1	12	-7	4	0.7	18	-42
	BORDEAUX	9	2	15	-5	6	0.1	18	-78
	TOULOUSE	8	1	13	-5	5	-0.5	6	-46
	MARSEILLE	11	2	17	-2	6	0.1	2	-44
SPAIN	VALLADOLID	6	-2	14	-6	2	-1.9	15	-32
	MADRID	10	-1	16	-4	4	-1.0	22	-29
	SEVILLE	15	5	20	1	10	-0.8	24	-40
PORTUG	LISBON	13	6	17	2	9	-2.0	21	-98
GERMAN	HAMBURG	5	1	10	-9	3	2.6	48	-13
	BERLIN	3	-1	11	-10	1	1.5	46	3
	DUSSELDORF	6	2	11	-7	4	2.3	53	-10
	LEIPZIG	3	-1	10	-12	1	1.5	39	5
	DRESDEN	2	-2	10	-13	0	1.5	54	16
	STUTTGART	3	-2	10	-14	1	1.1	38	-10
	NURNBERG	2	-2	9	-15	0	0.8	26	-20
AUSTRI	VIENNA	1	-4	13	-14	-2	-0.3	50	23
	INNSBRUCK	1	-7	11	-18	-3	-1.6	34	-14
CZECHR	PRAGUE	1	-3	9	-15	-1	1.2	20	-4
POLAND	WARSAW	0	-3	8	-16	-1	1.8	29	7
	LODZ	0	-3	9	-14	-1	1.0	34	-4
	KATOWICE	1	-5	7	-19	-2	0.5	66	24
	PRZEMYSL	-1	-5	7	-15	-3	0.4	51	22
HUNGAR	BUDAPEST	1	-4	12	-11	-1	0.2	13	-19
YUGOSL	BELGRADE	2	-3	14	-15	0	-1.0	27	-21
ROMANI	BUCHAREST	0	-8	7	-18	-4	-2.0	35	-11
BULGAR	SOFIA	-1	-7	7	-14	-4	-2.6	19	-21
ITALY	MILAN	8	-2	22	-7	3	2.0	4	-60
	VERONA	6	-4	11	-9	1	-0.9	0	-79
	VENICE	6	-2	10	-7	2	-0.4	0	-61
	GENOA	12	6	18	-1	9	1.1	3	-86
	ROME	12	2	16	-3	7	-1.1	40	-44
	NAPLES	12	4	17	-3	8	-0.3	25	-79
GREECE	THESSALONIKA	7	-1	15	-6	3	-1.9	3	-37
	LARISSA	8	-3	16	-10	3	-2.6	15	-44
	ATHENS	11	5	17	-1	8	-2.2	8	-48
TURKEY	ISTANBUL	6	2	11	-5	4	-1.2	74	-12
	ANKARA	-1	-10	14	-24	-6	-5.9	58	26
CYPRUS	LARNACA	15	6	21	0	11	-1.4	55	-39
ESTONI	TALLINN	0	-3	5	-18	-2	3.8	72	21
LITHUA	KAUNAS	-1	-4	4	-18	-2	2.5	38	3
BELARU	MINSK	-2	-5	3	-17	-4	3.1	35	-3
RUSSIA	KAZAN	-6	-10	1	-27	-8	4.8	31	-1
	MOSCOW	-5	-8	2	-20	-6	2.8	41	1
	YEKATERINBURG	-10	-16	-1	-31	-13	1.3	32	9
	OMSK	-14	-20	-4	-36	-17	0.2	25	3
	NOVOSIBIRSK	-16	-21	-5	-41	-19	0.8	20	0
	BARNAUL	-14	-22	-5	-40	-18	-3.1	23	-1
	KHABAROVSK	-18	-27	-9	-34	-22	-1.5	16	4
	VLADIVOSTOK	-12	-18	-4	-25	-15	-1.7	28	16
	SARATOV	-5	-9	1	-22	-7	4.2	43	9
	VOLGOGRAD	-2	-8	2	-20	-5	3.3	19	-17
	ASTRAKHAN	1	-4	10	-12	-1	4.3	1	-13
	KRASNODAR	2	-2	7	-17	0	-0.2	63	-3
	ORENBURG	-6	-11	0	-23	-8	5.2	29	3
KAZAKH	TSELINOGRAD	-11	-17	-1	-37	-14	3.2	10	3
	KARAGANDA	-10	-16	-1	-34	-13	0.2	37	17
GEORGI	TBILISI	4	-1	11	-7	2	0.1	38	18
UZBEKI	TASHKENT	9	1	18	-6	5	3.3	66	13
TURKME	ASHKHABAD	7	0	20	-8	4	1.8	3	-22

Based on Preliminary Reports

## January 2000

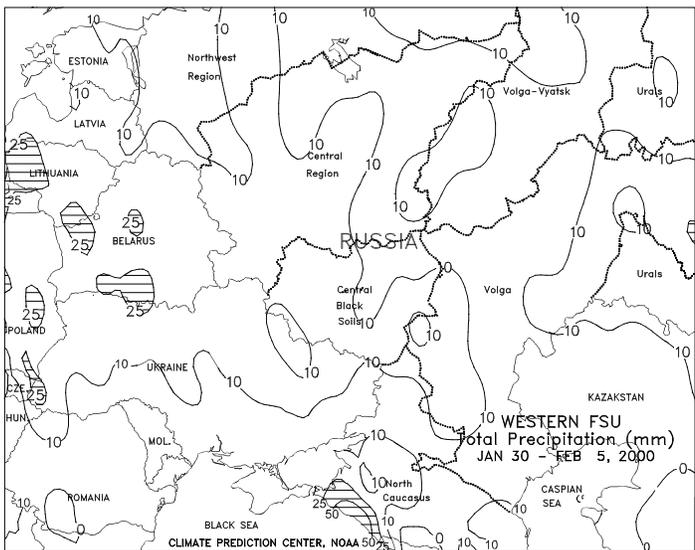
COUNTRY CITY	TEMPERATURE (C)						PRECIPITATION (MM)			COUNTRY CITY	TEMPERATURE (C)						PRECIPITATION (MM)		
	AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM	AVG MAX		AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM		
SYRIA DAMASCUS	11	1	22	-9	6	-0.3	86	52		DURBAN	27	20	31	16	24	-0.4	175	41	
ISRAEL JERUSALEM	11	4	22	-1	7	-0.9	224	87		CAPE TOWN	28	16	41	11	22	1.5	11	-3	
PAKIST KARACHI	**	**	28	12	**	***	**	**		CANADA TORONTO	-1	-10	12	-22	-6	0.8	19	-26	
INDIA AMRITSAR	18	6	24	1	12	0.6	43	18		MONTREAL	-6	-14	9	-26	-10	0.1	63	0	
NEW DELHI	20	8	25	5	14	0.1	18	1		WINNIPEG	-12	-22	-1	-35	-17	1.2	19	0	
AHMEDABAD	30	12	33	8	21	1.0	0	-2		REGINA	-10	-22	-1	-34	-16	0.7	19	4	
INDORE	28	11	33	8	19	1.3	0	-5		SASKATOON	-12	-23	1	-35	-17	0.3	23	7	
CALCUTTA	27	13	30	8	20	-0.1	2	-9		LETHBRIDGE	-2	-16	7	-32	-9	-1.0	21	0	
VERAVAL	29	17	31	13	23	1.6	0	-1		CALGARY	-4	-15	6	-27	-10	-0.3	9	-3	
BOMBAY	32	18	35	13	25	1.4	0	0		EDMONTON	-8	-16	4	-26	-12	0.6	7	-17	
POONA	31	11	34	6	21	0.4	0	0		VANCOUVER	6	1	9	-4	4	0.5	119	-31	
BEGAMPET	31	16	35	11	23	1.2	0	-5		MEXICO GUADALAJARA	26	8	30	3	17	1.2	0	-12	
VISHAKHAPATNAM	28	20	30	18	24	***	0	**		MEXICO CITY	**	**	26	5	***	***	0	-5	
MADRAS	30	21	31	17	26	1.1	1	-27		ACAPULCO	30	21	35	20	26	-0.7	0	-5	
MANGALORE	34	22	36	20	28	1.2	6	0		BERMUD ST. GEORGES	20	15	24	7	18	-0.3	160	36	
HONGKO KINGS PEAK	19	15	26	6	17	***	71	**		BAHAMA NASSAU	25	18	30	11	21	0.3	77	31	
N KORE PYONGYANG	-4	**	3	-20	***	***	24	15		JAMAIC KINGSTON	30	23	31	20	27	0.8	5	-17	
S KORE SEOUL	1	-5	10	-12	-2	3.2	40	23		P RICO SAN JUAN	27	21	30	18	24	-0.7	60	-7	
JAPAN SAPPORO	0	-6	7	-15	-3	1.5	137	29		GUADEL RAIZET	28	22	30	19	25	1.1	113	55	
NAGOYA	10	3	15	-3	6	2.6	60	16		MARTIN LAMENTIN	28	23	29	20	26	1.4	139	25	
TOKYO	11	5	17	-1	8	2.6	70	24		BARBAD BRIDGETOWN	28	23	30	20	26	0.1	81	18	
YOKOHAMA	10	4	16	-1	7	2.5	78	16		TRINID PORT OF SPAIN	30	22	32	20	26	1.4	57	-10	
KYOTO	10	3	16	-2	7	2.6	62	5		COLOMB BOGOTA	18	7	20	0	13	-0.2	17	-15	
OSAKA	10	4	18	0	7	1.9	55	8		VENEZU CARACAS	**	**	29	21	**	***	**	**	
THAILA PHETCHABUN	31	20	35	16	26	2.9	0	-9		F GUIA CAYENNE	28	23	30	22	25	-0.2	792	365	
BANGKOK	33	24	36	20	29	2.0	0	-9		BRAZIL FORTALEZA	**	**	28	25	***	**	**	**	
MALAYS KUALA LUMPUR	32	24	34	21	28	1.8	318	155		RECIFE	30	23	34	21	26	-0.4	298	208	
VIETNA HANOI	21	17	29	11	19	2.3	2	-16		BELO HORIZONTE	28	20	33	17	24	0.8	471	173	
CHINA HARBIN	-15	-25	-8	-30	-20	0.6	11	7		CAMPO GRANDE	**	**	25	23	***	**	**	**	
HAMI	-3	-16	1	-20	-10	0.8	3	2		FRANCA	27	19	30	17	23	3.9	485	188	
LANCHOW	3	-8	8	-12	-3	3.4	0	-1		LONDRINA	30	20	34	16	25	1.4	103	-120	
BEIJING	-3	-10	4	-15	-6	-2.1	12	9		SANTA MARIA	31	20	36	15	26	1.0	246	101	
TIENTSIN	-2	-10	4	-14	-6	-2.7	9	6		PORTO ALEGRE	30	20	36	15	25	0.2	28	-91	
LHASA	7	-6	11	-12	0	1.8	4	3		PERU LIMA	**	20	30	18	**	***	0	0	
KUNMING	15	4	20	-2	10	2.1	35	22		BOLIVI LA PAZ	16	4	34	2	10	0.9	131	-12	
CHENGCHOW	1	-4	10	-10	-2	-2.4	24	11		CHILE SANTIAGO	30	11	34	10	20	-0.5	0	0	
YEHCHANG	6	1	16	-3	4	-0.7	44	24		ARGENT IGUAZU	32	21	36	16	27	***	164	**	
HANKOW	5	1	14	-5	3	0.2	92	59		FORMOSA	34	22	41	17	28	0.7	279	133	
CHUNGKING	10	7	14	2	8	***	14	**		CERES	32	19	37	12	25	-0.3	188	57	
CHIHKIANG	7	3	23	-3	5	0.1	37	-2		CORDOBA	28	17	34	12	23	-0.8	160	34	
WU HU	5	1	18	-6	3	***	88	**		RIO CUARTO	27	18	32	10	23	-0.5	184	58	
SHANGHAI	7	3	18	-4	5	***	108	**		ROSARIO	33	19	37	15	26	1.9	43	-62	
NANCHANG	7	3	18	-4	5	0.5	118	61		BUENOS AIRES	32	19	39	15	25	2.0	27	-70	
TAIPEI	19	15	26	10	17	2.2	35	-55		SANTA ROSA	30	17	36	10	24	0.0	103	30	
CANTON	19	12	27	4	15	1.7	16	-28		TRES ARROYOS	29	16	36	10	23	1.6	114	33	
NANNING	19	12	27	5	15	2.5	2	-34		NEW CA NOUMEA	29	23	32	20	26	0.1	181	69	
CANARY LAS PALMAS	20	15	26	12	18	0.2	34	18		FIJI NAUSORI	32	23	33	22	28	1.3	169	-150	
MOROCC CASABLANCA	17	8	27	4	12	-0.4	37	-27		SAMOA PAGO PAGO	32	26	34	25	29	1.7	294	-41	
MARRAKECH	17	6	26	2	12	-0.1	16	-8		TAHITI PAPEETE	31	24	32	22	27	0.6	283	-34	
ALGERI ALGER	16	3	21	0	9	-1.8	16	-80		AUSTRA DARWIN	30	26	33	23	28	-0.3	417	-12	
BATNA	9	-3	14	-6	3	-1.6	4	-36		BRISBANE	27	21	37	19	24	-1.4	20	-149	
TUNISI TUNIS	15	7	18	3	11	-0.6	20	-53		PERTH	30	19	37	13	24	-0.2	10	1	
NIGER NIAMEY	34	20	40	17	27	2.8	0	0		CEDUNA	27	18	42	9	23	0.7	21	11	
MALI TIMBUKTU	30	18	38	9	24	3.0	1	1		ADELAIDE	26	18	40	11	22	0.3	6	-30	
BAMAKO	33	21	38	16	27	2.4	0	0		MELBOURNE	23	14	36	7	19	-1.1	19	-21	
MAURIT NOUAKCHOTT	29	16	36	11	22	1.0	0	0		WAGGA	27	16	34	9	21	-2.3	92	45	
SENEGA DAKAR	24	19	29	16	21	0.6	0	-2		CANBERRA	23	12	34	5	18	-2.5	37	-17	
CHAGOS DIEGO GARCIA	**	**	32	24	**	***	236	-91		INDONE DJAKARTA	29	25	32	22	27	0.7	0	**	
LIBYA TRIPOLI	16	5	19	1	10	-1.8	30	-30		PHILIP MANILA	30	25	32	22	27	1.1	29	9	
BENGHAZI	15	9	18	7	12	-0.5	66	1											
EGYPT CAIRO	18	10	23	5	14	-0.2	6	0											
ASWAN	23	10	33	5	16	0.7	0	0											
ETHIOP ADDIS ABABA	**	**	25	5	***	**	**	**											
KENYA NAIROBI	26	13	29	7	20	0.4	14	-29											
TANZAN DAR ES SALAAM	32	25	34	21	28	0.9	2	-83											
GABON LIBREVILLE	30	24	31	22	27	0.4	181	-106											
TOGO LOME	32	25	34	22	28	1.6	0	-14											
BURKIN OUAGADOUGOU	34	22	39	18	28	3.2	0	0											
COTE D ABIDJAN	31	25	33	22	28	1.1	55	39											
MOZAMB MAPUTO	29	22	34	19	26	-0.7	266	84											
ZAMBIA LUSAKA	**	**	31	15	**	***	**	**											
ZIMBAB HARARE	27	17	31	14	22	1.6	285	94											
S AFRI PRETORIA	26	16	32	12	21	-1.3	197	62											
JOHANNESBURG	22	12	28	7	17	-2.3	102	-23											
BETHAL	23	13	29	6	18	-1.4	82	-52											

Based on Preliminary Reports



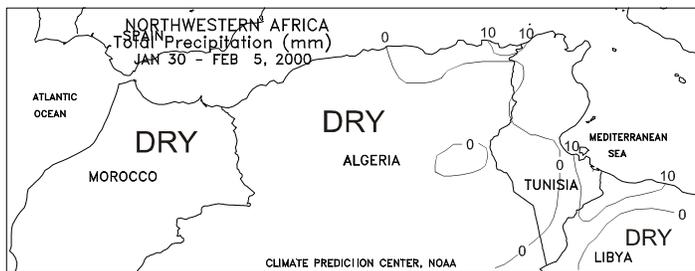
**EUROPE**

Unseasonably mild weather (temperatures 3 to 7 degrees C above normal) prevailed across Europe, reducing the winter hardness of dormant grains and oilseeds. In southern England, northwestern France, the Benelux countries, and northwestern Germany, temperatures averaged between 7 and 9 degrees C, likely causing winter grains to resume slow growth in some areas. Farther east, the warmer weather melted much of the protective snow cover across eastern Europe, exposing winter grains and oilseeds to potentially cold weather. Scattered showers (10-35 mm) maintained soil moisture in north-central and northeastern Europe. Elsewhere across Europe, only isolated, lighter showers (less than 15 mm) fell in major winter grain-producing areas. Mainly dry weather has prevailed in western and southern Europe during the last few weeks. Although winter grains are dormant in most areas, more rain is needed to increase soil moisture, especially in southern Spain and Portugal where winter grain growth has continued.



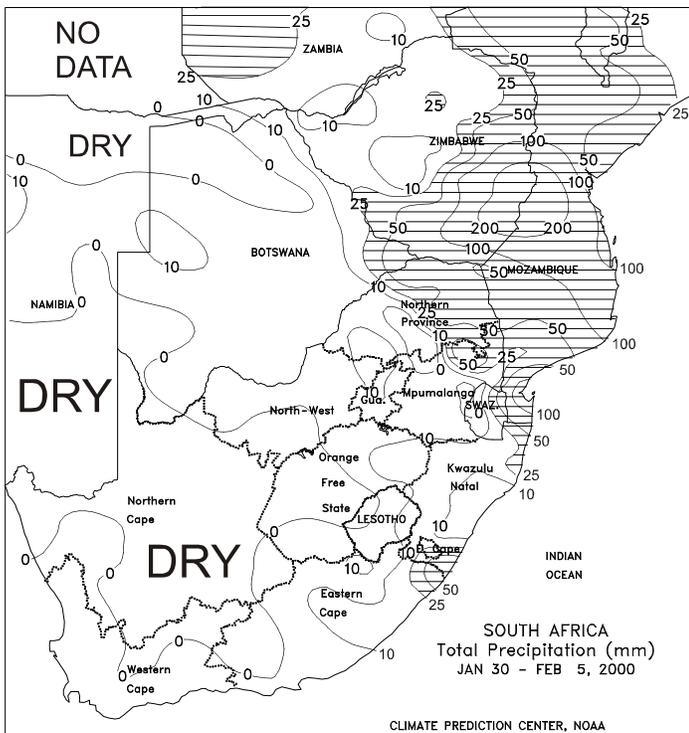
**FSU-WESTERN**

A warming trend spread across most of the region, providing favorable overwintering conditions for dormant winter grains. Weekly temperatures averaged 2 to 7 degrees C in Ukraine, southern Russia, Belarus, and the Baltics. In northern Russia, weekly temperatures averaged 6 to 9 degrees C above normal. The mild weather melted some protective snow cover, especially in the Ukraine and southern Russia, where extreme maximum temperatures rose well above freezing (3 to 10 degrees C). A deep snow cover remained over winter grain areas in northern Russia. Widespread, light to moderate precipitation (3-25 mm or more) fell over the region, increasing potential moisture reserves. Greatest amounts of rain and snow (10-40 mm) fell in the Baltics, Belarus, the northern Ukraine, and parts of Russia (Central Region, Central Black Soils Region, lower Volga Valley, and the western North Caucasus).



**NORTHWESTERN AFRICA**

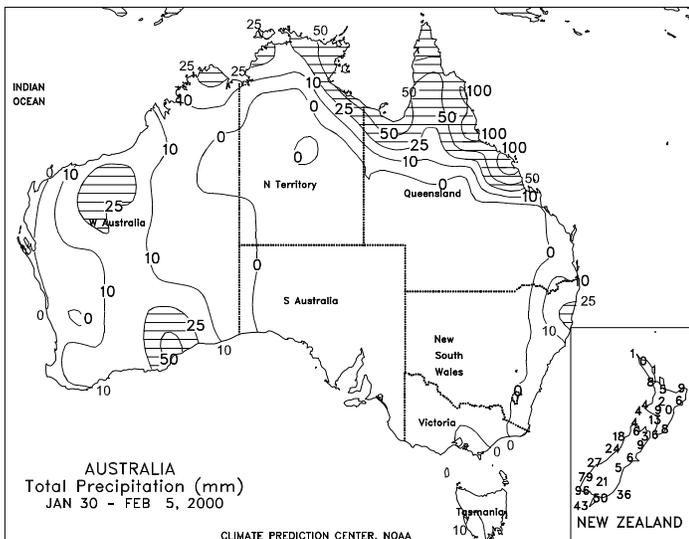
High pressure dominated the region, keeping most winter grain areas unseasonably warm and dry. Little, if any, rain has fallen in Morocco for the past 4 weeks, while western Algeria has gone 5 consecutive weeks without significant precipitation. The persistent dryness in these areas has likely increased stress on winter grains, resulting in a decline in crop conditions. Rain is needed soon to prevent further crop deterioration. Farther east, light, scattered precipitation (1-10 mm) fell in Algeria and Tunisia. Weekly temperatures averaged 1 to 5 degrees C above normal across the region, increasing evaporation rates. The combination of prolonged dryness and this past week's unseasonably mild weather has likely depleted subsoil moisture reserves in Morocco and the western half of Algeria, necessitating timely rain during the remainder of the growing season to prevent serious declines in yield prospects.



**SOUTH AFRICA**

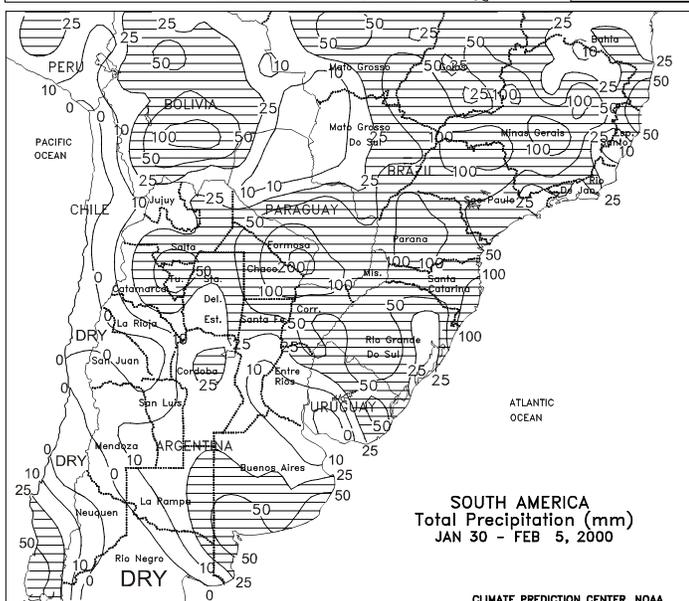
Dry weather dominated the corn belt, with light showers (10 mm or more) confined to eastern Free State. In western sections of the corn belt (North West and central Free State), this marked the 3<sup>rd</sup> week of below-normal rainfall following the soaking rains of early January. Temperatures continued to average near to below normal, although a larger area of the western and central corn belt experienced highs in the 30's degrees C than in recent weeks. Early to middle February typically marks the peak of corn reproduction, making the warm-up and the continuation of the drying trend particularly untimely. Rain is needed in western sections of the corn belt to ensure normal development of corn and other summer crops currently in or advancing through reproduction. In fact, the late-planted portion of this season's crop will likely need timely rains well into March. Dry, warm weather necessitated irrigation of most other major crop areas, although scattered showers (25 mm or more) fell in the southernmost sugarcane areas of KwaZulu-Natal.

**AUSTRALIA**



Dry weather dominated much of southeastern and east-central Australia. In the main sorghum and cotton areas (southern Queensland and northern New South Wales), temperatures continued to average 1 to 2 degrees C below normal, but sunny skies and daily highs in the mid- to upper-30's degrees C favored summer crop growth and development. Farther south, a heat wave (temperatures 3-6 degrees C above normal, with highs exceeding 40 degrees C) centered over western Victoria stressed livestock and raised evaporative losses in pastures and grazing lands. Elsewhere, scattered showers (10-50 mm or more) benefitted the northern sugarcane areas of both New South Wales and Queensland. Locally heavy rain (10-25 mm or more) covered the agricultural districts in Western Australia, benefitting summer crops and boosting moisture reserves for livestock. In New Zealand, rainfall was light (10 mm or less) in the main small grain and pasture areas, but mild summer weather (highs in the upper 20's degrees C) limited evapotranspiration rates.

**SOUTH AMERICA**

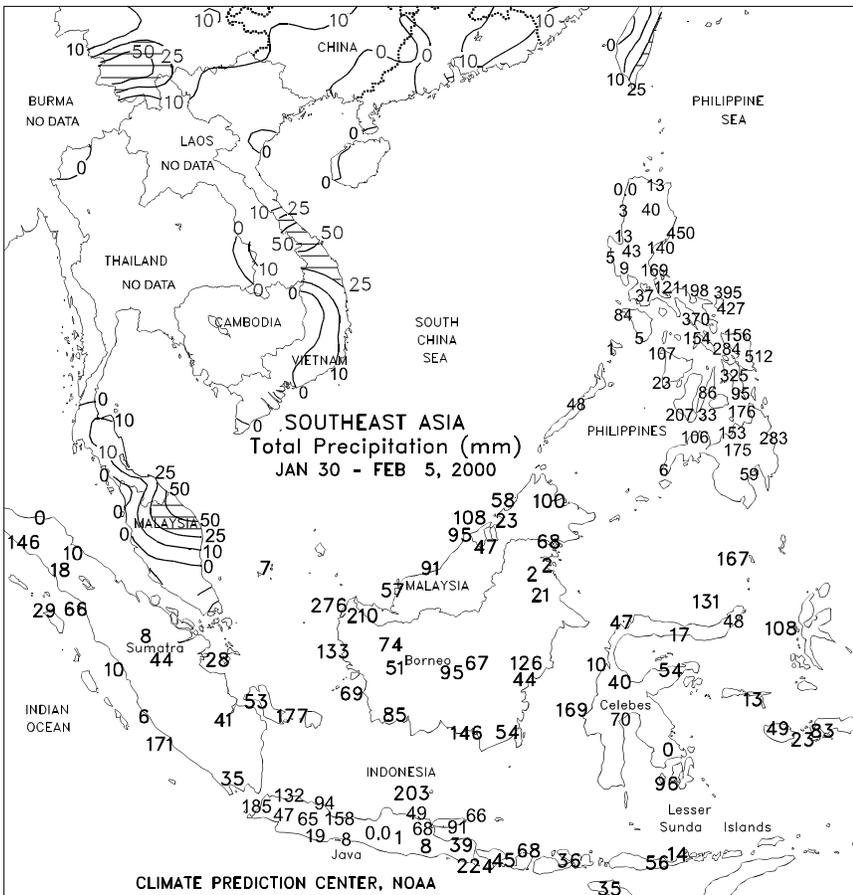


In southern Brazil, widespread showers (40-125 mm) favored reproductive to filling soybeans, stabilizing yield potentials. This kind of widespread rainfall across the major soybean-producing areas has been rare during this growing season. The rain also aided filling first-season corn and boosted planting moisture for second-crop corn. Temperatures averaged 1 to 2 degrees C above normal from Parana northward to Mato Grosso and near normal in Rio Grande do Sul. Widespread showers (30-110 mm) also favored soybeans and cotton in Paraguay. In northern Argentina, torrential showers (100-280 mm) boosted moisture supplies but caused flooding, especially in eastern Formosa. Farther south, somewhat drier weather (5-20 mm) prevailed across southern Santa Fe and northern Buenos Aires, reducing soil moisture for reproductive soybeans and reproductive to filling corn. Moderate rain (15-50 mm) aided corn and soybeans in southern Buenos Aires, but drier weather is needed for sunflowerseed harvesting. Temperatures averaged near normal across central Argentina and 1 to 2 degrees C below normal across northern Argentina and southern Paraguay. According to reports as of February 4, Argentine soybean and corn planting were nearly complete. Sunflowerseed was 10 percent harvested.



**EASTERN ASIA**

Cold weather continued to chill the North China Plain and the Yangtze Valley. In the North China Plain, dormant winter wheat withstood minimum temperatures ranging from -9 to -15 degrees C. A light snow cover helped to protect winter wheat. Farther south along the Yangtze Valley, minimum temperatures of -2 to -6 degrees C burned back winter crops. The cold weather continued to slow sugarcane development in the southern coastal provinces. Light rain (5-12 mm) fell across southern interior China. Temperatures averaged 2 to 4 degrees C below normal across most of eastern China. Temperatures averaged near normal across the southeast coast.



**SOUTHEAST ASIA**

On February 3 and 4, a tropical disturbance brought unseasonably heavy showers (100-400 mm or more) to the eastern Philippines, boosting moisture supplies for second-crop grains, but causing local flooding. In Java, Indonesia, widespread showers (40-175 mm) boosted moisture supplies for main-season rice. Seasonable showers (10-70 mm) maintained adequate moisture supplies for oil palm across eastern peninsular Malaysia, but mostly dry weather prevailed across the western sections of the peninsula. Seasonably dry, but cool, weather prevailed across Indochina. Temperatures averaged 2 to 4 degrees C below normal across Thailand and central and northern Vietnam. Light to moderate showers (10-50 mm) fell across central Vietnam.

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## Weather Data for Selected Locations in the Delta

### Weather Data for the Week Ending February 5, 2000

Data provided by the Mississippi State Delta Research and Extension Center (DREC) and the Southern Regional Climate Center (SRCC).

STATES AND STATIONS	TEMPERATURE EF						PRECIPITATION								4-INCH SOIL TEMP, °F		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	TEMP. EF		PRECIP.		
																30 AND ABOVE	32 AND BELOW	0.1 INCH OR MORE	5.0 INCH OR MORE	
MS BATESVILLE *	43	23	58	19	33	-7	0.00	-0.87	0.00	-	-	-	-	-	-	0	7	0	0	
BELZONI *	49	26	64	22	38	-6	0.00	-1.07	0.00	-	-	-	-	-	-	0	7	0	0	
CLARKSDALE *	46	27	59	21	37	-4	0.00	-1.05	0.00	-	-	-	-	-	-	0	7	0	0	
CLEVELAND *	44	25	61	20	35	-9	0.00	-1.07	0.00	-	-	2.13	37	-	-	0	7	0	0	
GREENVILLE *	45	26	64	25	36	-8	0.00	-0.91	0.00	-	-	-	-	-	-	0	7	0	0	
GREENWOOD *	48	24	62	21	36	-8	0.00	-0.93	0.00	-	-	2.78	52	-	-	0	7	0	0	
INDIANOLA 1S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
INVERNESS 5E	46	28	62	23	37	-	0.00	-	0.00	4.93	-	2.21	-	46	40	0	7	0	0	
LYON	45	25	58	21	35	-	0.00	-	0.00	4.84	-	1.56	-	-	-	0	7	0	0	
MOORHEAD *	48	29	63	24	39	-5	0.00	-0.95	0.00	-	-	2.07	37	-	-	0	6	0	0	
ONWARD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ROLLING FORK *	48	27	66	24	38	-5	0.00	-1.03	0.00	-	-	2.12	36	-	-	0	7	0	0	
SIDON	48	27	63	22	38	-	0.00	-	0.00	4.85	-	2.50	-	46	40	0	7	0	0	
TUNICA *	43	23	58	20	33	-6	0.00	-0.84	0.00	-	-	0.77	15	-	-	0	7	0	0	
VICKSBURG *	51	28	65	24	40	-7	0.00	-1.14	0.00	-	-	-	-	-	-	0	6	0	0	
YAZOO CITY *	48	26	65	21	37	-9	0.00	-1.16	0.00	-	-	2.16	33	-	-	0	7	0	0	
STONEVILLE *	47	25	65	19	36	-7	0.00	-1.04	0.00	6.96	68	3.52	77	41	35	0	7	0	0	

Compiled by USDA/OCE/WAOB's Stoneville Field Office.

\* Based on 1964-93 normals.

x Based on 1961-90 normals.

**Delta Weather and Crop Summary:** The Delta experienced another week of below-normal temperatures, but the snow accumulation helped to insulate the winter wheat crop. As the snow melted, it recharged soil moisture and improved prospects for winter wheat.

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