

WEEKLY WEATHER AND CROP BULLETIN

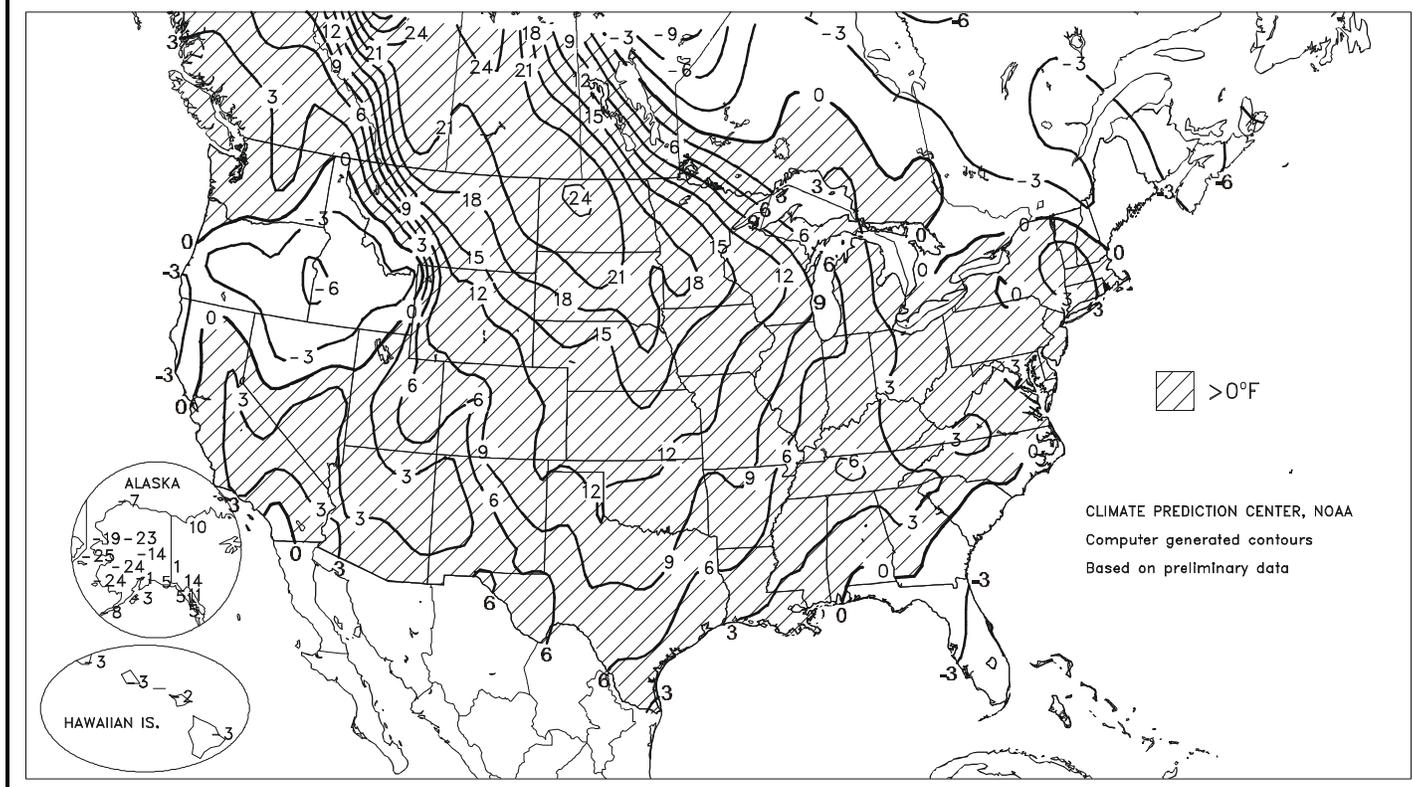
U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service

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



Departure of Average Temperature from Normal (°F)

DEC 26, 1999 - JAN 1, 2000



CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary data

HIGHLIGHTS

December 26, 1999 - January 1, 2000

Dry weather prevailed nearly nationwide, while near-record to record warmth spread as far east as the **Plains**. By week's end, cold conditions eased significantly across the **Midwest** and **East**. Weekly temperatures averaged 7 to 25°F above normal in the **Plains** and **western Corn Belt**. The unusual warmth eliminated snow cover on the **northern Plains**, where temperatures averaged above normal for a 10th consecutive week and highs occasionally exceeded 60°F as far north as **Montana**. In contrast, weekly readings averaged as much as 6°F below normal in **Florida** and the **Pacific Northwest**. In the latter region, persistent fog cloaked many interior valleys. **Florida's**

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(Continued from front cover)

early-week cool snap resulted in temperatures as low as 35°F in northernmost citrus and vegetable areas. Toward week's end, light precipitation developed across the **Southwest**, providing limited relief from extremely dry autumn and early-winter conditions.

For the second consecutive week, more than 100 daily-record highs were set or tied nationally. However, the core of record warmth shifted from **California** to the **Plains** and **upper Midwest**. Early in the week, warm conditions lingered in **California**, where **Bakersfield** notched consecutive record highs on December 26-27 (71°F both days). Meanwhile in **North Dakota**, **Minot** posted six record highs in a row from December 24-29 (47, 48, 44, 50, 51, and 52°F). More than 50 record highs were established on Wednesday, including 80°F in **Austin (Bergstrom), TX**, 75°F in **Larned, KS**, 64°F in **Lincoln, NE**, and 62°F in **Yankton, SD**. Another surge of record warmth arrived on New Year's Day, when highs peaked at 76°F in **Midland, TX** and 75°F in **Ashland, KS**.

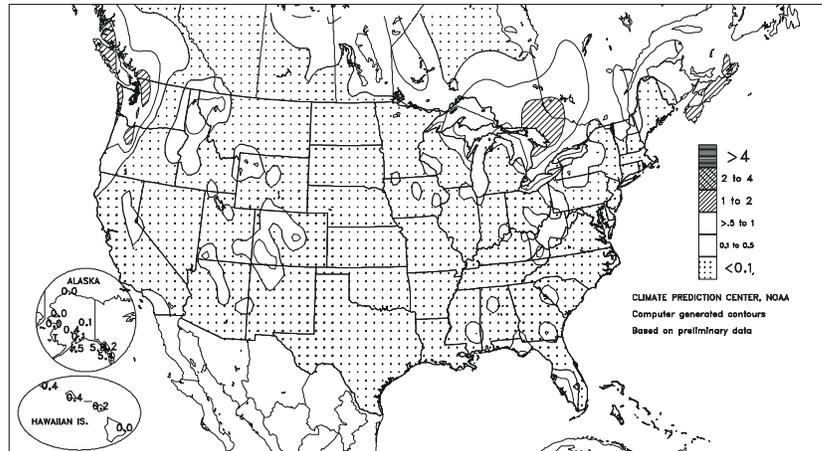
In contrast, cold weather and snow showers lingered in the **Great Lakes region**. On Tuesday, a daily-record snowfall (5.4 inches) blanketed **Grand Rapids, MI**, helping to lift their monthly total to 18.4 inches. December snowfall reached 29.7 inches in **Erie, PA**. However, as late-week temperatures rose above normal, snow quickly melted across the **Ohio Valley** and much of the **Great Lakes region**.

At week's end, light precipitation in parts of the **Southwest** ended record-setting dry spells. In **Arizona**, **Flagstaff** netted 0.21 inch (6.3 inches of snow) on Saturday, halting their streak without measurable precipitation at 99 days (September 24 - December 31). Their previous record, 93 days, had been set in April-July 1974. **Phoenix, AZ** received no rain (2.31 inches below normal) during the last 3 months of 1999, breaking their record of a trace, set in October-December 1917. On New Year's Day, however, **Phoenix** received 0.01 inch of rain, ending their record-breaking rainless streak at 100 days (September 23 - December 31). In **southern California**, enough rain (0.29 inch) dampened **San Diego** on December 31 to boost the seasonal total (0.38 inch through December) slightly above their July-December record of 0.24 inch, set in 1962. Downtown **Los Angeles, CA** also netted their first measurable rainfall of the month (0.40 inch) on December 31. Meanwhile, locally heavy snow developed in the **Rocky Mountain region**. In **southwestern Colorado**, 24-hour snowfall on January 1-2 reached 28 inches at **Wolf Creek Pass**.

Bitterly cold weather persisted across **western Alaska** and returned to the eastern interior. **Cold Bay** registered their coldest December on record with an average temperature of 21.2°F, 9.8°F below normal. Their previous standard, 25.8°F, had been set in 1959. **McGrath** noted consecutive daily-record lows (-53 and -59°F) on December 30-31. Meanwhile in **Fairbanks**, the temperature plunged to -53°F on December 31, just 9 days after a high of 45°F. New Year's Eve featured **Fairbanks'** lowest daily average temperature (-49°F) since January 1975. In sharp

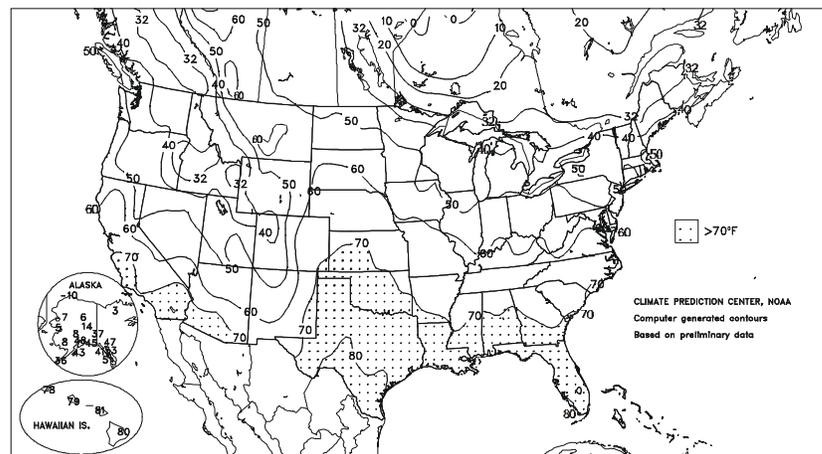
Total Precipitation (Inches)

DEC 26, 1999 - JAN 1, 2000



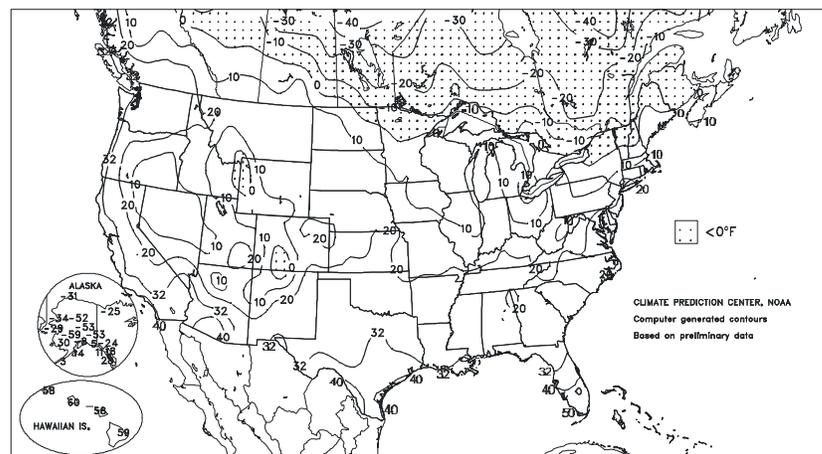
Extreme Maximum Temperature (°F)

DEC 26, 1999 - JAN 1, 2000



Extreme Minimum Temperature (°F)

DEC 26, 1999 - JAN 1, 2000



contrast, **Juneau** tallied their sixth and seventh consecutive daily-record highs (53 and 48°F) on December 26-27. Juneau also received 7.52 inches of rain from December 20-28, including a December calendar-day record of 2.67 inches on the 27th, lifting their monthly total to 10.30 inches (232 percent of normal). Meanwhile in **Hawaii**, very cool conditions (as much as 3°F below normal) prevailed. On the **Big Island, Hilo** posted daily-record lows on Sunday (60°F), Wednesday (59°F), and Thursday (59°F).

National Weather Data for Selected Cities

Weather Data for the Week Ending January 1, 2000

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

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	PRECIP		
																		0.1 INCH OR MORE	50 INCH OR MORE	
AL	BIRMINGHAM	57	34	64	23	46	3	0.00	-1.19	0.00	3.52	67	0.00	0	88	39	0	5	0	0
	HUNTSVILLE	56	31	68	20	44	4	0.00	-1.31	0.00	3.46	57	0.00	0	90	48	0	5	0	0
	MOBILE	66	38	75	26	52	1	0.01	-1.18	0.01	4.33	79	0.00	0	98	43	0	3	1	0
	MONTGOMERY	62	34	76	22	48	1	0.00	-1.15	0.00	4.43	83	0.00	0	93	48	0	5	0	0
AK	ANCHORAGE	22	7	48	-8	14	-1	0.10	-0.14	0.06	1.43	124	0.00	0	89	60	0	6	3	0
	BARROW	-16	-24	-10	-31	-20	-7	0.00	-0.03	0.00	0.15	94	0.00	0	82	72	0	7	0	0
	FAIRBANKS	-16	-30	14	-53	-23	-14	0.10	-0.06	0.06	0.37	43	0.00	0	***	***	0	7	3	0
	JUNEAU	40	33	53	18	37	12	4.17	3.15	2.44	8.83	192	0.00	0	98	76	0	3	6	2
	KODIAK	32	23	43	14	27	-3	1.55	-0.10	1.37	7.13	101	0.00	0	82	60	0	5	3	1
	NOME	-12	-25	5	-29	-18	-24	0.00	-0.19	0.00	0.04	5	0.00	0	92	64	0	7	0	0
AZ	FLAGSTAFF	44	15	55	8	30	2	0.12	-0.41	0.12	0.12	5	0.12	171	81	36	0	7	1	0
	PHOENIX	68	48	73	43	58	5	0.00	-0.22	0.00	0.00	0	0.00	0	55	24	0	0	0	0
	TUCSON	67	45	71	41	56	5	0.00	-0.24	0.00	0.00	0	0.00	0	58	24	0	0	0	0
	YUMA	***	***	***	***	***	***	0.00	-0.14	0.00	0.00	0	0.00	0	***	***	0	0	0	0
AR	FORT SMITH	63	31	71	24	47	9	0.00	-0.56	0.00	5.07	164	0.00	0	88	34	0	4	0	0
	LITTLE ROCK	62	33	66	27	48	8	0.00	-0.96	0.00	5.25	106	0.00	0	87	43	0	3	0	0
CA	BAKERSFIELD	63	37	71	34	50	4	0.00	-0.15	0.00	0.16	25	0.00	0	69	27	0	0	0	0
	EUREKA	46	41	51	34	43	-5	0.20	-1.13	0.20	3.01	48	0.20	100	93	84	0	1	1	0
	FRESNO	61	35	68	32	48	4	0.00	-0.36	0.00	0.03	2	0.00	0	90	41	0	1	0	0
	LOS ANGELES	67	50	76	46	58	2	0.00	-0.42	0.00	0.00	0	0.00	0	62	28	0	0	0	0
	REDDING	62	29	70	26	46	2	0.04	-1.26	0.04	0.68	12	0.04	20	91	33	0	6	1	0
	SACRAMENTO	58	32	65	30	45	1	0.00	-0.65	0.00	0.06	2	0.00	0	99	50	0	4	0	0
	SAN DIEGO	66	50	72	46	58	1	0.29	-0.08	0.17	0.32	20	0.12	200	68	37	0	0	2	0
	SAN FRANCISCO	57	42	62	40	50	2	0.00	-0.81	0.00	0.48	15	0.00	0	95	65	0	0	0	0
CO	ALAMOSA	46	4	49	-3	25	10	0.00	-0.08	0.00	0.01	2	0.00	0	79	23	0	7	0	0
	CO SPRINGS	54	25	64	20	40	12	0.01	-0.08	0.01	0.13	28	0.01	100	64	19	0	7	1	0
	DENVER	54	27	63	22	41	12	0.00	-0.13	0.00	0.29	44	0.00	0	67	22	0	7	0	0
	GRAND JUNCTION	44	20	48	16	32	7	0.04	-0.10	0.04	0.33	52	0.04	200	84	36	0	7	1	0
	PUEBLO	60	17	71	9	39	10	0.08	0.00	0.08	0.13	30	0.08	800	73	19	0	7	1	0
CT	BRIDGEPORT	39	27	48	18	33	2	0.00	-0.76	0.00	2.42	67	0.00	0	70	44	0	6	0	0
	HARTFORD	40	23	63	10	31	5	0.00	-0.84	0.00	2.52	63	0.00	0	74	31	0	7	0	0
DC	WASHINGTON	47	32	57	24	40	4	0.00	-0.68	0.00	2.51	78	0.00	0	74	42	0	4	0	0
DE	WILMINGTON	41	27	49	22	34	2	0.00	-0.76	0.00	2.33	65	0.00	0	77	50	0	6	0	0
FL	DAYTONA BEACH	67	42	76	36	54	-4	0.00	-0.59	0.00	1.56	58	0.00	0	91	36	0	0	0	0
	JACKSONVILLE	65	36	76	25	51	-2	0.00	-0.67	0.00	0.93	33	0.00	0	95	39	0	2	0	0
	KEY WEST	73	61	79	58	67	-3	0.20	-0.24	0.20	0.70	34	0.00	0	89	62	0	0	1	0
	MIAMI	73	55	81	45	64	-4	0.06	-0.36	0.05	2.74	145	0.00	0	93	56	0	0	2	0
	ORLANDO	68	43	77	38	56	-4	0.00	-0.49	0.00	2.65	119	0.00	0	95	39	0	0	0	0
	PENSACOLA	63	40	71	29	52	0	0.03	-0.99	0.02	3.99	90	0.02	14	92	49	0	1	2	0
	TALLAHASSEE	64	35	73	22	49	-2	0.07	-1.08	0.05	2.63	51	0.05	33	95	43	0	5	2	0
	TAMPA	68	50	77	35	59	-2	0.03	-0.44	0.03	1.01	46	0.00	0	93	51	0	0	1	0
	WEST PALM	71	49	78	43	60	-6	0.17	-0.35	0.16	1.44	56	0.00	0	95	53	0	0	2	0
GA	ATHENS	58	34	66	27	46	3	0.01	-0.97	0.01	2.75	65	0.01	7	76	44	0	3	1	0
	ATLANTA	58	36	66	26	47	5	0.00	-1.02	0.00	2.78	62	0.00	0	76	43	0	4	0	0
	AUGUSTA	60	28	69	18	44	-1	0.00	-0.85	0.00	1.20	34	0.00	0	91	39	0	5	0	0
	COLUMBUS	60	35	72	26	47	1	0.00	-1.13	0.00	2.06	40	0.00	0	88	41	0	5	0	0
	MACON	61	32	71	21	47	0	0.00	-1.04	0.00	1.91	43	0.00	0	88	40	0	5	0	0
	SAVANNAH	62	33	72	21	48	-2	0.01	-0.74	0.01	1.95	64	0.01	9	88	38	0	4	1	0
HI	HILO	77	61	80	59	69	-3	0.00	-2.43	0.00	14.80	120	0.00	0	90	65	0	0	0	0
	HONOLULU	77	63	79	60	70	-3	0.36	-0.52	0.35	2.76	70	0.00	0	92	64	0	0	2	0
	KAHULUI	78	62	81	58	70	-2	0.23	-0.61	0.09	1.52	45	0.00	0	88	57	0	0	3	0
	LIHUE	76	63	78	58	69	-3	0.38	-0.86	0.28	4.11	77	0.01	5	87	59	0	0	5	0
ID	BOISE	25	22	27	20	23	-5	0.11	-0.20	0.05	1.02	72	0.05	100	98	89	0	7	4	0
	LEWISTON	33	28	38	26	31	-2	0.01	-0.27	0.01	1.20	97	0.00	0	93	79	0	7	1	0
	POCATELLO	33	11	37	5	22	-1	0.08	-0.17	0.08	0.34	30	0.08	200	92	59	0	7	1	0
IL	CHICAGO/O'HARE	38	23	48	11	30	7	0.00	-0.47	0.00	2.56	101	0.00	0	90	55	0	6	0	0
	MOLINE	42	19	53	7	31	10	0.03	-0.42	0.03	2.11	92	0.00	0	93	57	0	7	1	0
	PEORIA	42	21	53	9	32	9	0.02	-0.46	0.02	2.55	102	0.00	0	91	55	0	6	1	0
	ROCKFORD	36	19	46	3	28	8	0.02	-0.37	0.01	1.51	72	0.01	20	94	63	0	7	2	0
	SPRINGFIELD	44	22	55	11	33	7	0.00	-0.53	0.00	2.26	81	0.00	0	88	55	0	7	0	0
IN	EVANSVILLE	48	26	60	13	37	5	0.00	-0.74	0.00	5.15	137	0.00	0	84	48	0	6	0	0
	FORT WAYNE	38	22	54	13	30	5	0.00	-0.58	0.00	1.95	66	0.00	0	91	59	0	7	0	0
	INDIANAPOLIS	43	23	59	14	33	6	0.03	-0.64	0.03	2.61	76	0.00	0	96	60	0	7	1	0
	SOUTH BEND	39	25	50	13	32	7	0.06	-0.61	0.06	2.69	79	0.00	0	89	57	0	6	1	0
IA	BURLINGTON	44	22	57	11	33	10	0.00	-0.39	0.00	2.50	123	0.00	0	87	53	0	7	0	0
	CEDAR RAPIDS	40	19	53	4	29	10	0.03	-0.27	0.03	0.57	35	0.00	0	93	61	0	7	1	0
	DES MOINES	45	23	58	11	34	13	0.01	-0.25	0.01	0.39	29	0.00	0	87	53	0	7	1	0
	DUBUQUE	38	20	47	6	29	12	0.08	-0.29	0.08	0.64	32	0.00	0	92	58	0	7	1	0
	SIoux CITY	48	23	61	17	35	17	0.00	-0.15	0.00	0.20	25	0.00	0	86	44	0	7	0	0
	WATERLOO	40	19	50	8	29	13	0.02	-0.22	0.02	0.37	28	0.00	0	88	61	0	7	1	0
KS	CONCORDIA	56	28	66	23	42	15	0.00	-0.17	0.00	0.45	52	0.00	0	75	34	0	6	0	0
	DODGE CITY	62	28	73	23	45	15	0.00	-0.13	0.00	0.26	39	0.00	0	69	25	0	6	0	0
	GOODLAND	56	24	67	20	40	12	0.08	0.00	0.08	0.39	93	0.08	800	74	26	0	6	1	0
	TOPEKA	56	25	70	21	41	13	0.00	-0.27	0.00	1.78	121	0.00	0	90	36	0	7	0	0

Based on 1961-90 normals

*** Not Available

Weather Data for the Week Ending January 1, 2000

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	TEMP. °F		PRECIP	
																90 AND ABOVE	32 AND BELOW	0.1 INCH OR MORE	5.0 INCH OR MORE
KY WICHITA	57	28	67	23	42	12	0.00	-0.23	0.00	4.08	332	0.00	0	88	37	0	5	0	0
KY JACKSON	44	32	57	22	38	3	0.09	-0.85	0.06	2.63	58	0.06	46	81	46	0	4	3	0
KY LEXINGTON	43	27	58	17	35	2	0.01	-0.82	0.01	2.71	66	0.00	0	84	51	0	5	1	0
KY LOUISVILLE	46	29	61	22	38	4	0.04	-0.71	0.04	4.72	126	0.00	0	95	60	0	5	1	0
LA PADUCAH	52	28	63	18	40	6	0.00	-0.95	0.00	4.06	85	0.00	0	86	42	0	6	0	0
LA BATON ROUGE	67	40	77	28	54	3	0.00	-1.24	0.00	5.28	93	0.00	0	93	41	0	1	0	0
LA LAKE CHARLES	69	39	74	30	54	3	0.00	-1.14	0.00	4.53	87	0.00	0	99	42	0	2	0	0
LA NEW ORLEANS	66	43	76	32	55	3	0.00	-1.27	0.00	3.85	65	0.00	0	94	46	0	1	0	0
LA SHREVEPORT	68	36	75	31	52	6	0.00	-0.89	0.00	3.87	91	0.00	0	95	37	0	3	0	0
ME CARIBOU	18	0	29	-6	9	-2	0.09	-0.57	0.08	2.78	84	0.00	0	88	59	0	7	2	0
ME PORTLAND	33	13	47	3	23	0	0.00	-0.92	0.00	2.02	43	0.00	0	74	37	0	7	0	0
MD BALTIMORE	44	26	55	20	35	1	0.00	-0.74	0.00	3.02	86	0.00	0	80	45	0	6	0	0
MA BOSTON	38	24	50	18	31	1	0.00	-0.86	0.00	1.54	37	0.00	0	62	33	0	7	0	0
MA WORCESTER	33	19	46	9	26	2	0.00	-0.88	0.00	2.56	61	0.00	0	83	46	0	7	0	0
MI ALPENA	32	9	41	0	21	1	0.05	-0.38	0.01	1.76	84	0.00	0	88	58	0	7	3	0
MI GRAND RAPIDS	36	20	44	12	28	4	0.00	-0.55	0.00	2.52	86	0.00	0	85	62	0	7	0	0
MI HOUGHTON LAKE	32	13	40	5	23	4	0.02	-0.38	0.01	1.69	84	0.00	0	90	67	0	7	2	0
MI LANSING	36	15	48	7	26	3	0.00	-0.45	0.00	1.93	81	0.00	0	93	67	0	7	0	0
MI MUSKEGON	39	25	46	20	32	7	0.02	-0.62	0.02	2.39	77	0.00	0	86	60	0	6	1	0
MI TRAVERSE CITY	33	20	44	17	27	5	0.22	-0.25	0.12	1.80	81	0.00	0	87	61	0	7	5	0
MN DULUTH	27	11	46	-2	19	11	0.01	-0.27	0.01	0.01	1	0.00	0	90	57	0	7	1	0
MN INT'L FALLS	23	2	36	-9	13	11	0.04	-0.15	0.04	0.13	15	0.00	0	88	66	0	7	1	0
MN MINNEAPOLIS	37	22	53	10	30	16	0.19	-0.03	0.18	0.37	33	0.00	0	85	55	0	7	2	0
MN ROCHESTER	35	19	46	5	27	14	0.03	-0.16	0.03	0.11	10	0.03	100	89	66	0	7	1	0
MN ST. CLOUD	35	18	52	4	27	17	0.07	-0.10	0.07	0.10	12	0.00	0	89	53	0	7	1	0
MS JACKSON	63	35	71	25	49	4	0.00	-1.33	0.00	2.77	45	0.00	0	96	45	0	3	0	0
MS MERIDIAN	63	32	73	22	48	2	0.16	-1.19	0.16	3.64	58	0.00	0	95	41	0	5	1	0
MS TUPELO	60	32	69	25	46	5	0.01	-1.33	0.01	3.67	58	0.01	6	87	42	0	5	1	0
MO COLUMBIA	52	25	62	16	38	9	0.00	-0.46	0.00	3.41	135	0.00	0	81	40	0	7	0	0
MO KANSAS CITY	54	27	67	17	41	14	0.00	-0.32	0.00	2.20	136	0.00	0	82	40	0	5	0	0
MO SAINT LOUIS	51	25	61	19	38	7	0.00	-0.57	0.00	1.88	61	0.00	0	86	47	0	7	0	0
MO SPRINGFIELD	55	27	65	18	41	9	0.03	-0.56	0.03	7.00	217	0.00	0	83	38	0	5	1	0
MT BILLINGS	51	29	61	22	40	17	0.00	-0.20	0.00	0.21	26	0.00	0	66	28	0	5	0	0
MT BUTTE	28	3	39	-7	16	0	0.00	-0.11	0.00	0.61	133	0.00	0	91	59	0	7	0	0
MT GLASGOW	43	24	55	18	33	21	0.01	-0.07	0.01	0.23	59	0.01	100	84	49	0	7	1	0
MT GREAT FALLS	49	29	58	18	39	18	0.00	-0.21	0.00	0.05	6	0.00	0	68	27	0	5	0	0
MT KALISPELL	28	24	35	23	27	6	0.28	-0.11	0.25	1.38	77	0.25	417	95	84	0	7	2	0
MT MILES CITY	47	26	58	19	36	20	0.02	-0.12	0.02	0.24	36	0.02	100	83	44	0	6	1	0
MT MISSOULA	27	21	36	20	24	2	0.04	-0.24	0.04	0.52	43	0.00	0	95	83	0	7	1	0
NE GRAND ISLAND	52	24	68	18	38	16	0.00	-0.13	0.00	0.06	8	0.00	0	83	35	0	7	0	0
NE LINCOLN	52	23	64	17	38	16	0.00	-0.16	0.00	0.55	61	0.00	0	83	37	0	7	0	0
NE NORFOLK	50	25	62	18	38	18	0.00	-0.14	0.00	0.11	14	0.00	0	77	37	0	7	0	0
NE NORTH PLATTE	55	17	66	11	36	14	0.00	-0.08	0.00	0.04	8	0.00	0	89	27	0	7	0	0
NE OMAHA	48	24	61	20	36	14	0.00	-0.19	0.00	0.59	56	0.00	0	91	53	0	7	0	0
NE SCOTTSBLUFF	53	22	63	16	38	14	0.00	-0.11	0.00	0.15	26	0.00	0	71	24	0	7	0	0
NE VALENTINE	52	22	63	16	37	17	0.00	-0.07	0.00	0.12	32	0.00	0	84	32	0	7	0	0
NV ELY	49	10	54	8	30	6	0.00	-0.17	0.00	0.06	8	0.00	0	73	21	0	7	0	0
NV LAS VEGAS	60	37	64	35	49	5	0.00	-0.09	0.00	0.00	0	0.00	0	48	25	0	0	0	0
NV RENO	50	17	52	14	33	1	0.00	-0.22	0.00	0.13	13	0.00	0	79	27	0	7	0	0
NV WINNEMUCCA	47	4	50	1	25	-3	0.00	-0.19	0.00	0.08	9	0.00	0	87	34	0	7	0	0
NH CONCORD	33	11	46	-2	22	2	0.00	-0.64	0.00	1.35	42	0.00	0	78	34	0	7	0	0
NJ NEWARK	40	27	51	20	34	2	0.05	-0.70	0.05	3.02	85	0.00	0	83	55	0	6	1	0
NM ALBUQUERQUE	51	27	53	22	39	6	0.16	0.05	0.16	0.19	37	0.16	800	77	31	0	7	1	0
NY ALBANY	34	18	47	4	26	4	0.00	-0.61	0.00	1.40	47	0.00	0	72	42	0	7	0	0
NY BINGHAMTON	30	16	45	4	23	0	0.05	-0.57	0.02	1.65	53	0.00	0	91	62	0	7	4	0
NY BUFFALO	35	19	50	7	27	1	0.17	-0.58	0.13	2.16	57	0.00	0	86	56	0	7	2	0
NY ROCHESTER	36	18	53	1	27	1	0.52	-0.04	0.33	2.10	75	0.00	0	86	57	0	7	3	0
NY SYRACUSE	34	17	50	2	26	1	0.33	-0.31	0.10	1.61	49	0.00	0	86	57	0	7	3	0
NC ASHEVILLE	55	26	64	19	40	3	0.00	-0.77	0.00	2.08	57	0.00	0	81	33	0	7	0	0
NC CHARLOTTE	55	28	65	21	42	2	0.00	-0.81	0.00	1.85	51	0.00	0	84	36	0	5	0	0
NC GREENSBORO	53	29	65	22	41	3	0.00	-0.77	0.00	2.07	60	0.00	0	76	38	0	5	0	0
NC HATTERAS	53	39	63	30	46	0	0.00	-1.08	0.00	4.01	85	0.00	0	85	61	0	2	0	0
NC RALEIGH	55	28	67	19	42	2	0.00	-0.76	0.00	2.30	69	0.00	0	86	34	0	5	0	0
NC WILMINGTON	59	32	72	22	46	0	0.00	-0.85	0.00	1.52	41	0.00	0	85	36	0	4	0	0
ND BISMARCK	45	22	55	10	33	23	0.02	-0.09	0.02	0.25	47	0.02	100	81	51	0	6	1	0
ND DICKINSON	44	27	52	18	36	22	0.01	-0.07	0.01	0.12	30	0.01	100	81	51	0	6	1	0
ND FARGO	39	17	52	3	28	21	0.00	-0.17	0.00	0.10	15	0.00	0	84	52	0	7	0	0
ND GRAND FORKS	32	13	49	0	23	17	0.02	-0.15	0.00	0.09	14	0.00	0	89	61	0	7	1	0
ND JAMESTOWN	40	17	52	7	29	20	0.01	-0.11	0.01	0.05	10	0.01	50	84	58	0	6	1	0
ND WILLISTON	43	24	51	16	34	24	0.05	-0.09	0.05	0.30	50	0.05	250	82	52	0	6	1	0
OH AKRON-CANTON	35	20	53	7	28	1	0.14	-0.46	0.09	1.98	65	0.00	0	94	69	0	7	3	0
OH CINCINNATI	42	22	59	9	32	2	0.09	-0.56	0.06	3.62	112	0.00	0	92	60	0	6	2	0
OH CLEVELAND	36	22	55	9	29	2	0.32	-0.29	0.18	2.76	87	0.00	0	91	60	0	7	3	0
OH COLUMBUS	38	23	54	13	30	2	0.23	-0.34	0.22	2.71	92	0.00	0	89	61	0	7	2	0
OH DAYTON	39	22	56	12	31	3	0.00	-0.59	0.00	2.51	83	0.00	0	89	59	0	7	0	0
OH MANSFIELD	35	19	54	5	27	1	0.01	-0.58	0.01	2.38	76	0.00	0	90	65	0	6	1	0

Based on 1961-90 normals

*** Not Available

Weather Data for the Week Ending January 1, 2000

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	TEMP. °F		PRECIP		
																90 AND ABOVE	32 AND BELOW	0.1 INCH OR MORE	5.0 INCH OR MORE	
OK TOLEDO	36	18	52	8	27	3	0.01	-0.56	0.01	1.72	57	0.00	0	91	59	0	7	1	0	
OK YOUNGSTOWN	34	21	53	7	27	1	0.41	-0.18	0.20	2.50	83	0.00	0	91	61	0	7	4	0	
OK OKLAHOMA CITY	63	32	72	26	48	11	0.00	-0.28	0.00	3.71	258	0.00	0	83	33	0	3	0	0	
OK TULSA	62	32	70	25	47	11	0.00	-0.40	0.00	5.09	229	0.00	0	82	33	0	4	0	0	
OR ASTORIA	***	***	***	***	***	***	0.77	-1.26	0.44	13.34	122	0.44	129	92	79	***	***	3	0	
OR BURNS	34	8	39	4	21	-2	0.00	-0.25	0.00	0.70	59	0.00	0	94	60	0	7	0	0	
OR EUGENE	41	27	47	22	34	-6	0.39	-1.52	0.37	4.08	46	0.37	132	99	78	0	5	2	0	
OR MEDFORD	44	24	53	20	34	-3	0.21	-0.49	0.21	1.13	33	0.21	210	10	68	0	7	1	0	
OR PENDLETON	33	29	43	26	31	-2	0.03	-0.33	0.02	1.10	65	0.01	20	95	81	0	6	2	0	
OR PORTLAND	45	33	50	26	39	0	0.50	-0.86	0.39	4.03	64	0.39	205	91	64	0	3	2	0	
OR SALEM	45	29	51	23	37	-2	0.36	-1.13	0.34	5.72	82	0.34	162	98	66	0	6	2	0	
PA ALLENTOWN	37	21	44	13	29	1	0.01	-0.73	0.01	2.33	65	0.00	0	81	53	0	7	1	0	
PA ERIE	35	24	51	16	30	2	0.04	-0.65	0.02	2.56	70	0.00	0	89	60	0	7	3	0	
PA MIDDLETOWN	40	24	50	20	32	2	0.01	-0.68	0.01	2.61	78	0.00	0	75	47	0	7	1	0	
PA PHILADELPHIA	41	29	52	22	35	3	0.00	-0.75	0.00	2.98	85	0.00	0	76	50	0	6	0	0	
PA PITTSBURGH	37	23	55	13	30	2	0.03	-0.60	0.01	2.26	75	0.01	11	88	53	0	6	3	0	
PA WILKES-BARRE	35	20	50	6	28	1	0.00	-0.51	0.00	1.28	50	0.00	0	88	48	0	7	0	0	
PA WILLIAMSPORT	36	20	44	8	28	1	0.02	-0.59	0.02	2.38	76	0.00	0	85	53	0	7	1	0	
RI PROVIDENCE	39	23	49	15	31	2	0.00	-0.95	0.00	2.39	53	0.00	0	67	38	0	6	0	0	
SC BEAUFORT	58	36	69	24	47	-3	0.00	-0.80	0.00	2.47	75	0.00	0	89	43	0	2	0	0	
SC CHARLESTON	60	34	71	22	47	-2	0.00	-0.77	0.00	2.59	79	0.00	0	92	46	0	4	0	0	
SC COLUMBIA	59	30	67	21	45	0	0.00	-0.91	0.00	1.52	41	0.00	0	91	43	0	5	0	0	
SC GREENVILLE	56	32	67	25	44	3	0.00	-0.96	0.00	2.75	64	0.00	0	76	41	0	5	0	0	
SD ABERDEEN	44	18	59	11	31	20	0.00	-0.08	0.00	0.15	36	0.00	0	82	40	0	7	0	0	
SD HURON	48	21	59	13	35	21	0.00	-0.08	0.00	0.04	8	0.00	0	83	38	0	6	0	0	
SD RAPID CITY	53	25	63	16	39	17	0.00	-0.11	0.00	0.17	35	0.00	0	71	27	0	6	0	0	
SD SIOUX FALLS	44	20	56	14	32	17	0.00	-0.14	0.00	0.07	10	0.00	0	84	42	0	7	0	0	
TN BRISTOL	47	24	65	14	35	0	0.00	-0.77	0.00	1.45	41	0.00	0	83	43	0	6	0	0	
TN CHATTANOOGA	55	30	68	20	43	5	0.01	-1.15	0.01	1.88	35	0.01	6	87	46	0	5	1	0	
TN KNOXVILLE	52	30	66	21	41	4	0.00	-1.02	0.00	1.77	38	0.00	0	86	48	0	5	0	0	
TN MEMPHIS	59	34	66	25	47	6	0.00	-1.15	0.00	4.75	81	0.00	0	82	43	0	4	0	0	
TX NASHVILLE	54	33	63	25	44	6	0.00	-0.97	0.00	2.52	53	0.00	0	87	60	0	3	0	0	
TX ABILENE	69	35	80	26	52	9	0.00	-0.22	0.00	0.37	35	0.00	0	63	24	0	3	0	0	
TX AMARILLO	62	29	69	24	45	10	0.00	-0.09	0.00	0.55	122	0.00	0	75	24	0	6	0	0	
TX AUSTIN	73	40	80	32	57	8	0.00	-0.39	0.00	1.35	70	0.00	0	77	29	0	1	0	0	
TX BEAUMONT	70	40	75	32	55	3	0.00	-1.11	0.00	4.14	83	0.00	0	91	37	0	1	0	0	
TX BROWNSVILLE	75	50	82	38	63	3	0.01	-0.30	0.01	0.36	28	0.00	0	99	48	0	0	1	0	
TX CORPUS CHRISTI	75	46	81	37	61	5	0.00	-0.31	0.00	0.26	20	0.00	0	87	38	0	0	0	0	
TX DEL RIO	72	44	78	35	58	8	0.00	-0.13	0.00	0.01	2	0.00	0	69	25	0	0	0	0	
TX EL PASO	58	39	66	33	49	7	0.00	-0.13	0.00	0.64	108	0.00	0	86	45	0	0	0	0	
TX FORT WORTH	70	41	76	35	56	12	0.00	-0.41	0.00	2.59	136	0.00	0	72	32	0	0	0	0	
TX GALVESTON	68	50	72	43	59	5	0.01	-0.78	0.01	5.70	158	0.01	9	95	53	0	0	1	0	
TX HOUSTON	71	40	78	33	56	5	0.00	-0.77	0.00	2.25	63	0.00	0	91	36	0	0	0	0	
TX LUBBOCK	64	29	72	23	47	8	0.00	-0.11	0.00	0.41	76	0.00	0	74	25	0	5	0	0	
TX MIDLAND	66	33	76	26	50	7	0.00	-0.11	0.00	0.00	0	0.00	0	65	23	0	3	0	0	
TX SAN ANGELO	70	36	81	28	53	9	0.00	-0.17	0.00	0.09	11	0.00	0	60	22	0	2	0	0	
TX SAN ANTONIO	73	41	78	36	57	7	0.00	-0.31	0.00	0.52	33	0.00	0	73	25	0	0	0	0	
TX VICTORIA	75	44	81	35	59	5	0.00	-0.47	0.00	1.07	51	0.00	0	85	31	0	0	0	0	
TX WACO	69	40	74	33	55	9	0.00	-0.38	0.00	2.72	142	0.00	0	82	33	0	0	0	0	
TX WICHITA FALLS	67	34	77	25	51	11	0.00	-0.27	0.00	0.76	57	0.00	0	76	29	0	2	0	0	
UT SALT LAKE CITY	37	21	43	20	29	2	0.03	-0.27	0.02	1.66	115	0.02	50	96	68	0	7	2	0	
VT BURLINGTON	28	11	41	2	20	1	0.02	-0.46	0.02	1.15	46	0.00	0	73	44	0	7	1	0	
VA LYNCHBURG	50	24	63	17	37	1	0.04	-0.67	0.03	2.39	72	0.00	0	87	39	0	7	2	0	
VA NORFOLK	52	32	67	21	42	1	0.00	-0.79	0.00	1.75	52	0.00	0	83	40	0	3	0	0	
VA RICHMOND	52	27	66	20	40	3	0.00	-0.74	0.00	2.29	68	0.00	0	78	38	0	5	0	0	
VA ROANOKE	50	30	62	25	40	4	0.00	-0.63	0.00	2.49	81	0.00	0	68	39	0	5	0	0	
VA WASH/DULLES	46	24	56	17	35	3	0.00	-0.69	0.00	2.72	82	0.00	0	82	42	0	7	0	0	
WA OLYMPIA	42	32	48	25	37	0	0.64	-1.19	0.36	10.53	126	0.36	133	10	82	0	3	6	0	
WA QUILLAYUTE	48	34	55	25	41	1	1.12	-2.31	0.48	22.27	140	0.46	94	99	79	0	3	5	0	
WA SEATTLE-TACOMA	42	34	45	30	38	-2	0.64	-0.66	0.28	5.77	95	0.28	147	99	83	0	3	3	0	
WA SPOKANE	28	23	34	18	26	0	0.48	-0.04	0.29	2.58	104	0.01	14	96	85	0	7	4	0	
WA YAKIMA	33	29	40	26	31	3	0.00	-0.33	0.00	0.29	20	0.00	0	92	80	0	7	0	0	
WV BECKLEY	39	24	55	18	32	1	0.06	-0.65	0.05	1.83	55	0.01	10	83	56	0	7	2	0	
WV CHARLESTON	44	26	60	17	35	1	0.09	-0.62	0.08	2.57	74	0.00	0	90	53	0	6	2	0	
WV ELKINS	38	19	50	4	29	0	0.10	-0.66	0.06	3.30	92	0.00	0	86	50	0	6	3	0	
WV HUNTINGTON	44	27	60	21	35	1	0.06	-0.66	0.04	2.57	74	0.00	0	82	52	0	6	2	0	
WI EAU CLAIRE	35	19	47	8	27	15	0.07	-0.15	0.04	0.39	34	0.04	100	87	56	0	7	2	0	
WI GREEN BAY	34	18	43	9	26	10	0.09	-0.21	0.05	0.88	56	0.00	0	84	57	0	7	3	0	
WI LA CROSSE	39	22	53	11	31	15	0.08	-0.17	0.08	0.50	38	0.00	0	87	52	0	7	1	0	
WI MADISON	37	22	46	10	29	11	0.04	-0.31	0.02	0.86	46	0.01	25	85	54	0	7	3	0	
WI MILWAUKEE	37	23	46	12	30	9	0.00	-0.47	0.00	1.24	52	0.00	0	85	51	0	7	0	0	
WY CASPER	44	26	48	14	35	13	0.00	-0.14	0.00	0.13	19	0.00	0	60	33	0	5	0	0	
WY CHEYENNE	51	28	60	21	39	13	0.00	-0.09	0.00	0.23	52	0.00	0	49	19	0	5	0	0	
WY LANDER	44	20	49	16	32	13	0.00	-0.11	0.00	0.19	32	0.00	0	71	31	0	7	0	0	
WY SHERIDAN	49	23	59	19	36	15	0.00	-0.17	0.00	0.93	129	0.00	0	77	35	0	7	0	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.

National Agricultural Summary

December 27, 1999 - January 2, 2000

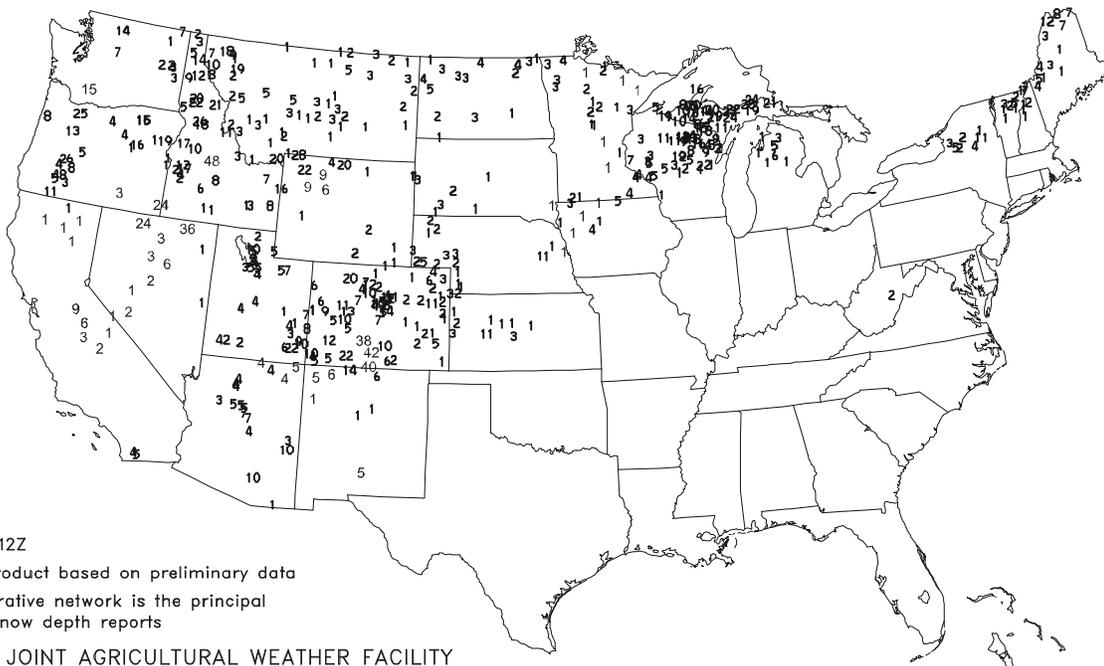
HIGHLIGHTS

During the week, well-above-normal temperatures and mostly dry weather continued across the country. The wheat crop lacked snow cover across much of the Corn Belt and Great Plains, but with the mild conditions during December, very little freeze damage has occurred thus far. Spotty stands of wheat are due to a lack of moisture. With the warm, dry weather, there are concerns about insect activity. Reports of greenbug activity in the Kansas wheat crop were common. Sugarbeets stored outside

are in need of colder weather to prevent damage in North Dakota. Rain was needed badly in California where some wheat fields required irrigation to germinate and emerge. Field activities made good progress in California, including seeding of wheat, barley, and oats. Florida producers were running their irrigation systems to maintain good tree conditions. Cool weather early in the week caused no significant damage to the vegetable crop in Florida, where vegetable harvest continued.

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

Snow Depth (Inches)
Jan 03, 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 Jan. 3

State Agricultural Summaries

These summaries, issued weekly through the summer growing season, 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. The crop weather reports are also available on the Internet through the NASS Home Page on the World Wide Web at <http://www.usda.gov/nass/> or from JAWF at <http://www.usda.gov/oce/waob/jawf>.

ALABAMA: Most of the state remained drier than normal with the bulk of rainfall arriving mid-month. Precipitation was mostly scarce during the later portion of the month. The January 1 chill-hours totaled 467 using a model that tabulates total hours below 45° since October 1. The 43 year average in Area is 613 hours. These hours are recorded at the Chilton County Substation in Clanton, AL.

ARIZONA: This years cotton harvest is virtually complete. Alfalfa harvest activity drops off slightly from last week. As of January 2, alfalfa harvest was reported as 67% not being harvested, 14% light, 10% moderate, 9% active. Alfalfa 7% poor, 24% fair, 64% good, 5% excellent. Sheeping off continued to be reported as moderate to active. Range, Pasture feed were reported as very dry with heavy supplemental feeding necessary. Livestock were reported as being in fair to good condition. The continued lack of rain have reduced both stock water, soil moisture levels. Stock water was reported as short to adequate, while soil moisture conditions were reported as short. Insect damage was reported as light to none. Range, pasture feed were reported as 1% very poor, 11% poor, 30% fair, 49% good, 9% excellent. Small grains planting only showed slight increases over last week, remains well behind normal. As of January 2, 32% Durum Wheat, 34% Barley, 30% Other Wheat, 27% Other Small Grains were reported as being planted. Last week producers from central Areas shipped a variety of vegetables including: Bok choy, broccoli, dandelion, dill, endive, escarole, flowering kale, kale, kohlrabi, mixed greens, napa, parsley, spinach, swiss chard. Eastern Areas producers shipped hot house tomatoes. Producers in western Areas also shipped a wide variety of vegetables including: Bok choy, broccoli, broccoflower, broccolini, cabbage, cauliflower, celery, cilantro, endive, escarole, frisee, kale, mixed greens, napa, parsley, radicchio, salad savoy, spinach, swiss chard. Western lettuce, salad/salad mix shipments included: Boston, iceberg, leaf, romaine, specialty leaf. Central Areas citrus producers harvested lemons, navels, grapefruit, fairchild tangerines. Western citrus producers harvested grapefruit, lemons last week.

ARKANSAS: December was the warmest December since 1991, the wettest since 1990. The week ending December 6 had a low of 30°, this was the first freeze of the 1999-2000 season. It was the first freeze in Areas in 274 days. During the week ending December 12, the yearly rainfall passed 35.91 inches which assured that 1999 would not finish among the ten driest years on record despite a prolonged dry period from May through November.

The main farming activities: Pruning fruit trees, preparing land for next season, cleaning, maintenance on equipment. Livestock was reported in fair condition.

CALIFORNIA: December was dry. Rain was badly needed in most areas. Seeding of irrigated wheat, barley, new alfalfa, forage crops was ongoing throughout the month. Many wheat fields required irrigation in order to germinate, emerge. Some dryland small grain growers postponed planting for lack of rain, some coastal valley wheat fields required re-seeding. Cotton growers were plowing down remaining fields. Grain sorghum harvest was completed. San Joaquin Valley sugarbeet growers placed mylar streamers in fields to deter birds. Alfalfa hay, seed alfalfa were fertilized, irrigated, treated for weeds. Some older alfalfa fields were ripped out, readied for spring plantings. Fallow fields were sprayed with herbicides. Seedbeds were prepared for next year's spring planted row crops. Pruning, tree removal, planting of cover crops continued in the harvested stone fruit orchards. Vineyards were being prepared for winter, as growers were pruning vines, tying canes, spraying or cultivating for weed control. Ground was fumigated for new plantings of peach, prune, walnut, almond trees. With the season's lack of rainfall, many growers have found it necessary to irrigate vineyards, orchards. Picking of grapefruit, lemon crops was active in southern Areas. San Joaquin Valley's navel orange picking gained momentum in December. Satsuma tangerines were also picked. Cool nighttime temperatures enhanced citrus color, maturity. Processing tomato,

melon fields were being prepared for planting. Some growers with sandy soils were awaiting more moisture. Sweet potato hotbed preparation, field fumigations continued. As the month progressed, most fields of garlic, onions, carrots were maturing well. Meanwhile, spring lettuce, broccoli fields that had already been planted were growing slowly. Spinach was progressing normally. Red onions were being planted. Some additional vegetables harvested during December included: Taro root, cilantro, peas, carrots, beets, mushrooms, parsley, radishes, kale, mint, squash, turnips, chard, mustard greens. The lack of rain in central, northern areas continued to cause problems for cattle, sheep operations that rely on foothill pastures for winter grazing. Grass was deteriorating in most areas. Limited water in stock ponds was also a major concern this month. Hay, nutrient supplements were being provided to cattle. Because of December's dry weather, sheep were being left on alfalfa pastures longer than normal to minimize supplemental feeding.

COLORADO: Topsoils were drying out in the winter wheat producing areas but fall growth has been good, winds have not been a factor. December weather has been milder than usual with daytime high's sometimes reaching the 60's. Major snow storms have been primarily in the mountain areas with limited moisture reaching into lower elevation areas, across the Eastern Plains. Mountain snowpack is currently below avg. The crop is in good to excellent condition without snow cover in most areas. Major activities are centered around feed, care of livestock, preparation for the upcoming lambing, calving activities.

DELAWARE: Average precipitation for the month of December was 2.8 inches, 0.8 inches below normal. Unusually warm, mild temperatures for December. All winter grain crops have been planted and are doing fine. Farmers are taking soil samples, purchasing hay due to low hay yields. Livestock, poultry conditions appear to be good.

FLORIDA: Mostly dry weather continued. Rain totaled from 0.10 to 0.33 in. with most stations recording no rain for week. Wildfire potential high northern areas, increasing some central, southern localities due to continued dry weather. Temperatures cool at start of week when Homestead recorded low of 39 on Monday, December 27 which produced a frost. Temperatures averaged normal at major stations. Most daytime highs 60s, 70s; most lows 30s, 40s, 50s. Some northern areas recorded lows in 20s at start of week. Moisture throughout State mostly very short to short with scattered areas of adequate moisture. Sugarcane grinding active. Cold temperatures caused no significant damage to vegetables. Wet conditions early in week delayed some vegetable fieldwork, southern Peninsula. Shipping for holiday very active with some work slowing for holiday observance. Vegetables harvested: Tomatoes, peppers, endive, escarole, cabbage, celery, cucumbers, pickles, lettuce, radishes, snap beans, squash, strawberries, sweet corn, okra, eggplant. Some rain first of week all citrus areas, rest of week mild temperatures, dry, growers irrigating. Good on-tree color break for most early mid-fruit. Ideal weather for harvesting. Movement of oranges to processor very active, fresh packing houses shipping most types of early fruit. Caretakers cutting cover crops, hedging, topping, spraying. Pasture feed 30% poor, 35% fair, 35% good. Cattle 5% poor, 45% fair, 50% good. Panhandle: cool temperatures, lack of rain reduced small grain forages; Hay supplies being reduced rapidly. North: cool season forages progressing slowly due to dry soil, cool, freezing temperatures. Central: supplemental hay feeding seasonally active. Southwest: pasture, cattle feed fair to good.

GEORGIA: Soil moisture was short to very short for over half of the State. Rain is needed. Cotton, soybean harvests neared completion. Some areas were mowing cotton stalks. Pecan harvest wound down as over 90% of the crop was harvested. Planting of small grains was about complete. The small grain crops were in fair to good condition. Small grain top dressing occurred during December. Onion transplanting was almost complete. Condition was

mostly good. Tobacco bed preparation continued as transplanting will begin shortly. More cold weather is needed to kill insects. Peaches need additional chill hours for a good bloom. Farmers continued to feed hay to livestock. Pasture feed was fair to good. Mild temperatures during December helped minimize stress to livestock, poultry. Other activities included: Land preparation for spring planting.

HAWAII: Generally dry weather was favorable for agriculture. Farmers took advantage of the dry weather to catch up on farm activities delayed by the previous week's rain. Fields remained soggy in low-lying areas. Spraying increased to prevent disease outbreaks. Most crops in fair to good condition. Cool temperatures slowed crop progress. Banana, papaya harvesting steady, but at seasonally low levels. Fields were in fair to good condition. Head cabbage harvesting steady. Crop in generally good condition. Dry conditions favored harvesting of 1999/2000 ginger root crop.

IDAHO: Irrigation supply is considered good across the state. Hay, roughage supply was reported 12% surplus, 87% adequate, 1% short. Most of the hay on hand is feeder hay with very little dairy quality hay. Winter wheat 2% excellent, 84% good, 12% fair, 2% poor. A light snow cover, extremely dry conditions last fall have had an undetermined affect on winter wheat. Activities: Repairing machinery, feeding, marketing livestock, early calving, lambing.

ILLINOIS: Topsoil 18% very short, 47% short, 34% adequate, 1% surplus. Rainfall across the state last month improved topsoil moisture supplies but nearly two-thirds of the state remains in the short or very short categories. There are also reports of low subsoil moisture, which could have a negative effect on the winter crops in the spring. Winter wheat has had slow growth due to lack of moisture, however, recent precipitation has helped. The mild weather has also been beneficial for livestock, has kept most lots dry.

INDIANA: Topsoil, subsoil moisture remain short to very short over most of the state. December temperatures were mild, averaging above normal around the State. Freezing temperatures arrived late in the month. Precipitation was minimal, but some portions of the state received measurable amounts of rain. Many areas are 7 to 10 inches short of precipitation since the dry conditions began last summer. Wells, ponds have gone dry on some farms. Hauling of water is necessary for livestock, some farms. Most of the State received from 1 to 2 inches of snow late in the month, heaviest amount on December 23rd. Tillage of soils, fertilizer application was winding down by mid-December. Winter wheat condition is rated mostly fair to good condition. Wheat is still green, most fields. Hay supplies being depleted rapidly. Marketing strategy, purchasing supplies, tax planning requiring much of farmers time. Low market prices is major concern. Tobacco stripping, baling active. Major activities: Spreading manure, equipment cleaning, repair, repairing tile, hauling grain, feeding hay, caring for livestock.

IOWA: Soil moisture availability 13% very short, 61% short, 26% adequate. Grain movement 24% none, 55% light, 19% moderate, 2% heavy. Warmer than average weather left farmers across the state calling for more snow and frost. Average depth of snow cover 1 inch. Average depth of frost penetration 4 inches. Livestock reported to be in good condition. Availability of hay, roughage supplies for livestock feed 1% short, 83% adequate, 16% surplus; quality of hay, roughage supplies 7% poor, 39% fair, 54% good. Utilization of stubble fields for grazing 25% none, 21% light, 36% moderate, 18% extensive. Hog, pig losses 16% below avg.; 82% avg.; 2% above avg. Cattle, calf losses 20% below avg.; 79% avg.; 1% above avg.

KANSAS: The dry topsoil conditions have created a potential blowing problem for some fields, but little wind damage has occurred to date. Winter wheat remained in mostly fair to good condition across the State. Winter wheat 7% excellent, 32% good, 37% fair, 18% poor, 6% very poor. Condition at the beginning of December was rated 1% excellent, 35% good, 42% fair, 17% 5% poor, very poor. The western half of the State received very little precipitation in December, is badly in need of rain or snow. Some areas have not had any measurable precipitation since September. With the lack of moisture in western areas, the wheat crop continues to suffer from moisture stress, stands in some areas remain spotty. The wheat crop lacks snow

cover across the State, but with the mild temperatures during most of December, very little freeze damage has occurred thus far. With the warm, dry weather conditions across much of the State, there have been several reports of greenbug activity in the wheat crop. There is some concern that insect activity will increase if more winter-like weather does not move into the State in the near future.

KENTUCKY: December began warm, dry. Above normal temperatures through mid-month limited livestock stress, benefitted fall seeded small grain growth. Rainfall increased the 2nd, 3rd week bringing much needed moisture to the State. The increased moisture allowed farmers to strip tobacco, helped improve soil moisture going into winter. Supplemental feeding of livestock remained heavy across the Commonwealth with hay supplies generally adequate but tight in all areas. Colder temperatures prevailed the last two weeks of December bringing the first two snowfalls of winter to portions of the State. Many areas of the State enjoyed snow just in time for Christmas. Burley tobacco stripping made good progress with the return of rain, increased humidity. Areas Gross Burley sales volume through 12/16 was 243.2 million lbs. with an average price of \$190.41 per cwt. High loan receipts continued to be the main focus at burley tobacco auctions before the holiday recess. The Burley Cooperatives received 33.5% of the gross sales, compared with 4.5% at the same point 1999. Burley sales are scheduled to resume January 10, 2000.

LOUISIANA: Dry conditions throughout the month allowed sugarcane producers to make excellent progress with harvest. Sugarcane mills were in full swing. Cattlemen were feeding cattle. Other activities included: Repairing, cleaning equipment.

MARYLAND: Rainfall is about seven-tenths of an inch below normal for the state. The western, lower Eastern Shore counties are the driest as they average over an inch below normal. Poultry appears to be in overall good condition, as well as livestock, however, in western counties, some beef cattle are being sold off due to the lack of pasture, water, feed supply. Hay, feed appear to be in adequate shape except for western counties. Weather conditions have been favorable for growth of barley, wheat. On Eastern Shore, farmers are hauling, storing poultry manure. Around the state, farmers are cleaning, repairing harvesting equipment, tax planning, purchasing seed, supplies.

MICHIGAN: The first two weeks of December brought mild temperatures with very little rainfall which helped get most field work completed. Marketing, moving grain was a common activity due to lack of storage space, railroad cars in late November. Other farm activities included: Manure hauling, getting equipment ready for the winter, routine equipment, building repairs. The second half of December brought below freezing temperatures, light snow covered most of the state by the end of the month. Farm activities slowed down due to the colder weather, holiday season.

MINNESOTA: While soil moisture supplies were low, the frequent freeze/thaw cycles conditioned the soil to become more absorbent for any precipitation that occurs. December average temperatures were about 7° above normal, with limited snow cover across the state. As of December 30, agricultural areas of the state had less than 4 inches of snow cover. The dry weather, above normal temperatures led to many areas of the state still having unfrozen soil as of the middle of the month. Large temperature fluctuations, minimal snow cover raised concerns about possible damage to over-wintered crops. Feedlots were generally dry, with good herd health, favorable forage supplies remaining for the colder months of winter.

MISSISSIPPI: Soil moisture 13% very short, 47% short, 40% adequate. Wheat 39% fair, 54% good, 7% excellent. Hay supply 51% very short, 49% short. Cattle, 1% very poor, 5% poor, 23% fair, 65% good, 6% excellent. Feed grain 5% very short, 93% short, 2% adequate. Most parts of the state are in need of precipitation. There are concerns about having adequate soil moisture for spring crops. Above normal temperatures were common across the state.

MISSOURI: At the end of December, Topsoil as 24% very short, 42% short, 33% adequate, 1% surplus. Winter wheat 1% very poor, 10% poor, 44% fair, 39% good, 6% excellent. Livestock 3% poor, 24% fair, 65% good, 8% excellent. Hay supplies were 12% very short, 24% short, 57% adequate, 7% surplus. Stock water supplies 23% very short, 35% short, 41% adequate, 1% surplus. Mild weather throughout the month has been beneficial for caring for livestock.

MONTANA: Topsoil 20% very short, 52% short, 27% adequate, 1% surplus. Subsoil moisture 20% very short, 62% short, 18% adequate. An upper level ridge of high pressure dominated much of the state for almost the entire month of December. This resulted in above average temperatures with very little moisture. It was mild enough for some producers to do fall tillage, but the lack of moisture in the soil made it difficult in some situations. The lack of snow cover in combination with little moisture, high winds took its toll on the winter wheat crop. Producers are needing colder temperatures to stop growth of the crop, snow cover to protect it from the elements. Winter wheat 0% very poor, 11% poor, 57% fair, 30% good, 2% excellent. Wind damage to winter wheat 39% none, 42% light, 15% moderate, 4% heavy. Winter wheat protectiveness of snow cover 75% very poor, 17% poor, 8% fair. As a result of the mild conditions last month, livestock is reported to be in very good condition as there have been few reported problems. Even though there is a lot of open grazing, producers are giving supplemental feed to meet nutritional needs. At the end of the month, 73% cattle, calves 65% of the sheep, lambs were receiving supplemental feed. Livestock grazing 92% open, 7% difficult, 1% closed.

NEBRASKA: Topsoil, subsoil moisture supplies continued short. Temperatures during December averaged 6 to 7° above normals for the month. Due to the warm temperatures, the ground was not frozen in some reporting areas. Snow depth was generally less than 1 inch at the end of December. Precipitation during the month averaged less than one inch of moisture for most locations. Wheat 6% very poor, 4% poor, 24% fair, 66% good, 0% excellent. Producers were looking for snow to provide moisture, protection from winds, temperature changes. Livestock producers allowed cattle to remain on stalks due to the open winter conditions, limiting supplemental feed needs. Feed grain 69% adequate, 31% surplus. Hay, forage 2% short, 71% adequate, 27% surplus. Producer activities included: Bookwork, tax accounting, general farm maintenance, livestock care.

NEVADA: December was mostly dry across areas with very light snow falling in the North, traces of rain in the South. Temperatures averaged a few degrees above normal for the month at most locations. Mountain snow accumulations lag well behind normal statewide, with nearly all stations currently at less than 50% of normal. Some late livestock marketing continued, hay shipping was active. Onion marketing, potato processing continued. Winter livestock feeding was minimal due to the continued open weather. Main farm, ranch activities: Equipment maintenance, livestock shipment, fence repairs, crop marketing

NEW ENGLAND: Snowfall was below normal, many fields were exposed to frigid temperatures. In Concord, NH no measurable amount of snowfall was received during Oct, Nov, or Dec. Christmas tree sales were brisk throughout the first half of the month across areas. Farmers tending livestock, preparing for winter. Moving apples, potatoes out of storage.

NEW JERSEY: Some farmers finished their 1999 season harvesting their remaining vegetables, soybean fields during the first days of December. Besides some field preparation, no other significant outdoor activities occurred until the final three days of the month, when the unusually warm temperatures permitted the harvest of some leeks, turnips in South Area. Some movement of apples, squash, sweet potatoes coming out of storage is occurring. Below normal precipitation was reported in most areas of the state.

NEW MEXICO: December started off dry, warm, but dry, cold conditions prevailed across the State during the last of the month, allowing for the harvest of pecans, cotton. Moisture did spread into the southern, central areas Christmas Eve as an upper level storm tracked northward from areas.

A winter-type storm brought light precipitation to the northern part of the State during the last week of the month.

NEW YORK: No major weather events dominated during December. Farmers were occupied with normal farm maintenance activities: Preparing farm machinery for winter storage, caring for livestock, packing/grading fruits, vegetables, attending producer meetings.

NORTH CAROLINA: Currently, soil moisture across the State is 1% very short, 14% short, 74% adequate, 11% surplus. The last few weeks of 1999 were mostly mild for areas. Precipitation was adequate in most areas. There is very little soybean, cotton acreage left to harvest, the wheat is now almost fully emerged.

NORTH DAKOTA: The state had a mild December with very little snow. Average snow depth across the state was 1.5 inches. Snow cover was sufficient to protect only 24% of the alfalfa. Hay, roughage supplies were 0% very short, 1% short, 84% adequate, 15% surplus. Cattle feed were 0% very poor, 1% poor, 13% fair, 73% good, 13% excellent. 90% of the cattle were receiving supplemental feed. Sheep 0% very poor, 0% poor, 10% fair, 74% good, 16% excellent. 96% of the sheep were receiving supplemental feed. Cattle sales were 2% below normal, 92% normal, 6% above normal.

OHIO: Farmer activities have been minimal during the month of December since many farmers finished their corn, soybean harvest early this fall. Activities include: Repairing machinery, hauling manure, tillage, marketing grain. There have been no problems reported with livestock although several mentioned hay reserves are low, farmers are searching for hay to buy. Pastures are in bad shape from overgrazing, lack of moisture, are expected to be short in the spring. The winter wheat crop is in fair to good condition as weather has been fair thus far. Some areas are beginning to catch up on the rain although most areas are still short.

OKLAHOMA: Weekly temperatures ranged from a low of 17° at Cooks December 28th to a high of 78° at Idabel on December 3rd. District precipitation averaged from none most districts to 0.05 in. Southeast. Individual Mesonet stations ranged from none at most stations to 0.21 in. at Broken Bow. Weekly soil temperatures averaged 40° at Miami, Nowata, Kenton, Boise City to 50° at Waurika, Ardmore. Lack of precipitation resulted in dwindling soil moisture supplies. Average price for feeder cattle decreased by nearly 50 cents per cwt. since early December.

OREGON: Activities: Nursery digging, container movement continued. Winter orchard pruning continued statewide. Winter farm, ranch activities continued. Cattle, sheep good. There has no major winter storms at this time. The snow pack is below normal at this time.

PENNSYLVANIA: The weather was mild during the month of December. Average high temperature were mostly in the 40's, the average low temperatures were mostly in the 20's. Despite some precipitation, dry conditions continue. Precipitation throughout the state was a little below normal for December. Some areas have received snow. A drought warning remains in effect for the western side of the state, a drought watch remains in effect for the eastern side. Major activities included: Fall plowing, corn harvesting, caring for livestock, hauling, spreading manure, fixing fences, machinery maintenance, pruning fruit trees, repairing barns.

SOUTH CAROLINA: Overall, December's temperatures were above normal. Statewide precipitation was below normal. Farmers were completing their harvesting of soybeans, pecans, cotton, their small grain planting; also, repairing, maintaining equipment, deer hunting. Pasture, livestock feed remain in fair to good condition.

SOUTH DAKOTA: Stock Water Supplies 1% very short, 11% short, 79% adequate, 9% surplus. Hay, Roughage supplies, 1% short, 67% adequate, 32% surplus. Winter rye 1% very poor, 13% poor, 56% fair, 29% good, 1% excellent. Winter wheat 12% poor, 40% fair, 44% good, 4% excellent. Cattle 7% fair, 63% good, 30% excellent. Sheep 5% fair, 53% good, 42% excellent.

Calf deaths 32% below avg.; 67% avg.; 1% above avg. Lamb deaths 32% below avg.; 67% avg.; 1% above avg. Average snow depth is 0 inches. Alfalfa snow cover is 98% poor, 2% adequate. Winter wheat snow cover is 99% poor, 1% adequate. Winter Rye snow cover is 98% poor, 2% adequate. Dry conditions have severely impacted fall planted winter wheat, creating spotty stands from poor germination. Many late seeded fields have not emerged, emerged stands are stressed. Crops will deteriorate further if cold weather arrives with no snow cover to protect them.

TENNESSEE: Weather conditions across the State during the month of December were very mild. Except for a short cold snap during the latter part of the month, temperatures averaged above normal. Some locations reported temperatures in the 70's. Rainfall amounts on the other hand, averaged below normal. The State's wheat crop was in good condition, farmers are finding very few aphids thus far. The State's cattle herd was also in good condition. Although there are ample hay supplies at this time, there continues to be concern over the availability of hay this winter due to the summer drought.

TEXAS: Harvest of remaining summer crops was completed following a wet, blowing snow that crossed the Plains in early December. The added moisture enhanced the wheat pasture on the High Plains, but had little effect in other areas. Elsewhere supplemental feeding, herd reduction escalated as the dry conditions prevailed. Land preparation for the 2000 crop continued but slowed, harvest for citrus, winter vegetables remained active.

UTAH: The state's weather has been mild, extremely dry for this time of year. The lack of moisture may hurt winter grains, is causing farmers to worry about the coming spring. Major activities included: Care of livestock, equipment maintenance. Livestock throughout the state were reported to be in good condition.

VIRGINIA: Warmer than normal temperatures, adequate moisture allowed for continued grazing of livestock with supplemental feed. Fall calving continued, progressed rapidly. Some small grain acreage was planted later than normal due to wet field conditions resulting from excessive amounts of precipitation during September, October. However, small grain producers report that mild weather in early December encouraged good growth, development. Producers remained busy scouting, treating for aphids. Soybean harvest began to wind down as the month reached the mid-point. Producers reported good yields overall. It has yet to be determined the exact number of acres that was abandoned. Experts do not believe, however, that the number will be as high as earlier reported. By mid-month harvest of most fall, summer crops was complete. Small grain, winter grazing crops had been seeded. Farmers turned much of their time towards record-keeping, tax preparations, planning for 2001 production. Crop producers were also busy attending pesticide re-certification meetings, extension seminars, producer association meetings. Cooler temperatures, some isolated light snow deteriorated grazing conditions. Hay supplies, stockpiled fescue remained in fairly good supply. Feed supplies were stretched due in part to re-growth which occurred in early grazed pastures. Farmers continued to spend time feeding livestock, cleaning, maintaining equipment, spreading lime, fertilizer on pastures, cropland. Producers prepared for mid-winter top-dressing of small grain acreage. Burley, fire tobacco grading, marketing was active during December. Precipitation levels for the Commonwealth as a whole for December were close to normal. Some areas are reportedly suffering from dry soil conditions. A few producers report that their springs, wells have completely given out. This is a direct result of the extremely dry conditions that persisted during July, August. Temperatures during the end of the month ranged from unseasonably warm to extremely low with small amounts of snow. Accumulation was limited to mountainous areas of Southwestern Western Areas

WASHINGTON: Winter has gotten off to a mild start in eastern areas. Temperatures continue to be mild with some fields not freezing until late December. Precipitation was recorded throughout December, but, due to the dry summer, fall, more precipitation is needed for a good subsoil base in many areas. Winter wheat was in good condition, the mild temperatures were favorable for growth. Aphids had been detected in the early seeded winter wheat in western Whitman County. However a significant impact was

not expected, so spraying had not started as of the 1st week of January. Tree fruit pruning was underway. Hay sales were starting because livestock were being fed on a daily basis. Cattlemen were also preparing for calving season.

WEST VIRGINIA: Topsoil 1% very short, 25% short, 70% adequate, 4% surplus. The colder than normal temperatures of early December required heavier feeding of livestock. As the month progressed, unseasonable warm, rainy conditions improved pasture growth, slowed livestock feeding. Cold, icy conditions in most areas of the State the latter part of the month made field activities, livestock feeding difficult. Record high temperatures were set on January 2, 2000. Wheat 1% very poor, 1% poor, 87% fair, 10% good, 1% excellent; Wheat 81% emerged, 91% 1999. Cattle 1% poor, 33% fair, 59% good, 7% excellent. Sheep 18% fair, 76% good, 6% excellent.

WISCONSIN: During the first two weeks of December, temperatures averaged nearly 10° F warmer than the 30-year avg. Precipitation was below normal. Temperatures during the last half of the month dropped below normal the week of December 20th. Low temperatures plunged in Northern areas of the state below the -20° F level. Temperatures rebounded the last week of the month to above normal temperatures. Mild weather allowed many farmers to continue fall tillage, manure spreading, other winter farm activities in mid-December. Precipitation was below normal for the month. Snow levels were ranged from 2-11 inches in northern areas to 1-3 inches in southern. A trace of snow was recorded in the south east

WYOMING: Topsoil 11% very short, 80% short, 9% adequate. Subsoil moisture 10% very short, 78% short, 12% adequate. Average depth of snow cover 1 inch with a foot of snow cover in some mountainous areas. Condition of winter wheat crop 43% fair, 56% good, 1% excellent. Winter wheat wind damage 57% none, 43% light. Winter wheat freeze damage 92% none, 8% light. Cattle 1% fair, 88% good, 11% excellent. Sheep 2% fair, 93% good, 5% excellent. Hay, roughage supplies 65% adequate, 35% surplus. Temperatures were mostly well above normal with light precipitation across the State.

International Weather and Crop Summary

December 26, 1999 - January 1, 2000

HIGHLIGHTS

FSU-WESTERN: Although unseasonably mild weather favored dormant winter grains, crop areas in eastern Ukraine and southern Russia remained snow free, leaving them exposed to potential extreme cold.

EUROPE: Powerful storms in northwestern and southeastern Europe had little impact on dormant winter grains.

NORTHWESTERN AFRICA: Warmer weather prevailed over the entire winter crop region, while showers fell primarily in northern growing areas.

AUSTRALIA: In New South Wales and Queensland, rain impeded final winter grain harvests.

SOUTH AFRICA: Mild, showery weather aided vegetative corn.

SOUTHEAST ASIA: Unseasonably cool weather caused no damage in northern Thailand, while lighter monsoonal showers eased wetness in the eastern Philippines.

EASTERN ASIA: Despite warmer weather, winter wheat remained dormant across the North China Plain.

SOUTH AMERICA: Showers provided some relief across the region, but dry, hot weather stressed summer crops in key producing areas of southern Brazil, southern Paraguay, and central Argentina.

December 1999

MONTHLY DATA FROM SELECTED FOREIGN CITIES CLIMATE PREDICTION CENTER-NCEP-NWS-NOAA

*** DATA NOT AVAILABLE

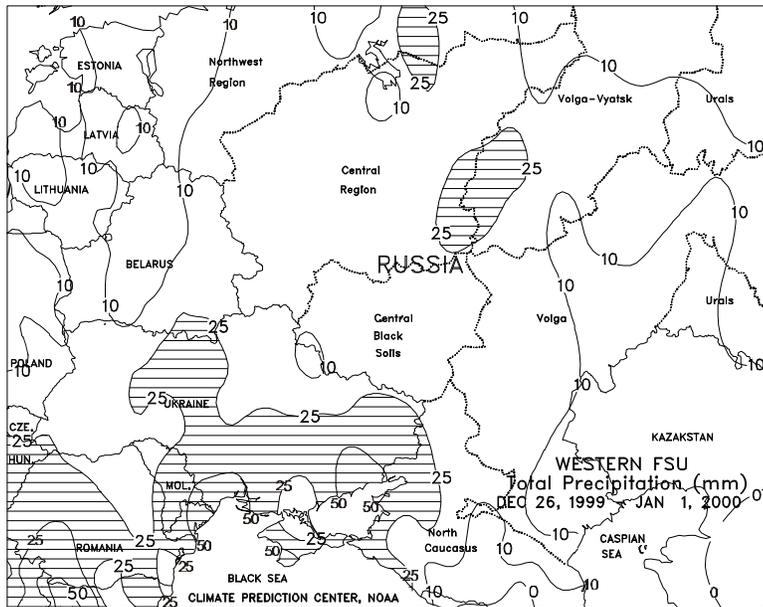
COUNTR	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM
NORWAY	OSLO	-3	-7	4	-17	-5	0.8	102	38
SWEDEN	STOCKHOLM	0	-4	6	-14	-2	-0.7	0	-46
FINLAN	HELSINKI	0	-4	7	-16	-2	1.6	125	68
UKINGD	GLASGOW	**	**	3	3	**	***	**	**
	EDINBURGH	**	**	8	3	**	***	**	**
IRELAN	DUBLIN	7	3	12	-3	5	-1.3	85	9
ICELAN	REYKJAVIK	1	-2	7	-11	-1	-0.7	38	-41
DENMAR	COPENHAGEN	4	1	8	-7	2	-0.3	66	17
LUXEMB	LUXEMBOURG	4	1	10	-8	2	1.1	150	70
SWITZE	ZURICH	4	0	10	-7	2	1.3	125	48
	GENEVA	6	1	13	-6	4	1.7	133	47
FRANCE	PARIS/ORLY	8	3	13	-2	5	***	124	**
	STRASBOURG	6	2	12	-6	4	1.9	112	70
	BOURGES	8	3	13	-4	5	1.7	136	74
	BORDEAUX	11	5	15	-2	8	1.7	160	62
	TOULOUSE	9	3	17	-4	6	0.4	66	11
	MARSEILLE	11	3	17	-3	7	0.0	11	-44
SPAIN	VALLADOLID	8	2	14	-2	5	0.7	30	-11
	MADRID	10	3	16	-3	6	0.5	21	-25
	SEVILLE	16	9	22	4	13	1.6	22	-62
PORTUG	LISBON	14	10	18	5	12	0.6	47	-57
GERMAN	HAMBURG	5	2	9	-5	3	1.3	179	107
	BERLIN	5	1	11	-4	3	1.5	71	17
	DUSSELDORF	6	3	12	-2	4	1.3	105	47
	LEIPZIG	5	1	12	-5	3	1.7	34	-3
	DRESDEN	4	1	13	-6	2	1.7	30	-7
	STUTTGART	4	0	13	-14	2	1.3	104	58
	NURNBERG	4	0	13	-11	2	1.2	70	17
AUSTRI	VIENNA	4	-2	13	-10	1	0.2	52	15
	INNSBRUCK	2	-4	10	-14	-1	0.2	50	0
CZECHR	PRAGUE	3	-2	12	-13	1	0.9	23	-2
POLAND	WARSAW	2	-1	10	-11	1	1.4	22	-10
	LODZ	2	-2	9	-8	0	1.4	32	-10
	KATOWICE	3	-2	10	-14	0	1.3	41	-3
	PRZEMYSL	2	-2	9	-15	0	1.0	52	13
HUNGAR	BUDAPEST	3	-2	9	-11	1	0.2	66	25
YUGOSL	BELGRADE	6	1	18	-13	3	0.7	134	76
ROMANI	BUCHAREST	6	-1	13	-9	2	1.8	70	24
BULGAR	SOFIA	6	-1	18	-16	2	1.9	98	48
ITALY	MILAN	7	-1	14	-7	3	1.2	37	-19
	VERONA	6	-1	12	-7	3	-0.2	30	-21
	VENICE	6	1	13	-5	3	0.3	34	-16
	GENOA	12	7	17	1	10	0.6	44	-63
	ROME	13	6	22	0	10	0.5	57	-32
	NAPLES	14	8	19	0	11	1.6	88	-30
GREECE	THESSALONIKA	12	5	21	-1	8	1.6	100	43
	LARISSA	12	4	21	-4	8	1.6	62	7
	ATHENS	17	11	20	5	14	1.7	45	-20
TURKEY	ISTANBUL	13	9	17	3	11	3.0	97	6
	ANKARA	9	-3	16	-9	3	1.5	34	5
CYPRUS	LARNACA	20	10	22	7	15	1.4	52	-51
ESTONI	TALLINN	1	-3	9	-9	-1	2.1	110	56
LITHUA	KAUNAS	1	-2	8	-9	0	1.9	58	12
BELARU	MINSK	0	-3	6	-12	-1	2.8	55	7
RUSSIA	KAZAN	-4	-8	2	-20	-6	3.2	40	3
	MOSCOW	0	-3	6	-11	-2	4.2	55	5
	YEKATERINBURG	-5	-9	1	-22	-7	3.9	38	16
	OMSK	-6	-10	2	-37	-8	6.2	14	-7
	NOVOSIBIRSK	-7	-10	2	-38	-8	8.1	40	17
	BARNAUL	-6	-10	5	-35	-8	5.7	27	-2
	KHABAROVSK	-13	-20	-8	-27	-17	0.9	15	-4
	VLADIVOSTOK	-5	-11	4	-17	-8	1.5	2	-14
	SARATOV	-1	-4	4	-13	-3	5.0	50	18
	VOLGOGRAD	1	-2	8	-10	-1	4.5	36	-9
	ASTRAKHAN	5	-1	9	-10	2	3.9	7	-8
	KRASNODAR	10	2	20	-6	6	3.7	32	-44
	ORENBURG	-3	-7	2	-16	-5	4.6	44	13
KAZAKH	TSELINOGRAD	-7	-13	1	-27	-10	5.2	3	-7
	KARAGANDA	-5	-11	2	-25	-8	2.8	10	-10
GEORGI	TBILISI	11	2	17	-3	6	2.5	1	-25

Based on Preliminary Reports



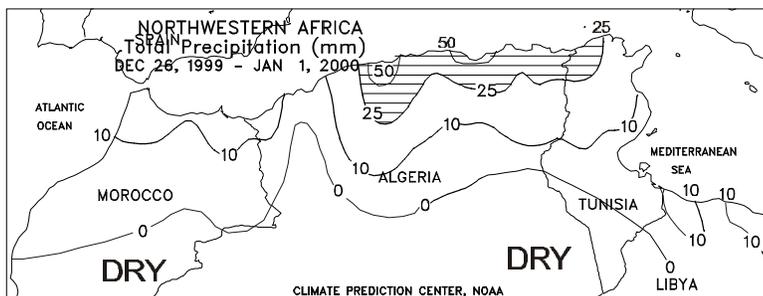
EUROPE

Powerful storms brought damaging winds and locally heavy precipitation to northwestern and southeastern Europe. However, these storms had minimal impact on dormant winter grains. Mostly moderate to locally heavy rain (20-70 mm, with some higher amounts) fell across southwestern England, France, the Benelux countries, and the northwest Iberian peninsula, reportedly causing localized flooding. Lighter rain (2-20 mm) fell across the remainder of England, maintaining soil moisture. Farther south, timely showers (7-27 mm) boosted topsoil moisture for developing winter grains in southern Spain and Portugal. Similarly, scattered showers (6-31 mm) helped winter wheat and barley establishment in central and southern Italy. In southeastern Europe, a mixture of rain and snow (15-75 mm or higher liquid equivalent) fell from Austria, Slovakia, and Romania southward through Greece. Farther north, light to moderate snow (5-33 mm of liquid equivalent) blanketed Germany, the Czech Republic, and Poland. Winter grains throughout Europe benefited from unseasonably mild weather, as temperatures in most major winter grain-producing areas averaged 1 to 3 degrees C above normal.



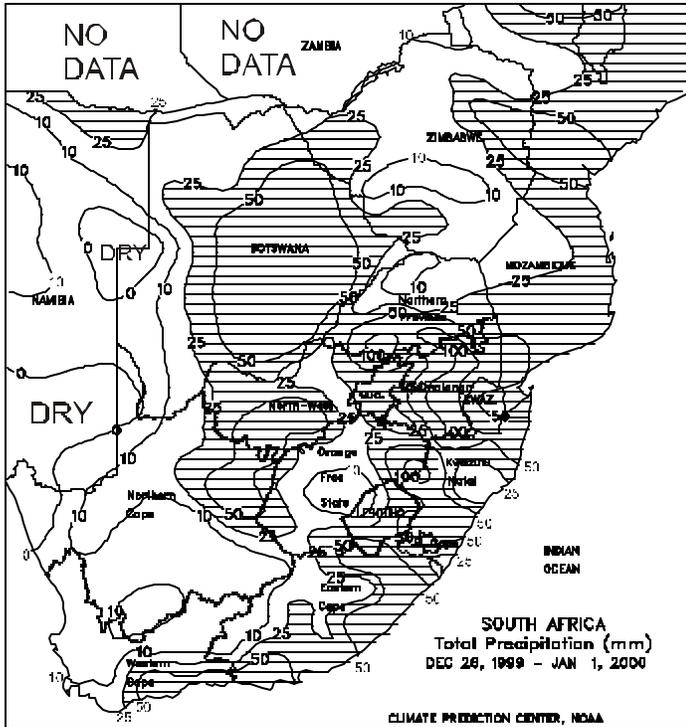
FSU-WESTERN

A series of storm systems from Europe moved eastward across the region, bringing widespread precipitation (10-40 mm or more) to winter grain areas in Ukraine and Russia. The precipitation fell as snow across western and northern Ukraine and northern Russia, increasing the protective snow cover in these areas. However, farther east across eastern Ukraine and the North Caucasus region in Russia, the precipitation fell as a mixture of rain and snow. Unseasonably mild weather prevailed over most of Russia and Ukraine, with bitterly cold air (temperatures less than -15 degrees C) confined to extreme northeastern winter grain areas in Russia (Volga Vyatsk, upper Volga Valley, and Urals). Temperatures rose above freezing over most of Ukraine and southern Russia, with the warmest weather (extreme maximum temperatures ranging from 5-16 degrees C) observed in southern and eastern Ukraine, and the Russian North Caucasus and lower Volga Valley regions. As a result, winter grains in these areas remained snow free, leaving them exposed to potential extreme cold.



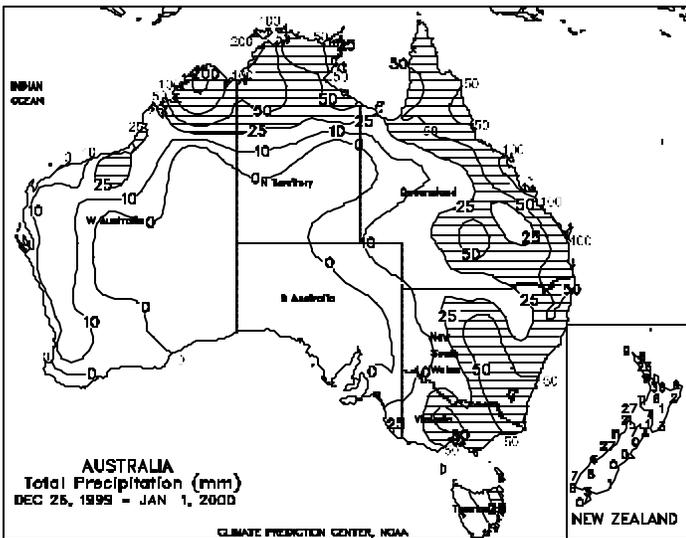
NORTHWESTERN AFRICA

Warmer weather prevailed over the region, with beneficial rain (17-25 mm or more) continuing to fall in winter grain areas of Algeria and Tunisia. Weather systems tracking through western Europe have been benefiting crops in Algeria and Tunisia, leaving Morocco with only light rainfall. A lack of significant rain in Moroccan winter grain areas has caused crops to rely on diminishing soil moisture reserves to sustain normal development.



SOUTH AFRICA

Scattered showers (10-50 mm or more) continued across the corn belt, benefiting vegetative summer crops. Heaviest rainfall (50 mm or greater) was recorded in the east (eastern Free State and southern Mpumalanga) and the far west (central North West). Temperatures were generally near normal, with highs ranging from 27 to 30 degrees C. Seasonable showers also covered most crop areas of KwaZulu-Natal and Eastern Cape, although a few dry pockets developed over the central sugarcane areas. In Western Cape, mostly dry, hot weather increased irrigation demands in orchards and vineyards.



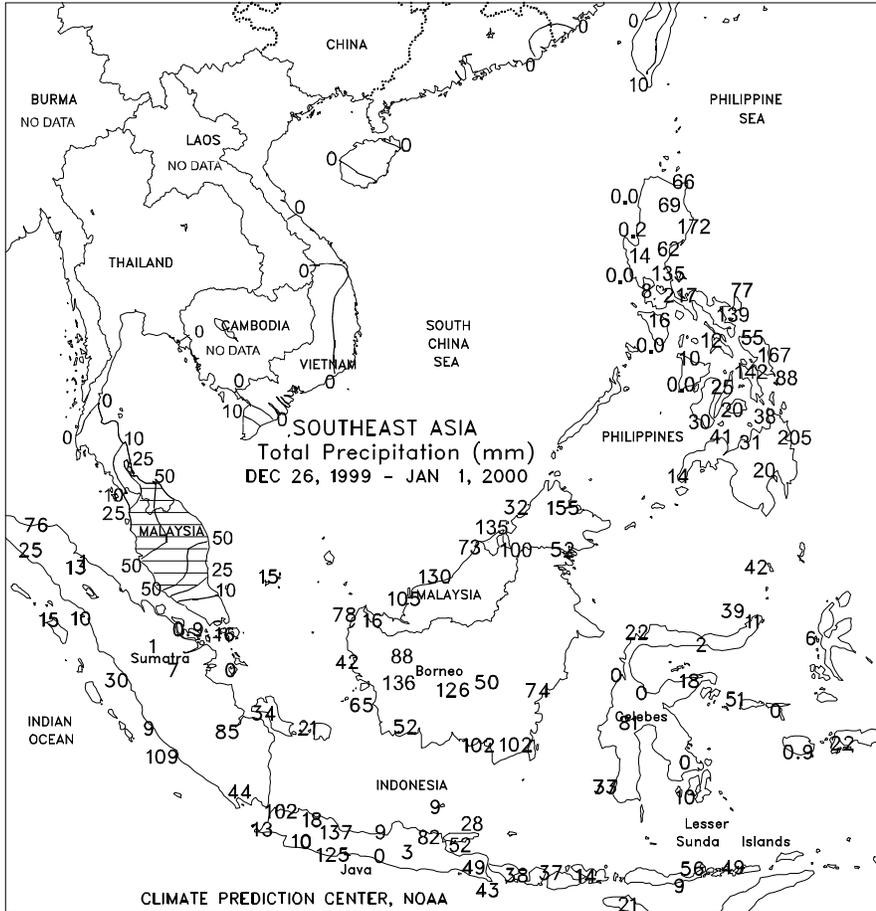
AUSTRALIA

Moderate to heavy rain (25-50 mm or more) covered most winter grain areas of Queensland and New South Wales, preventing final harvests. Somewhat lighter rainfall (10-25 mm or more) was overall beneficial in the summer crop areas and grazing lands west of the winter grain belt. However, temperatures averaging 5 to 7 degrees C below normal slowed summer crop growth. Warmer, sunny weather is needed for normal development of sorghum and cotton. Elsewhere, conditions favored late winter crop harvesting in South Australia, Victoria, and southern sections of Western Australia. Scattered showers (10-25 mm) slowed fieldwork in Western Australia's northern grain belt. In New Zealand, mostly dry weather (10 mm or less) covered agricultural districts in South Island and most of North Island. Moderate showers (10-36 mm) fell over the northern peninsula.



EASTERN ASIA

Despite warmer weather, winter wheat remained dormant across the North China Plain. Temperatures averaged 4 to 6 degrees C above normal across the region. Freezing temperatures reached as far south as the southern coastal provinces, burning back winter crops. Seasonably dry weather prevailed across the country.

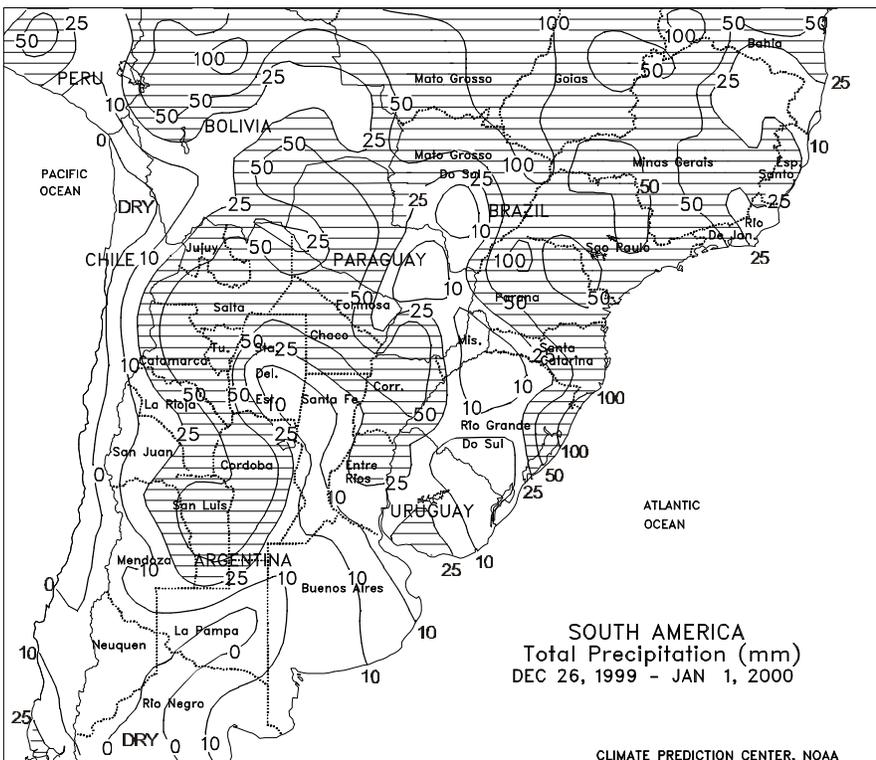


SOUTHEAST ASIA

Unseasonably cool weather (2-4 degrees C below normal; lowest temperatures ranged from 2-5 degrees C) prevailed across northern Thailand, but no significant damage is expected to transplanted second-season rice. Seasonably dry weather aided fieldwork across Indochina. Lighter monsoonal showers (50-150 mm) eased wetness across the eastern Philippines. In Java, Indonesia, moderate showers (20-100 mm or more) maintained moisture supplies for main-season rice development. Showers (30-80 mm) also favored oil palm across peninsular Malaysia.

SOUTH AMERICA

Showers eased dryness in portions of southern Brazil, but the moisture missed key producing areas. Beneficial showers (25-125 mm) covered southern Mato Grosso, Goias, northern Mato Grosso do Sul, and most of Parana. However, southern Mato Grosso do Sul, southwestern Parana, and northwestern Rio Grande do Sul received less than 15 mm of rain. Heat (highest temperatures above 35 degrees C) and the lack of moisture stressed vegetative soybeans and vegetative to reproductive corn. Stressful conditions also existed for cotton and soybeans in southeastern Paraguay, while showers (25-100 mm) eased dryness in extreme southwestern Paraguay. In northern Argentina, showers (25-80 mm) eased dryness for germinating to vegetative cotton. Farther south, moderate to heavy showers (25-75 mm) boosted soil moisture for summer crops in Cordoba. Dry, hot weather (highest temperatures ranged from 35-39 degrees C) began stressing summer crops in southern Santa Fe and northern Buenos Aires. The dryness, however, favored winter wheat harvesting. Moderate showers (10-20 mm) maintained soil moisture in central and southwestern Buenos Aires. Temperatures averaged 2 to 3 degrees C above normal across central Argentina and southern Brazil. Cooler weather arrived by the end of the week. According to reports as of December 24, Argentine soybeans were 86 percent planted, compared with 92 percent last year and corn was 88 percent planted, compared with 92 percent last year. Wheat was 63 percent harvested nationwide, compared with 83 percent last year.



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Weather Data for Selected Locations in the Delta

Weather Data for the Week Ending January 1, 2000

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

STATES AND STATIONS	TEMPERATURE °F						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 4-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. °F		PRECIP.		
																0 AND ABOVE	2 AND BELOW	01 INCH OR MORE	50 INCH OR MORE	
MS BATESVILLE *	60	34	68	28	47	8	0.00	-1.26	0.00	--	--	0.00	0	--	--	0	3	0	0	
BELZONI *	61	34	71	29	48	5	0.00	-1.28	0.00	--	--	0.00	0	--	--	0	4	0	0	
CLARKSDALE *	61	36	68	30	49	9	0.00	-1.06	0.00	--	--	0.00	0	--	--	0	4	0	0	
CLEVELAND *	59	32	69	25	46	4	0.00	-0.83	0.00	--	--	0.00	0	--	--	0	4	0	0	
GREENVILLE *	60	33	69	25	47	4	0.00	-1.18	0.00	--	--	0.00	0	--	--	0	4	0	0	
GREENWOOD *	60	34	69	25	47	4	0.00	-1.22	0.00	--	--	0.00	0	--	--	0	5	0	0	
INDIANOLA 1S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
INVERNESS SE	61	34	71	28	48	--	0.00	--	0.00	2.72	--	0.00	--	51	44	0	4	0	0	
LYON	60	34	68	28	47	--	0.00	--	0.00	3.28	--	0.00	--	--	--	0	3	0	0	
MOORHEAD *	61	37	71	28	49	6	0.00	-1.25	0.00	--	--	0.00	0	--	--	0	3	0	0	
ONWARD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
ROLLING FORK *	61	33	70	25	47	4	0.00	-1.19	0.00	--	--	0.00	0	--	--	0	4	0	0	
SIDON	61	36	71	29	49	--	0.00	--	0.00	2.35	--	0.00	--	51	45	0	3	0	0	
TUNICA *	57	34	68	28	46	7	0.00	-1.20	0.00	--	--	0.00	0	--	--	0	3	0	0	
VICKSBURG *	61	33	70	25	47	0	0.00	-1.29	0.00	--	--	0.00	0	--	--	0	4	0	0	
YAZOO CITY *	60	34	70	25	47	2	0.00	-1.37	0.00	--	--	0.00	0	--	--	0	5	0	0	
STONEVILLE *	60	32	70	27	46	4	0.00	-1.27	0.00	3.44	58	0.00	0	52	41	0	5	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: Following a few days of wintry weather, mild, dry conditions returned to the region. Temperatures climbed to above-normal levels, aiding winter wheat development.

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