

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

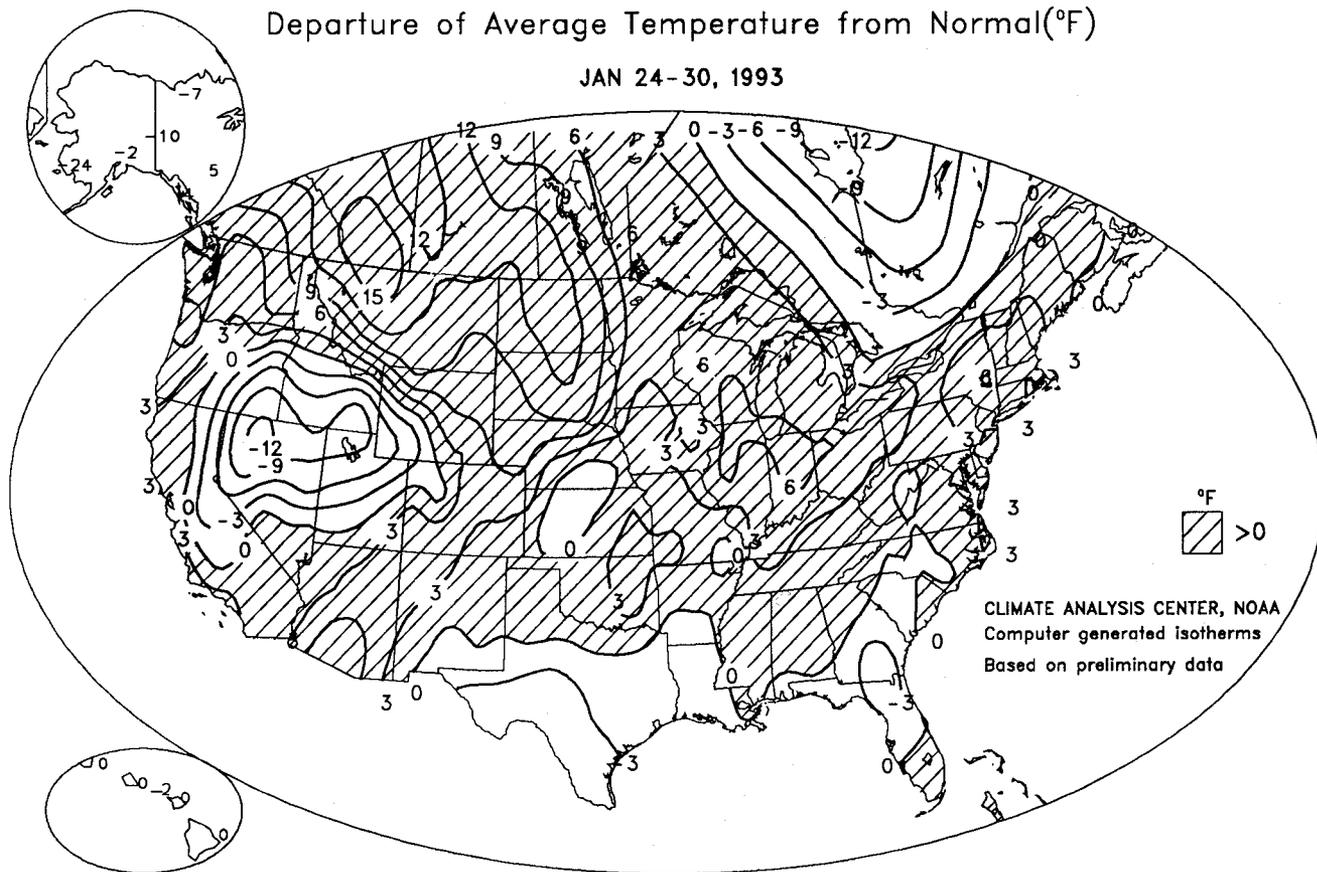
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Washington, D.C.

February 2, 1993

Departure of Average Temperature from Normal(°F)

JAN 24-30, 1993



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

HIGHLIGHTS

January 24 - 30, 1993

Strong storms clipped the **Pacific Northwest** and **Florida**, but most of the Nation observed tranquil, mild weather. Exceptions included the **West's interior valleys** (up to 13°F below normal), the **Gulf Coast** region (up to 4°F below normal), and the **Northeast** (late-week arctic outbreak). Early in the week, a cold front pressed through the **Southern and Eastern States**, generating thunderstorms and leaving high winds in its wake. More than 1 inch of rain fell in the **southern Appalachians**, and strong thunderstorm winds buffeted the **Carolinas**. Post-frontal winds gusted to 56 mph in **Elkins, WV**. Meanwhile, very heavy rains developed in **western Washington**. Nearly 6 inches of rain drenched **Quillayute, WA**. Similar conditions prevailed in **Florida** as a strong storm churned across the State. Rainfall locally topped 4 inches in **eastern Florida**, and northeasterly winds

(Continued to back cover)

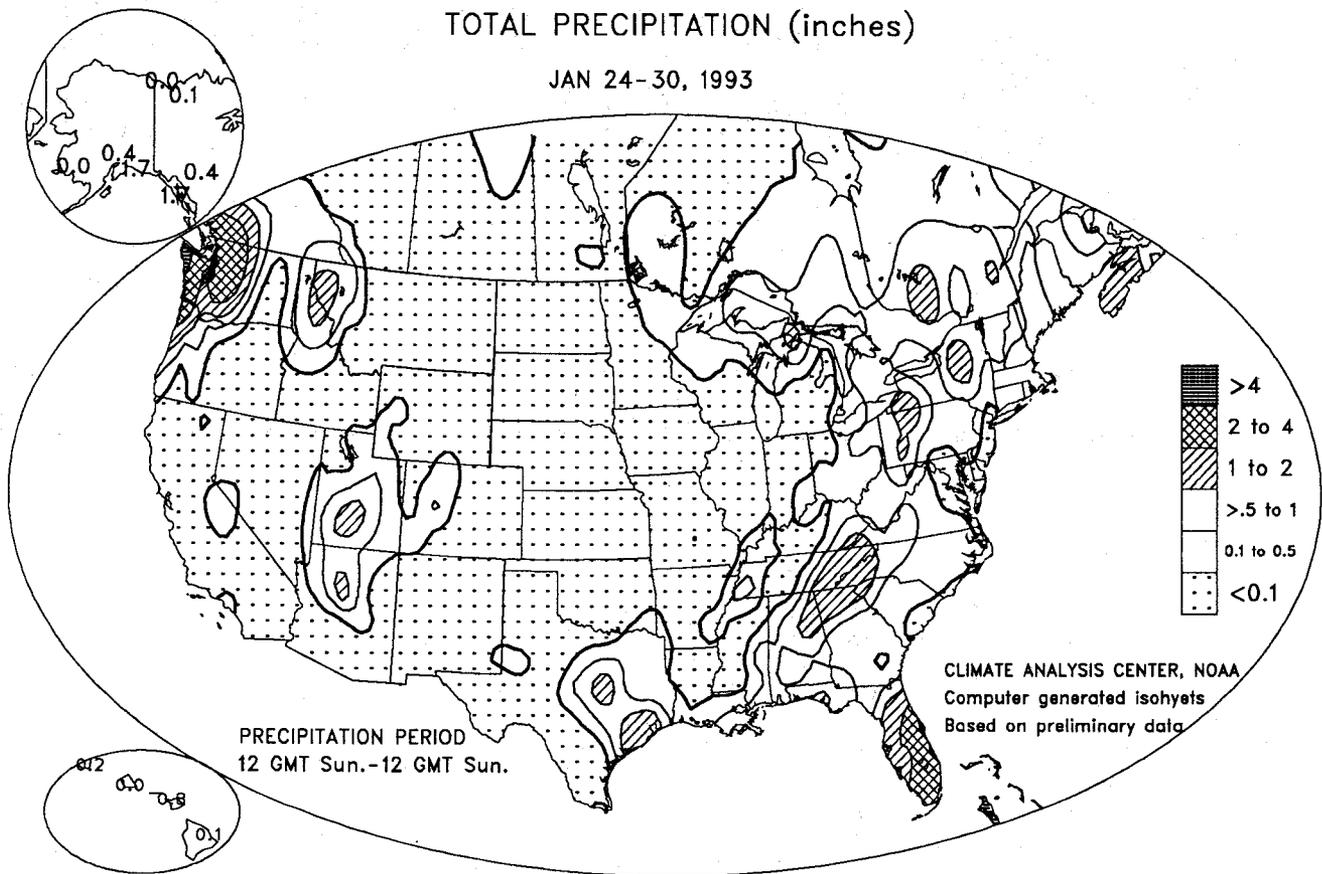
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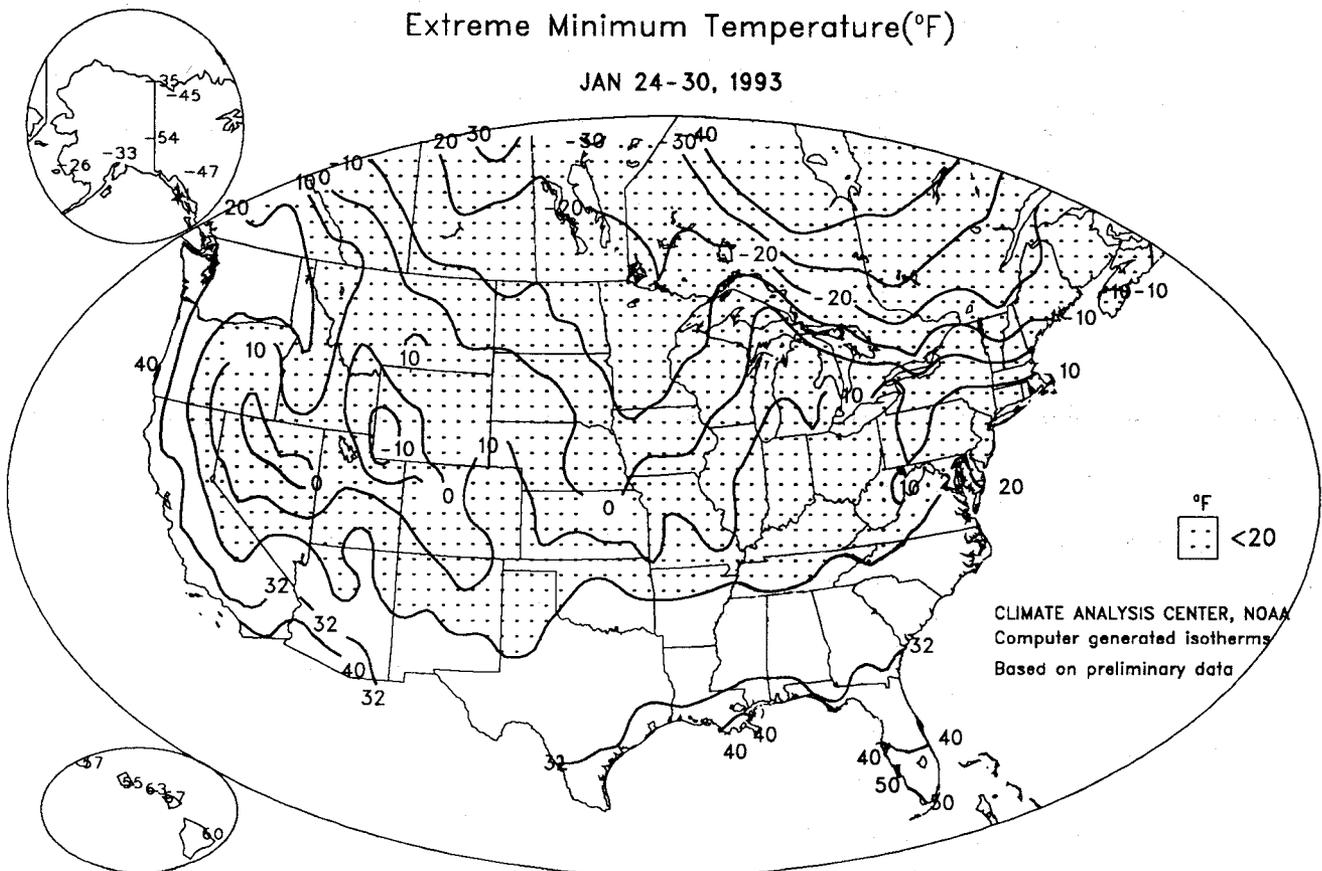
TOTAL PRECIPITATION (inches)

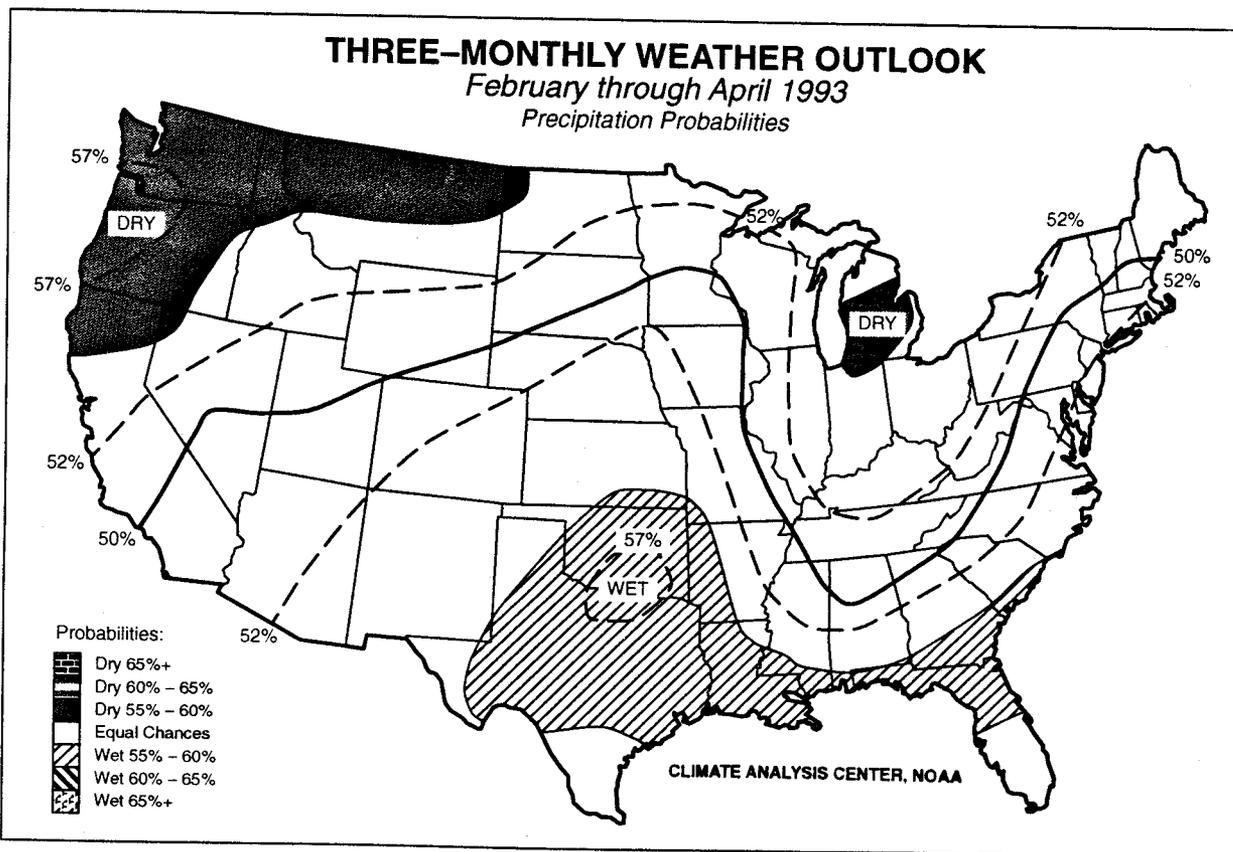
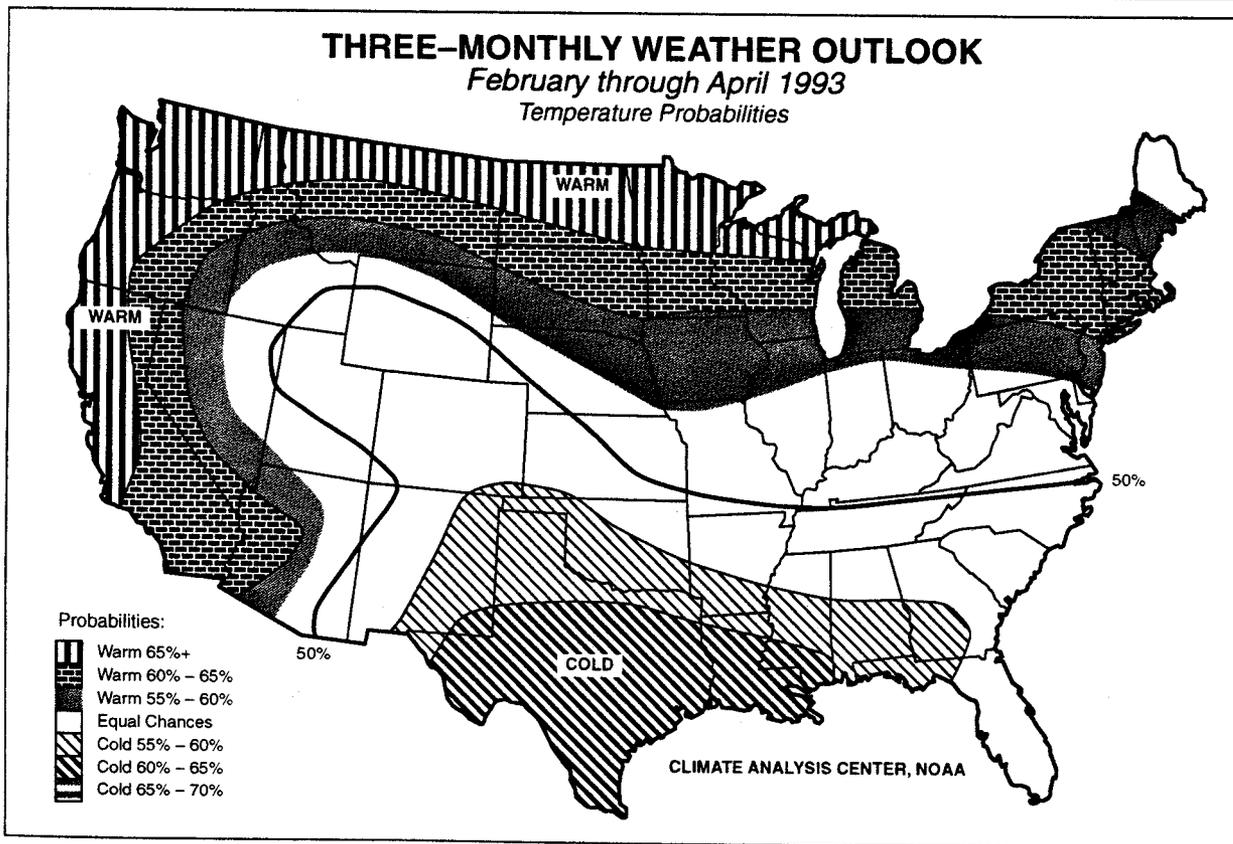
JAN 24-30, 1993



Extreme Minimum Temperature(°F)

JAN 24-30, 1993





For information on the techniques that the Climate Analysis Center's Prediction Branch uses to prepare the long-range outlooks, see an article by A. J. Wagner entitled "Medium- and Long-Range Forecasting," published by the American Meteorological Society in its journal, *Weather and Forecasting*, Sept. 1989, pp. 413-426. For information on subscribing to their 30- and 90-day outlooks, write to: Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

National Weather Data for Selected Cities

Weather Data for the Week Ending January 30, 1993

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	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	59	29	64	24	44	1	.7	-.5	.7	11.4	114	6.1	121	85	32	0	6	1	1	
MOBILE	61	38	68	32	50	1	.7	-.7	.7	13.3	135	8.0	181	78	37	0	1	3	1	
MONTGOMERY	62	34	67	28	48	1	.3	-.3	.3	12.5	141	4.7	117	82	32	0	3	1	0	
AK ANCHORAGE	18	4	30	-14	11	3	.3	.1	.2	1.6	91	.9	126	92	77	0	7	3	0	
BARROW	-23	-38	-14	-48	-31	-15	.1	.0	.0	.7	189	.5	188	73	62	0	7	2	0	
FAIRBANKS	-10	-28	13	-49	-19	-9	.1	.0	.1	3.6	289	2.4	454	80	62	0	7	2	0	
JUNEAU	31	16	46	3	24	1	3.4	2.6	1.4	12.7	156	7.0	197	98	75	0	5	5	2	
KODIAK	33	24	40	10	29	2	2.1	.8	1.1	7.8	70	3.0	53	91	69	0	6	5	2	
NOME	-25	-36	-18	-45	-30	-36	.0	-.2	.0	2.4	177	1.1	148	74	65	0	7	0	0	
AZ PHOENIX	73	51	77	44	62	9	T	-.1	T	8.3	552	5.3	761	64	26	0	0	0	0	
PRESCOTT	56	27	60	20	41	3	.1	-.1	.1	6.6	321	4.6	485	86	35	0	6	2	0	
TUCSON	70	46	72	39	58	6	T	-.2	T	8.3	481	4.8	617	74	25	0	0	1	0	
YUMA	71	53	77	51	62	5	.0	-.1	.0	4.6	662	1.6	466	49	24	0	0	0	0	
AR FORT SMITH	53	25	64	20	39	1	.0	-.4	.0	9.5	208	4.1	229	93	27	0	7	0	0	
CA BAKERSFIELD	52	32	60	21	42	2	T	-.9	T	8.3	104	3.7	99	58	32	0	4	0	0	
EUREKA	55	39	59	33	47	-2	.0	-.2	.0	3.7	238	1.9	206	98	69	0	0	0	0	
FRESNO	57	41	65	38	49	1	T	-1.5	T	16.5	127	7.2	106	93	69	0	0	1	0	
LOS ANGELES	52	39	58	33	46	-1	.0	-.5	.0	7.8	218	5.1	261	95	66	0	0	0	0	
REDDING	72	51	81	48	61	5	.2	-.5	.2	14.3	314	10.2	347	77	29	0	0	1	0	
SACRAMENTO	64	34	67	29	49	1	.0	-1.9	.0	20.7	135	10.4	125	81	30	0	5	0	0	
SAN DIEGO	57	38	64	33	48	1	T	-.9	T	13.6	200	8.6	221	94	53	0	0	0	0	
SAN FRANCISCO	71	48	76	44	60	2	.0	-.5	.0	11.0	324	8.5	418	86	36	0	0	0	0	
CO DENVER	61	43	65	40	52	3	.0	-1.0	.0	17.3	214	11.3	251	88	47	0	0	0	0	
GRAND JUNCTION	46	22	61	17	34	4	.0	-.1	.0	.9	94	.3	53	84	36	0	7	0	0	
PUEBLO	42	20	50	6	31	4	T	-.1	T	1.6	138	1.3	214	92	46	0	7	0	0	
CT BRIDGEPORT	48	16	60	9	32	1	T	-.1	T	.9	173	.5	188	93	38	0	7	0	0	
HARTFORD	40	26	52	20	33	4	.3	-.4	.2	6.8	100	2.5	81	66	39	0	7	2	0	
DC WASHINGTON	39	22	53	15	30	5	.2	-.5	.2	6.8	90	2.5	73	74	33	0	7	1	0	
FL APALACHICOLA	47	27	59	22	37	2	T	-.6	T	5.8	99	2.9	109	69	35	0	6	1	0	
DAYTONA BEACH	62	44	69	39	53	0	1.3	.5	.7	8.3	120	6.8	198	--	--	0	0	3	1	
JACKSONVILLE	68	46	78	36	57	-1	2.1	1.5	.8	4.0	88	3.5	152	99	60	0	0	3	2	
KEY WEST	63	39	76	31	51	-3	.5	-.2	.4	4.5	85	3.9	137	94	51	0	2	3	0	
MIAMI	75	66	79	61	71	1	1.2	.8	.8	6.6	197	6.5	395	85	60	0	0	3	1	
ORLANDO	76	62	79	54	69	2	.5	.1	.3	7.0	183	5.1	256	87	57	0	0	3	0	
TALLAHASSEE	70	50	79	39	60	0	1.5	1.0	.9	5.8	145	4.9	236	96	54	0	0	3	1	
TAMPA	63	40	72	29	51	-1	.8	-.3	.8	11.0	121	9.6	214	87	41	0	1	1	1	
WEST PALM BEACH	71	--	77	--	--	--	1.1	.5	.6	4.6	109	3.6	175	95	53	0	1	3	1	
GA ATLANTA	74	59	79	51	67	1	2.0	1.4	1.8	9.7	200	7.9	301	93	59	0	0	3	1	
AUGUSTA	57	34	63	29	45	3	.4	-.7	.4	10.3	115	3.9	83	72	37	0	2	1	0	
MACON	60	31	72	26	46	0	.4	-.5	.4	8.0	114	5.8	151	82	32	0	4	1	0	
SAVANNAH	60	33	68	26	47	0	.2	-.8	.2	8.6	105	5.5	132	80	32	0	4	1	0	
HI HILO	60	38	73	32	49	-1	.3	-.5	.3	7.0	121	5.5	184	87	35	0	1	1	0	
HONOLULU	81	63	84	60	72	1	.1	-2.1	.1	19.2	88	2.2	25	91	55	0	0	1	0	
KAHULUI	81	63	83	56	72	-1	T	-.8	T	7.0	98	.5	12	91	57	0	0	0	0	
LIHUE	82	62	85	58	72	1	.8	-.1	.8	4.2	63	1.7	44	91	51	0	0	1	1	
ID BOISE	78	63	82	58	71	0	.2	-1.1	.2	23.0	200	.8	13	87	59	0	0	1	0	
LEWISTON	31	22	35	20	27	-4	T	-.3	T	2.6	88	1.7	104	98	73	0	7	1	0	
POCATELLO	46	34	52	27	40	7	T	-.3	T	.9	35	.6	41	74	49	0	3	0	0	
IL CHICAGO	26	3	30	-3	14	-10	T	-.3	T	4.1	207	2.3	216	94	64	0	7	0	0	
MOLINE	39	18	56	9	29	8	T	-.3	T	6.3	161	3.8	244	81	44	0	7	1	0	
PEORIA	34	16	44	5	25	5	.0	-.3	.0	5.9	171	2.0	125	82	51	0	7	0	0	
QUINCY	42	17	54	8	29	8	.0	-.3	.0	6.6	183	3.6	228	86	46	0	7	0	0	
ROCKFORD	39	18	44	7	29	5	.0	-.3	.0	4.2	139	2.2	169	83	49	0	7	0	0	
SPRINGFIELD	32	15	39	7	24	5	T	-.2	T	5.8	177	2.4	176	86	52	0	7	1	0	
IN EVANSVILLE	41	22	50	12	31	7	.0	-.3	.0	6.3	174	4.0	261	84	49	0	7	0	0	
FORT WAYNE	46	25	61	17	36	5	.7	-.0	.7	5.3	84	3.6	125	83	34	0	6	1	1	
INDIANAPOLIS	38	21	45	14	29	6	.3	-.2	.3	7.6	170	4.9	244	88	54	0	7	2	0	
SOUTH BEND	41	23	53	15	32	6	.2	-.4	.2	5.1	92	3.2	126	84	46	0	7	1	0	
IA DES MOINES	40	21	56	15	30	7	.1	-.5	.0	7.4	139	3.4	141	86	46	0	7	4	0	
SIOUX CITY	33	12	44	-2	22	3	T	-.2	T	3.6	181	1.6	169	83	56	0	7	0	0	
WATERLOO	32	8	42	-4	20	3	T	-.1	T	1.5	112	.7	119	97	65	0	7	0	0	
KS CONCORDIA	29	8	43	-5	18	4	T	-.2	T	2.1	112	.5	66	88	62	0	7	0	0	
DODGE CITY	35	14	42	1	24	-2	.0	-.0	.0	2.4	188	1.1	181	87	63	0	7	0	0	
GOODLAND	38	19	44	12	29	-1	.0	-.1	.0	1.9	210	1.0	250	90	52	0	7	0	0	
TOPEKA	42	20	49	13	31	3	.0	-.1	.0	.4	60	.3	83	91	59	0	7	0	0	
WICHITA	--	16	--	7	--	--	.0	-.2	.0	3.3	155	1.3	149	94	53	0	7	0	0	
KY BOWLING GREEN	42	20	52	4	31	1	.0	-.1	.0	2.1	130	.9	147	90	52	0	7	0	0	
LEXINGTON	50	23	62	18	37	3	.6	-.4	.6	5.8	65	2.8	63	96	40	0	7	1	1	
LOUISVILLE	47	22	60	14	35	3	.3	-.5	.3	4.2	58	2.4	70	83	35	0	7	1	0	
LA BATON ROUGE	50	25	62	16	38	5	.8	.0	.8	5.1	76	3.5	108	85	34	0	6	1	1	
LAKE CHARLES	62	38	68	32	50	-1	.2	-.8	.2	18.0	191	13.3	300	82	32	0	1	2	0	
NEW ORLEANS	61	38	67	31	49	-1	.7	-.8	.1	10.6	112	6.8	152	81	40	0	1	2	0	
SHREVEPORT	61	44	68	39	53	0	.7	-.5	.4	11.9	118	6.2	130	81	42	0	0	3	0	
	57	34	64	27	46	-1	T	-.9	T	10.5	134	4.6	119	81	29	0	4	1	0	

Based on 1951-80 normals.

Weather Data for the Week Ending January 30, 1993

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN. SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM		AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE
															OR MORE				OR MORE
ME CARIBOU	20	4	39	-17	12	2	.5	.0	.3	3.6	68	2.1	91	81	58	0	7	4	0
PORTLAND	34	15	46	-6	25	3	.2	.6	.2	4.5	56	2.4	66	87	39	0	7	2	0
MD BALTIMORE	45	24	59	19	34	2	T	.6	T	7.3	117	2.7	92	80	43	0	7	1	0
SALISBURY	48	27	65	17	38	3	.1	.7	.1	9.6	137	4.1	125	84	41	0	6	1	0
MA BOSTON	40	25	54	11	32	3	.1	.7	.1	10.2	123	2.0	51	72	34	0	6	2	0
CHATHAM	41	26	50	16	33	3	.4	.5	.2	8.9	97	1.8	44	78	49	0	6	3	0
MI ALPENA	30	11	37	3	20	3	.2	.2	.2	2.5	70	1.3	78	89	59	0	7	3	0
DETROIT	36	20	44	10	28	5	.3	.2	.1	3.9	146	3.9	218	82	48	0	7	3	0
FLINT	33	19	38	13	26	5	.1	.2	.1	4.7	135	2.7	180	82	55	0	7	3	0
GRAND RAPIDS	33	19	37	13	26	4	.1	.3	.2	7.5	167	4.2	219	88	61	0	7	3	0
HOUGHTON LAKE	30	13	33	5	21	5	.3	.0	.2	4.0	120	2.0	138	91	68	0	7	5	0
LANSING	33	18	37	9	25	5	.1	.2	.1	5.2	128	3.0	188	82	52	0	7	2	0
MARQUETTE	26	8	38	0	17	5	.5	.1	.2	4.9	111	2.4	124	89	66	0	7	5	0
MUSKEGON	34	20	39	9	27	4	.2	.3	.2	5.3	108	2.6	113	86	60	0	7	2	0
SAULT ST. MARIE	25	4	33	-6	14	2	.8	.4	.2	5.7	122	2.5	106	90	67	0	7	6	0
MN ALEXANDRIA	23	-2	36	-10	11	5	T	.2	T	1.8	112	.9	106	92	68	0	7	0	0
DULUTH	22	0	41	-13	11	4	.3	.1	.3	3.0	127	1.8	160	86	55	0	7	4	0
INT'L FALLS	19	-6	38	-22	6	6	.4	.2	.2	2.4	137	.7	81	87	57	0	7	3	0
MINNEAPOLIS	27	3	39	-10	15	3	.1	.1	.1	2.2	138	1.2	150	87	61	0	7	2	0
ROCHESTER	24	1	37	-9	13	3	T	.2	T	2.5	147	1.1	144	90	70	0	7	1	0
MS GREENWOOD	57	30	68	23	43	0	T	.1	T	8.8	84	3.2	63	91	33	0	5	1	0
JACKSON	61	34	67	28	48	2	.2	.8	.2	9.1	89	4.7	98	84	30	0	2	1	0
MERIDIAN	61	33	67	29	47	1	1.5	.5	1.5	17.3	165	11.4	235	83	29	0	4	1	1
MO CAPE GIRARDEAU	46	23	59	13	35	3	-	.4	.2	7.0	106	5.2	183	88	37	0	6	1	0
COLUMBIA	43	19	54	8	31	3	.0	.4	.0	5.0	136	2.4	140	82	37	0	7	0	0
KANSAS CITY	38	17	48	6	27	-1	.0	.3	.0	5.8	221	2.0	170	88	51	0	7	0	0
SAINT LOUIS	44	--	57	--	--	-	-	.4	.0	7.2	187	3.5	212	81	35	0	7	0	0
SPRINGFIELD	49	22	62	13	35	4	.0	.3	.0	7.0	173	2.8	181	72	29	0	7	0	0
MT BILLINGS	41	26	48	15	34	12	.1	.1	.1	1.0	58	.5	51	71	49	0	5	1	0
GLASGOW	31	9	43	-4	20	11	T	.1	T	.4	63	.2	54	90	66	0	7	0	0
GREAT FALLS	43	26	50	13	34	14	.1	.1	.0	1.5	87	1.2	126	85	53	0	5	2	0
HAVRE	36	16	41	-4	26	14	.0	.1	.0	.5	47	.7	0	82	67	0	6	0	0
HELENA	40	21	51	7	31	11	T	.1	T	1.4	109	.8	118	91	57	0	7	0	0
KALISPELL	37	27	41	10	32	11	.6	.3	.3	3.7	118	1.7	110	100	86	0	6	5	0
MILES CITY	35	10	43	-3	23	8	T	.1	T	1.0	82	.6	102	94	65	0	7	0	0
MISSOULA	37	24	46	14	31	8	.1	.2	.1	1.7	66	.9	66	95	70	0	7	1	0
NE GRAND ISLAND	32	9	39	-5	20	-1	T	.1	T	1.8	155	.9	187	93	68	0	7	0	0
LINCOLN	32	5	41	-8	19	-1	T	.2	T	1.9	154	1.1	173	92	61	0	7	0	0
NORFOLK	32	8	44	-9	20	2	T	.1	T	2.3	209	1.3	281	92	63	0	7	0	0
NORTH PLATTE	39	12	48	1	25	3	.0	.1	.0	1.1	143	.7	211	95	60	0	7	0	0
OMAHA	33	12	45	-4	23	2	T	.2	T	2.1	144	1.1	149	80	55	0	7	0	0
SCOTTSBLOFF	42	21	52	10	32	6	T	.1	T	1.1	117	.4	95	92	52	0	7	0	0
VALENTINE	42	13	53	4	28	9	T	.1	T	.4	57	.2	81	87	48	0	7	0	0
NV ELY	32	3	36	-4	17	-8	T	.2	T	3.4	240	2.5	361	85	55	0	7	0	0
LAS VEGAS	58	36	62	31	47	1	F	.1	T	3.3	437	1.6	352	77	28	0	1	1	0
RENO	38	20	44	15	29	-5	T	.3	T	4.3	181	2.4	206	94	59	0	7	0	0
WINNEMUCCA	33	6	36	-3	19	-12	.0	.2	.0	3.0	181	2.0	243	90	59	0	7	0	0
NH CONCORD	35	14	50	-3	25	5	.2	.4	.2	3.6	58	1.3	48	85	34	0	7	2	0
NJ ATLANTIC CITY	46	23	57	16	34	2	T	.7	T	6.6	96	2.7	79	78	33	0	6	1	0
NM ALBUQUERQUE	52	25	58	18	39	2	.0	.1	.0	2.1	247	.9	254	78	31	0	7	0	0
CLOVIS	52	25	65	18	39	1	T	.1	T	.8	76	.5	123	80	29	0	6	0	0
ROSWELL	54	29	65	21	42	2	T	.1	T	1.3	181	.7	211	80	32	0	4	1	0
NY ALBANY	36	18	50	5	27	6	.1	.4	.1	5.2	99	2.2	94	81	42	0	7	3	0
BINGHAMTON	31	16	44	10	23	3	.4	.1	.3	5.1	97	2.2	89	88	56	0	7	4	0
BUFFALO	36	19	49	15	27	4	.9	.2	.5	8.1	129	4.3	148	86	50	0	7	5	0
NEW YORK	43	28	55	22	36	4	T	.6	T	8.5	128	3.1	102	77	43	0	6	1	0
ROCHESTER	33	17	44	10	25	2	.5	.0	.2	5.2	108	2.2	100	93	53	0	7	3	0
SYRACUSE	35	17	45	5	26	3	.6	.0	.3	5.3	93	2.7	108	91	54	0	6	5	0
NC ASHEVILLE	51	26	62	22	38	2	.3	.6	.6	7.5	120	3.8	124	80	31	0	7	1	1
CHARLOTTE	54	31	64	25	43	2	.3	.5	.3	8.8	124	6.0	163	68	27	0	5	1	0
GREENSBORO	50	26	57	19	38	1	.4	.4	.4	6.1	91	3.7	108	71	31	0	6	1	0
HATTERAS	56	41	71	38	49	4	.2	.8	.2	11.5	127	5.9	125	83	40	0	0	1	0
NEW BERN	57	33	71	26	45	1	.3	.6	.3	8.9	118	5.9	151	83	34	0	4	1	0
RALEIGH	55	29	68	22	42	2	.3	.5	.3	6.9	106	4.5	132	78	35	0	6	1	0
WILMINGTON	57	33	73	20	45	0	.1	.8	.1	10.0	144	5.6	158	80	31	0	3	1	0
ND BISMARCK	34	4	43	-15	19	12	T	.1	T	.8	79	.3	62	89	65	0	7	1	0
FARGO	26	0	41	-14	13	8	.1	.0	.1	1.4	119	.8	152	88	70	0	7	2	0
GRAND FORKS	25	-1	40	-14	12	10	.1	.1	.0	1.0	78	.3	45	88	69	0	7	2	0
WILLISTON	30	5	40	-9	18	10	T	.1	T	.7	70	.2	49	90	69	0	7	0	0
OH AKRON-CANTON	38	20	50	16	29	4	.6	.0	.5	6.2	122	4.0	163	89	49	0	7	2	1
CINCINNATI	43	22	56	13	32	3	.6	.1	.6	5.2	87	3.9	128	86	42	0	6	1	1
CLEVELAND	41	22	53	15	32	6	.8	.3	.8	8.8	171	4.5	187	85	47	0	7	2	1
COLUMBUS	42	21	53	15	32	4	.6	.0	.6	5.5	105	4.2	157	85	41	0	7	1	1
DAYTON	41	22	53	16	31	5	.7	.2	.7	5.4	109	3.8	154	87	46	0	7	1	1

Based on 1951-80 normals.

Weather Data for the Week Ending January 30, 1993

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE		
TOLEDO	38	20	45	9	29	6	.2	-1.2	.2	6.7	147	3.1	160	84	47	0	7	7	2	0	
YOUNGSTOWN	37	20	50	5	29		.5	-1.1	.4	7.2	135	3.7	142	95	51	0	7	4	0	0	
OK OKLAHOMA CITY	52	27	64	22	39		.5	-1.1	.4	4.8	228	1.7	181	82	31	0	6	6	0	0	
TULSA	53	25	65	17	39		.0	-1.3	.0	7.5	242	2.3	175	79	30	0	6	0	0	0	
OR ASTORIA	53	43	57	39	48		3.1	1.1	1.1	12.2	55	6.2	60	99	77	0	0	5	3	0	
BURNS	21	0	31	-9	11	-18	.0	-1.3	.0	2.9	94	1.7	114	97	67	0	7	1	0	0	
MEDFORD	48	31	62	28	40		.1	-1.7	.0	6.2	91	2.7	81	98	67	0	5	0	0	0	
PENDLETON	50	33	62	25	41		.1	-1.3	.1	2.5	75	1.7	104	92	55	0	3	3	0	0	
PORTLAND	53	37	59	31	45		.3	-1.9	.2	8.1	65	3.1	51	98	71	0	1	4	0	0	
SALEM	55	38	63	28	47		.3	-1.1	.3	12.6	90	4.8	70	93	63	0	2	2	0	0	
PA ALLENTOWN	40	21	57	17	30		.1	-1.6	.1	5.2	76	2.0	61	81	39	0	7	1	0	0	
ERIE	39	23	53	16	30		.2	-1.4	.2	6.6	120	3.3	143	81	46	0	7	3	1	0	
HARRISBURG	40	23	54	19	32		.2	-1.4	.2	3.6	59	1.6	55	78	36	0	7	1	0	0	
PHILADELPHIA	45	27	58	23	36		.1	-1.6	.1	6.6	101	2.0	64	76	34	0	7	3	0	0	
PITTSBURGH	40	22	50	17	31		.5	-1.1	.5	5.6	105	2.7	99	93	45	0	7	1	0	0	
SCRANTON	38	22	52	17	30		.3	-1.2	.3	4.9	105	2.0	91	82	42	0	7	2	0	0	
RI PROVIDENCE	41	22	54	14	31		.2	-1.6	.2	9.1	109	2.3	58	79	36	0	7	2	0	0	
SC CHARLESTON	59	38	75	31	49	1	.1	-1.7	.1	10.4	165	8.9	280	83	33	0	1	1	0	0	
COLUMBIA	59	38	75	31	49	1	.1	-1.7	.1	10.8	139	7.5	178	81	31	0	5	1	0	0	
FLORENCE	61	41	75	31	49	1	.1	-1.7	.1	10.5	164	6.8	199	71	29	0	4	1	0	0	
GREENVILLE	54	28	64	22	41	0	.4	-1.5	.4	12.3	150	7.2	174	74	27	0	6	1	0	0	
SD ABERDEEN	34	5	43	-13	19	11	.1	-1.1	.1	.7	75	.5	111	92	69	0	7	0	0	0	
HURON	36	9	47	-4	22	11	.1	-1.1	.1	.6	73	.3	84	92	64	0	7	0	0	0	
RAPID CITY	40	17	48	8	29	7	.1	-1.1	.1	1.3	158	.7	184	91	58	0	7	0	0	0	
SIoux FALLS	31	5	38	-9	18	5	.1	-1.1	.1	1.5	131	.7	146	89	67	0	7	0	0	0	
TN CHATTANOOGA	56	29	65	24	43	4	1.5	.3	1.5	10.7	105	5.2	102	92	31	0	5	1	1	1	
KNOXVILLE	51	27	60	25	39	1	1.2	.2	1.2	10.8	119	4.1	91	81	40	0	7	1	1	1	
MEMPHIS	56	31	64	23	43	4	.9	-1.1	.9	7.2	77	3.7	83	73	27	0	5	1	1	1	
NASHVILLE	53	31	66	23	43	4	.5	-1.5	.5	5.7	63	2.8	64	78	28	0	7	1	0	0	
TX ABILENE	54	32	63	25	43	-1	.2	-1.1	.1	1.9	107	.9	97	78	35	0	5	2	0	0	
AMARILLO	53	23	62	18	38	2	.0	-1.1	.0	1.1	119	.7	153	87	35	0	7	0	0	0	
AUSTIN	58	38	63	34	48	-2	.6	-2.2	.4	6.7	189	3.4	223	86	43	0	0	2	1	0	
BEAUMONT	62	40	69	34	51	-1	.6	-1.3	.5	16.3	185	9.9	250	88	39	0	0	2	1	0	
BROWNSVILLE	67	47	72	37	57	-4	.1	-1.3	.1	2.7	116	1.8	150	93	50	0	0	2	0	0	
CORPUS CHRISTI	63	43	70	30	53	-2	.1	-1.4	.1	1.4	51	.4	28	86	44	0	1	2	0	0	
DEL RIO	59	38	63	30	48	-3	.1	-1.1	.1	.9	89	.5	100	66	32	0	2	1	0	0	
EL PASO	56	35	61	28	45	0	.1	-1.1	.1	2.7	374	1.4	386	78	34	0	3	0	0	0	
FORT WORTH	55	35	65	30	45	1	.4	-1.0	.2	6.0	178	1.7	105	86	37	0	2	2	0	0	
GALVESTON	60	47	71	43	54	0	1.0	.4	1.0	13.1	202	9.3	320	83	48	0	0	3	1	1	
HOUSTON	61	40	66	32	50	-2	.9	-1.2	.8	9.3	130	5.8	172	91	39	0	2	3	1	1	
LUBBOCK	55	27	70	17	41	1	.1	-1.1	.1	2.4	335	1.0	294	81	28	0	5	0	0	0	
MIDLAND	52	30	64	22	41	-3	.2	-1.1	.2	1.9	235	1.3	334	86	40	0	5	2	0	0	
SAN ANGELO	52	32	63	25	42	-4	.1	-1.1	.1	1.7	137	.9	154	87	46	0	5	2	0	0	
SAN ANTONIO	60	38	64	28	49	-2	.1	-1.3	.1	4.0	141	1.8	122	82	34	0	1	2	0	0	
VICTORIA	62	39	68	29	50	-2	.5	-1.4	.4	5.3	135	3.2	178	93	43	0	1	3	0	0	
WACO	55	34	64	27	45	-2	1.2	-.8	.8	5.8	166	2.5	153	88	41	0	3	2	1	1	
WICHITA FALLS	56	31	67	27	43	2	.1	-1.2	.1	3.4	165	1.2	137	83	32	0	5	0	0	0	
UT CEDAR CITY	43	18	51	17	31	0	.5	-.3	.5	3.1	246	2.1	338	93	45	0	7	2	0	0	
SALT LAKE CITY	31	12	37	4	22	-8	.1	-1.2	.1	4.0	151	2.9	225	97	65	0	7	3	0	0	
VT BURLINGTON	30	11	44	-10	21	5	.1	-1.3	.1	2.8	68	1.9	105	90	45	0	7	4	0	0	
VA NORFOLK	53	33	69	26	43	3	.2	-1.7	.2	8.0	119	4.9	137	76	38	0	3	1	0	0	
RICHMOND	53	27	68	22	40	4	.2	-1.6	.2	7.3	112	4.5	144	76	32	0	6	1	0	0	
ROANOKE	48	24	61	19	36	0	.4	-1.2	.4	6.4	114	3.8	139	69	29	0	7	1	0	0	
WA QUILLAYUTE	51	42	59	34	47	7	5.7	2.7	2.6	17.7	56	7.9	57	98	80	0	0	6	2	2	
SEATTLE-TACOMA	53	42	55	34	47	8	1.9	-.7	1.0	8.1	67	4.1	70	97	72	0	0	4	2	0	
SPOKANE	39	30	42	25	35	8	.1	-1.4	.1	3.6	73	1.4	59	97	74	0	4	2	0	0	
YAKIMA	37	28	46	21	33	3	.1	-1.3	.1	3.2	122	.9	66	98	77	0	5	2	0	0	
WV BECKLEY	43	21	56	16	32	2	.3	-1.5	.3	5.5	86	1.6	48	82	36	0	7	1	0	0	
CHARLESTON	49	23	64	15	36	3	.3	-1.5	.3	5.4	81	1.9	56	86	33	0	7	1	0	0	
HUNTINGTON	49	23	63	16	36	2	.5	-1.3	.5	5.1	81	2.2	71	87	32	0	7	1	0	0	
PARKERSBURG	44	21	59	15	33	1	.4	-1.2	.4	4.3	79	2.3	84	85	35	0	7	1	0	0	
WI GREEN BAY	30	10	39	-1	20	6	.2	-1.1	.1	3.7	146	1.4	125	86	55	0	7	3	0	0	
LACROSSE	28	7	40	-1	18	3	.1	-1.1	.1	2.8	140	1.2	132	82	54	0	7	2	0	0	
MADISON	33	12	41	3	23	7	.1	-1.1	.1	4.0	155	1.6	148	77	51	0	7	3	0	0	
MILWAUKEE	33	15	40	5	24	5	.1	-1.1	.1	5.1	142	2.6	168	78	47	0	7	1	0	0	
WAUSAU	31	3	47	-9	17	6	.2	-1.1	.2	3.3	156	1.6	174	91	66	0	7	2	0	0	
WY CASPER	37	22	41	14	29	6	.1	-1.1	.1	1.6	165	.7	153	74	50	0	7	0	0	0	
CHEYENNE	42	22	53	11	32	5	.1	-1.1	.1	.8	114	.4	100	78	35	0	7	1	0	0	
LANDER	29	10	44	1	20	-1	.1	-1.1	.1	1.8	184	1.0	211	89	62	0	7	0	0	0	
SHERIDAN	40	19	53	4	29	9	.2	-.0	.2	1.6	114	.4	54	89	56	0	7	1	0	0	

Based on 1951-80 normals.

HEATING DEGREE DAYS (Base 65° F)
January 24 - 30, 1993

(Cumulative totals and departures from normal are for the period July 1, 1992 - January 30, 1993)

Table with 12 columns: STATES AND STATIONS, WEEKLY TOTAL, WEEKLY DEPARTURE, CUMULATIVE TOTAL, CUMULATIVE DEPARTURE, CUMULATIVE DEP fm 91-92, STATES AND STATIONS, WEEKLY TOTAL, WEEKLY DEPARTURE, CUMULATIVE TOTAL, CUMULATIVE DEPARTURE, CUMULATIVE DEP fm 91-92. Rows list various states and stations with their corresponding heating degree day data.

Based on 1951-80 normals.

National Agricultural Summary

January 25 - 31, 1993

HIGHLIGHTS: Above-normal temperatures occurred across most of the Nation. Precipitation fell in the East during the early part of the week. The rest of the period was mainly dry, with some areas of heavy precipitation in southern Florida and the Northwest. The mild and dry conditions allowed late harvest of row crops across some areas of the Corn Belt, melted some of the winter wheat's snow cover, and allowed wet small grain and vegetable fields to dry.

SMALL GRAINS: Winter wheat condition was fair to good across the Nation. Although the mild weather reduced snow cover, it remained mostly adequate. The Texas crop was rated 66 percent (%) of normal compared with 79% of normal last year. The mild sunny weather improved the prospects of the small grain crops in the South. Disease and insect problems were increasing in Texas. The grazing in small grain fields increased as they dried.

COTTON: Cotton harvest wound up in the Southeast and Texas, with only a few scattered fields remaining too wet to harvest. Favorable conditions allowed the Oklahoma harvest to reach 90%. In Arkansas, farmers shredded cotton stalks.

OTHER FIELD CROPS: Mild conditions allowed late corn harvest to end in Iowa and advance in Indiana and Nebraska. Drier weather and mild temperatures allowed the soybean harvest to finish in the Southeast. Onion plantings were completed in Georgia. Texas spring onions in the Trans-Pecos region were transplanted. Rio Grande Valley onions progressed well. Tobacco bed preparation was winding down in Georgia and advanced in North Carolina. Some reseeding of tobacco beds due to water damage occurred in South Carolina. East Texas potato planting resumed with the favorable weather, while wet conditions continued to delay winter potato harvest in the San Jacinto area of California.

FRUIT AND NUTS: Oranges, lemons, and grapefruits were harvested in central and western Arizona. Rain slowed some harvest crews in Florida, and cool weather held back new growth in some orchards. Tangerines for fresh market and white grapefruit and oranges for processing were harvested in Florida. Drier conditions in California allowed lemon and

navel orange harvests to increase. Conditions were also favorable for the harvests of grapefruit and tangerines. Pruning of peach trees in Georgia was underway, while stone fruit buds in California were beginning to swell. Pecan harvest was virtually completed in Texas and Georgia, and active in eastern Arizona. Almond buds in California were beginning to swell.

VEGETABLES: Vegetable harvest in Arizona remained slow but was increasing as fields dried. Harvests of broccoli, cabbage, cauliflower, and lettuce advanced in western and central areas. Cloudy skies and rain occurred over the major vegetable areas of Florida. Wind and rain caused some fieldwork delays and crop damage in southeast Florida. Planting activities in the central part of the State increased. Major crops harvested included tomatoes, cabbage, peppers, and celery. The California broccoli harvest was near completion in Modesto. Harvest in the Westside area resumed as fields dried but remained stalled in the Visalia area due to wetness. Broccoli harvest advanced in the Riverside area. Cauliflower harvest continued in the Salinas-Watsonville and Santa Maria areas. Thinning of lettuce fields in the Westside area continued. Preparations for melon planting had begun in Texas.

PASTURES AND LIVESTOCK: The mild temperatures and dry weather brought welcomed relief to much of the Nation's livestock. The swings in temperatures and muddy conditions have caused some livestock problems in Indiana and Missouri. Pasture conditions improved in the South with the warm dry conditions. Supplemental feeding continued where pastures were not available. Nationally, hay supplies were adequate but some localized shortages were reported in Idaho and Texas. Early lambing and calving activities continued with no unusual problems reported.

State Summaries of Weather and Agriculture

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

ALABAMA: Rainfall none north, central; none to 0.08 in. south. Temperatures 5° below normal to 4° above north; 3° below normal to 2° above normal central; 4° below normal to 3° above normal south; Lows 17 to 28° north; 17 to 31° central; 27 to 36° south. Highs 60 to 65° north; 64 to 67° central; 64 to 67° south.

Primary activities: Harvesting timber; marketing cattle; maintaining farm records, land-use planning, management, repairing machinery, fences; general care of livestock, poultry, catfish.

ARIZONA: Sunny skies, warmer weather 24th to 25th, 28th statewide. Cloudy 26th to 27th, 29th. Light showers 27th southeast, rain 30th, north, central. Temperatures normal to 7° above normal. Extremes 10°; 65° higher elevations; 27°; 77° deserts.

Alfalfa fair to good; harvest light, all areas. Small grains planted 93%, 99% 1992, 98% avg.; stands established 87%, 92% 1992, 93% avg. Field activities remains slow, increasing as fields dry out. Broccoli, broccoflower, cabbage, cauliflower, lettuce, bok choy, cilantro, kale, parsley, napa, spinach, green onions available western, central areas. Also available west: Escarole, endive. Leeks, beets, dill, kohlrabi, radishes, rapini, mixed greens, turnips available, central. Citrus harvest continued central, western areas. Oranges, lemons, grapefruit, tangerines, tangelos. Pecans, tomatoes harvested east. Pasture, range conditions 99% of normal. Cattle, calves fair to good north, mostly good central, southeast. Stockwater, soil moisture, adequate to surplus statewide. Range feed supplies average north, average to above average central, southeast. Insect damage, light.

ARKANSAS: Mild, dry week, with temperatures slightly above normal. Extremes 8°; 69°. Rainfall none to 0.22 in.

Soil moisture supplies adequate to surplus. Wheat fair to good, improving with sunshine, dry weather. Early planted wheat continues to do better than late planted wheat. Cotton farmers destroying cotton stalks. Livestock good. Producers feeding hay, supplies adequate. Pastures good.

CALIFORNIA: High pressure brought a much-needed break from rain, snow. Nearly every station reported dry weather. Temperatures returned to near- or above normal. Persistent fog, low clouds developed in the central valley.

Wet soils hampered progress field activities most areas. Cold, hazy conditions slowed growth small grains, new alfalfa north, central. Standing water was a problem in low-lying

fields. Ground preparation, seeding underway again, south. Corn grain harvest resumed Riverside County. Small grains, forage grasses sprayed aerially, broadleaf weeds. Established alfalfa sprayed aphids, weeds, weevils. General ground preparation spring planted row crops gradually increasing. Fall planted sugar beets progressing normally. Dry conditions allowed pruning, floor clean-up. Spraying, fertilizing, fumigating for replants active. Grafting peaches, nectarines noted. Stone fruit, almond buds beginning to swell. Orange harvest picked up speed. Navel orange, lemon movement to market improved. Grapefruit, tangelos, tangerines harvested and packed. Kiwifruit movement dull. Broccoli light, variable quality both Salinas-Watsonville, Santa Maria. Broccoli harvesting Modesto winding down. Westside broccoli fields dried sufficiently to allow harvest to resume, fields Visalia still too wet to allow much activity. Broccoli harvesting Riverside. Cauliflower movements Salinas-Watsonville Santa Maria light, quality variable. Westside spring lettuce fields thinned. Cabbage harvested Riverside County, few fields Westside. San Jacinto potato fields too muddy harvest. Santa Maria celery, light, good quality. Processing spinach, onions, garlic progressed normally Visalia, warm weather, excellent soil moisture. Range, pasture conditions continued to improve. Pastures started to develop well, warmer weather. Grasses some areas not ready for grazing. Livestock good.

COLORADO: Clear to partly cloudy skies, seasonal temperatures dominated the weather through 27th with little or no precipitation at lower elevations. On 28th a cold front moved across eastern areas with cooler temperatures. Light rain, snow fell in the east, areas of fog in the San Luis Valley on 28th, 29th. On 30th, another system began to affect the southwest. Clouds in the west on 31st, little rain or snow at lower elevations although some mountain stations in the west received up to 6 in. snow. Temperatures mostly 2 to 5° below normal.

Care and feeding of livestock, attending farm, industry meetings were the major activities.

FLORIDA: Widespread rain entire State early week, dry weather midweek through weekend. Rain 0.50 to 1.50 in. northeast, 1.00 to 4.00 in. Peninsula. Temperatures 2 to 5° below normal north, 0 to 3° below normal central, near to slightly above normal extreme south. Scattered frost several nights north, lows, upper 20s to low 30s. Elsewhere, lows mid to upper 30s north central, low to mid 40s central, interior south, mostly low to mid 50s southeast. Highs 65 to 70° north, 70s central, near 80° south.

Soil moisture adequate to surplus throughout State. Sugarcane harvest active, planting virtually complete. Tobacco growers maintaining plant beds. Topdressing small grains, field preparation for corn, tobacco delayed by field conditions in some areas. Citrus very good to excellent. Moisture adequate to surplus, east, west coast wettest. Cool temperatures holding back new growth, some swelling buds, open bloom. Some harvest crews slowed by rain. Oranges, white grapefruit harvest active for processing. Temple, honey tangerines movement active for fresh use. Caretakers working to eliminate wet condition, cutting cover crops. Major vegetable producing areas; cloudy skies, rain, temperature 3 to 5° below normal central, north, 1 to 4° above normal Everglades, southeast. Southwest; gusty winds caused fieldwork delays, light plant damage. Rainfall 1.00 to 4.00 in. Everglades, east coast; 0.50 to 2.00 in. central, north. Planting activity central areas increasing. Volume leaders: Tomatoes, cabbage, peppers, squash, celery. Also available: Snap beans, carrots, chinese cabbage, sweet corn, cucumbers, eggplant, escarole, iceberg lettuce, romaine, specialty lettuces, potatoes, radishes, strawberries, cherry tomatoes. State's pastures fair to excellent. Pasture 5% poor, 30% fair, 60% good, 5% excellent. Moisture levels adequate to surplus. State's cattle herds fair to good.

GEORGIA: Mostly dry week, rain one day or less. Rainfall generally under 0.10 in., few spots 0.33 to 0.50 in. Temperatures 1 to 4° above normal north, 2 to 5° below normal central, south. Lows in the lower 20s mountains, upper teens in some normally colder locations, to upper 20s central, 30s south, low, middle 30s coast. Warmest temperatures lower 60s mountains, upper 60s south.

Fair weather during week allowed farmers to resume field operations. Some scattered fields of cotton, soybeans still remain to be harvested. A small acreage of pecans, also remains to be harvested. Onion plantings, tobacco bed preparation are winding down. Peach tree pruning is in full swing. Farmers made some strides toward land preparation during the week. Tobacco plants good, onions mostly fair to good. Small grains were in fair to good. Pastures poor to fair, cattle fair to mostly good, hogs good.

HAWAII: Weather sunny, cool, breezy. A cold front brought some cloudy skies, locally strong gusts, shower activity after midweek. Temperatures high 50s to mid 80s. Rainfall none to 2.10 in.

Favorable weather allowed farmers to continue normal field operations with the exception of spraying activities hampered by gusty winds. Soil moisture levels adequate, more rainfall would be beneficial. Irrigation necessary for areas with limited natural rainfall. Banana harvesting was near normal levels.

INDIANA: Temperatures 3 to 6° above normal. Highs 35 to 47°. Low temperatures 17 to 27°. Precipitation (water

equivalent) was negligible during the period with no measurable amounts for almost all of the State.

Increased problems in livestock due to changes in weather. Wheat above average condition for this time of year. Concerns, reports of stored corn going out of condition are becoming more evident. Some harvesting of corn was accomplished during the mild weather. Manure hauling is tough in some areas. Farm meetings are still being attended regularly.

IDAHO: Temperatures in State 10° below normal to 9° above normal. Precipitation fell across the State with the Panhandle receiving over 1.00 in. in some areas. In Benewah County, warmer weather caused some flooding.

Soil moisture very short Minidoka County, to surplus Washington County. Activities: Plowing snow off roads, marketing crops, repairing farm machinery, attending meetings, preparing taxes. Hay, roughage supplies short to adequate. Bonner County reported some calls for hay from small "hobby" farms, equine producers due to 35 days of below-freezing weather which used up some local hay supplies. Livestock activities: Cattle on winter hay, calving in progress, lambing activity commencing in the Panhandle of State. Livestock good.

ILLINOIS: Weather was dry for most of State with some welcomed sunshine on many days. Temperatures 3 to 8° above normal across northern areas, 1 to 5° above normal in south. Most of the State did not receive any measurable precipitation. A few light amounts of under 0.10 in. were recorded in the extreme north.

IOWA: A very mild, dry week excepting a brief intrusion of Arctic air on 29th. Temperatures 5 to 7° above normal. Extremes -16° Sibley 29th.; 53° Burlington 31st. Measurable precipitation limited to extreme northeast. Rainfall none to 0.04 in.; state average, a trace. Snowcover gone from southeast one-third of State; generally 2 to 6 in. elsewhere.

Mild, dry week allowed farmers to harvest virtually all the remaining corn.

KANSAS: Temperatures 0 to 5° above normal over State. No precipitation received. Temperatures moderated. Most areas normal or above. Temperatures upper 40s to mid 50s melting persistent ice, snow.

Welcome relief livestock producers, their animals. Temperatures in the root zone freezing or below keeping wheat development at a standstill.

KENTUCKY: Dry, warm. No significant precipitation. Maximum temperatures 3 to 6° above normal. Highs lower, mid 40s; minimum temperatures mid 20s, near normal.

Topsoil mostly adequate. Livestock satisfactory, feed requirements lessened by warmer weather. Mild temperature favorable for routine chores. Burley tobacco prices slightly lower, volume light. Burley cooperatives receipts 18.0 percent to date.

LOUISIANA: Temperatures 1.1° below to 0.5° above normal. Extremes 25°; 74°. Rainfall none north central, northeast to 0.46 in. southeast.

Farmers attending crop, production meetings in their areas across the State. Farm equipment repairs, maintenance continued in preparation for spring plowing, all other field activities. Maintenance of field drainage continued. Crop activities included crawfishing, inspections of wheat, hay fields for upcoming fertilization needs. Caring, tending of livestock continued.

MARYLAND & DELAWARE: MARYLAND: Precipitation 0.12 in. Temperature 36.9°, normal 32.6°. Extremes 4°; 66°.

Hay supplies adequate. Cutting firewood, feeding hay, caring for livestock. Small grains good. Tax preparation. Making plans for spring planting.

DELAWARE: Precipitation 0.13 in. Temperature 39.0°, normal 33.5°. Extremes 22°; 62°.

Hay supplies adequate. Pastures, livestock in mostly excellent condition. Small grains good. Tax preparation. Making plans for spring planting.

MICHIGAN: Extremes 2°; 44°. Precipitation none to 0.67 in. across the State. Temperatures were mild, only light flurries fell on the Lower Peninsula.

Corn advanced to 80% harvested. Some corn was showing mold. Livestock good. Feed supplies were adequate to short. Major activities included: Cutting, splitting wood, pruning, hauling manure.

MINNESOTA: Temperatures 3 to 8° above normal for the State. Extremes -22°; 47°. Precipitation none to 0.29 in., 0.19 in. below normal to 0.10 in. above normal. Greatest weekly total was 0.41 in. Snowfall 1 to 4 in. with snow depths averaging 17 to 19 in. the northeast, north central, 5 to 10 in. elsewhere. Temperatures rose towards weekend with 40° common across most of the State. New daily record high temperatures were set in a few locations.

MISSISSIPPI: Temperatures 45°, 2.0° above normal. Extremes 20°; 69°. State received little or no rainfall last week. Rainfall 0.08 in., 1.06 in. below normal. Soil temperatures 47°.

Days suitable for fieldwork 1.6, .8 1992, 1.6 avg. Soil moisture 29% adequate, 71% surplus. Wheat 9% poor, 84% fair, 7% good. Hay supply 86% adequate, 14% surplus. Feed grain 86% adequate, 14% surplus. Livestock 23% fair, 74% good, 3% excellent. Activities: Feeding livestock.

MISSOURI: Temperatures 3° above normal north, 5° above normal south. Virtually no precipitation.

Topsoil 35% adequate, 65% surplus. Corn 97% harvested, most unharvested crop in northern, west central districts. Wheat 3% poor, 57% fair, 40% good. Hay 13% short, 82% adequate, 5% surplus. Livestock 27% fair, 70% good, 3%

excellent. Damp weather, muddy barn yards, wide swings in temperature in recent weeks stressed some livestock.

MONTANA: Temperatures above normal statewide. Precipitation light statewide, except west, which received 0.30 in., and central, which received 0.10 in.

The protectiveness of snowcover for winter wheat is 45% poor, 21% fair, 29% good, 5% excellent. Grazing 2% open, 84% difficult, 14% closed. More than 98% of livestock receiving supplemental feed. Calving 9% complete, lambing 5% complete.

NEBRASKA: Temperatures near normal central to 10° above normal north-central. Only a trace precipitation at a few locations.

Winter wheat 1% poor, 31% fair, 57% good, 11% excellent. Limited grain harvest occurred due to weather conditions. Feed grain supplies 2% short, 59% adequate, 39% surplus. Hay, forage supplies 1% short, 78% adequate, 21% surplus. Supplemental feeding of livestock due to snowcover on stalks, winter pastures. Cattle 1% poor, 5% fair, 87% good, 7% excellent. Other activities: Monitoring, working with farm stored grain to minimize spoilage, record keeping, equipment maintenance, 1993 planning, routine chores.

NEVADA: High pressure continued to predominate as the main element of the weather during week. Some scattered light precipitation mainly over eastern and southern areas at end of period. Temperatures on cold side due to remaining snowcover over many of the valleys northern and central areas. Minimums mostly around 10° above to 12° below zero across north, upper teens south. Highs mostly 30 to 40° in north, 50 to 60° south.

Deep snow some areas causing a few problems for those ranchers who have started calving. Main farm/ranch activities: Care, feeding of livestock; chopping ice for livestock water; general maintenance.

NEW ENGLAND: Precipitation 0.08 to 0.80 in. Temperatures 11° to low 30s. Maximum temperatures high 30s to mid 50s. Minimum temperatures minus 24° to 2° north, 0 to 20° south.

Major farm activities: Tending livestock, cutting firewood, making general repairs.

NEW JERSEY: Temperatures near normal, averaged 29° north, 34° south, 36° coastal. Extremes 13°; 57°. Precipitation below normal; averaged none north, 0.01 in. south, 0.01 in. coastal. Heaviest 24 hour total 0.05 in. on 31st. Trace amounts of snowfall 28th, 1st.

Farmers caring for livestock, tending to normal winter chores.

NEW MEXICO: January thaw continued over State. Temperatures generally 5° above normal in the north, 2° above normal in the south. Cold front pushed through the eastern plains during the latter part of the week. Precipitation was confined to the southeast plains, the extreme northwest plateau, with higher totals close to 0.50 in.

Ranchers continued to supplemental feed while farmers were beginning land preparation for spring crops, a small amount of late chile harvest.

NEW YORK: Temperatures reached 40s, 50s on 24th. Cold front then moved through. Rain turned to snow during the evening, night. Light snow fell near the Great Lakes on 25th. On 26th temperatures 0° in the north to the 20s on Long Island. Another cold front moved through on 27th, 28th. Light snow was common for the rest of the week. By the 30th, high temperatures were below 0° in the north, 20s were common from Buffalo to Albany, 30s were found on Long Island. Extremes -17°; 54°.

Major activities: Caring for livestock, cutting firewood, grading, packing crops, machinery maintenance, other winter chores. Cold weather hindered outside activities.

NORTH CAROLINA: Temperatures 0 to 4° above normal. Precipitation was light across the State with many locations reporting only a trace.

Crop condition: Winter wheat 3% poor, 35% fair, 59% good, 3% excellent. Oats 4% poor, 30% fair, 64% good, 2% excellent. Barley 26% fair, 72% good, 2% excellent. Rye 2% poor, 25% fair, 71% good 2% excellent. Hay, roughage supplies 2% short, 93% adequate, 5% surplus. Feed grain supplies 2% short, 90% adequate, 8% surplus. Activities included: Harvesting soybeans, cotton; preparing tobacco plant beds; tending livestock; equipment repair; soil sampling; general farm maintenance.

NORTH DAKOTA: Ridge of high pressure brought mild dry air to the State. Statewide temperatures 7° above normal east central to 12° above normal northwest. Extremes -17° southeast; 46° south central. Precipitation none to 0.04 in. across State.

Snow depth 6.6 in. Snowcover sufficient to protect 89% winter wheat, 94% rye, 87% alfalfa. Winter wheat seedings 30% fair, 69% good, 1% excellent. Rye seedings 29% fair, 69% good, 2% excellent. Cattle 9% fair, 84% good, 7% excellent. Sheep 5% fair, 89% good, 6% excellent. Range cattle, calves receiving supplemental feed 100%, sheep, lambs 99%. Hay, forage 6% short, 89% adequate, 6% plentiful. Sales of cattle and/or calves mostly normal. Condition of secondary, county roads 91% open, 9% difficult; 12% drifted, 32% icy, 28% muddy, 28% dry.

OHIO: Past week provided the State with more sunshine than it had seen in several months. Conditions were drier and milder than normal. High temperatures mid 30s to the 40s, 2 to 5° above normal. Lows in the low to mid 20s which was 2 to 8° above normal. Coldest readings were in the teens with a few single digits registered in the northeast. Much of the State saw no precipitation; water equivalent total averaged less than 0.15 in. and was mostly confined to the north. Precipitation was 0.40 to 0.65 in. below normal.

Soil temperatures at the 4 in. depth under bare ground averaged mostly in the low to mid 30s.

OKLAHOMA: Temperatures 1° above normal southeast to 6° above normal northeast. Precipitation none most of State to 0.08 in. southeast.

Topsoil 34% adequate, 66% surplus. Subsoil 100% adequate. Wheat 7% poor, 64% fair, 29% good; 37% grazed. Cotton 90% harvested. Pastures 91% of normal. Livestock 51% fair, 49% good. Prices for feeder steers, heifers mixed, marketings average.

OREGON: Western, northeastern areas 4 to 6° above normal, remaining eastern sections 4 to 8° below normal. Precipitation 0.50 in. or less west; eastern locations 0.30 in. or less.

Soil moisture mostly adequate to surplus west, adequate east. Wheat snowcover adequate, some concern of snow mold; Columbia Basin. Fruit, nut winter orchard activities continue, Willamette Valley. Livestock good. Mountain snowpack remaining excellent. Lambing continues, early calving underway, no problems. Pastures, ranges dormant, supplemental hay supplies becoming short in eastern areas.

PENNSYLVANIA: Above normal temperatures, below normal precipitation. Temperature 30°, 4° above normal. Extremes 2°; 58°. Precipitation 0.34 in., 0.30 in. below normal.

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

PUERTO RICO: Island rainfall 1.70 in. was 1.09 in. above normal. Highest rainfall 5.75 in. at Puerto Real, 4.05 in. at Cerro Maravilla, 2.63 in. at Borinquen Airport. Highest 24 hour total 5.75 in. at Puerto Real on the 29th. Island temperatures 74 to 76° on Coast, 69 to 71° at Interior, with mean station temperatures ranging from 59.4° to 78.4°. Extremes 49°; 90°.

SOUTH CAROLINA: Temperatures normal to 2° above normal. Rainfall 0.10 in. statewide.

Farm activities: Some reseeding of tobacco beds due to water damage, some late gassing of beds; some late cotton, soybean harvest; gathering soil samples; winter livestock chores.

SOUTH DAKOTA: Temperatures 10 to 15° above normal in the far east, up to 20° above normal across the rest of the State. Extremes -18°; 58°. Precipitation mostly trace amounts from snow flurries. Northeast corner was the exception with precipitation amounts up to 0.50 in. January precipitation was above normal at most reporting stations.

Snowcover much of the State except for the south central. The northwest, northeast corners continue to report the most with depths 15 to 20 in.

TENNESSEE: Temperatures above normal. No precipitation.

Wheat mostly good. Cotton still being ginned. Farm activity remains limited: livestock care, general maintenance.

TEXAS: High pressure kept rainfall at a minimum first part of week. Disturbance pushed across State before weekend providing the bulk of rainfall totals. Upper impulse followed by weak high pressure over weekend allowed a return to dry weather. Temperatures were generally near normal northern half, below normal southern half. Precipitation below normal all districts. Heaviest precipitation along Upper Coast, south central.

Crops: Harvest of remaining cotton continued Plains. Several fields still too wet to harvest, 99% harvested, 100% 1991, 100% avg. Small grain growth continued most areas with the sunshine. Greenbug populations on rise wheat fields Blacklands. Some disease problems evident fields in Central Texas. More clear, sunny weather needed ensure normal development. Grazing small grain fields increasing as drying took place. Statewide wheat condition 66% normal, 79% 1991.

Commercial Vegetables: Rio Grande Valley, onions progressing well. Land preparation melon planting underway. High Plains, land preparation delayed by excessive soil moisture. East Texas, land preparation potato planting resumed. Trans-Pecos, spring onion transplants were set out. Weed control continued. Pecan harvest neared completion all areas, with quality of later harvested nuts low.

Range and Livestock: Supplemental feeding continued all areas. Hay supplies short several areas. Winter pastures improving with warmer temperatures, more cattle grazing small grain pastures, as conditions allowed. Hill Country spring lambing beginning. Overall livestock condition remained fair, good.

UTAH: Temperature maximums, minimums both 3° less than normal. Precipitation light in the northern part of the State to very light in the central part; none reported in the south.

Major farm activities include caring for and feeding of livestock, filing taxes, hauling manure.

VIRGINIA: Temperatures around 4° above normal, precipitation below normal. Extremes 3°; 69°. Precipitation was generally less than 0.50 in.

Days suitable for fieldwork 1.9. Topsoil 46% adequate, 54% surplus. Winter grains, grazing crops 3% very poor, 12% poor, 56% fair, 29% good. Forage from pastures, grazing crops dairy cattle 7%, beef cattle 19%, sheep 20%. Pruning fruit trees, dark-fired, burley tobacco marketing completed,

repairing machinery, fences, topdressing small grains, fertilizing some land, attending production meetings, soil sampling, preparing for taxes, making maple syrup.

WASHINGTON: Temperatures 3 to 7° above normal west; normal to 12° above normal east. Precipitation 0.32 in. to 4.14 in. west; none to 0.46 in. east.

Days suitable for fieldwork 2.9. Soil moisture 14% short, 83% adequate, 3% surplus. Hay, other roughage 29% short, 57% adequate, 14% surplus. Range, pasture 56% very poor, 24% poor, 14% fair, 6% good. Winter wheat dryland 30% fair, 70% good; irrigated 100% good. Barley dryland 40% fair, 60% good; irrigated 100% good. Mild weather conditions statewide encouraged farm activity, but many fields too wet. Fruit tree pruning accelerated after poor weather delays. Winter wheat good; snow melt moved into soil with minimal runoff. Livestock areas sloppy; winter feeding programs, early calving/lambing continued.

WEST VIRGINIA: Temperature 32°. Extremes 3°; 64°. Precipitation 0.02 in.

Hay feed supplies adequate. Other feed supplies adequate. Cattle good. Sheep good. Wheat condition fair. Farm activities: General maintenance, feeding livestock, calving, lambing, bookkeeping.

WISCONSIN: Temperature 21°. Extremes -18°; 50°. Week started out cold, got colder before a January thaw settled in at weekend. Clouds, snow spread into the State on the night of the 25th with 1 to 4 in. falling in portions of northern, central parts of the State. Light snow on the 27th; greater amounts (up to 2 in.) in the central districts.

WYOMING: Warm, dry weather across State last week. Temperatures 1 to 7° above normal across State with the exception of the southwestern region where temperatures ranged 3 to 7° below normal. Precipitation 0.10 to 0.50 in. below normal across the entire State.

1993 winter wheat crop fair to good, snowcover adequate in most areas. Livestock mostly good. Snow, cold weather increasing feed requirements. Stress due to wind, cold temperatures. Supplemental feeding continuing. Hay supplies dwindling in scattered regions. Farm, ranch activities include feeding, caring for livestock, routine maintenance, preparation for calving, lambing, tax season. Some producers beginning to calve, lamb.

January 1993

MONTHLY DATA FROM SELECTED FOREIGN CITIES
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
*** = DATA NOT AVAILABLE

International Weather and Crop Summary
HIGHLIGHTS

January 24 - 30, 1993

FSU-WESTERN: Colder weather accompanied light to moderate snow over most winter grain areas.

EUROPE: Eastern Spain continued very dry, while colder weather returned to the northeast.

NORTHWESTERN AFRICA: Light precipitation brought temporary relief to drought-stressed winter grains in Morocco. The third consecutive week of dry weather covered winter grains in eastern Algeria and Tunisia.

SOUTH AFRICA: Timely showers stabilized reproductive to filling corn.

SOUTH ASIA: Mild weather continued, with localized frost confined to the far north.

SOUTHEAST ASIA: Showers covered Java's rice, but dry weather dominated Malaysia.

EASTERN ASIA: Warmer and continued dry weather prevailed across China.

AUSTRALIA: Rains benefited eastern summer crops and slowed wheat harvesting in portions of southern Australia.

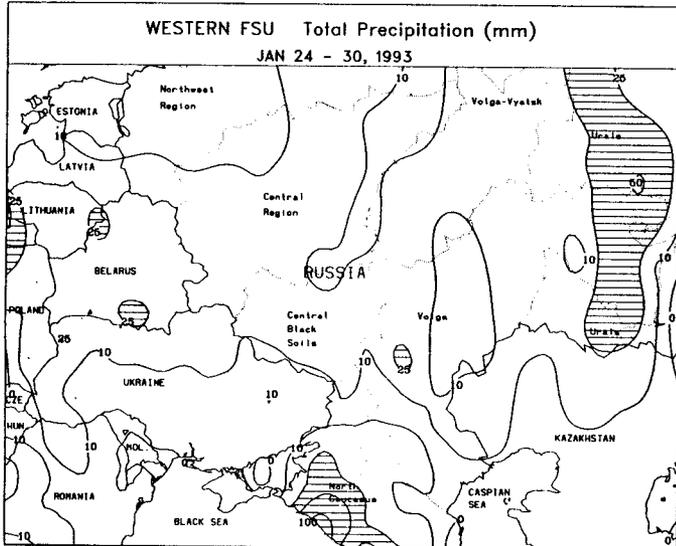
SOUTH AMERICA: Continued widespread showers and seasonable temperatures enhanced summer crop development across the region.

COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI MAX	LO MIN	DPART AVG	F/NRM TOTAL	DPART F/NRM	
NORWAY	OSLO	1	-4	6	-19	-2	5.5	59	1
SWEDEN	STOCKHOLM	2	-2	8	-11	0	2.2	26	-13
FINLAND	HELSINKI	0	-4	5	-15	-2	3.7	70	26
U KING	GLASGOW	8	3	14	-2	5	1.7	245	113
	EDINBURGH	7	2	14	-2	5	1.6	108	59
	BIRMINGHAM	8	3	13	-6	6	2.2	70	12
	LONDON	9	4	13	-7	7	2.9	82	7
IRELAND	DUBLIN	9	5	14	-1	7	2.2	59	-8
ICELAND	REYKJAVIK	0	-5	7	-12	-3	-2.2	76	1
DENMRK	COPENHAGEN	4	0	10	-8	2	2.2	63	14
LUXEMB	LUXEMBOURG	6	2	11	-11	4	3.3	108	43
SWITZL	ZURICH	6	1	12	-11	4	4.0	26	-42
	GENEVA	8	0	14	-10	4	2.9	19	-58
FRANCE	PARIS/ORLY	9	5	15	-9	7	***	61	**
	STRASBOURG	8	2	16	-12	5	4.0	18	-17
	BOURGES	10	4	17	-10	7	3.6	23	-37
	BORDEAUX	12	4	20	-6	8	3.0	14	-86
	TOULOUSE	11	3	17	-4	7	1.9	3	-54
	MARSEILLE	13	4	17	-4	8	2.0	2	-43
SPAIN	VALLADOLID	6	-1	16	-5	3	-1.3	1	-47
	MADRID	11	-2	16	-6	5	-0.6	0	-51
	SEVILLE	17	3	21	-1	10	-1.1	19	-45
PORTUG	LISBON	14	7	17	3	10	-1.0	18	-101
GERMANY	HAMBURG	5	1	13	-13	3	2.6	120	64
	BERLIN	5	0	14	-15	3	2.8	57	16
	DUSSELDORF	8	3	15	-14	5	3.2	70	7
	LEIPZIG	5	0	13	-14	3	3.0	53	19
	DRESDEN	5	0	16	-16	3	3.9	47	9
	STUTTGART	7	1	16	-13	4	4.7	58	10
	NURNBERG	6	0	15	-14	3	3.5	45	2
	MUNICH	7	1	19	-13	4	6.2	36	-20
AUSTRI	VIENNA	5	-3	17	-18	1	2.7	34	7
	INNSBRUCK	6	-3	20	-14	2	3.5	40	-11
CZECH	PRAGUE	4	-2	16	-19	1	3.2	19	-3
POLAND	WARSAW	3	-2	14	-17	0	3.5	47	24
	LODZ	3	-3	13	-17	0	2.5	33	-5
	KATOWICE	3	-4	15	-19	0	2.2	40	-2
	PRZEMYSL	2	-3	12	-19	-1	2.5	29	-3
HUNGAR	BUDAPEST	3	-3	12	-13	0	2.1	11	-21
F YUGO	BELGRADE	6	-2	17	-12	2	1.7	22	-27
ROMANI	BUCHAREST	5	-6	15	-18	-1	1.6	9	-38
BULGAR	SOFIA	4	-5	16	-18	0	1.8	22	-5
ITALY	MILAN	7	0	12	-8	4	2.5	4	-61
	VERONA	6	0	12	-7	3	1.7	0	-52
	VENICE	7	0	15	-6	3	0.6	0	-55
	GENOA	12	8	15	-3	10	2.3	3	-86
	ROME	14	3	17	-3	8	0.4	1	-78
	NAPLES	13	5	18	-3	9	0.8	7	-106
GREECE	THESSALONIKA	10	0	17	-8	5	-0.1	28	-18
	LARISSA	11	-1	19	-8	5	-0.6	10	-30
	ATHENS	13	6	17	2	10	-0.8	11	-40
TURKEY	ISTANBUL	7	3	15	-3	5	-0.5	52	-34
	ANKARA	-2	-11	6	-22	-7	-6.9	25	-7
CYPRUS	LARNACA	16	7	18	2	11	-0.9	86	-8
FSU	TALLINN	1	-2	7	-9	-1	4.3	71	34
	LENINGRAD	-1	-4	6	-20	-2	5.2	60	23
	KAUNAS	1	-3	12	-16	-1	3.7	64	30
	MINSK	0	-5	8	-22	-3	4.4	61	26
	KAZAN	-6	-11	0	-25	-8	5.1	48	20
	MOSCOW	-2	-7	10	-28	-5	4.8	84	43
	SVERDLOVSK	-7	-13	1	-31	-10	5.1	18	-4
	OMSK	-10	-17	3	-32	-13	5.0	33	17
	KUSTANAY	-8	-15	2	-30	-11	6.2	31	17
	KRASNOYARSK	-10	-16	2	-29	-13	3.0	10	-6
	NOVOSIBIRSK	-11	-16	0	-32	-14	5.6	32	11
	BARNAUL	-10	-15	3	-29	-13	3.5	12	-12
	KHABAROVSK	-14	-23	-7	-31	-18	3.3	19	9
	VLADIVOSTOK	-8	-14	3	-23	-11	2.1	0	-15
	KIEV	1	-3	9	-20	-1	4.1	33	-10
	LVOV	2	-5	12	-19	-2	2.8	31	-7

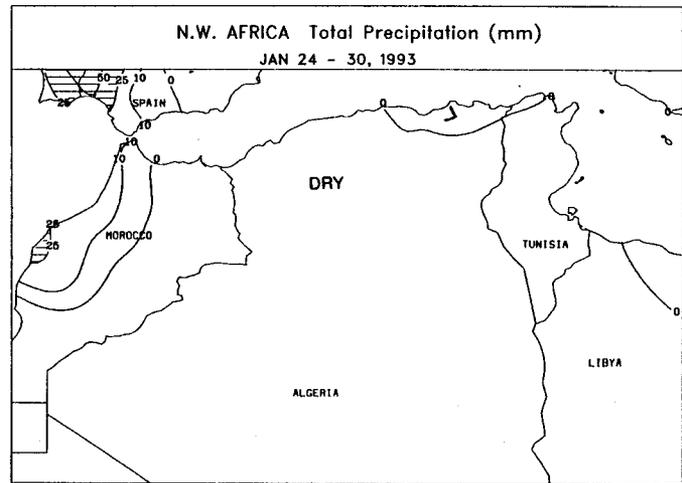
Based on Preliminary Reports

January 1993

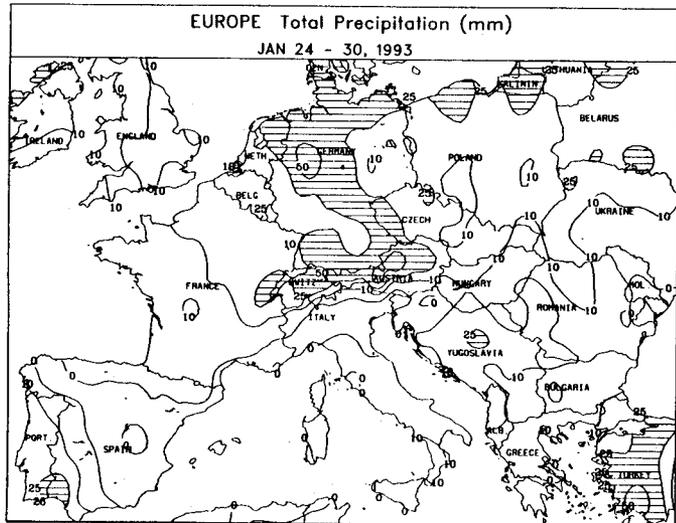
COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)			COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)			
		AVG MAX	AVG MIN	HI	LO	AVG	F/NRM	TOTAL	DPART F/NRM			AVG MAX	AVG MIN	HI	LO	AVG	F/NRM	TOTAL	DPART F/NRM	
FSU	KIROVOGRAD	0	-5	9	-21	-3	2.6	16	-19	ETHIOP	ADDIS ABABA	**	**	**	**	**	***	**	**	
	ODESSA	4	-2	15	-13	1	2.0	4	-40	KENYA	NAIROBI	**	**	**	**	**	***	**	**	
	YALTA	7	2	18	-7	4	0.7	11	-55	TANZAN	DAR ES SALAAM	**	**	**	**	**	***	**	**	
	VORONEZH	-3	-7	4	-26	-5	4.2	34	-3	GABON	LIBREVILLE	29	24	31	22	27	0.3	306	19	
	SARATOV	-3	-7	3	-18	-5	6.0	33	-1	TOGO	LOME	32	22	37	19	27	0.0	0	-14	
	KHARKOV	-2	-6	7	-21	-4	3.1	24	-18	B FASO	OUAGADOUGOU	30	16	37	12	23	-2.0	0	0	
	VOLGOGRAD	-3	-7	4	-22	-5	3.8	29	-7	IVRY C	ABIDJAN	31	24	32	18	27	0.7	11	-11	
	ROSTOV	-1	-4	6	-19	-3	2.3	43	-4	MOZAMB	MAPUTO	32	23	38	20	27	1.4	74	-99	
	ASTRAKHAN	0	-6	11	-21	-3	3.2	29	15	ZAMBIA	LUSAKA	**	**	**	**	**	***	**	**	
	KRASNODAR	2	-5	10	-20	-2	-1.6	78	12	ZIMBAB	HARARE	26	17	30	14	21	1.0	170	-29	
	ORENBURG	-5	-11	2	-26	-8	6.1	43	18	S AFRI	PRETORIA	31	19	36	16	25	3.1	78	-70	
	TSELINOGRAD	-9	-15	2	-32	-12	5.3	17	10		JOHANNESBURG	28	14	34	6	21	2.0	133	6	
	KARAGANDA	-9	-14	3	-32	-11	2.7	26	9		BETHAL	27	13	33	7	20	0.6	63	-71	
	TBILISI	5	-3	15	-10	1	-0.8	29	9		DURBAN	28	21	34	17	25	1.0	73	-53	
	TASHKENT	7	-1	19	-13	3	1.7	12	-39		CAPE TOWN	27	17	35	12	22	1.4	5	-7	
	ASHKHABAD	8	-1	24	-5	4	1.7	11	-14	CANADA	TORONTO	0	-8	12	-16	-4	2.6	72	21	
SYRIA	DAMASCUS	12	-2	17	-7	5	-1.8	33	-11		MONTREAL	-4	-13	8	-25	-8	1.6	119	47	
ISRAEL	JERUSALEM	11	3	16	0	7	-2.3	137	15		WINNIPEG	-12	-22	5	-36	-17	2.4	14	-7	
PAKIST	KARACHI	26	14	30	8	20	2.0	7	-1		REGINA	-11	-22	7	-39	-17	1.0	3	-14	
INDIA	AMRITSAR	18	4	24	-2	11	-0.5	11	-17		SASKATOON	-12	-24	6	-38	-18	1.0	4	-14	
	NEW DELHI	21	9	27	5	15	0.4	11	-9		LETHBRIDGE	-6	-17	11	-33	-11	-1.0	7	-17	
	AHMEDABAD	29	14	33	10	21	1.0	0	-2		CALGARY	-5	-17	15	-31	-11	0.5	6	-10	
	INDORE	28	11	32	8	19	1.2	0	-9		EDMONTON	-8	-18	11	-29	-13	2.2	4	-21	
	CALCUTTA	26	14	30	10	20	0.0	35	23		VANCOUVER	4	-4	12	-14	0	-2.9	113	-41	
	VERAVAL	30	18	34	15	24	2.5	1	0	MEXICO	GUADALAJARA	23	7	28	1	15	-0.4	35	23	
	BOMBAY	32	17	36	14	24	0.8	0	0		MEXICO CITY	22	9	25	5	15	3.1	6	1	
	POONA	31	10	33	9	21	-0.1	7	7		ACAPULCO	32	22	33	21	27	0.6	0	-10	
	BEGAMPET	31	15	32	12	23	1.3	0	-3		BERMUD	ST. GEORGES	22	18	24	15	20	2.3	57	-68
	VISHAKHAPATNAM	28	21	29	16	25	***	0	**		BAHAMA	NASSAU	27	19	30	13	23	2.1	35	-9
	MADRAS	30	20	33	18	25	0.4	0	-21		CUBA	HAVANA	27	20	31	16	24	1.9	188	126
	MANGALORE	33	20	35	18	27	0.0	0	-5		JAMAIC	KINGSTON	31	23	32	21	27	1.4	41	23
H KONG	KINGS PEAK	18	12	27	5	15	***	26	**		P RICO	SAN JUAN	29	22	32	19	25	0.4	60	-14
N KREA	PYONGYANG	-1	-12	4	-23	-6	2.4	5	-4		GUADEL	RAITZET	29	21	30	18	25	1.8	39	-29
S KREA	SEOUL	2	-5	9	-11	-2	3.3	2	-15		MARTINQ	LAMENTIN	28	23	28	19	25	1.3	119	4
JAPAN	SAPPORO	1	-4	5	-12	-2	2.9	103	-11		BARBAD	BRIDGETOWN	29	23	29	21	26	0.5	42	-19
	NAGOYA	10	3	14	-1	6	2.8	59	9		TRINID	PORT OF SPAIN	31	22	31	19	26	1.5	32	-41
	TOKYO	9	4	13	1	6	1.7	119	65		COLOMB	BOGOTA	20	7	22	0	13	0.6	33	-2
	YOKOHAMA	9	3	13	1	6	1.3	122	61		VENEZU	CARACAS	30	22	32	17	26	1.4	0	-43
	KYOTO	10	3	13	-2	6	3.1	79	27		F GUIA	CAYENNE	28	23	30	21	26	0.3	361	-62
	OSAKA	10	4	13	1	7	2.2	55	3		BRAZIL	FORTALEZA	31	24	33	20	27	-0.1	43	-95
THAILN	PHETCHABUN	32	17	35	10	25	-0.1	6	-6		RECIFE	29	23	31	21	26	-0.4	49	-19	
	BANGKOK	32	22	34	14	27	0.7	4	-7		BELO HORIZONTE	29	20	32	18	24	1.4	184	-101	
MALAYS	KUALA LUMPUR	32	23	34	21	28	1.5	207	39		CAMPO GRANDE	31	21	35	20	26	1.7	129	-101	
VIETNM	HANOI	20	15	28	9	17	0.5	3	-15		FRANCA	27	19	31	17	23	1.4	123	-127	
CHINA	HARBIN	-12	-25	-1	-32	-19	1.7	2	-2		LONDRINA	30	21	36	19	25	1.7	229	-5	
	HAMI	-2	-16	10	-21	-9	2.3	3	1		SANTA MARIA	30	21	35	13	26	0.6	366	225	
	LANCHOW	-2	-11	6	-16	-6	0.3	4	3		PORTO ALEGRE	30	21	36	15	26	0.8	183	64	
	BEIJING	2	-8	13	-13	-3	1.3	4	1		PERU	LIMA	26	19	30	13	23	0.8	0	-1
	TIENTSIN	1	-8	11	-14	-4	-0.1	4	1		BOLIVI	LA PAZ	13	3	16	0	8	-1.1	152	9
	LHASA	8	-7	17	-12	1	2.3	1	1		CHILE	SANTIAGO	30	13	32	10	21	0.4	0	-1
	KUNMING	13	3	19	-3	8	0.0	24	12		ARGENT	IGUAZU	32	21	38	18	26	***	186	**
	CHENGCHOW	3	-5	15	-14	-1	-1.4	18	9		FORMOSA	33	24	37	20	28	0.8	168	44	
	YEHCHANG	7	1	18	-4	4	-0.8	63	43		CERES	31	21	35	14	26	-0.2	179	52	
	HANKOW	6	-1	15	-8	2	-0.5	102	67		CORDOBA	30	18	36	13	24	1.0	85	-32	
	CHUNGKING	9	5	16	0	7	***	25	**		RIO CUARTO	29	18	33	10	24	0.5	204	90	
	CHIHKIANG	8	1	20	-4	4	-0.5	53	15		ROSARIO	30	19	35	12	25	0.7	118	-10	
	WU HU	6	-1	15	-7	2	***	117	**		BUENOS AIRES	31	19	37	9	25	1.8	61	-50	
	SHANGHAI	7	1	14	-5	4	***	59	**		SANTA ROSA	29	16	33	9	23	-1.3	143	76	
	NANCHANG	7	2	18	-4	5	-0.4	49	-10		TRES ARROYOS	28	15	34	8	22	0.2	91	39	
	TAIPEI	17	13	23	7	15	-0.1	118	28		N CALD	NOUMEA	29	22	34	20	26	0.1	68	-46
	CANTON	16	9	25	3	12	-0.6	39	2		FIJI	NAUSORI	28	23	31	19	26	-0.7	322	-14
	NANNING	15	9	25	3	12	-0.5	19	-19		SAMOA	PAGO PAGO	31	25	32	23	28	0.7	604	282
CNRY I	LAS PALMAS	20	15	22	12	17	0.2	6	-13		TAHITI	PAPEETE	31	25	34	23	28	1.5	503	160
MOROCC	CASABLANCA	17	7	18	5	12	-1.0	21	-53		N ZEAL	AUCKLAND	23	16	27	11	20	0.1	45	-16
	MARRAKECH	18	5	22	3	12	0.4	48	19		WELLINGTON	19	14	23	9	16	***	41	**	
ALGERI	ALGER	17	3	22	1	10	-0.8	20	-77		PA N G	PORT MORESBY	30	24	32	20	27	-0.4	126	-78
	BATNA	12	1	22	-2	4	-1.4	12	-28		AUSTRL	DARWIN	31	25	33	24	28	-0.1	559	149
TUNISI	TUNIS	15	6	19	1	11	-0.3	43	-20		MOREE	34	23	38	16	28	1.9	42	-41	
NIGER	NIAMEY	30	17	37	13	23	-1.2	0	0		PERTH	31	18	38	13	24	-0.4	1	-5	
MALI	TIMBUKTU	27	14	33	10	20	-1.8	0	0		CEDEUNA	28	15	41	9	22	-0.2	40	30	
	BAMAKO	31	19	35	14	25	-0.5	0	0		ADELAIDE	26	16	37	10	21	-1.1	32	-5	
MAURIT	NOUAKCHOTT	29	16	36	12	23	1.2	0	-1		MELBOURNE	25	14	38	8	19	-0.6	107	70	
SENEGL	DAKAR	25	18	34	15															



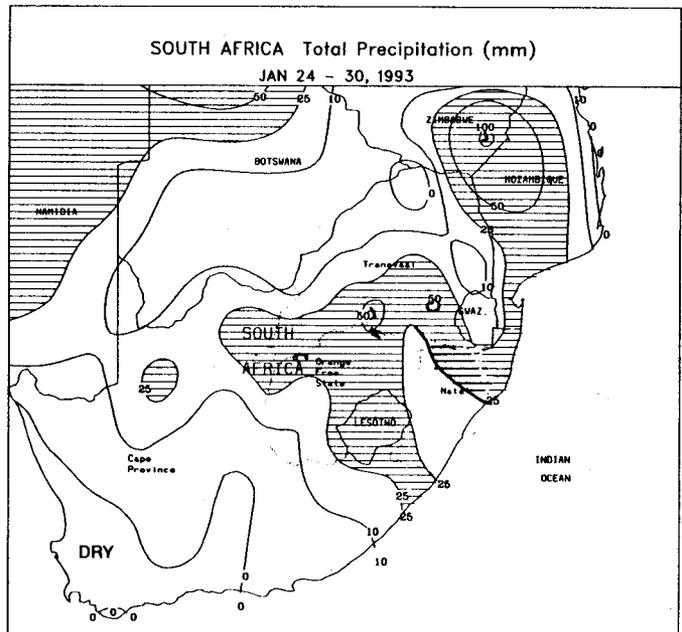
FSU-WESTERN: Unseasonably warm weather early in the week was followed by colder weather by week's end. The colder weather was accompanied by light to moderate snow. Precipitation amounts ranged from 3 to 25 mm, except for the western North Caucasus, where precipitation was moderate to heavy (25-60 mm, with local amounts in excess of 100 mm). Although protective snow cover increased over northern winter grain areas, little, if any, snow cover existed over Ukraine and the northern tip of North Caucasus. Lowest temperatures occurred late in the week, ranging from -15 to -23 degrees Celsius (C) in the north and -5 to -15 degrees C in the south. Winter grains in the coldest areas were protected by snow cover.



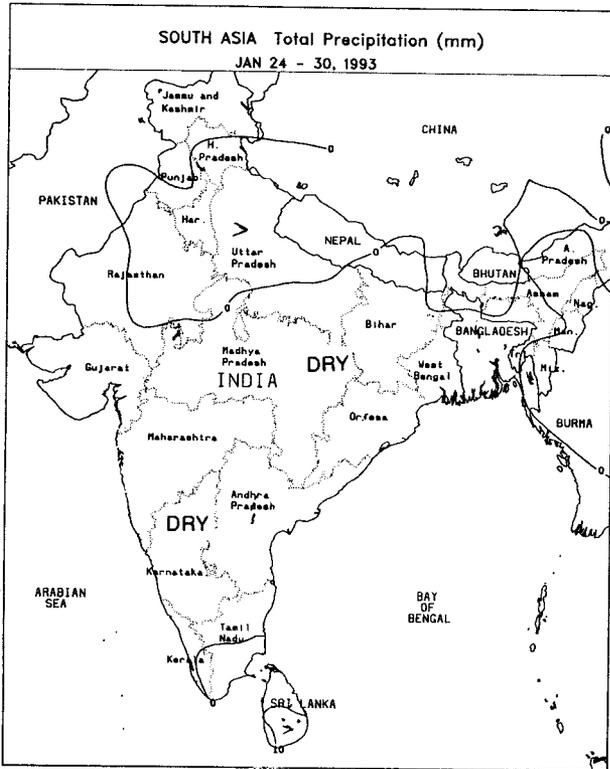
NORTHWESTERN AFRICA: Light showers (10-25 mm) covered winter grain areas in Morocco on January 30, bringing temporary relief to drought-stressed winter grains in the vegetative stage. Further east, chronic dryness continued over crop areas in western Algeria, where crop conditions continued to deteriorate. The third consecutive week of dry weather prevailed over eastern Algeria and Tunisia. Rain is needed in these areas to prevent the occurrence of crop stress.



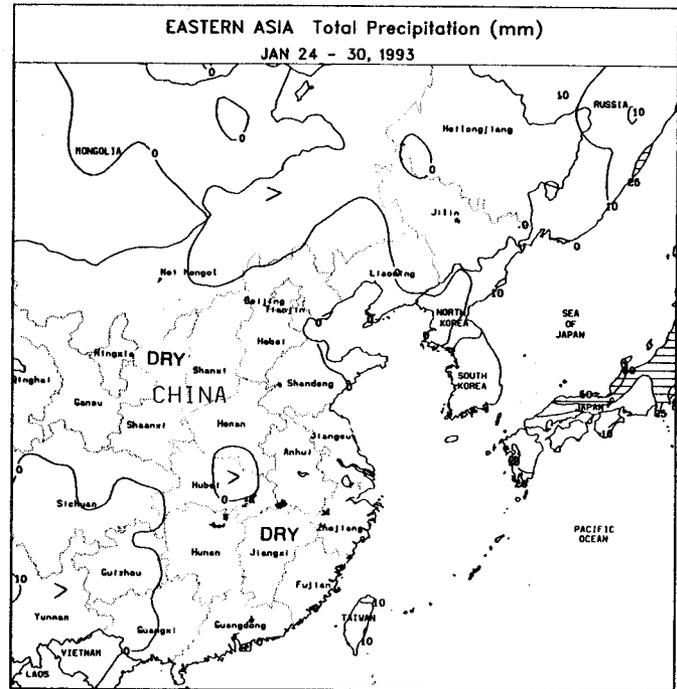
EUROPE: The Mediterranean region remained mostly dry, except for late-week showers (5-35 mm) spreading over southwestern portions of the Iberian peninsula and scattered light showers (6 mm or less) over Italy and Greece. The moisture deficiency is especially acute in eastern Spain for winter crop growth and irrigation reserves. Substantial precipitation (25-60 mm) continued over north-central Europe, while beneficial precipitation (10-30 mm) fell over nearly all of eastern European winter grain areas. Variable showers in the northwest were also helpful for soil moisture recharge. While average temperatures remained well above freezing in the northwest, colder weather returned to the northeast late in the week. Minimum temperatures ranged from -10 to -18 degrees C in Poland at week's end, with some snow falling in advance of the cold air, providing a protective blanket for winter grains.



SOUTH AFRICA: Highly beneficial showers brought relief to reproductive to filling corn across the region, with amounts totaling 25-50 mm over most chronically dry areas of Orange Free State and Transvaal. Temperatures were seasonable, with highs mostly in the mid to upper 20's C, reducing evapotranspiration rates. Light to moderate rain (10-38 mm) fell over crop areas of Natal and eastern Cape Province, but most coastal sugarcane areas received less than 25 mm.

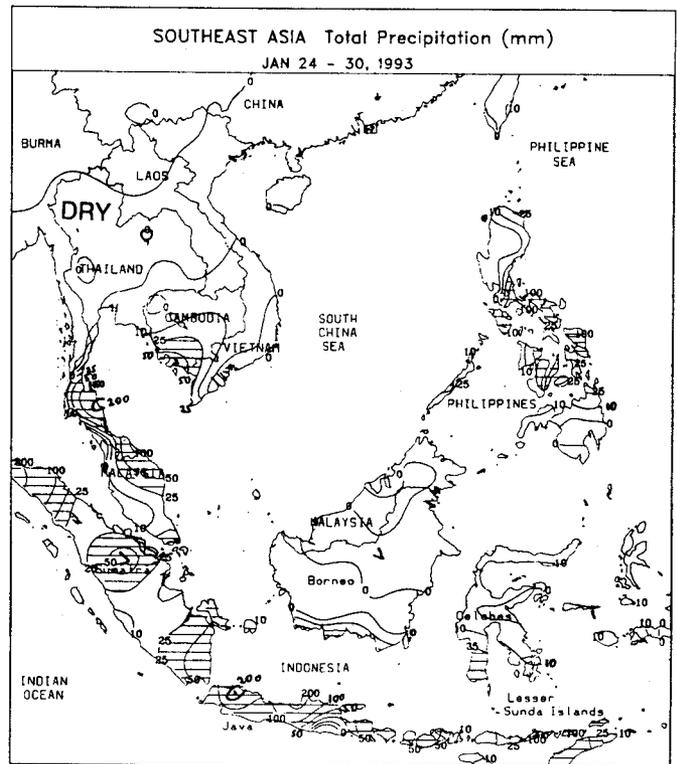


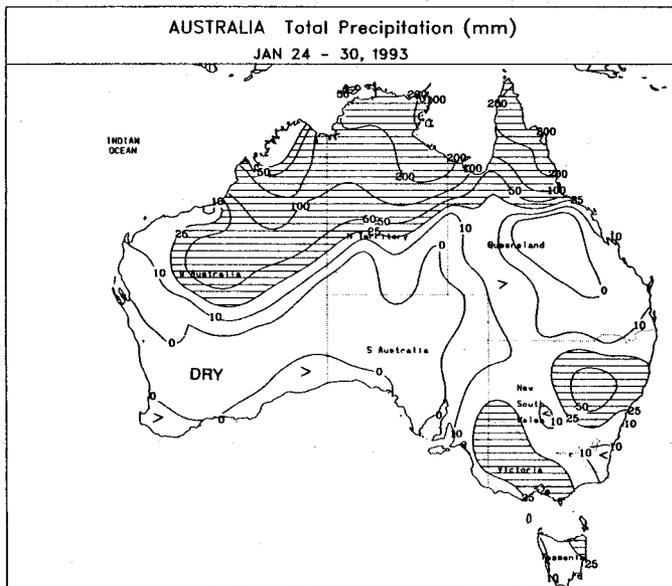
SOUTH ASIA: Dry, seasonably mild weather dominated the region. Frost was limited to northern-most winter grain and oilseed areas of Pakistan and India.



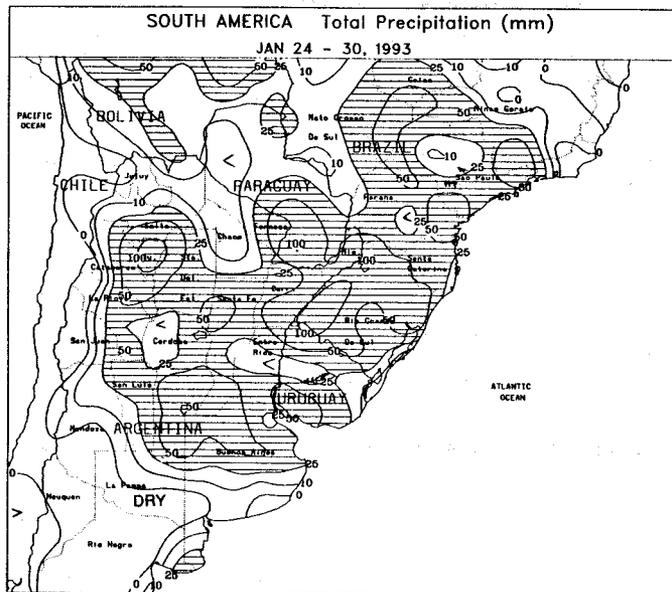
EASTERN ASIA: Dry weather prevailed across most of China. Temperatures moderated from last week, averaging near normal across the North China Plain and 1-3 degrees C below normal across southern China. However, early in the week, near to below freezing temperatures were reported as far south as northern Guangdong, possibly damaging winter vegetables.

SOUTHEAST ASIA: Moderate to heavy showers (50-100 mm or more) continued over Java's rice regions. In contrast, Malaysia's primary rice and oil palm areas received less than 10 mm, although showers (25-100 mm or more) fell from southern peninsular Thailand into northeastern sections of peninsular Malaysia. In the Philippines, beneficial rain (15-50 mm or more) boosted moisture for secondary rice planting in the central Philippines.





AUSTRALIA: Northern New South Wales received moderate to heavy rain (12-50 mm), increasing soil moisture levels for vegetative cotton and sorghum. However, only light rain (less than 10 mm) was reported in the summer crop region of southern Queensland where warm temperatures (1-3 degrees C above normal) increased crop water use. Light to moderate rain (11-40 mm) fell across Victoria, slowing winter harvesting, while dry weather aided wheat harvesting in South Australia. Strong monsoon activity, coupled with a weak tropical cyclone, brought widespread heavy showers (30-150 mm, with isolated amounts greater than 200 mm) to the northern quarter of the country, causing local flooding. The rain was particularly beneficial to sugarcane in northeastern Queensland.



SOUTH AMERICA: Moderate to heavy showers (15-100 mm) again covered southern Brazil's main soybean belt, increasing soil moisture reserves for vegetative to reproductive soybeans. Late-week thunderstorms produced isolated daily amounts in excess of 50 mm in northern Rio Grande do Sul, causing local flooding. Temperatures were seasonable with maximums ranging from the upper 20's to lower 30's C. Argentina's main corn and soybean region received additional moderate rain (20-80 mm), keeping soil moisture levels high for vegetative summer crops. However, the rain delayed late winter wheat harvesting in northern Buenos Aires. Lighter rain (less than 10 mm, with an isolated amount of 43 mm) allowed wheat harvesting to progress in southern Buenos Aires. Temperatures averaged near normal across Argentina.

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(Continued from front cover)

caused heavy surf and minor beach erosion along the southern Atlantic coast. On Tuesday in Texas, temperatures dipped below 32°F as far south as Corpus Christi. But at midweek, warmth spread from the West into the Plains in the form of chinook (downslope) winds. Temperatures reached the 50's as far north as Montana, and snow cover rapidly eroded from eastern Montana to eastern Colorado. In California, considerable snowmelt occurred at the lower elevations of the Sierra Nevada. At Badger Pass, CA (elevation 7,300 feet), snow cover was reduced from 124 inches to 93 inches. In contrast, bitter cold weather persisted across the Alaskan mainland. Nome, AK, failed to climb above -15°F during the week, and a -45°F reading on Saturday morning was their coldest since January 28, 1989. Late in the week, the leading edge of the Alaskan cold brushed the northern and central Plains en route to New England, while a storm system developed in the Southwest. On Friday morning, temperatures fell to -8°F in Lincoln, NE, and -12°F in Spencer, IA. By Saturday night, up to 1 foot of new snow had blanketed western New York, and the temperature sagged to -17°F, with a wind chill to -59°F, in Caribou, ME. In the Southwest, snowfall included 11 inches at Big Bear Lake, CA, and 10 inches in Flagstaff, AZ.

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