

WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service
and World Agricultural Outlook Board

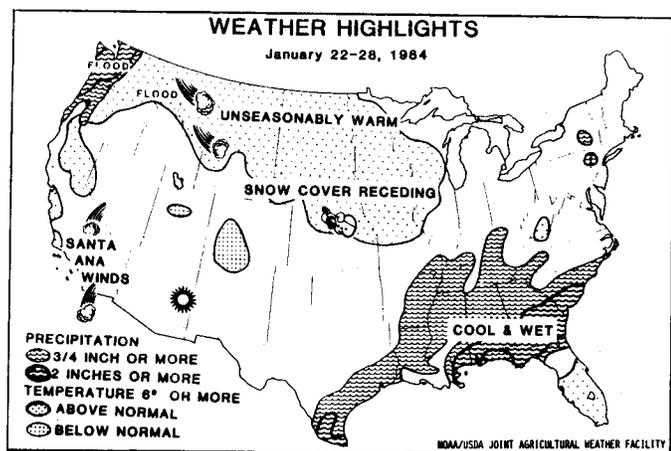
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National Weather Summary

January 22 to 28



rain, freezing rain, and snow. Rain spread across the South, up the east coast, and through the Appalachians. Early morning freezing rain fell from the mid-Atlantic States northward before changing to rain during the day. Snow fell in the northern Appalachians. As more warm air came in from the West nearly all of the Nation warmed to above the freezing mark.

WEDNESDAY...A few rainshowers lingered in the Southeast and snow fell from the northern Plains into New York. Rain fell in the Northwest and, coupled with melting snow, caused local flooding. Snow fell in the central Rockies. Warmer weather caused widespread snowmelt.

THURSDAY...Light, occasionally moderate, rainshowers continued over the southeast corner of the Nation, and light snow fell from the northern Plains through the Great Lakes. A cold front brought colder weather to the northern Plains, but most of the Nation rose to above freezing and the snowmelt continued. Strong, gusty winds whipped through the inland valleys of southern California and caused local damage.

FRIDAY...Light rain tapered off in the Southeast, but light snow spread southward from the northern Plains and Great Lakes into the upper Midwest. Strong, gusty winds blew down the eastern slopes of the northern Rockies and the western slopes of the southern mountains in California. Melting snow continued to cause local flooding in the Northwest.

SATURDAY...Snow fell from the upper Mississippi Valley to the eastern Great Lakes region, through the Midwest, and the Ohio Valley. The snow mixed with freezing rain or sleet in much of the Ohio Valley. Strong, gusty winds continued along the eastern slopes of the Rockies in Montana but abated in Wyoming and California.

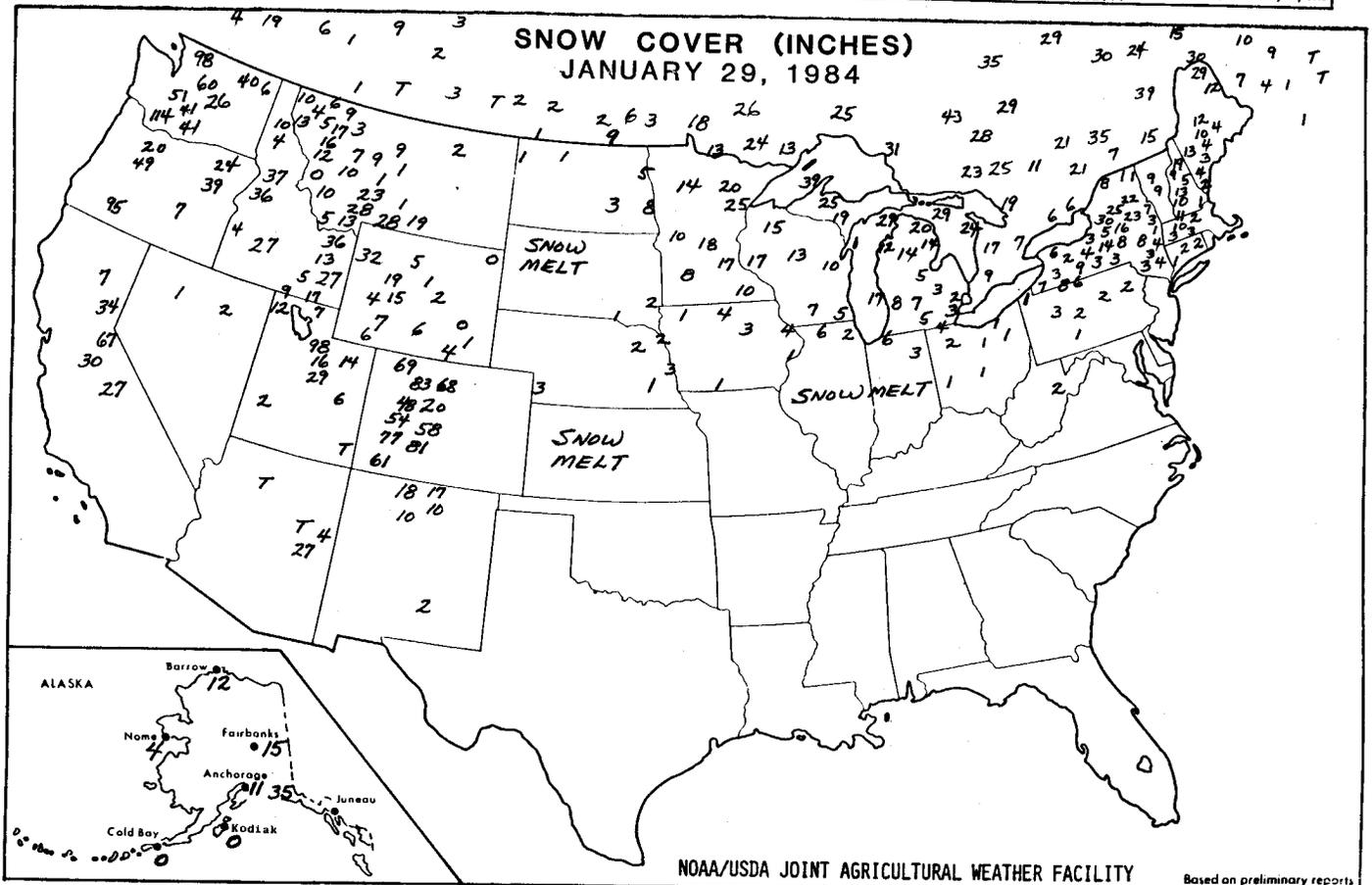
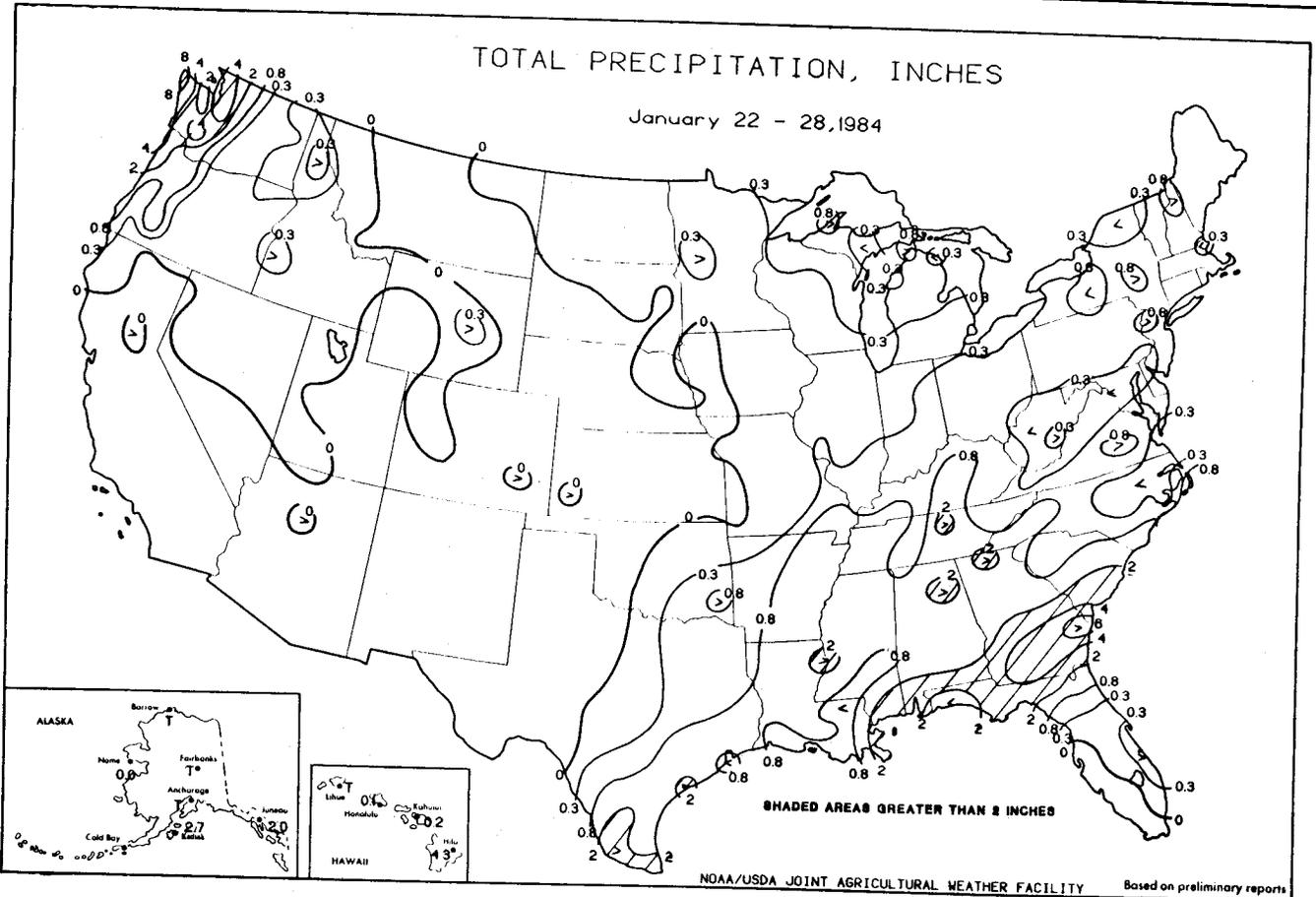
HIGHLIGHTS: Record cold temperatures spread throughout the East early in the week, but warmer weather covered the Plains, the Northwest, and the west coast. Average temperatures were as much as 24°F warmer than normal in parts of Montana. By the end of the week snow cover was receding over most of the Nation. Melting snow, coupled with rain, caused flooding in the Northwest. High pressure over the Plateau produced strong, gusty winds through the valleys of southern California, causing local damage.

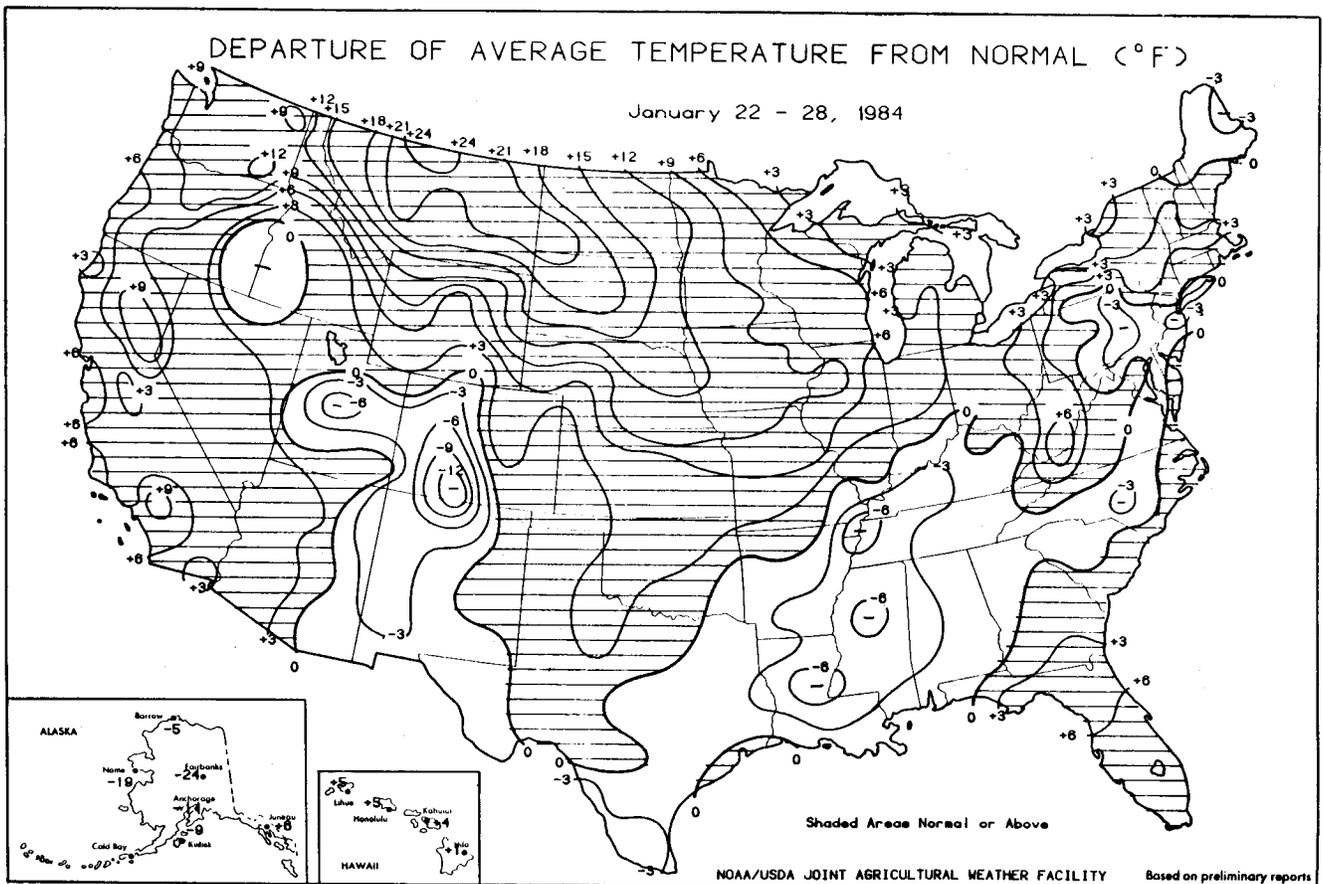
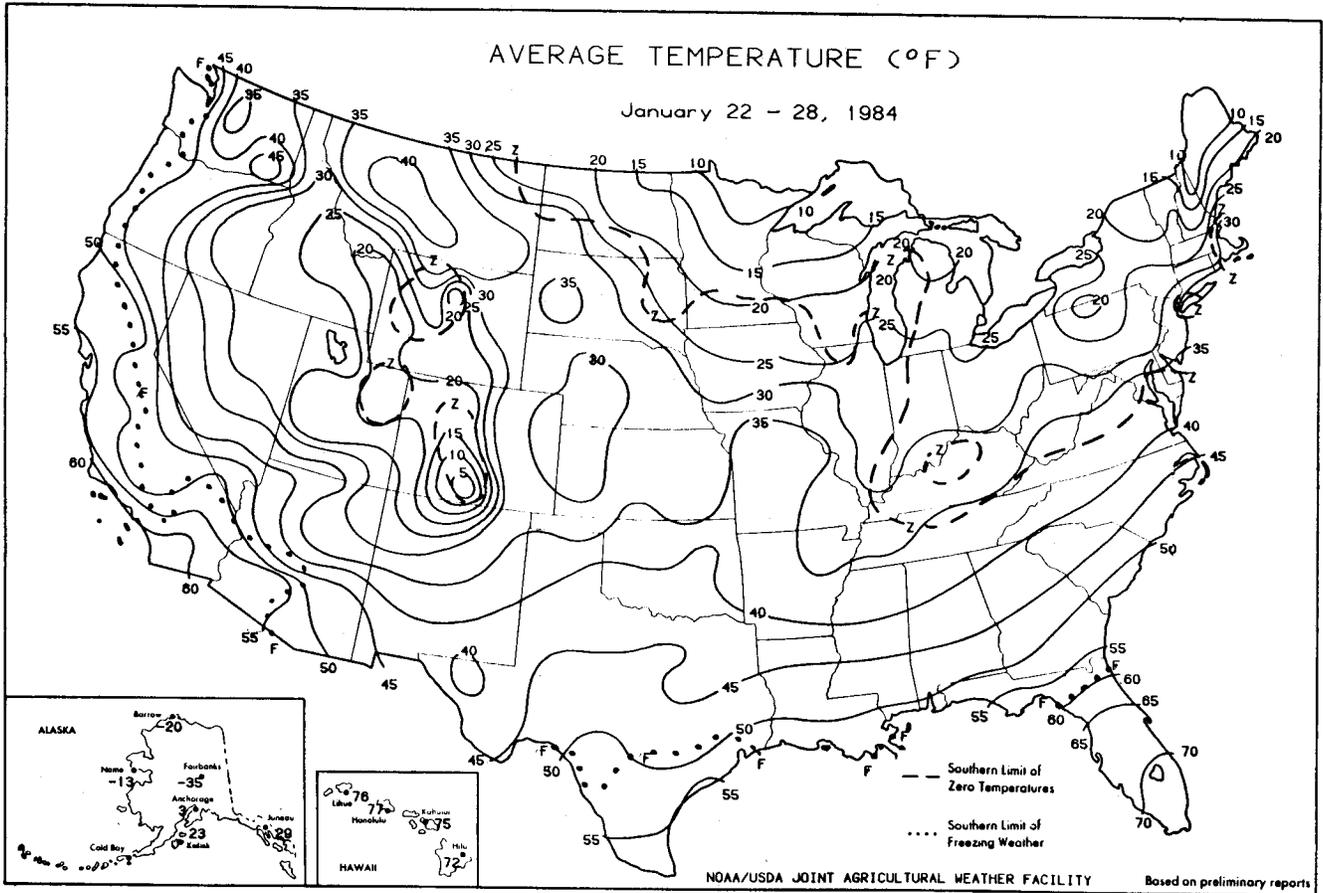
SUNDAY...Frigid air spread over the East with record cold temperatures reported from the Gulf Coast States to New England. Freezing weather reached into northern Florida. Moisture from the Gulf of Mexico spread northward and rainshowers developed from southern Texas into Missouri, and freezing rain reached into Illinois. Rain, with snow at the higher elevations, spread through the Northwest to the northern Plateau and Rockies.

MONDAY...Gulf moisture continued to flow northward and triggered precipitation through the Mississippi Valley and eastward to the Appalachians. Light to moderate rainshowers fell from central Louisiana into the Tennessee Valley and along the gulf coast, but freezing rain fell through the Ohio Valley, the central Appalachians, and into Pennsylvania, while a mixture of snow and freezing rain covered the Midwest and Lakes region.

TUESDAY...Warm air from the Gulf of Mexico spread over the East and provided a respite from the arctic cold, but along with the warm air was a mixture of

Contents	Page
National Weather Summary	1
Precipitation & Snow Cover	2
Average Temperature & Departure	3
Weather Data for Selected Cities	4
Heating Degree Days Table	7
National Agricultural Summary	8
State Summaries of Weather & Agriculture	9
International Weather & Crop Summary	13
Heating Degree Days Maps	15
Subscription & Mailing Permit Information	16





Weather Data for the Week Ending Jan. 28, 1984

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 NOV 27	PCT. NORMAL SINCE NOV 27	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERA- TURE °F		PRECIPI- TATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	51	32	61	11	41	-2	1.6	.4	1.0	20.6	198	4.2	88	90	48	0	3	2	2
AL MOBILE	58	40	65	18	49	-2	2.5	.4	1.0	15.5	149	6.2	148	86	53	0	1	4	2
AL MONTGOMERY	54	36	63	18	45	-2	1.0	.1	.3	13.4	149	4.9	132	95	59	0	1	4	2
AK ANCHORAGE	10	-3	20	-18	3	-11	T	T	T	1.7	89	1.2	200	82	52	0	7	1	0
AK BARROW	-14	-27	-3	-37	-20	-5	T	T	T	.2	67	.1	+100	78	62	0	7	2	0
AK FAIRBANKS	-28	-43	-17	-46	-35	-24	T	T	T	1.3	100	.7	140	72	58	0	7	0	0
AK JUNEAU	33	24	43	15	29	6	2.0	1.2	.7	5.5	63	4.0	148	99	77	0	5	7	2
AK KODIAK	32	15	38	6	23	-9	2.7	.8	.9	17.3	120	9.9	134	95	67	0	7	5	3
AK NOMF	-5	-22	15	-33	-13	-19	0	.2	0	2.3	135	.7	78	80	59	0	7	0	0
AZ PHOENIX	72	43	79	40	57	4	0	.1	0	1.4	93	.3	50	60	19	0	0	0	0
AZ PRESCOTT	55	26	63	23	40	4	0	.4	0	1.3	37	0	82	34	14	0	7	0	0
AZ TUCSON	66	35	73	29	50	-1	0	.1	0	1.1	69	.6	86	63	20	0	2	0	0
AZ YUMA	71	49	76	41	60	3	0	.1	0	1.0	125	.1	25	49	20	0	0	0	0
AR FORT SMITH	47	25	60	16	36	-2	.3	.1	.3	3.2	65	.8	50	92	54	0	7	2	0
AR LITTLE ROCK	46	29	57	17	38	-2	.9	.1	.9	10.0	132	1.4	44	95	70	0	6	2	0
CA BAKERSFIELD	60	39	65	34	49	0	0	.3	0	1.3	81	0	95	54	0	0	0	0	0
CA EUREKA	58	42	66	38	50	2	T	T	T	15.0	111	.7	11	99	76	0	0	0	0
CA FRESNO	59	41	64	34	50	3	0	.5	0	1.9	51	.1	6	93	61	0	0	0	0
CA LOS ANGELES	71	49	79	45	60	4	0	.8	0	2.4	53	.4	14	60	27	0	0	0	0
CA RED BLUFF	69	41	77	35	55	9	0	.8	0	1.0	10.6	131	.4	10	83	35	0	0	0
CA SACRAMENTO	63	42	66	39	53	6	0	.9	0	2.0	59	.1	3	94	52	0	0	0	0
CA SAN DIEGO	73	52	83	49	63	6	0	.5	0	4.1	59	.1	3	94	52	0	0	0	0
CA SAN FRANCISCO	65	46	69	44	55	7	0	.1	0	1.1	87	.5	25	77	33	0	0	0	0
CO DENVER	45	21	52	11	33	3	0	.1	0	6.8	53	.5	17	84	46	0	0	0	0
CO GRAND JUNCTION	34	11	40	3	23	-4	0	.1	0	1.5	150	.1	25	69	34	0	7	0	0
CO PUEBLO	47	19	53	10	33	3	0	.1	0	2.0	200	.3	60	73	50	0	7	0	0
CT BRIDGEPORT	38	21	46	-7	30	1	.3	.4	0	1.1	157	.1	33	91	39	0	7	0	0
CT HARTFORD	37	13	47	-21	25	0	.4	.4	.3	6.1	86	.8	28	83	52	0	5	1	0
DC WASHINGTON	45	26	59	3	16	1	.4	.4	.4	8.3	104	1.4	44	89	42	0	7	1	0
FL APALACHICOLA	63	48	67	29	56	3	3.1	2.3	1.4	7.9	132	1.6	67	80	40	0	5	1	0
FL DAYTONA BEACH	73	55	80	47	64	6	.1	.5	1.4	11.6	168	4.7	157	90	71	0	1	5	1
FL JACKSONVILLE	66	49	75	32	57	4	.1	.3	.1	14.0	304	1.5	71	92	56	0	1	5	1
FL KEY WEST	79	70	84	58	74	6	1.1	.3	.6	8.5	152	2.1	75	97	63	0	1	4	1
FL MIAMI	81	65	88	53	73	6	.1	.4	.1	5.4	142	.2	17	80	67	0	0	1	0
FL ORLANDO	77	56	81	45	66	6	.2	.3	.1	4.6	115	.2	11	91	55	0	0	2	0
FL TALLAHASSEE	64	47	70	25	55	3	2.6	1.6	1.3	7.4	195	2.0	111	98	54	0	0	4	0
FL TAMPA	76	58	80	42	67	7	T	.5	T	6.5	155	1.6	89	91	55	0	0	0	0
FL WEST PALM BEACH	79	62	84	54	71	6	.4	.3	.3	8.7	167	1.4	54	95	62	0	0	0	0
GA ATLANTA	49	33	58	20	41	-1	1.2	.1	.4	15.3	166	4.7	107	89	55	0	3	5	0
GA AUGUSTA	55	35	65	17	45	0	1.1	.2	.4	8.9	129	3.3	94	85	54	0	2	4	0
GA MACON	55	38	61	17	47	0	2.1	1.1	1.0	12.0	145	5.2	137	87	57	0	1	5	1
GA SAVANNAH	58	44	66	25	51	2	6.5	5.8	2.6	13.8	234	8.9	318	85	58	0	1	4	3
HI HILO	79	65	81	64	72	1	4.3	2.0	1.1	10.4	45	7.1	86	90	63	0	0	7	4
HI HONOLULU	84	70	86	67	77	5	.1	.7	.1	1.5	20	.2	6	83	51	0	0	2	0
HI KAHULUI	84	65	88	61	75	4	.2	.8	.7	7.4	106	1.7	45	87	59	0	0	2	0
HI LIHUE	80	73	80	71	76	5	T	1.3	T	2.4	20	1.6	28	84	67	0	0	0	0
ID BOTSF	36	22	43	11	29	-2	.6	.2	.3	5.1	170	.8	53	91	67	0	0	4	0
ID LEWISTON	49	33	55	26	41	8	.5	.3	.3	1.7	65	.6	55	93	58	0	2	2	0
ID POCATELLO	34	21	42	11	28	3	.2	.1	.1	4.3	215	.5	50	91	71	0	6	4	0
IL CHICAGO	34	18	41	4	26	5	.2	.2	.1	6.4	160	.7	47	87	58	0	7	2	0
IL MOLINE	36	22	45	8	29	10	.1	.3	.1	4.4	122	.4	77	87	62	0	7	2	0
IL PEORIA	37	23	44	8	30	9	.1	.3	.1	4.4	127	.3	21	87	67	0	6	3	0
IL QUINCY	40	24	53	12	32	8	.1	.7	.1	4.7	145	.1	9	87	67	0	7	1	0
IL ROCKFORD	32	15	40	0	24	6	.1	.2	.1	3.8	109	.4	31	95	72	0	7	2	0
IL SPRINGFIELD	36	23	42	8	29	5	.2	.1	.2	5.6	156	.6	43	87	64	0	7	1	0
IN EVANSVILLE	37	23	42	0	30	0	.5	.1	.5	6.0	92	.8	31	90	66	0	6	3	0
IN FORT WAYNE	34	18	39	1	26	3	.3	.1	.2	6.7	143	.7	37	90	64	0	7	3	0
IN INDIANAPOLIS	36	21	47	0	29	3	.2	.3	.2	5.2	91	.8	33	85	61	0	7	3	0
IA SOUTH BEND	34	20	40	0	27	4	.2	.4	.1	4.9	89	.5	23	84	60	0	6	3	0
IA DES MOINES	37	18	44	8	27	9	.1	.2	.1	3.5	159	.8	89	83	62	0	7	2	0
IA SIOUX CITY	38	20	43	10	29	12	T	.1	T	1.9	173	.1	25	80	62	0	7	0	0
IA WATERLOO	33	16	39	4	24	10	.1	.1	.1	2.1	100	.2	29	89	70	0	7	2	0
KS CONCORDIA	41	28	53	22	34	9	T	.1	T	2.1	140	.3	60	75	56	0	6	0	0
KS DODGE CITY	44	21	57	1	33	3	0	.1	0	1.5	125	.7	140	76	53	0	6	0	0
KS GOODLAND	38	20	44	8	29	2	0	.1	0	2.1	263	.8	200	86	65	0	7	0	0
KS TOPEKA	44	24	55	16	34	8	T	.2	T	2.3	100	.1	13	78	51	0	5	0	0
KS WICHITA	44	22	58	13	33	3	0	.1	0	1.4	88	.2	40	82	53	0	7	0	0
KY BOWLING GREEN	37	22	45	-7	29	-5	.6	.4	.6	9.7	104	1.3	33	88	72	0	6	2	1
KY LEXINGTON	39	25	49	2	32	1	.8	0	.6	6.9	90	1.5	45	84	66	0	6	3	1
KY LOUISVILLE	39	23	48	1	31	-2	.5	.3	.5	6.3	88	.8	26	85	61	0	6	2	0
LA ALEXANDRIA	56	36	65	22	46	-7	1.5	.4	1.2	9.3	97	3.5	85	88	52	0	3	3	1
LA BATON ROUGE	57	37	64	21	47	-4	.7	.4	.5	11.5	121	2.6	65	95	56	0	2	3	0
LA LAKE CHARLES	61	41	69	27	51	0	.6	.4	.3	8.6	91	4.6	118	93	58	0	1	3	0
LA NEW ORLEANS	58	42	64	29	50	-3	1.6	.5	.7	12.8	123	4.1	93	84	59	0	1	4	1

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending Jan. 28, 1984

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 NOV 27	PCT. NORMAL SINCE NOV 27	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
ME SHREVEPORT	56	31	65	19	44	-3	.5	.4	.5	9.7	123	2.0	56	95	49	0	5	1	1	
ME CARIBOU	17	-2	37	-27	8	-3	.5	.0	.3	7.0	121	1.4	64	92	63	0	7	5	0	
ME PORTLAND	33	10	47	-19	22	1	.4	.5	.4	11.4	134	2.0	59	77	39	0	6	1	0	
MD BALTIMORE	44	21	60	-7	32	0	.2	.5	.2	9.7	152	1.8	67	87	41	0	6	1	0	
MD SALISBURY	50	26	60	7	38	3	.5	.2	.4	7.5	104	2.9	94	91	54	0	5	2	0	
MA BOSTON	40	24	51	5	32	3	.2	.7	.2	7.6	86	1.7	47	72	38	0	6	2	0	
MA CHATHAM	39	26	46	12	33	2	.5	.5	.2	7.0	73	1.9	48	--	--	5	3	0		
MI ALPENA	28	6	35	-3	17	1	.3	.1	.2	2.8	74	.8	50	94	60	0	7	3	0	
MI DETROIT	33	14	40	-5	23	0	.2	.2	.1	5.3	115	.6	35	82	51	0	7	3	0	
MI FLINT	30	12	34	-3	21	0	.2	.2	.1	2.8	72	.5	33	90	64	0	7	4	0	
MI GRAND RAPIDS	32	15	35	3	24	3	.3	.2	.1	4.6	98	.9	50	94	65	0	7	6	0	
MI HOUGHTON LAKE	26	11	33	3	18	2	.5	.2	.4	3.3	94	1.0	77	88	66	0	7	4	0	
MI LANSING	32	14	38	-2	23	2	.1	.3	T	2.6	62	.4	24	91	62	0	7	2	0	
MI MARQUETTE	24	4	34	-13	14	3	.3	.2	.2	6.0	125	1.1	58	95	66	0	7	5	0	
MI MUSKEGON	32	17	36	7	24	2	.4	.1	.2	6.6	125	1.4	61	89	69	0	6	4	0	
MI SAULT STE. MARIE	24	8	33	-11	16	4	.6	.1	.2	5.1	102	1.6	76	97	67	0	7	7	0	
MN ALEXANDRIA	27	5	36	-12	16	10	.4	.2	.2	2.1	124	.6	75	93	66	0	7	4	0	
MN DULUTH	21	2	33	-17	12	5	.3	0	.1	3.8	136	.8	67	95	68	0	7	4	0	
MN INT'L FALLS	16	-6	31	-21	5	4	.1	.1	.1	1.3	65	.3	33	86	59	0	7	3	0	
MN MINNEAPOLIS	28	8	37	-5	18	7	.2	.1	.1	3.5	206	.8	114	90	59	0	7	4	0	
MN ROCHESTER	27	13	33	1	20	9	.1	.1	T	2.3	121	.2	25	90	70	0	7	2	0	
MS GREENWOOD	47	30	57	16	39	-5	1.3	.2	1.3	19.6	181	3.3	72	90	57	0	4	1	1	
MS JACKSON	52	31	63	12	42	-5	1.0	.1	1.0	10.4	98	2.7	59	97	55	0	5	2	1	
MS MERIDIAN	52	30	62	9	41	-5	.7	.3	.4	10.6	99	2.8	64	100	58	0	4	3	0	
MO CAPE GIRARDEAU	36	24	40	3	30	--	1.0	.4	1.0	6.0	86	1.5	58	98	79	0	7	1	1	
MO COLUMBIA	45	25	58	13	35	8	.1	.3	T	3.9	103	.3	20	90	51	0	7	3	0	
MO KANSAS CITY	43	26	51	19	34	8	T	.2	T	2.4	100	.1	11	91	57	0	6	1	0	
MO SAINT LOUIS	45	27	59	13	36	7	.2	.3	.1	6.6	165	.9	56	95	52	0	6	2	0	
MO SPRINGFIELD	46	28	56	18	37	5	T	.3	T	3.9	91	1.1	79	87	56	0	6	1	0	
MT BILLINGS	48	33	60	20	40	19	0	.2	0	1.6	100	.6	75	64	43	0	3	0	0	
MT GLASGOW	39	19	47	0	29	21	.2	0	.1	.9	90	.4	100	83	61	0	7	2	0	
MT GREAT FALLS	46	33	55	24	40	20	T	.2	T	1.6	80	.7	70	70	50	0	3	0	0	
MT HAVRE	45	29	57	10	37	26	0	.1	0	.4	33	.1	20	79	57	0	3	0	0	
MT HELENA	46	35	54	24	41	22	T	.1	T	1.1	79	.3	43	66	44	0	2	0	0	
MT KALISPELL	41	31	45	18	36	16	.2	.2	.1	2.4	75	.8	53	87	64	0	3	4	0	
MT MILES CITY	45	28	54	18	36	22	T	.1	T	.4	36	.1	25	90	64	0	5	0	0	
MT MISSOULA	44	31	52	18	38	16	.1	.2	.1	2.6	104	.8	62	88	60	0	2	2	0	
NE GRAND ISLAND	39	22	50	9	31	10	T	.1	T	2.5	179	.2	50	85	64	0	7	0	0	
NE LINCOLN	39	21	47	9	30	10	T	.1	T	2.2	183	.2	50	91	67	0	6	0	0	
NE NORFOLK	39	22	45	10	30	13	T	.1	T	2.5	227	.3	75	83	61	0	7	1	0	
NE NORTH PLATTE	40	16	47	1	28	6	0	.1	0	1.7	213	.4	100	80	52	0	7	0	0	
NE OMAHA	37	23	43	12	30	11	T	.2	T	3.4	213	.3	50	90	74	0	7	1	0	
NE SCOTTSBLUFF	45	24	53	8	34	9	T	.1	T	1.7	189	.4	133	76	45	0	6	0	0	
NE VALENTINE	43	20	50	4	32	12	T	.1	T	1.5	214	.4	200	77	50	0	5	0	0	
NV FLY	41	16	50	9	29	4	.1	.1	.1	1.8	113	.4	50	93	55	0	7	2	0	
NV LAS VEGAS	63	38	69	30	50	5	0	.1	0	.4	50	0	56	24	0	1	0	0	0	
NV RENO	51	25	58	21	38	4	0	.3	0	1.8	72	.4	33	86	43	0	7	0	0	
NV WINNEMUCCA	42	19	47	12	31	0	.1	.2	T	3.9	195	.2	20	85	53	0	7	2	0	
NH CONCORD	34	4	46	-33	19	-1	.5	.1	.5	7.7	120	1.6	64	92	46	0	7	1	1	
NJ ATLANTIC CITY	45	23	62	-7	34	3	.5	.3	.4	7.6	104	2.0	65	92	43	0	4	2	0	
NM ALBUQUERQUE	48	20	56	16	34	-2	0	.1	0	.7	78	.3	75	81	31	0	7	0	0	
NM CLOVIS	52	26	59	15	39	2	0	.1	0	.6	60	.3	60	68	36	0	7	0	0	
NM ROSWELL	59	25	62	20	42	0	0	.1	0	.3	100	0	0	71	23	0	7	0	0	
NY ALBANY	34	13	48	-20	24	3	T	.5	T	6.9	123	1.0	45	86	44	0	6	1	0	
NY BINGHAMTON	34	17	46	-4	26	5	.3	.2	.3	8.0	138	1.3	54	74	40	0	7	2	0	
NY BUFFALO	34	19	41	0	27	4	.4	.2	.3	10.3	156	1.2	44	85	53	0	7	3	0	
NY NEW YORK	40	25	49	6	33	2	.4	.3	.4	8.4	170	1.3	46	85	50	0	5	1	0	
NY ROCHESTER	32	18	42	-3	25	2	.3	.2	.2	7.0	137	1.5	75	79	50	0	7	2	0	
NY SYRACUSE	32	13	43	-19	23	1	.3	.3	.3	7.0	119	1.1	48	90	55	0	7	4	0	
NC ASHEVILLE	49	25	58	5	37	0	.8	0	.6	12.2	172	2.4	75	97	47	0	6	3	1	
NC CHARLOTTE	51	29	63	13	40	-1	.3	.6	.3	11.6	166	3.9	118	87	47	0	4	3	0	
NC GREENSBORO	50	26	63	7	38	0	.7	.2	.7	7.9	113	3.4	103	84	37	0	4	1	1	
NC HATTERAS	55	39	63	26	47	2	.9	.2	.5	9.1	97	2.0	47	91	67	0	2	3	0	
NC NEW BERN	57	35	70	14	46	2	.3	.7	.2	7.1	92	2.3	62	95	59	0	2	3	0	
NC RALEIGH	53	27	64	8	40	0	.2	.6	.2	11.7	175	4.9	153	90	47	0	5	2	0	
NY WILMINGTON	56	36	67	15	46	1	1.1	.2	.8	7.8	108	2.6	79	92	64	0	2	4	1	
ND RISMARCK	35	12	41	2	23	17	T	0	T	.8	89	.2	50	85	60	0	7	2	0	
ND FARGO	28	6	37	-10	17	13	.3	.2	.2	1.8	164	.5	125	83	54	0	7	3	0	
ND GRAND FORKS	28	4	38	-7	16	14	.2	.1	.1	1.1	92	.3	50	84	54	0	7	3	0	
ND WILLISTON	36	12	45	2	24	17	.2	0	.1	1.3	118	.6	120	90	68	0	7	2	0	
OH AKRON-CANTON	37	19	46	-4	28	4	.3	.3	.2	5.0	94	.8	35	79	51	0	6	3	0	
OH CINCINNATI	35	21	43	-3	28	-1	.5	.2	.3	4.5	73	.7	25	93	67	0	6	3	0	
OH CLEVELAND	35	18	44	-3	27	2	.4	.2	.3	4.6	82	.9	38	85	55	0	7	3	0	
OH COLUMBUS	36	21	45	-2	28	2	.6	0	.3	5.3	96	.9	36	82	53	0	6	3	0	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending Jan. 28, 1984

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 NOV 27	PCT. NORMAL SINCE NOV 27	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	34	19	45	-2	27	1	.4	-.2	.2	4.5	85	.9	38	83	55	0	7	3	0
TOLEDO	32	14	39	-2	23	0	.3	-.1	.2	5.7	119	.7	37	91	62	0	7	2	0
YOUNGSTOWN	36	17	44	-5	27	3	.4	-.1	.3	5.8	100	1.0	38	79	47	0	6	3	0
OK OKLAHOMA CITY	51	29	63	22	40	3	T	-.2	T	1.1	46	.4	44	86	45	0	6	1	0
TULSA	49	30	63	23	40	4	T	-.3	T	1.9	58	.9	82	86	51	0	4	1	0
OR ASTORIA	51	45	53	41	48	7	3.5	1.0	1.5	16.1	69	6.6	63	98	84	0	4	0	0
BURNS	37	17	42	6	27	-2	.1	0	.1	3.9	260	.2	40	86	70	0	6	6	3
MEDFORD	51	33	59	27	42	3	T	-.7	T	7.1	101	.1	3	100	69	0	4	2	0
PENDLETON	53	37	59	26	45	12	.3	-.1	.2	4.2	117	.6	38	81	52	0	1	3	0
PORTLAND	55	43	61	35	49	9	1.0	-.4	.5	7.3	56	2.0	34	94	71	0	0	4	1
SALEM	56	41	61	35	48	9	.9	-.6	.4	9.4	64	2.3	35	86	65	0	0	4	0
PA ALLENTOWN	36	16	49	-11	26	-1	.5	-.2	.5	9.8	136	1.3	42	84	46	0	7	1	0
ERIE	37	20	44	-5	29	4	.5	-.1	.5	6.4	107	1.4	58	75	46	0	5	3	0
HARRISBURG	37	17	48	-9	27	-2	.5	-.2	.5	8.5	83	1.0	36	86	50	0	7	1	0
PHILADELPHIA	41	20	57	-7	30	-1	.1	-.6	.1	9.2	135	1.6	55	89	45	0	7	1	0
PITTSBURGH	38	17	47	-7	28	2	.5	-.2	.3	6.4	119	1.1	42	82	48	0	7	3	0
SCRAMTON	35	20	48	-11	28	3	.5	-.2	.5	7.8	153	1.1	52	76	49	0	6	1	1
RI PROVIDENCE	40	18	52	-9	29	1	.4	-.5	.3	10.0	111	1.5	38	89	53	0	6	2	0
SC CHARLESTON	57	43	65	21	50	2	2.3	1.5	.9	9.4	149	5.0	172	95	65	0	3	4	3
COLUMBIA	54	34	65	17	44	-1	1.0	0	.4	10.9	138	4.0	100	89	55	0	3	4	0
FLORENCE	56	37	63	17	46	1	.8	0	.5	8.9	135	2.5	81	97	63	0	2	4	0
GREENVILLE	50	29	63	14	40	-1	.4	-.6	.4	12.2	149	3.1	79	84	45	0	4	3	0
SD ABERDEEN	33	13	42	6	23	14	T	-.1	T	.8	89	.1	25	98	71	0	7	1	0
HURON	34	16	43	5	25	13	T	-.1	T	1.2	133	.2	50	95	67	0	7	1	0
RAPID CITY	50	25	60	15	38	17	T	-.1	T	.6	60	.1	25	76	38	0	6	0	0
SIoux FALLS	34	15	40	9	25	12	T	-.1	T	1.3	118	.2	67	84	62	0	7	1	0
TN CHATTANOOGA	47	26	59	9	37	-2	1.5	-.4	1.0	14.8	141	3.2	68	93	52	0	5	2	1
KNOXVILLE	47	28	55	9	37	-1	.7	-.3	.6	9.1	96	2.3	55	91	53	0	5	2	1
MEMPHIS	44	28	56	14	36	-4	1.3	-.2	1.2	11.3	116	2.0	47	94	61	0	5	2	1
NASHVILLE	44	25	49	-1	35	-2	.4	-.6	.4	11.3	123	1.7	41	93	59	0	6	2	0
TX ABILENE	61	31	70	26	46	2	0	0	0	1.7	100	1.0	125	83	78	0	4	0	0
AMARILLO	49	22	59	12	36	0	0	0	0	1.3	118	.6	150	84	41	0	7	0	0
AUSTIN	62	39	78	32	50	1	.2	-.2	.2	2.6	68	1.7	121	85	41	0	1	1	0
BEAUMONT	62	42	69	31	52	0	.9	0	.7	14.4	164	6.5	176	99	64	0	1	3	1
BROWNSVILLE	66	49	74	39	58	-3	3.4	3.1	1.7	4.4	183	3.9	390	98	68	0	0	4	2
CORPUS CHRISTI	61	46	73	40	54	-3	1.8	1.4	.9	6.2	194	5.6	350	94	64	0	0	4	2
DEL RIO	63	40	76	34	51	0	T	-.1	T	1.2	150	1.2	400	81	32	0	0	0	0
EL PASO	61	27	66	18	44	-1	0	0	0	.4	57	.3	100	66	21	0	7	0	0
FORT WORTH	53	31	70	28	42	-2	.3	-.1	.3	2.2	69	1.1	79	94	49	0	5	2	0
GALVESTON	60	46	63	42	53	-1	.6	0	.4	6.2	91	2.9	112	94	71	0	0	3	0
HOUSTON	60	39	70	32	50	-2	1.0	.3	.9	8.6	121	3.8	131	92	55	0	1	3	1
LUBBOCK	59	23	65	20	41	2	0	0	0	.3	43	0	79	26	0	7	0	0	0
MIDLAND	61	29	66	24	45	1	0	0	0	.5	56	.4	100	77	27	0	6	0	0
SAN ANGELO	63	30	71	27	46	0	T	-.1	T	2.5	208	2.4	480	87	27	0	6	0	0
SAN ANTONIO	63	38	76	32	51	0	.4	0	.3	2.3	74	1.7	171	88	40	0	1	2	0
VICTORIA	63	43	77	37	53	0	1.1	-.6	.6	3.8	90	2.9	161	98	59	0	0	3	1
WACO	57	32	73	25	44	-2	.1	-.3	.1	1.7	45	.8	53	86	49	0	5	1	0
UT WICHITA FALLS	56	26	71	22	41	1	T	-.2	T	1.1	46	.2	22	89	38	0	7	0	0
BLANDING	43	16	54	10	29	1	0	0	0	1.7	63	.6	46	84	51	0	7	0	0
CEDAR CITY	43	18	53	8	30	0	.3	-.1	.3	1.3	108	.5	83	84	48	0	7	1	0
SALT LAKE CITY	36	23	43	15	30	0	.2	-.1	.1	4.7	174	.4	36	87	69	0	6	5	0
VT BURLINGTON	30	10	43	-17	20	4	.1	-.3	.1	6.5	141	.6	35	81	42	0	7	2	0
VA NORFOLK	51	30	66	16	40	1	.2	-.7	.1	8.9	125	2.8	80	87	51	0	4	3	0
RICHMOND	46	26	62	8	36	-1	.7	0	.7	8.4	124	3.8	131	91	49	0	6	2	1
ROANOKE	48	25	60	2	37	1	T	-.6	T	7.4	125	1.3	50	86	38	0	4	1	0
WA COLVILLE	38	29	45	22	34	8	.6	-.1	.4	4.0	82	1.6	76	94	82	0	5	3	0
QUILLAYUTE	49	43	50	38	46	7	8.8	5.5	3.8	26.3	82	17.4	127	100	80	0	0	7	4
SEATTLE-TACOMA	51	45	52	43	48	8	1.8	-.5	1.1	8.6	69	3.5	65	91	72	0	0	5	1
SPOKANE	43	32	49	26	38	11	.2	-.4	.2	3.5	69	1.0	43	92	74	0	3	1	0
YAKIMA	49	29	57	24	39	10	T	-.3	T	2.3	79	.2	14	84	61	0	6	1	0
WV BECKLEY	47	25	58	-3	36	6	.1	-.7	.1	3.6	52	1.2	38	83	42	0	5	1	0
CHARLESTON	48	22	58	-10	35	2	.2	-.6	.2	4.8	71	1.3	41	87	38	0	6	2	0
HUNTINGTON	43	22	52	-9	33	0	.3	-.4	.3	5.0	78	1.4	48	84	45	0	5	2	0
PARKERSBURG	44	23	54	-3	34	3	.4	-.8	.1	5.0	74	.7	19	98	57	0	6	2	0
WI GREEN BAY	28	12	34	-5	20	6	.1	-.2	.2	2.6	96	.5	50	93	62	0	7	4	0
LA CROSSE	29	14	37	1	22	8	.1	-.1	.1	1.4	70	.2	25	89	61	0	7	2	0
MADISON	30	17	34	0	23	8	.1	-.1	.1	3.6	170	.4	36	95	72	0	7	3	0
MILWAUKEE	33	19	36	6	26	7	.3	-.1	.1	4.9	129	.8	53	76	53	0	7	2	0
WAUSAU	26	9	35	-7	18	7	.2	0	.1	2.0	87	.4	50	79	61	0	7	1	0
WY CASPER	35	23	42	15	29	7	.4	-.2	.4	1.9	190	1.2	240	88	55	0	7	4	0
CHEYENNE	38	23	44	19	30	4	0	-.1	0	1.9	158	.5	83	73	48	0	7	0	0
LANDER	38	14	52	-2	26	6	0	-.1	0	1.6	145	.9	225	75	47	0	7	0	0
SHERIDAN	45	25	53	12	35	15	0	-.2	0	.8	57	.3	50	70	44	0	5	0	0
PR SAN JUAN	83	72	85	70	78	2	.6	-.1	.2	5.5	70	1.9	68	88	58	0	0	5	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS.

HEATING DEGREE DAY DATA WEEKLY SUMMARY
 CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
 ASSESSMENT AND INFORMATION SERVICES CENTER-NESDIS-NOAA
 LAST DATE OF DATA COLLECTION PERIOD IS 1-28-1984
 ACCUMULATIONS ARE FROM JULY
 ** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

STATE CITY	CALL WEEK	WEEK WEEK	WEEK WEEK	CUM	CUM	CUM	CUM	CUM	CUM	STATE CITY	CALL WEEK	WEEK WEEK	WEEK WEEK	CUM	CUM	CUM	CUM	CUM	
	TOTAL	DEV	DEV	TOTAL	DEV	DEV	DEV	DEV	DEV		TOTAL	DEV	DEV	TOTAL	DEV	DEV	DEV	DEV	
		FROM	FROM	FROM	FROM	FROM	FROM	FROM	FROM			FROM	FROM	FROM	FROM	FROM	FROM	FROM	
		NORM	NORM	NORM	NORM	NORM	NORM	NORM	NORM			NORM	NORM	NORM	NORM	NORM	NORM	NORM	
		L YR	L YR	L YR	L YR	L YR	L YR	L YR	L YR			L YR	L YR	L YR	L YR	L YR	L YR	L YR	
									PRCT										
									PRCT										
AL BIRMINGHAM	BHM	165	11	-14	2005	253	402	14	25	MT MILES CITY	MLS	200	-154	-90	4738	195	470	4	11
AL MOBILE	MOB	113	8	-26	1372	298	306	28	29	MT MISSOULA	MSO	188	-112	-15	4839	327	508	7	12
AL MONTGOMERY	MCM	136	3	-39	1544	128	398	9	35	NE GRAND ISLAND	GRI	240	-69	-53	4168	399	507	11	14
AK ANCHORAGE	ANC	430	73	129	5056	-325	-318	-5	-5	NE LINCOLN	LNK	244	-72	-33	4157	451	733	12	21
AK BARROW	BRW	593	30	91	10762	-102	-626	-1	-5	NE NORFOLK	ONK	241	-92	-62	4353	296	640	7	17
AK FAIRBANKS	FAI	697	162	242	8071	-532	-46	-6	-1	NE NORTH PLATTE	NBP	260	-44	5	4439	466	654	12	17
AK JUNEAU	JNU	254	-45	-12	5093	-78	389	-2	8	NE OMAHA	ON4	244	-68	-42	4262	650	760	18	22
AK KODIAK	ADQ	291	59	118	4031	-761	-460	-16	-10	NE VALENTINE	VTN	233	-89	-10	4617	453	735	11	19
AK NOME	OME	542	129	225	7010	-734	-91	-9	-1	NV ELY	ELY	253	-28	-2	3997	-209	-209	-5	-5
AZ FLAGSTAFF	FLG	223	-33	0	3556	-320	-459	-8	-11	NV LAS VEGAS	LAS	101	-35	-36	1326	-268	-321	-17	-19
AZ PHOENIX	PHX	52	-33	-11	610	-290	-57	-32	-9	NV RENO	RNO	188	-33	-20	2896	-502	-639	-15	-18
AZ TUCSON	TUS	102	6	9	952	-76	-78	-7	-8	NW WINEMEUCCA	WMC	240	1	22	3585	-40	-135	-1	-4
AZ WINSLOW	INW	238	15	64	2558	-319	106	-11	4	NH CONCORD	CON	320	3	47	4177	57	479	1	13
AZ YUMA	YUM	36	-27	2	375	-266	-149	-41	-28	NJ ATLANTIC CITY	ACY	213	-25	10	2950	209	420	8	17
AR FORT SMITH	FSM	202	12	10	2557	433	512	20	25	NM ALBUQUERQUE	ABQ	216	10	4	2536	-109	-240	-4	-9
AR LITTLE ROCK	LRI	190	16	-9	2410	473	517	24	27	NM ROSWELL	ROW	160	-2	-1	2163	170	-124	9	-5
CA BAKERSFIELD	BFL	107	-3	41	1160	-156	-393	-12	-25	NY ALBANY	ALB	289	-21	10	4017	203	537	5	15
CA EUREKA	EKA	102	-18	31	1758	-768	-199	-30	-10	NY BINGHAMTON	BGM	272	-36	1	3908	-55	433	-1	12
CA FRESNO	FAT	103	-26	17	1209	-399	-419	-25	-26	NY BUFFALO	BUF	265	-29	1	3858	238	667	7	21
CA LOS ANGELES	LAX	34	-29	-23	568	-197	23	-26	4	NY NEW YORK	LGA	224	-13	23	2757	116	385	4	16
CA RED BLUFF	RBL	69	-62	-30	1450	-114	-117	-7	-7	NY ROCHESTER	ROC	279	-15	23	3744	156	598	4	19
CA SAN DIEGO	SAN	22	-34	-10	306	-326	-122	-52	-29	NY SYRACUSE	SYR	293	-8	11	4047	404	583	11	17
CA SAN FRANCISCO	SFO	65	-47	-13	1097	-595	-562	-35	-34	NY ASHEVILLE	AVL	195	-1	8	2599	112	279	5	12
CA STOCKTON	SCK	117	-13	28	1370	-223	-358	-14	-21	NC CAPE HATTERAS	HAT	123	-17	-8	1529	113	371	8	32
CO DENVER	DEN	221	-25	15	3835	495	373	15	11	NC CHARLOTTE	CLT	173	5	-14	2168	181	288	9	15
CO GRAND JUNCTION	GJT	295	27	89	3198	-208	193	-6	6	NC GREENSBORO	GSO	187	-4	-14	2508	239	300	11	14
CO PUEBLO	PUB	223	-19	8	3513	345	371	11	12	NC RALEIGH DURHAM	RDU	176	0	-10	2266	195	347	9	18
CT BRIDGEPORT	BDP	247	-5	31	3021	154	305	5	11	NC WILMINGTON	ILM	129	-9	-4	1586	126	178	9	13
CT HARTFORD	BDL	280	0	27	3550	119	438	3	14	ND BISMARCK	BIS	290	-118	-49	5391	210	710	4	15
DE WILMINGTON	ILG	249	11	57	3063	302	631	11	26	ND FARGO	FAR	335	-90	-35	5522	221	681	4	14
DC WASHINGTON	DCA	204	-6	28	2462	119	481	5	24	ND WILLISTON	ISN	285	-123	-65	5457	167	501	3	10
FL APALACHICOLA	AQQ	60	-31	-43	1020	160	292	19	40	OH AKRON-CANTON	CAK	256	-27	16	3517	94	628	3	22
FL DAITONA BEACH	DAB	21	-42	-65	674	145	174	27	35	OH CLEVELAND	CLE	265	-15	30	3686	333	854	10	30
FL FORT MEYER	FMH	8	-27	-23	244	-23	45	-9	23	OH COLUMBUS	CMH	253	-14	27	3476	271	683	8	24
FL JACKSONVILLE	JAX	52	-36	-71	1015	134	184	15	22	OH CINCINNATI	CVG	257	4	33	3395	400	940	13	28
FL KEY WEST	EYW	0	-14	0	60	-6	25	**	**	OH DAYTON	DAY	266	-6	31	3678	474	802	15	38
FL MIAMI	MIA	0	-21	-10	126	13	49	12	64	OH TOLEDO	TOL	291	-3	36	4018	382	807	11	25
FL ORLANDO	MCO	15	-34	-44	481	84	128	21	36	OH YOUNGSTOWN	YNG	267	-21	35	3772	193	868	5	30
FL TALLAHASSEE	TLH	65	-33	-47	1149	120	307	12	36	OK OKLAHOMA CITY	OKC	176	-25	-30	2681	440	601	20	29
FL TAMPA	TPA	15	-41	-40	504	62	166	14	49	OK TULSA	TUL	176	-31	-21	2547	290	571	13	29
FL WEST PALM BEACH	PBI	2	-21	-21	172	26	38	18	28	OR ASTORIA	AST	118	-48	12	2772	-6	382	0	16
GA ATLANTA	ATL	168	7	-11	2046	231	364	13	22	OR BURNS	UBW	260	7	64	4574	658	366	17	9
GA AUGUSTA	AGS	139	-1	-16	1676	104	231	7	16	OR MEDFORD	MFR	159	-26	23	2520	-193	-83	-7	-3
GA MACON	MCN	127	-3	-12	1515	99	305	7	25	OR PENDELTON	PDT	136	-84	-3	3286	220	276	7	9
GA SAVANNAH	SAV	96	-13	-32	1264	60	236	5	23	OR PORTLAND	PDX	113	-66	-9	2443	-153	133	-6	6
HI HILO-HAWAII	ITO	0	0	0	0	0	0	**	**	OR SALEM	SLE	116	-61	-12	2408	-291	-113	-11	-4
HI HONOLULU-OAHU	HNL	0	0	0	0	0	0	**	**	PA ALLENTOWN	ABE	271	5	43	3388	158	543	5	19
HI KAHULUI-MAUI	OGG	0	0	0	0	0	0	**	**	PA ERIE	ERI	255	-32	18	3488	-52	586	-1	20
HI LIHUE-KAUAI	LIH	0	0	0	0	0	0	**	**	PA HARRISBURG	CXY	271	19	60	3373	384	788	13	30
ID BOISE	BOI	250	11	88	3693	358	369	11	11	PA PHILADELPHIA	PHL	241	3	35	2967	224	548	8	23
ID LEWISTON	LWS	167	-58	23	3214	47	276	1	9	PA PITTSBURGH	PIT	259	-14	34	3566	244	696	7	24
ID POCATELLO	PIH	260	-23	58	4228	220	242	5	6	PA SCRANTON	AVP	261	-19	13	3565	68	419	2	13
IL CHICAGO	ORD	270	-37	6	4130	543	812	15	24	RI PROVIDENCE	PVD	248	-11	22	3059	-99	289	-3	10
IL MOLINE	MLI	251	-68	-13	3984	281	784	8	24	SC CHARLESTON	CHS	101	-18	-23	1297	-4	197	0	18
IL PEORIA	PFA	244	-61	-10	3774	213	774	6	26	SC COLUMBIA	CAE	147	6	-11	1816	210	190	13	12
IL ROCKFORD	RFD	287	-41	13	4301	375	843	10	24	SC GREENVILLE	GSP	174	6	-7	2250	316	417	16	23
IL SPRINGFIELD	SPI	248	-35	-1	3631	393	738	12	26	SD ABERDEEN	ABR	294	-102	-35	5131	228	844	5	20
IN EVANSVILLE	EVV	242	1	42	3031	260	801	9	36	SD HURON	HON	280	-95	-17	4805	169	843	4	21
IN FORT WAYNE	FWA	273	-21	33	3624	105	699	3	24	SD RAPID CITY	RAP	189	-118	-50	4392	323	612	8	16
IN INDIANAPOLIS	IND	252	-21	19	3513	293	713	9	25	SD SIOUX FALLS	SFD	280	-88	-55	4808	290	574	6	14
IN SOUTH BEND	SBN	263	-31	23	3837	321	846	9	28	TN CHATTANOOGA	CHA	197	15	16	2385	235	446	11	23
IA DES MOINES	DSM	262	-63	-10	4185	436	873	12	26	TN KNOXVILLE	TYS	194	6	27	2463	268	427	12	21
IA DUBUQUE	DBQ	283	-63	-10	4480	304	766	7	21	TN MEMPHIS	MEM	199	24	18	2231	284	531	15	31
IA SIOUX CITY	SIX	253	-87	-68	4378	354	561	9	15	TN NASHVILLE	BNA	211	15	31	2493	261	571	12	30
KS COMCORDIA	CMK	213	-65	-67	3857	611	617	19	19	TX ABILENE	ABI	132	-19	-37	1978	333	297	20	18
KS DODGE CITY	DDC	224	-23	-6	3371	433	620	15	23	TX AMARILLO	AMA	203	-2	-47	2911	420	277	17	11
KS GOULDLAND	GLD	250	-12	28	3930	476	645	14	20	TX AUSTIN	AUS	101	-15	-32	1426	302	214	27	18
KS TOPEKA	TOP	212	-58	-20	3534	399	649	13	22	TX BROWNSVILLE	BRO	50	-1	6	668	265	252	66	61
KS WICHITA	ICT	224	-22	-25	3452	629	700	22	25	TX CORPUS CHRISTI	CRP	78	4	-2	966	339	273	54	39
KY LEXINGTON	LFX	230	-7	23	3000	235	613	8	26	TX DEL RIO	DRT	94	-5	-6	1337	308	270	30	25
KY LOUISVILLE	LEX	237	8	34	2926	302	627	12	27	TX EL PASO	ELP	148	8	4	1531	-200	-230	-12	-13
LA BATON ROUGE	BTR	120	15	-6	1402	336	392	32	39	TX FORT WORTH	DFW	161	20	-6	2005	570	474	40	31
LA LAKE CHARLES	LCH	93	-7	-34															

National Agricultural Summary

January 23 to 29

HIGHLIGHTS: Milder temperatures and light precipitation reduced livestock stress across the Great Plains and Corn Belt. Soil moisture was replenished by melting snow but the reduced snow cover left winter wheat vulnerable to winterkill in many areas. Field activities were limited across much of the Nation by adequate to surplus soil moisture. Growers in the Southeast had only 1 to 2 days suitable for fieldwork because of rains early in the week.

Winter wheat stands were in fair to good condition with limited snow cover. Warmer temperatures helped improve Texas wheat stands but more precipitation would be beneficial. Land preparation for cotton planting continued active in California and the Southwest. Orchard pruning became more widespread with the milder weather. Florida producers were finishing the salvage of freeze-damaged citrus. Producers continued supplemental feeding of livestock. Feed supplies were generally adequate but hay supplies were becoming short in some areas. Calving and lambing gained momentum.

SMALL GRAINS: Winter wheat continued in fair to good condition across the major producing areas. Moderate temperatures melted much of the snow cover across the Great Plains leaving some winter wheat areas vulnerable to winterkill from cold weather. Stands had adequate soil moisture, except in portions of Texas where additional precipitation would aid crop development.

Snow cover was diminished in most areas of Kansas. Wheat stands were vulnerable to cold temperatures, but wet topsoil minimized wind erosion. Some wheat fields were being grazed. Oklahoma producers applied top dressing to wheat fields. Stands were in fair to good condition with no winterkill reported. Small grains responded favorably to warmer weather and light precipitation in Texas. However, more moisture is needed to aid recovery of stands. Wheat began to green up in central and south Texas after receiving light rain. Winter wheat conditions were rated poor to mostly fair across the State. Warmer weather decreased snow cover in Montana, but winter wheat continued in good condition with only light wind damage.

OTHER CROPS: Wet field conditions delayed harvesting of the remaining minimal acreages of corn and soybeans. Cotton harvesting was virtually complete in Arizona and New Mexico. Producers actively prepared land for spring planting. Texas cotton producers continued field clean-up operations. Field preparations for cotton planting increased in California.

Tobacco plantbed preparation was slowed by wet conditions in the Southeast. Fire-cured and sun-cured tobacco were prepared for marketing in Virginia. Burley sales were generally finished in Kentucky. Young sugarcane improved with more favorable weather in Florida; harvesting was active. Sugarcane cutting continued active in the Rio Grande Valley of Texas.

FRUITS AND NUTS: Milder weather permitted pruning of orchards and vineyards in most regions. Growers actively applied dormant sprays.

Springlike weather in Florida's citrus areas increased sprouting of new growth. Fruit droppage was light in areas escaping the previous freeze. Harvesting crews were finishing the salvage of freeze-damaged fruit for processing. Packing houses were very active in the Indian River District.

Leaves on freeze-damaged citrus trees began to fall in the Rio Grande Valley of Texas. Valencia orange harvesting started in Yuma, Arizona, while lemon and grapefruit packing continued steady. A few Valencia oranges were picked in the Central Valley while the Navel orange harvest was complete. Citrus groves and the maturing fruit continued in good condition.

In California, high winds caused sporadic damage, especially along the outside rows of unprotected orchards in southern counties. Scarring of oranges is expected to rise. The date harvest was virtually complete. Producers actively pruned and sprayed orchards and vineyards. Navel oranges were packed in central California.

VEGETABLES: Warm days and mild nights prevailed in Florida's vegetable areas. Most crops responded very well to the improved growing conditions. Total shipments declined 2% from the previous week. Cabbage, Chinese cabbage, sweet corn, cucumber, lettuce, and pepper volumes continued steady, while supplies of celery, escarole, parsley, potatoes, and radishes increased. First crop strawberry picking neared completion. Producers increased seeding of early spring crops.

Wet weather halted vegetable harvesting in the Lower Rio Grande Valley of Texas. Some bell peppers and tomatoes will be planted when dry conditions return. Land preparation for spring vegetable planting began in the San Antonio-Winter Garden area. Cabbage and onion planting got underway in East Texas. Broccoli, cauliflower, and Iceberg lettuce harvesting was in full swing in Yuma, Arizona, while cabbage and asparagus harvesting increased in volume. Thinning of spring lettuce was active in the Marana area. The fall lettuce harvest was complete in the Parker-Poston area and spring lettuce was in excellent condition. A variety of vegetables were harvested in the Salt River Valley.

Asparagus, cauliflower, and celery were harvested in light volumes in California. Lettuce harvesting was winding down in the Imperial Valley and increasing in the Palo Verde Valley. Strawberry harvesting was light in southern California. Land preparation and planting of processing tomatoes increased.

PASTURES AND LIVESTOCK: Warmer weather decreased livestock stress but producers continued heavy supplemental feeding. Feed supplies were generally adequate but hay and forage supplies were becoming short in many areas. Pastures continued in fair to mostly poor condition across the South.

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 SRS State Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Temperatures averaged near seasonal levels. Two to 4.00 in. rainfall across central and southern parts of State, 1.00 to 2.00 in. north.

ARIZONA: Sunny skies dominated weather except scattered light snow over Grand Canyon, Mogollon Rim, White Mountains on 26th. Moisture amounts mostly under 0.10 in. Warming trend latter part of week, maximum readings reached 50's at 7,000 ft. level, 60's at 5,000 ft. level, upper 70's lower southwestern deserts. Temperatures averaged 2° below normal to 5° above.

Iceberg lettuce, broccoli, cauliflower harvest full swing Yuma. Cabbage harvest underway, asparagus packing increased volume. Moderate volumes leaf lettuce picked. Spring lettuce up, making good progress Marana, thinning active. Fall lettuce harvest complete Parker-Poston, spring lettuce excellent condition. Picking greens, leaf lettuce active, volumes heavy, carrot harvest increased Salt River Valley. Red, green cabbage demand strong, prices averaged \$20 to \$25 box. Mixed vegetable harvests active, melon planting started Salt River Valley. Wheat, barley seeding near completion Yuma, Cochise Counties, Central Valley, over 60% seeded Graham County. Stands established on much of acreage, earlier plantings reached jointing stage. Plants on 10% acreage headed Yuma County. Cotton harvest practically complete. Land preparation for spring planting active. Alfalfa hay harvest increased Yuma County, remained at standstill other areas. Valencia harvest started Yuma, lemons, grapefruit packing continued seasonal volumes few Valencias picked Central Valley, Navel orange harvest complete. Seasonal volumes tangerines, lemons, grapefruit picked. Citrus groves maturing fruit good condition.

ARKANSAS: Despite a cold beginning, most of the week was slightly warmer than normal. Most of the rainfall occurred at first of week and heaviest in the east and south. Highest temperature 72°, lowest 15°. Most rainfall 1.93 in., least 0.10 in.

Too early to tell if weather has damaged wheat or oats. Pasture condition poor. Feed supplies critical. Most farmers feeding grain. Livestock in fair condition. Soil moisture in good condition.

CALIFORNIA: Considerably warmer than normal temperatures reported throughout the State. Some areas were a dozen degrees warmer than normal along the north and south coasts and in the central Sierra Nevada range. A weak weather system moved across the State the beginning of the week with spotty and light precipitation amounts. The much drier than normal January has brought season precipitation totals closer to normal. The Sacramento Valley is about 160% of normal and the San Joaquin about 125% of normal. Sun, warmer temperatures.

Spring planting wheat, barley, oats. Broadleaf weed control active. Cotton fields prepared. Some old field corn harvested. Young sugarbeets good shape. Desert alfalfa cut, baled. Sheep pastured alfalfa. Weather favorable, fieldwork active, high winds southern counties. New apricot orchards planted, established orchards treated for canker and blast. Some avocados downed by high winds, southern counties. Damage sporadic, outside

rows of unprotected orchards hit hardest. Date harvest complete. Grape vine pruning and tying of canes active. Kiwifruit vines and olives pruned. Dormant spraying and pruning of stone fruits. Navels packed, central California. A few oranges blown off by wind in southern counties, scarring expected to rise. Early almonds in green tip stage. Asparagus harvest light Desert and southern areas. Cauliflower supplies light Central Coast and Desert. Celery harvest light South Coast and Desert. Quality generally good. Lettuce harvest winding down Imperial Valley, increasing Palo Verde Valley. Spring fields Huron area doing well. Winter potato harvest continued Kern-Riverside. Fall movement strong Tulelake-Butte Valley. Light harvest strawberries southern California. Quality good, prices high. Processing tomato field preparation and planting activity increasing. Warm, sunny days improved grass growth, however, rain needed sustain growth. Supplemental feeding continues active most areas. Movement of fed lambs slaughter increasing.

COLORADO: Week was a very dry period with only measurable precipitation occurring in the State on 25th, when 1 in. or so of snow fell in the northern mountains and northwestern part of the State. Temperatures climbed slowly throughout this period but remained below normal in most locations, particularly in the San Luis Valley where average temperatures were 5 to 15° below normal.

FLORIDA: Cool, 23rd followed by daytime highs in the 80's central, south; 70's north. Temperatures remained in the 80's, central, south rest of week but cool 60° readings prevailed, north. Rain spotty, generally light central, south more widespread. Heavy, intermittent rain occurred across the north with a few amounts of 1.00 to 2.00 in. Weekend mostly clear, mild except some cloudiness that lingered over south on 28th.

Soil moisture adequate south, central; adequate to excessive north; mostly excessive Panhandle. Land preparation limited in Panhandle, some tobacco land prepared in north. Tobacco seedings in plant beds good progress. Small grains slow to recover from freeze in most areas. Sugarcane harvest still active. Young cane improving with more favorable weather. Pasture conditions remain poor to fair, north, central, and Panhandle; generally fair lower southern Peninsula. Supplemental feeding continues as grazing remains very limited. Cattle remain in poor to fair condition Statewide. Springlike weather citrus areas; new growth sprouting, fruit drop light in undamaged areas, harvesting crews finishing salvage in damaged areas. Indian River District packing houses very active. Warm days, mild nights prevailed vegetable areas most of week. Cool front brought light, scattered showers west central and east coast. Fog occurred several mornings. Crops responded very well to improved growing conditions. Vegetable shipments declined 2% during week. Crops declining in supply were snap beans, carrots, eggplant, squash, strawberries, tomatoes. Crops remaining steady were cabbage, Chinese cabbage, sweet corn, cucumbers, lettuce, peppers. Gaining in supply were celery, escarole, parsley, potatoes, radishes. Harvest first crop strawberries nearing completion. Supplies should gain after mid February. Winter potato digging increasing. Seeding early spring crops gaining.

GEORGIA: Dry and quite cold early in week. Slow warming trend during period with average temperatures 3 to 6° below normal. Rainy latter half of week with totals around 1.25 in. north to 4.00 in. or more southeast. Bulk of rain occurred on 23rd and late 26th. Temperatures over 28th and 29th averaged 1 to 2° above normal northern third of State and 1 to 2° below normal southern two-thirds. Trace amounts of precipitation extreme northeast, scattered amounts around 0.10 in. south.

Soil moisture surplus. Field activity limited due to rain and wet fields. Tobacco plants fair condition. Small grains poor condition. Small grains poor central, good north, fair north central and southwest, poor to good southeast. Pastures poor to mostly fair. Cattle mostly fair. Hogs mostly fair to good.

HAWAII: Growing conditions were mostly favorable. Cloudy conditions alternated with sunny skies producing relatively dry weather. Light passing showers fell mainly in the higher elevations and in windward areas. Winds were occasionally gusty, causing minor damage to crops in exposed areas. Production of head cabbage, head lettuce, and Chinese cabbage continued to remain heavy. Spraying to control disease and insects reportedly heavy in some areas. Banana supplies light. Papaya supplies currently moderate, but production on a seasonal decline.

IDAHO: High pressure once again dominated the weather picture. A few weak weather disturbances moved into the State bringing varying amounts of precipitation. The high pressure has caused fog and low clouds to be trapped in many valley locations because of temperature inversion conditions aloft. As a result some mountain locations have been warmer than the valleys. Temperatures in the north were above normal where the warmer air aloft was able to penetrate to the surface. Most of the north was 5 to 10° above normal. Most of the south was below normal with cold air remaining trapped in many valley locations. Caldwell was the coldest with 6° below normal. Salmon was 6° warmer than normal. Moscow was 0.69 in. above normal for one of the wettest locations, while Sandpoint was 0.81 in. below normal. A large portion of the east was dry, however, Ashton was 0.80 in. above normal.

Farm activities continued at the same winter time levels that they have for the past few weeks. Snow pack conditions varied widely ranging from below normal conditions in the north to record high conditions in the extreme south and southeastern part of the State. Low elevation snow packs were high across the southern half of the State. Reservoir carry-over storage is near average to well above average in most reservoirs. Near normal precipitation the remainder of the season should provide water users throughout the State with an adequate water supply.

ILLINOIS: Temperatures 2 to 9° above normal. Precipitation 0.04 to 1.03 in., heaviest south; 4 in. snow north.

Wheat condition mostly good. Livestock condition mostly fair. Hay supplies mostly short.

INDIANA: A break in the cold and some thawing occurred. Temperatures averaged 6 to 9° above normal north, 3 to 5° central and 2 to 3° south. Precipitation mostly 0.25 to 0.75 in. mainly as light snow north and central, and rain in south. Snow cover melted in central and south but 1 to 3 in. remained in north. New snow by 23rd morning from 5 to 10 in. north,

3 to 5 in. central and 1 in. or less south. Soil freeze depth from 5 to 18 in.

Limited outside activity. Major activities were caring for livestock, hauling manure, cutting firewood, attending meetings, working on taxes, shopping for chemicals and seed, moving snow, maintenance equipment and usual chores.

IOWA: A mild dry week. Temperatures averaged about 10° above normal and precipitation totaled little or none. Snow cover diminished by the weekend to average a trace south upward to 3 to 6 in. northeast.

KANSAS: Temperatures averaged 34 to 36° west and north central, 37 to 39° east and south central. These were 5 to 7° above normal west and south and 9 to 13° above normal in the northeast. Little or no precipitation. Snow melted except extreme northwest. Snow cover melted most areas. Wheat vulnerable to cold temperatures but soil blowing minimized because of wet topsoil. Some grazing wheat fields. Mild temperatures, less stress to livestock. Farmers caring for livestock and repairing machinery.

KENTUCKY: Temperatures were around normal with no incidences of extremely cold temperatures. Highs would be in low 40's. Precipitation occurred beginning and end of week. Amounts generally ranged from 0.25 to 0.50 in.

Burley sales generally finished with much of sales since Christmas going to pool. Supplemental feed requirements heavy to maintain livestock. Precipitation for January well below normal, but soil moisture generally ample.

LOUISIANA: Rainfall amounts ranged from 0.33 in. to almost 2.00 in. Average temperatures were near or a little below normal. High 74°, low 16°.

Activities: Routine chores and caring for livestock.

MARYLAND AND DELAWARE: Maryland: Temperatures averaged mostly 3 to 6° below normal and precipitation averaged 0.31 in. High temperatures which occurred late in the week were in the high 50's to low 60's and low temperatures recorded early in the week ranged from -1 to -12°. Precipitation averaged around 0.25 in. in north and west and the central Eastern Shore, 0.15 in. in southern counties west of the Bay, and 0.75 in. on the lower shore. The 28th was sunny with high's in the low to mid-50's and lows in the mid-20's. The 29th was cloudy and cooler with high's around 40 and lows around 20.

Delaware: Temperatures ranged from 1 to 6° below normal with cooler temperatures north. High temperatures, recorded late in the week, were in the mid to upper 50's while minimum temperatures ranged from a -14 at Wilmington to -4 at Dover. Precipitation averaged 0.20 in. with lighter amounts north. The 28th was warm and sunny with maximum temperatures in the low to mid-50's and minimum temperatures in the high 20's. The 29th was cloudy and cooler with highs near 40 and low's in the mid 20's.

MICHIGAN: Above normal temperatures almost seemed mild in the aftermath of the previous week's bitter cold. Average temperatures were 3.5° above normal which is in sharp contrast to the previous week's average temperature which was 1.7° below normal. Reported snowfall ranged from 1 to 10 in.

MINNESOTA: Temperatures averaged 5 to 12° above normal. High: 41°. Low: -26°. Precipitation averaged 0.08 to 0.12 in. below normal for central and southeast, 0.08 to 0.11 in. above normal for northwest and north central, and near normal

elsewhere. Greatest reported weekly total: 0.59 in. Snowfall averaged 2 to 6 in. Snow depth at week's end averaged 8 to 10 in. for northwest, west central, and southwest; and 16 to 22 in. elsewhere.

MISSISSIPPI: Temperatures averaged 54° on the coast and 36° in the northern part of the State. Extremes 70 and 17°. Rainfall ranged from 0.80 to 3.06 in. Greatest amounts in the central counties.

Soil moisture surplus. No days suitable for fieldwork, 1.0 1983, 1.9 average. Hay and roughage supplies short to adequate. Feed supplies adequate. Wheat condition fair to poor. Pasture condition poor due to extreme cold, wet weather. Livestock condition fair but ranchers were having to feed more than usual.

MISSOURI: Temperatures returned to above normal readings, averaging 4 to 6° above. Only the Bootheel remained below normal averaging 6° below due to lingering cloud cover and rain early in the week. Precipitation was light averaging 0.10 in. or less in the north and west and 0.50 to 1.00 in. in the southeast.

Topsoil moisture for January varied only slightly from December, with 1% short, 68% adequate and 31% surplus. In much of the State winter wheat fields are brown from freezing temperatures. The wheat crop was 6% poor, 53% fair, and 41% good with no excellent reports. The overall condition of livestock was rated as 8% poor, 78% fair and 14% good. Producers are buying forage for livestock with supplies 72% short, 28% adequate and no surplus supplies.

MONTANA: Temperatures turned warm first of week and remained throughout the week. Overall temperatures 15 to 25° above normal. Very windy most days over plains area. Precipitation confined to area west of Divide and extreme northeast. Amounts mostly 0.10 to 0.25 in. with some 1.00 in. amounts in west.

Warmer weather has decreased snow cover somewhat, but winter wheat remains good condition. Wind damage light. Livestock good condition. Feed supplies generally adequate.

NEBRASKA: Precipitation extremely light. Temperatures 14° above normal. Snow depth less than 1 in. northwest to 7 to 8 in. northeast.

Winter wheat fair to good. Hay and forage supplies below average in over half State.

NEVADA: High pressure systems produced clear, sunny skies most of week. Temperatures averaged 2 to 7° warmer than normal most areas. High pressure also kept most of storm activity to extreme north and east. Many stations reported no precipitation for entire period.

Livestock benefitted from sunny weather. Feeding requirements normal. Livestock mostly good condition. Movement potatoes to market on upswing as result higher prices.

NEW ENGLAND: Mean temperatures for the week were 3 to 5° above normal over northern New England, except near normal over extreme northern portions of New Hampshire and Maine. Southern New England ran between 2 and 6° above normal. High temperatures at midweek were in the mid to upper 30's in northern Maine, low to mid 40's in central New England, and mid 40's to low 50's in southern New England. Precipitation (melted) for the week mainly occurred at the onset of the warming in midweek, ranging from 0.10 to 0.80 in., with the least falling over northwestern Vermont, and the most over Massachusetts.

NEW JERSEY: Temperatures slightly above normal, averaging 30° north, 34° south and 37° coastal. Extremes were -3 and 63°. Precipitation was below normal, averaging 0.45 in. north, 0.47 in. south and 0.43 in. coastal. The heaviest 24-hour total reported 0.59 in. on the 24th to 25th. Heaviest 24-hour snowfall was 1 in. on the 29th to 30th. Depth of snow on ground early 30th ranged from 1 to 7.5 in.

Fieldwork: Farmers cutting firewood, tending to livestock, attending special events and preparing tax forms.

NEW MEXICO: Temperatures ranged from below normal northwest to above normal eastern plains. Warm weekend temperatures very welcome. Minimum temperatures: -12°, northern mountains. Maximum temperatures: 75°, southeastern plains. Only precipitation reported in northeastern plains, trace amounts.

Soil moisture supplies short-adequate. Activities centered around winter maintenance tasks-supplemental livestock feeding, water line, fence and farm machinery repairs. Planting preparation common in warm areas. Limited amount cotton, grain sorghum unharvested. Irrigated small grains rated good; dryland fields fair, thinner stands. Some greenbug reported in early planted wheat. Mesilla Valley: Pecan tree pruning, spring seedbed preparation for cotton and vegetables. Supplemental livestock feeding heavy. Cattle, sheep rated fair. Snow melting, east side ranges. No grass cover.

NEW YORK: January thaw dominated the week. Temperatures started and ended cold, but above average 26th and 27th. Record lows on 22nd at Albany (-20°) and Syracuse (-19°). Precipitation much below normal. Snow pack decreased considerably as a result of the thaw. Watertown lost 28 in., other communities lost 8 to 10 in.

NORTH CAROLINA: Temperatures were mostly near normal. Precipitation heaviest in foothills and southern mountains.

Soil moisture: 43% adequate, 57% surplus. Days suitable for fieldwork: 1.5. Condition: Wheat: 11% poor, 49% fair, 40% good. Oats: 11% poor, 57% fair, 32% good. Barley: 16% poor, 49% fair, 35% good. Rye: 11% poor, 59% fair, 30% good. Harvests: Soybeans: 100%, 1982 100%, average 100%. Farm feed supplies: Hay and roughage: 30% short, 70% adequate. Feed grains: 27% short, 73% adequate. Major farm activities: Preparing seed beds, cutting firewood, tending livestock, general farm maintenance, and machinery repair, pruning fruit trees.

NORTH DAKOTA: Week had much above normal temperatures. Scattered rain and snow occurred on several days. District average temperatures ranged from 10 to 20° above normal. Highest temperature for the week was +50° on the 24th, low -18° on the 27th. Precipitation ranged from 0.04 in. in the south central district to 0.38 in. in the northeast district. At the end of the week snow depths ranged from a trace in the southwest and south central to 7 in. in the north central and east central districts.

Mostly above normal temperatures eased stress on livestock. Low participation to date in dairy program. Additional snowfall over weekend in eastern areas a positive factor for soil moisture; potential for spring flooding not considered high at this time.

OHIO: Average temperatures 2 to 8° above normal. Average high's mid-30's to near 40. Average lows lower to upper 20's. Precipitation totals 0.30 to 0.50 in. Soil temperatures at 4 in. bare 29 to 31°.

Higher temperatures melted snow cover and left water standing in fields. Adequate snow cover again by end of period. Winter wheat in fair to good condition, some patches ice-covered under the snow.

OKLAHOMA: Average temperatures within 20° of seasonal normals Statewide. Precipitation confined to central and eastern localities, with highest totals near 0.40 in.

Warm, sunny weather this weekend produced good growing conditions for wheat. No signs of winterkill observed. Many farmers applying top dressing. Wheat and cattle in good to fair condition.

OREGON: Generally warmer and wetter with temperatures averaging 3 to 5° above normal west of the Cascades and 3° below normal eastward. Precipitation: 2.00 to 4.00 in. at the coast; 1.00 in. in the Willamette Valley; and less than 0.30 in. elsewhere in the State.

In the east, most winter wheat fields remain snow covered. Fall seeded grain and seed crops in good condition in the west, except fall oats damaged by earlier freezing. Also in the west, pruning of orchards and berries continues. The berry crop expected to be down from last year due to the cold. Freezing temperatures have damaged winter vegetable crops as well. Most farm activities involve livestock feeding, equipment repair. Livestock in generally good condition. Lambing underway.

PENNSYLVANIA: Extremely cold early week, widespread ice storm midweek, and January thaw latter part of week. Well below zero readings observed over much of the State early this week. By the end of the week daytime highs were reaching the 40's and 50's which caused a great deal of snow to disappear. Precipitation was on the light side and below the normal of around 0.60 in. Amounts ranged from just over 0.10 in. to around 0.50 in.

PUERTO RICO: Island average rainfall 0.59 in. or 0.14 in. below normal. Highest weekly total 2.15 in. Highest 24-hour total 0.95 in. Temperature averaged about 76° on coasts and 72 to 69° Interior Divisions. Mean station temperature ranged from 78.3 to 62.5°. Extremes 91 and 49°.

SOUTH CAROLINA: Below normal temperatures climbed early in week to above normal. Cloudy and humid with moderate rainfall 24th to 27th most areas.

Farmers testing or liming acid soils, pruning trees, feeding livestock and repairing farm machinery.

SOUTH DAKOTA: Average temperatures 11 to 22° above normal. Extremes: 65 and -10°. Melted precipitation 0.10 in. or less over most of State. Greatest amount 0.14 in. northeast. All reporting stations 0.15 to 0.40 in. below for the year.

TENNESSEE: A frontal trough moved through State bringing heavy rains on 23rd. Rain ended in east early 24th. Precipitation levels ranged between 1.00 and 2.00 in. at many places but averaged near normal for the week. Temperatures were very cold at the beginning of the week with low temperatures near zero; however, by midweek temperatures had warmed to near normal levels.

TEXAS: Moisture Gulf remained eastern part State as weak cold front developed southeast Texas, Coastal Plains. Systems produced light rain, drizzle southern, southwestern Texas. Midweek, heavy showers parts South Texas, Rio Grande

Valley. End week, clear skies, warmer temperatures over State, high pressure, dry northeasterly flow prevailed. Temperatures above normal High and Low Plains, north central Texas, Edwards Plateau. Near normal elsewhere. Precipitation below normal large portion State. Normal Upper Coast. Above normal south central, South Texas, Lower Valley.

Crops: Warmer weather most State, producers continue field operations spring crops. Plains, fields cleaned up, herbicides applied. Throughout Central, South Texas, small rain helped small grains recover. Wheat, oats providing short grazing, supplemental feeding cattle continue, pastures, ranges provide adequate grazing. Small grains responding favorable weather. High, Low Plains, wheat improving warmer weather. Sunshine, moisture needed to aid recovery. Oats severely damaged, favorable weather not helped recovery as much as wheat. Central, South Texas, light rain, wheat fields green up. Wheat remains stressed, limited grazing available. additional moisture, warm weather needed. Oats heavily damaged from cold weather; stands recovering slowly, not providing grazing. Top dressing small grains occurring. Grain mites, green bugs continue to cause problem if not held in check. East Texas, small amounts rain benefitted small grain recovery. Statewide wheat condition rated 54% normal compared 69% last year. Current conditions 10% good; 67% fair; 23% poor.

Commercial vegetables and citrus: Lower Rio Grande Valley, harvest at stand-still due wet weather. Bell peppers, tomatoes planted when drier conditions return. Diseases beginning stress onions. Cabbage harvest start in week followed by lettuce mid-February. Yield low due to Christmas freeze. Cantaloupe, honeydew melons, watermelons planted early February. Leaves on citrus trees begun to fall off due to hard freezes. San Antonio-Winter Garden, land preparation spring vegetables begun. East Texas, planting cabbage, other cole crops, onions begun. High, Low Plains, some onions seeded. Fertilization potato fields begun.

Range and livestock: Ranges, pastures continue fair, poor condition. Plains wheat fields providing little, no grazing. West Texas ranges continue in poor condition, moisture needed. Central, South Texas ranges, pastures some improvement due rain. Ranges fair condition, wheat pastures providing grazing. Heavy supplemental feedings, hay stocks beginning short. Cattle fair condition, continue stressed from cold. Lice infest cattle. Lambing Hill Country, West Texas picking up. Stock tanks low, in need rain.

UTAH: Precipitation light to moderate north-west half, zero most of southeast half. Temperatures averaged 7° below normal. Range, 2° below Dixie Division to 15° below Uintah Basin Division.

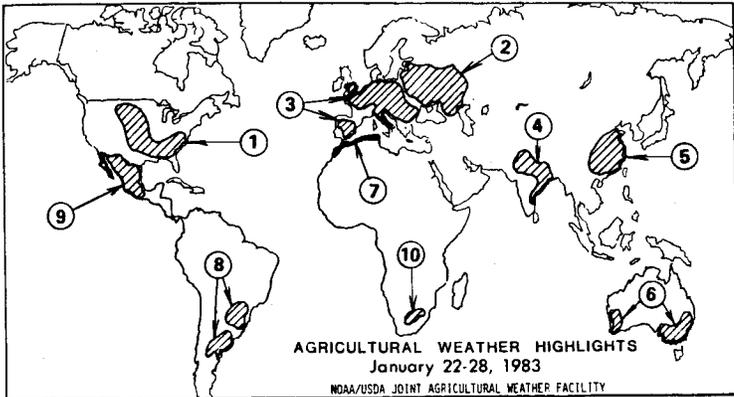
Major farm activities limited to daily chores and inside work such as sorting and marketing of potatoes, apples and onions. Ranchers and stockmen feeding livestock on open ranges. Cattle and sheep were in stressed condition due to cold temperatures.

VIRGINIA: State remained under a high pressure system early part of period. Temperatures fell into single digits and sub zero values over west and north locations. Arctic high pressure center moved off coast 24th and State enjoyed warming trend through 27th. Temperatures cooled to near normal over weekend. Despite warming trend temperatures averaged 3 to 4° below normal for period. Rain and snow fell over majority of State 24th and 25th averaging 0.25 to 0.50 in. except south central and southwestern areas received around 0.75 in.

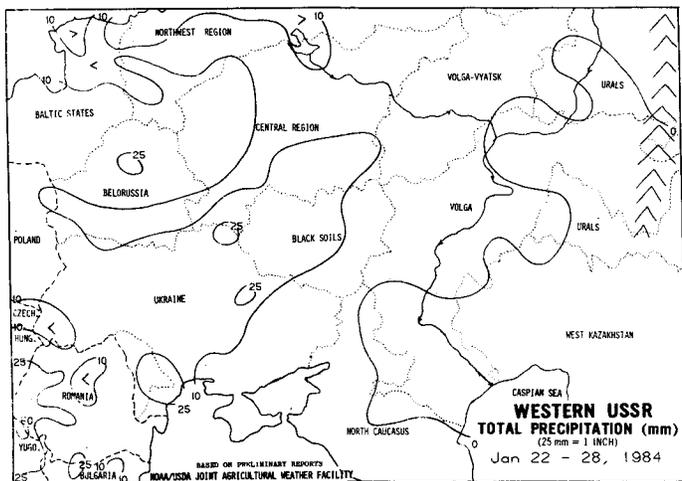
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International Weather and Crop Summary

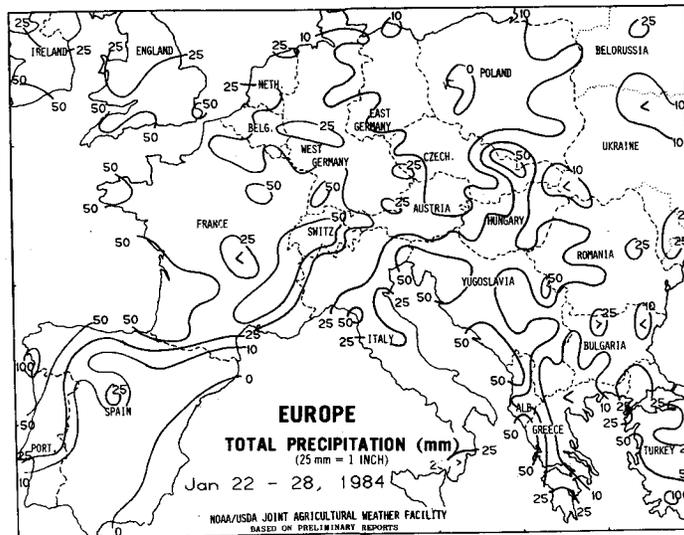
January 22 to 28



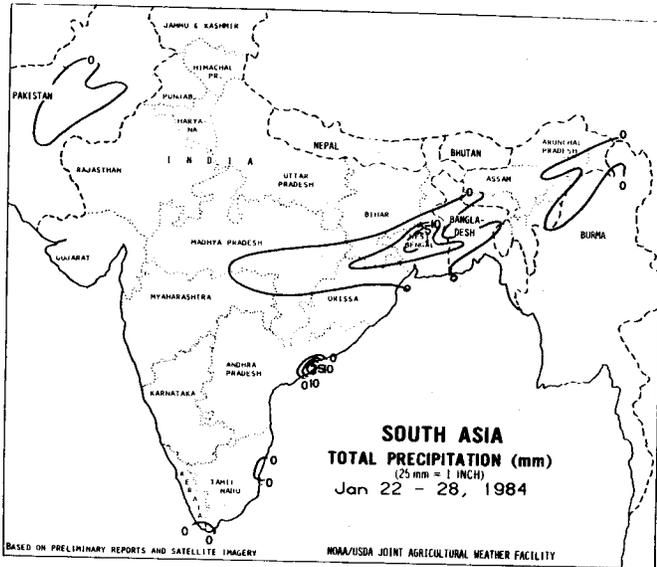
1. UNITED STATES ... Warmer weather decreases protective snow cover for wheat throughout the Plains but relieves livestock stress. Cool, wet weather continues to delay fieldwork in the Southeast.
2. WESTERN USSR ... Rain and snow produce icy conditions across southern and western wheat areas where snow cover is patchy. Cold air blankets the region by the week's end.
3. EUROPE ... Wet weather and near-normal temperatures cover much of the region, except Spain, southern Italy, East Germany, and Poland, where precipitation was light and scattered. Winter grains were dormant except in crop areas adjacent to the Mediterranean Sea where slow growth occurred.
4. SOUTH ASIA ... Dry weather continues in northern wheat areas. Moderate showers aid summer rice in the east.
5. EASTERN ASIA ... Dry, cold weather is occurring in northern China where winter wheat is dormant and adequately hardened. Light rains moisten topsoils in the south.
6. AUSTRALIA ... Additional rain saturates summer crop areas in the east and slows final wheat harvesting efforts. Mostly dry weather aids late wheat harvesting in the west.
7. NORTHWESTERN AFRICA ... Light precipitation favors early winter grain growth. Additional rain is needed.
8. SOUTH AMERICA ... Beneficial showers help stressed soybeans in western Parana but more rain is needed for Brazil's soybeans which are flowering and filling pods. Scattered showers help corn and soybeans in Argentina. Seasonal temperatures aid crop development in both countries.
9. MEXICO ... Rain in the northeast reduces the need for preplant irrigation of some grain sorghum and corn fields. Sunny, mild weather favors vegetables along the western and southern coasts.
10. SOUTH AFRICA ... Light rain throughout the Maize Triangle eases moisture stress. High temperatures in the west reduce the benefits of recent moisture.



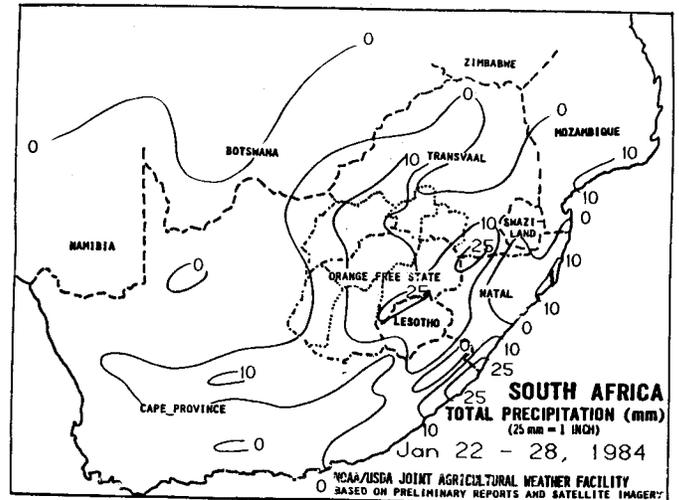
WESTERN USSR... Rain and snow covered the western half of the region, and was followed by much colder weather by the end of the week. The weather produced the potential for icy conditions in the Baltics, Belorussia, and particularly the major winter wheat areas in the Ukraine and North Caucasus. Ice layering can produce winterkill if it persists. During the week, a large, cold air mass centered over Siberia, began moving slowly westward, causing sharp temperature drops in minor winter grain areas of the Urals, Volga Valley, Volga Vyatsk and Black Soils by week's end. Nighttime lows around -15° C were reported at most locations, except in the Volga Vyatsk and Urals where temperatures dropped to -30° C. Snow cover in these areas should be adequate to protect the crop. Weekly temperature averages were above normal over the region, and major winter wheat areas in the Ukraine and North Caucasus had little, if any, protective snow cover.



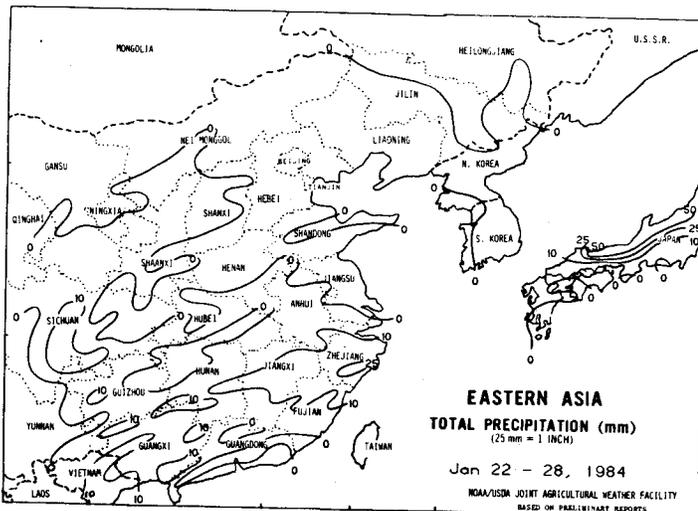
EUROPE. Wet weather and near-normal temperatures covered most winter grain areas during the week. Exceptions were southeastern Spain, southern Italy, and parts of the northeastern Europe where only light, scattered precipitation fell. Wet weather in the United Kingdom was accompanied by high winds early in the week. The high winds probably had little impact on winter grains. The precipitation, which covered southeastern Europe, was very beneficial because it improved low moisture supplies, especially in Romania. Winter grain areas in southeastern Spain continued generally dry. Winter grains in most northern, central, and eastern crop areas remained dormant, while slow growth occurred in crop areas adjacent to the Mediterranean Sea.



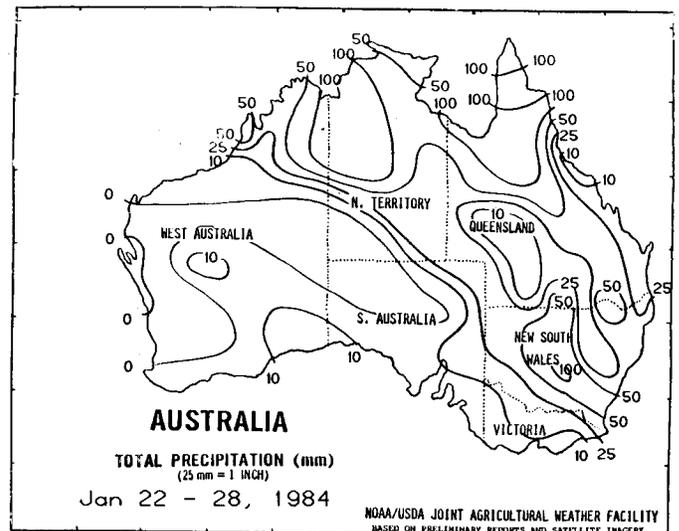
SOUTH ASIA... Virtually no precipitation fell in the major wheat region this week. Moisture conditions have been mostly favorable in the southern wheat areas because of scattered showers through Madhya Pradesh during January. Temperatures have been below normal in the north, reducing the evaporative demand in Punjab and Uttar Pradesh where below normal winter precipitation has fallen. Wheat is in the grain-filling stage in the south and is heading in the north. Precipitation would be beneficial for nonirrigated wheat during the February grain-filling period. Scattered showers fell in eastern coastal India, benefiting planting and early growth of summer rice in West Bengal and Andhra Pradesh.



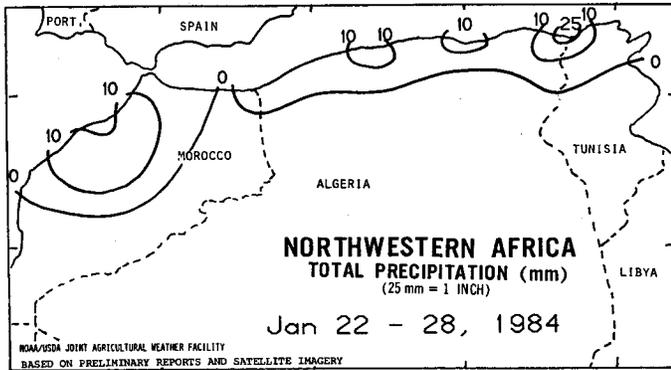
SOUTH AFRICA... A band of light to moderate showers fell in the central Maize Triangle during midweek. As much as 20 mm of rain fell in West Transvaal and the northwestern Orange Free State, however, mostly less than 10 mm of rain fell in the remaining major corn areas. The precipitation eased crop stress, but temperatures remained unfavorably warm, maintaining high evaporation rates in the west. Temperatures were as high as 38°C in the west early in the week, but cooled slightly by midweek. Temperatures in the eastern Triangle moderated but more precipitation is needed. Corn is in the very sensitive reproductive phase and the recent hot, dry conditions have likely reduced yields in the west. Widespread rains are needed across the region to maintain current yield potential.



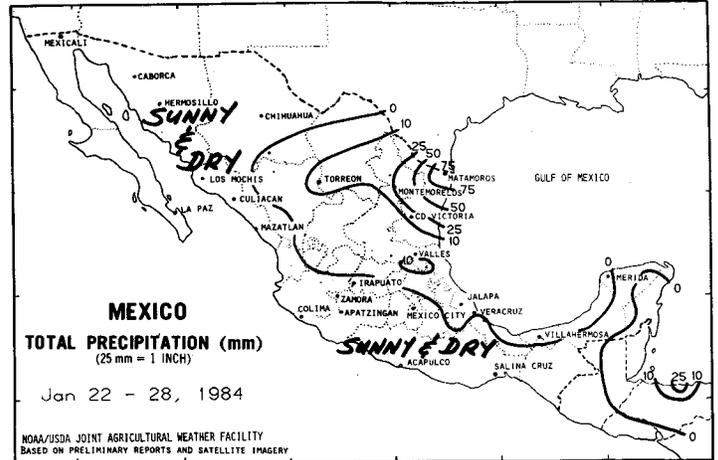
EASTERN ASIA... Mostly light precipitation fell in eastern China this week. A dry region persisted from the Sichuan Basin through much of Henan, Jiangsu, Shandong, and Hebei. The precipitation extended only into the southern wheat region, where subsoil moisture is adequate. Temperatures were below normal in nearly all of eastern China this week however, not low enough to cause any problems for winter wheat which is sufficiently hardened. The light showers in the south further improved topsoil moisture conditions, following rain in the area last week. Spring rains will be needed to replenish subsoil moisture in the south.



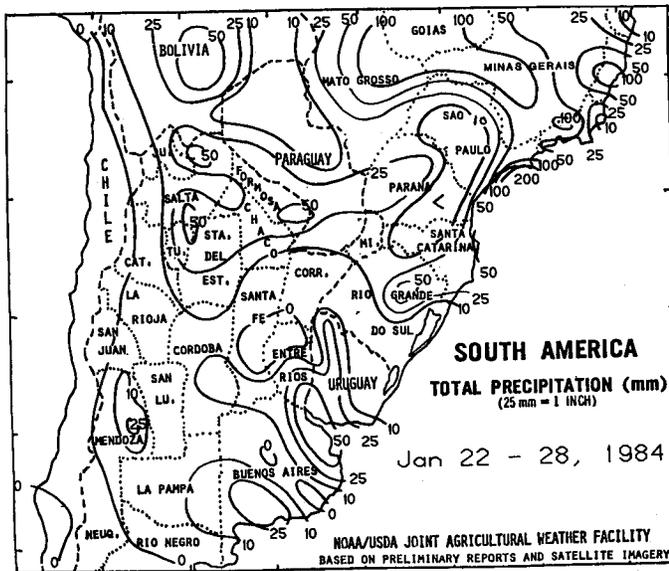
AUSTRALIA... More rain fell over summer crop areas of southeastern Queensland and New South Wales keeping fields saturated. The wet weather provided abundant moisture for sorghum, corn, cotton, and other crops in the east. Earlier wetness delayed late crop plantings, and the recent wet, cool weather has further slowed crop development. Showers in southern wheat areas hampered wheat harvesting which is nearly complete. Mostly dry weather aided fieldwork in the west. Heavy tropical showers fell across northern Australia.



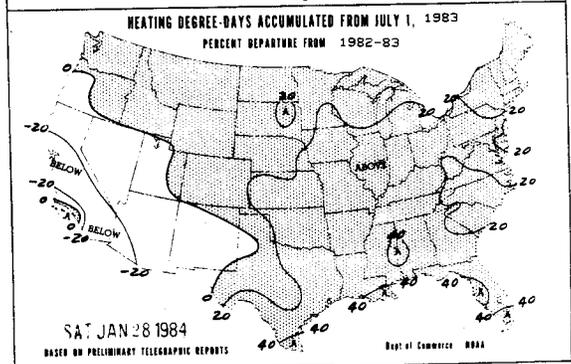
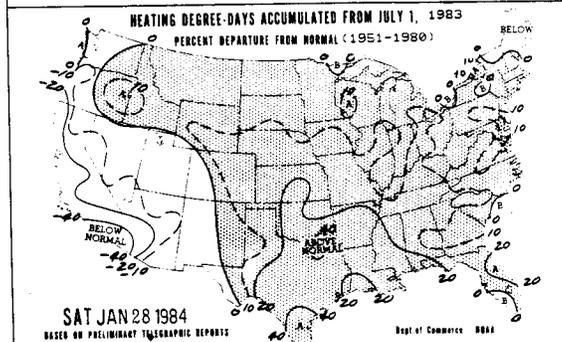
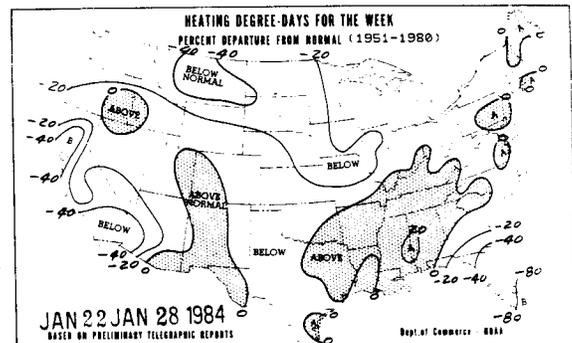
NORTHWESTERN AFRICA...Light showers favored winter grains throughout the region. The heaviest rain (10-20 mm), fell on winter grains in western Morocco and extreme northeastern Algeria. Although the moisture this week favored crop growth throughout the region, cumulative precipitation since planting has been well below normal in most areas, except Tunisia. Generous and timely rains will be needed during the remainder of the growing season to boost yield prospects.



MEXICO...Rains doused the northeast and interfered with field activities but improved soil moisture. Over 75 mm of rain fell around Matamoros and should eliminate the need for preplant irrigation of grain sorghum and corn. Rains decreased in the south with generally insignificant amounts falling south of Tampico. Sunny, dry weather dominated the west and south and was ideal for the development of tomatoes and most other tender vegetables.



SOUTH AMERICA...Widespread showers and thunderstorms covered most of Brazil's crop areas, with the heaviest rain (50-135 mm) falling in Mato Grosso do Sul, Goias, and southwestern Minas Gerais. Highly variable rainfall occurred throughout much of the soybean belt, but significant rain fell on western Parana's crop. Soybeans, which are flowering and pod-filling in this area, needed moisture following the recent hot, dry weather. Light rainfall (mostly less than 10 mm) in much of Sao Paulo's soybean area was insufficient to substantially reduce crop stress. More rain is needed in these areas. Temperatures in Brazil and Argentina averaged near normal, aiding crop development. Conditions were generally favorable for Argentina's corn crop, which is in the grain-filling stage, and for the sorghum crop which ranges from the vegetative growth to heading stages in most areas. Scattered showers during recent weeks have provided enough moisture for sustain soybean development. Western crop areas need additional rain.



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**WEEKLY NEWS BULLETIN
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(continued from p. 12)

These cold, wet conditions kept days suitable for fieldwork to less than 1. Topsoil moisture continued high, 39% adequate, 61% surplus. Major activities still revolve around livestock which were in good condition. Calves and lambs doing well. Lamb marketing picking up. Supplemental feeding at or above normal. Hay supplies tight. Fire and sun-cured tobacco marketing continued.

WASHINGTON: Week began with cold, dry air over State and most stations reported coldest temperature of week on morning of 21st. Pattern changed rapidly during night and by 22nd warm, moist air moved into west and into east on 23rd. Significant rain fell west of Cascades with measurements on north coast totaling 5.00 to 6.00 in. through 24th. Although last slopes Cascades remained dry, most areas in east reported 0.30 to 0.80 in. rain or rain and snow mixed. The 25th, 26th and 27th mostly dry and mild throughout east.

High precipitation and mild temperatures in west resulted in some lowland flooding. Little agricultural damage resulted. Fruit and berry growers on west side busy pruning and training grapes and red raspberries. Christmas tree planting continues. Warm temperatures in east reduced or entirely eliminated snow cover. Some winter injury to small grains apparent. Pruning in orchards and vineyards continues. Hay supplies remain adequate.

WEST VIRGINIA: Temperatures averaged from near normal to above normal, ranging from 2.5° below normal in the northeastern to 8° above normal in the southern part of the State. Precipitation averaged 0.30 to 0.50 in. below normal.

Soil moisture adequate to surplus. Days suitable for fieldwork averaged 2.1. Main activities were: Feeding livestock and general maintenance. Feed supplies adequate to short.

WISCONSIN: Above normal temperatures and near normal precipitation. Daily highs were generally in the mild 20's and 30's, lows mainly 0 to 25°. The warmest, 42° occurred on the 24th at both Iola and Peru. The coldest reading of -10° occurred on 27th at Minong in the northwest corner of the State. Precipitation was recorded somewhere everyday, all events generally light and in the form of snow though the mild readings did give some freezing rain to the south and west. The most important event occurred the 28th when 1 to 4 in. of snow blanketed the State.

WYOMING: Temperatures warmer. Big horn drainage slightly below, but elsewhere readings above normal. Precipitation near normal in northeast and northwest to slightly below normal elsewhere.

Winter wheat mostly good condition. Livestock generally good condition. Supplemental feeding necessary most areas. Warmer weather reducing stress.

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