

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

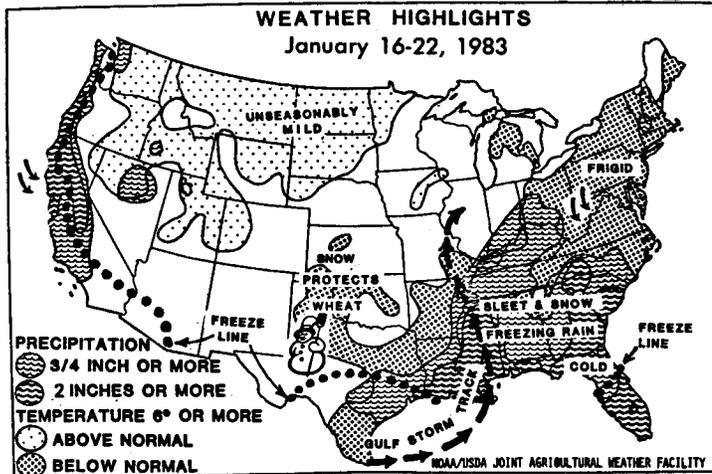
Volume 70, No. 4

WASHINGTON, D.C.

Jan. 25, 1983

National Weather Summary

January 16 to 22



HIGHLIGHTS ... Dual storms, developing and rapidly intensifying over the Gulf of Mexico and southern High Plains, produced extensive rain, freezing rain, sleet, and snow over the southeastern third of the Country. The icy conditions made travel and power transmission very difficult in some parts. However, snow falling over the central and southern Plains gave a protective blanket to wheat. Frigid, arctic air covered the Nation from the Great Lakes to the southern Plains and eastward. Temperatures averaged about 12° below normal over most of the east coast, causing rather large heating degree day readings. In contrast, unseasonable mildness continued over the northwestern third of the Nation. As the week ended, another storm dumped heavy precipitation over the Pacific Coast States and produced gale winds along the California coast and northward.

SUNDAY ... A major snowstorm battered New England, dumping up to a foot of the white stuff over most of eastern New York State to the coast. Precipitation covered the Pacific Coast States and Great Basin. Cloudiness and light snow lingered over a wide area around the Great Lakes. Most of the rest of the Nation had fair skies, but it was rather frigid in the morning, warming to pleasant temperatures, at least in the Southern States, by midafternoon.

MONDAY ... The snowstorms which dumped heavy snow over the Northeast moved into the Maritime Provinces of Canada. However, light snow continued to fall over the Ohio Valley and parts of New England. Meanwhile, an upper-level disturbance caused stormy weather over the southwestern third of the Country, producing snow in the higher elevations and rain in the lower terrain. East of the Rockies, arctic air moved rapidly southward, reinforcing the cold and keeping afternoon temperatures

freezing as far south as the central Mississippi Valley.

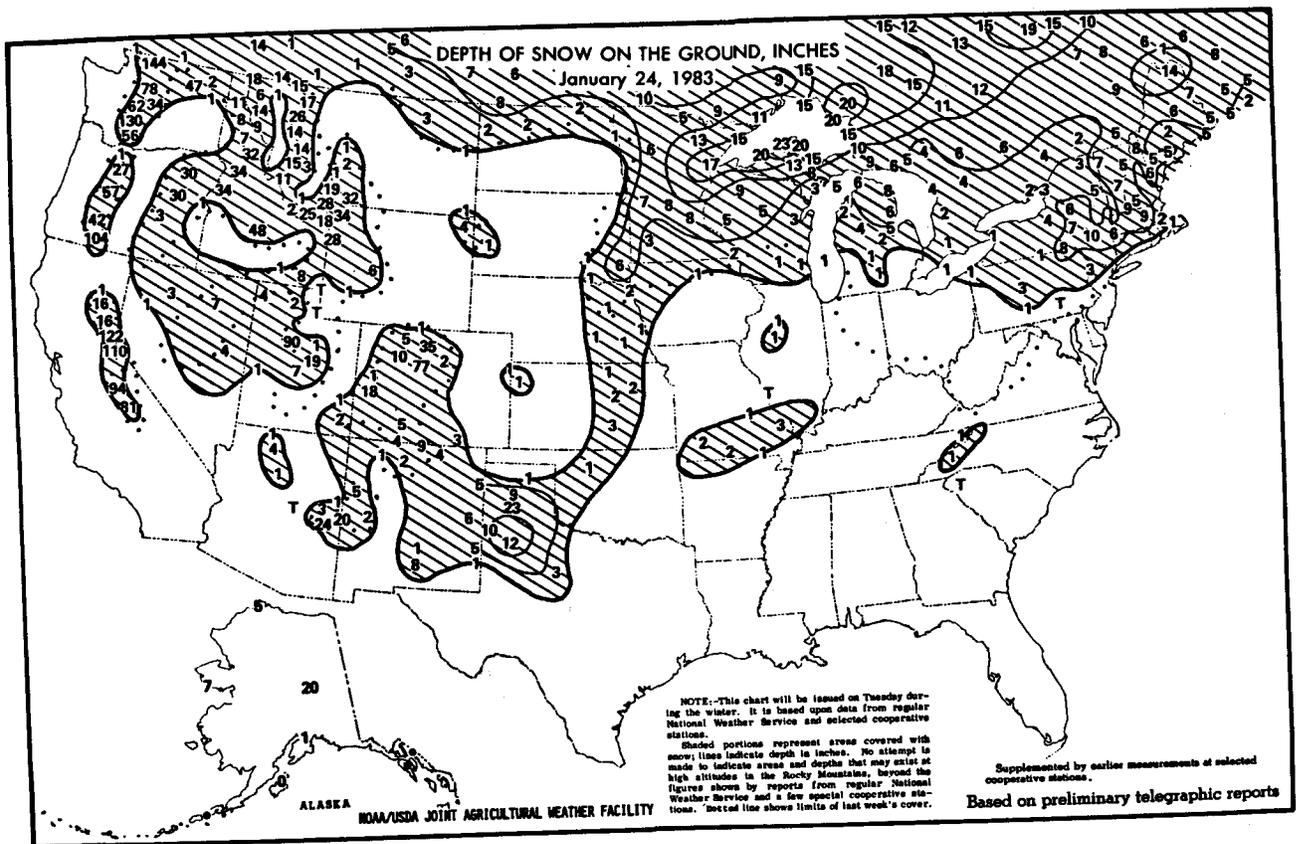
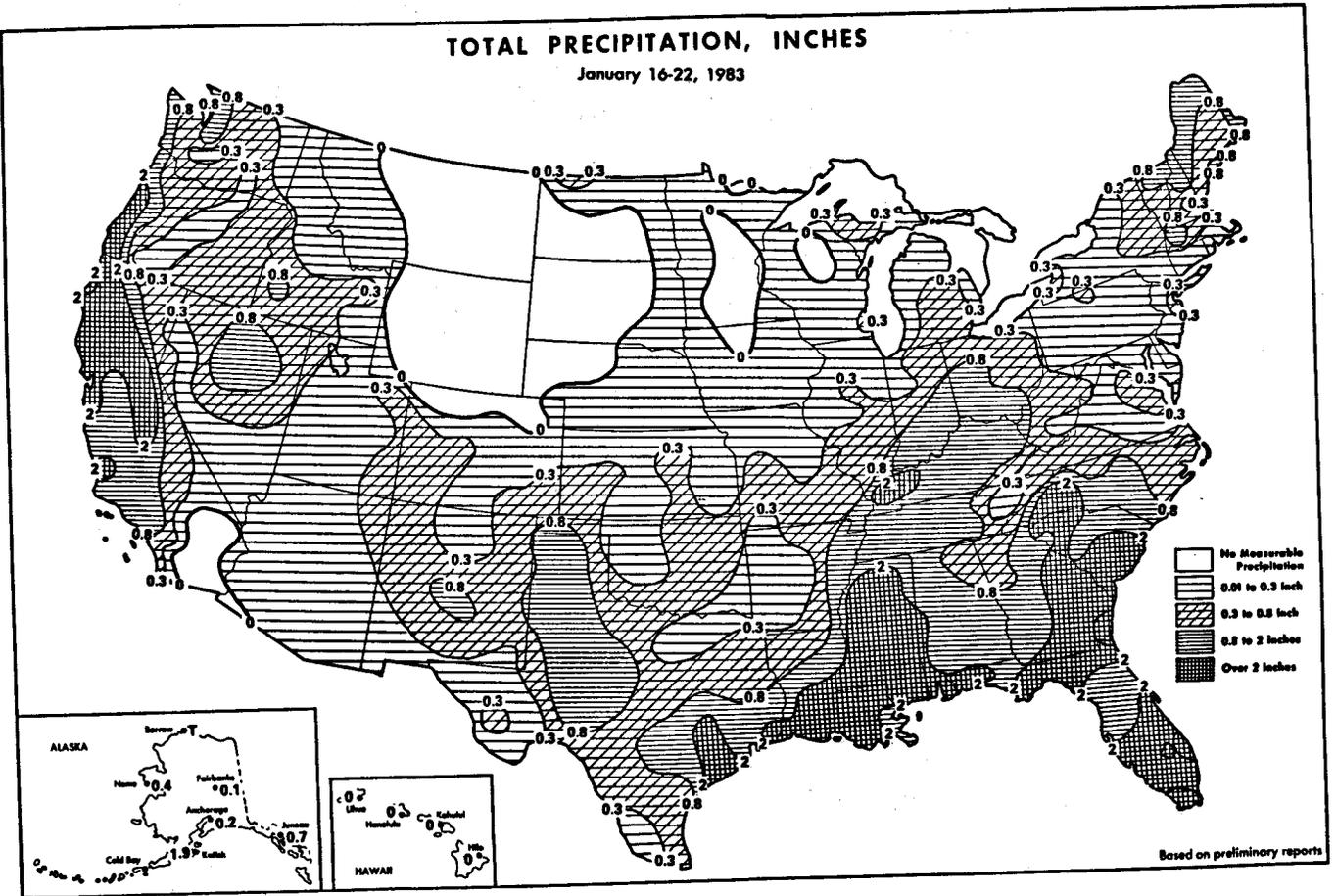
TUESDAY ... The upper disturbance triggered precipitation across the Great Plains, giving 1 to 3 inches of protective snow cover to most of the winter wheatlands and heavy rain to east-central Texas. A storm moved into the Pacific coast with rains from western Oregon to southern California; snow fell further inland over the mountains. Arctic air covered the country east of the Rockies as an intense high-pressure center moved over the upper Great Lakes. Freezing temperatures again dipped into north-central Florida, keeping citrus trees quite dormant and threatening tender vegetables.

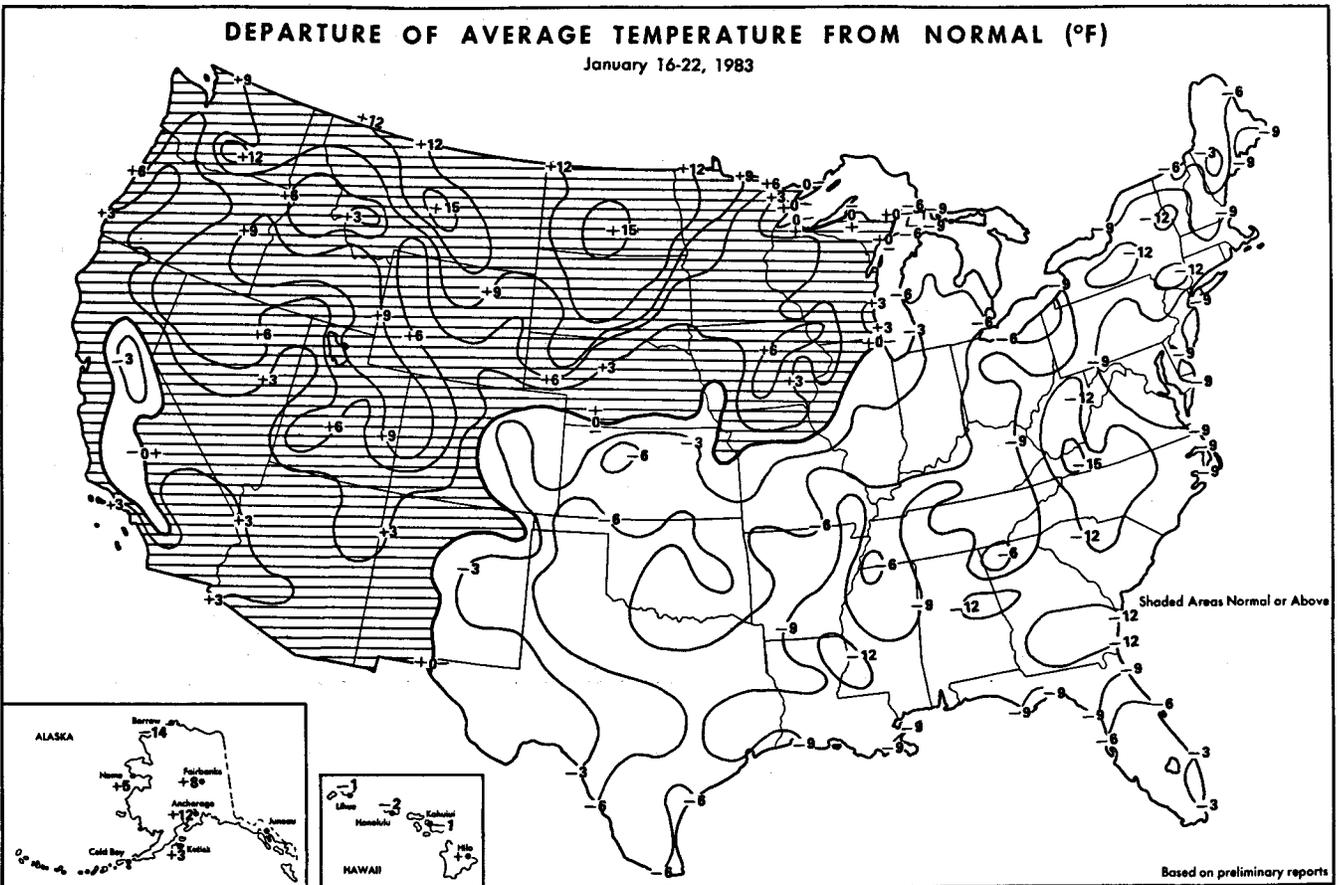
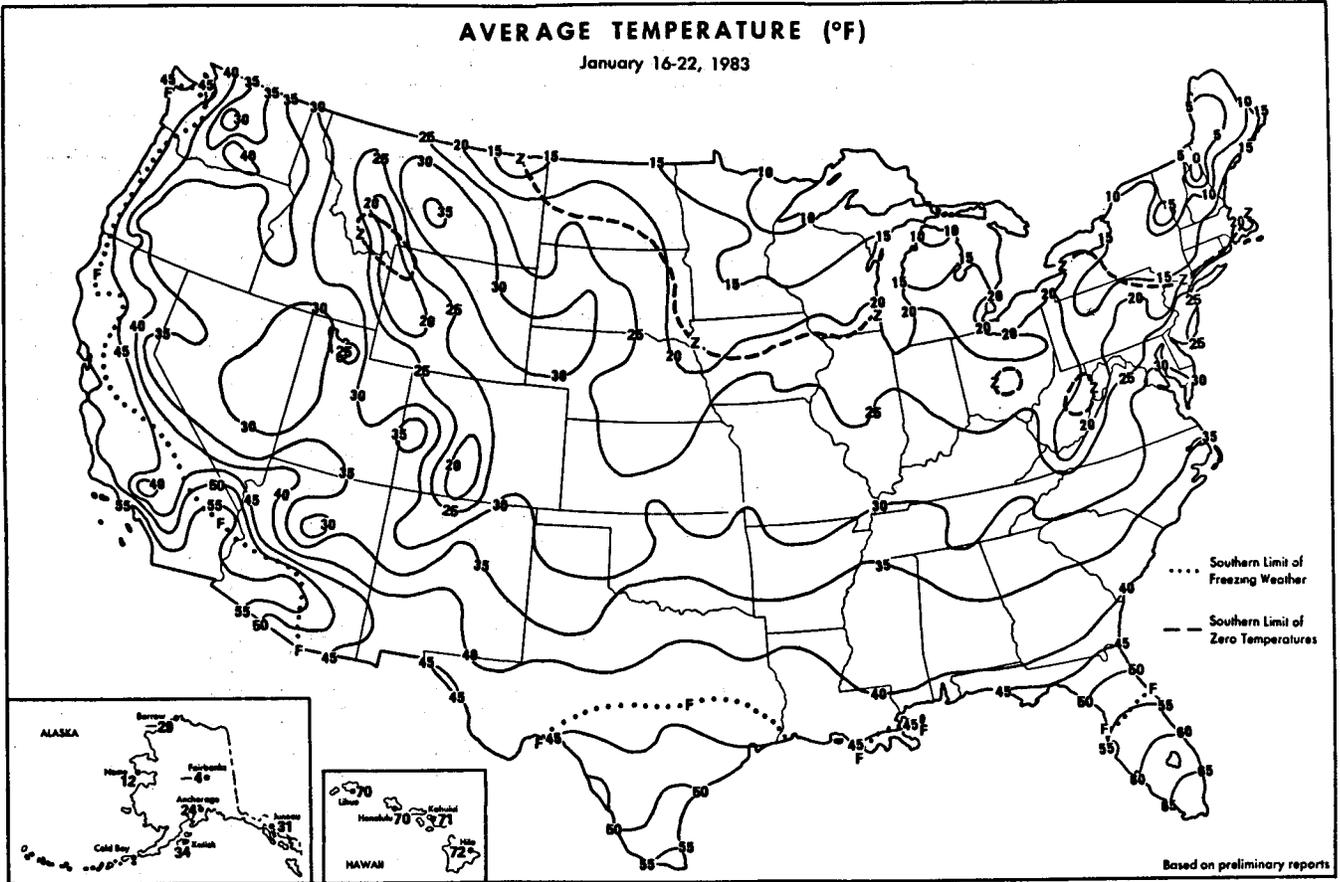
WEDNESDAY ... Storms began forming in the western Gulf of Mexico and the Great Basin, producing widespread precipitation across the Great Plains, the Gulf States, and the western third of the Nation. Blustery northerly winds continued to usher cold, arctic air into the East. Temperatures dropped into the teens as far south as Tennessee and the Carolinas, and below zero across the upper Great Lakes and the North Atlantic Coast States.

THURSDAY ... Dual storms brought cold, windy, wet weather to the southern Rockies and Plains and most of the South. Heavy snow fell on the Texas High Plains; Lubbock recorded 15 inches. Sleet and freezing rain caused problems, especially for traveling and electrical transmission, across parts of Arkansas to South Carolina. It was an unusually cold day over most of the Nation, and temperatures did not even climb out of the sixties in southern California or Florida except for a 70-degree reading at Key West. Frigid, arctic air remained over most of the East, producing very large heating degree day values.

FRIDAY ... The gulf coast storm became massive, producing heavy rain over the central and eastern Gulf States and freezing rain, sleet, and snow from the mid-Atlantic coast to Arkansas and northward into the Ohio Valley. The other storm which had dumped heavy snow over the Texas High Plains pushed eastward, joining forces with the gulf storm. The large mass of arctic air centered—
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Weather Data for the Week Ending Jan. 22, 1983

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. 28	PCT. NORMAL SINCE Nov. 28	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMPERATURE		PRECIPITATION	
																		°F	°F	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	43	25	53	19	34	-10	.9	-.2	.8	17.8	191	2.5	69	86	43	0	5	3	1	2	
MOBILE	49	33	60	26	41	-10	2.1	1.1	1.4	13.9	139	4.9	140	93	50	0	3	2	1	2	
MONTGOMERY	44	29	55	23	37	-11	1.5	-.6	1.4	15.4	179	5.1	159	83	52	0	3	2	1	2	
AK ANCHORAGE	28	20	32	10	24	12	.2	0	.1	1.1	58	.3	43	87	68	0	7	3	0	0	
BARROW	-22	-35	-5	-46	-29	-14	T	-.1	T	.1	25	T	77	64	0	7	0	0	0	0	
FAIRBANKS	3	-11	8	-16	-4	8	.1	-.1	T	.9	75	.2	40	57	42	0	7	3	0	0	
JUNEAU	35	27	40	12	31	8	.7	-.2	.4	5.2	66	4.0	138	98	85	0	4	4	0	0	
KODIAK	39	29	42	14	34	3	1.9	-.8	.7	18.2	204	5.0	143	86	64	0	4	6	2	0	
NOME	20	4	35	-6	12	3	.4	-.2	.3	2.1	150	.4	67	70	43	0	7	3	0	0	
AZ PHOENIX	63	46	72	36	55	4	T	-.1	T	2.4	171	0	0	79	34	0	0	1	0	0	
PRESCOTT	48	30	55	19	39	2	T	-.3	T	2.7	90	0	0	87	46	0	0	0	1	0	
TUCSON	62	41	72	30	51	0	.2	0	.1	2.5	156	.2	33	76	33	0	2	2	0	0	
YUMA	69	46	79	39	58	2	0	-.1	0	2.0	286	0	0	50	25	0	0	0	0	0	
AR FORT SMITH	41	27	54	18	34	-5	.1	-.5	.1	6.4	128	.3	19	79	45	0	6	1	0	0	
LITTLE ROCK	39	26	52	19	33	-8	.1	-.8	.1	9.6	133	.5	18	83	57	0	7	3	0	0	
CA BAKERSFIELD	56	38	64	34	47	-1	.9	-.7	.7	2.2	169	.9	150	99	66	0	0	5	1	2	
EUREKA	56	44	60	33	50	3	1.9	-.2	1.0	15.6	124	2.5	87	64	0	0	0	5	2	2	
FRESNO	54	40	59	33	47	2	2.5	2.1	1.6	5.4	169	2.5	208	98	71	0	0	2	1	0	
LOS ANGELES	64	50	68	43	57	3	1.2	-.6	.9	3.0	81	1.2	67	78	44	0	0	5	2	2	
RED BLUFF	51	42	56	33	47	2	2.4	1.4	1.1	7.8	104	2.4	77	95	72	0	0	2	1	0	
SACRAMENTO	49	37	54	26	43	-2	1.1	-.3	.7	5.8	98	1.2	48	99	77	0	1	4	1	0	
SAN DIEGO	65	54	70	48	60	4	.4	-.1	.3	2.7	84	.4	29	79	50	0	0	2	0	0	
SAN FRANCISCO	54	44	59	35	49	1	2.6	1.6	1.5	8.4	112	2.6	84	84	66	0	0	5	2	2	
CO DENVER	34	20	42	17	27	-3	.1	-.1	.1	2.4	267	.1	25	90	59	0	7	1	0	0	
GRAND JUNCTION	44	28	51	23	36	10	.3	-.2	.2	6.6	67	.3	100	90	57	0	6	3	0	0	
PUEBLO	37	19	52	12	28	-2	T	.5	T	.3	50	0	0	97	67	0	7	2	0	0	
CT BRIDGEPORT	27	13	34	0	20	-10	.1	-.1	.1	4.3	72	1.9	90	73	50	0	7	1	0	0	
HARTFORD	24	5	32	-4	14	-10	.2	-.5	.2	6.5	93	4.2	175	67	40	0	7	1	0	0	
DC WASHINGTON	37	22	44	16	30	-6	.3	-.3	.3	4.8	89	1.3	65	57	31	0	7	1	0	0	
FL APALACHICOLA	56	39	60	30	48	-6	2.7	2.0	1.5	9.3	163	3.2	152	89	57	0	2	3	2	2	
DAYTONA BEACH	62	40	76	28	51	-6	1.5	1.1	1.4	3.8	106	1.9	136	86	46	0	3	2	3	3	
JACKSONVILLE	56	34	64	25	45	-10	4.1	3.5	1.7	7.9	172	5.8	322	89	54	0	4	3	3	3	
KEY WEST	70	60	78	53	65	-6	11.6	11.2	7.5	13.2	508	12.9	1290	82	59	0	0	3	3	3	
MIAMI	73	57	82	45	65	-2	2.8	2.4	2.3	4.7	147	3.5	233	86	55	0	0	2	2	2	
ORLANDO	67	44	73	33	56	-5	1.9	1.4	1.5	2.9	81	1.9	119	91	46	0	0	3	1	1	
TALLAHASSEE	55	33	60	19	44	-9	2.3	1.4	1.4	8.9	120	3.1	115	83	42	0	3	3	2	2	
TAMPA	68	46	78	34	57	-3	1.0	-.5	.6	2.3	58	1.0	63	96	51	0	0	2	1	0	
WEST PALM BEACH	72	54	82	44	63	-2	5.3	4.7	5.1	10.7	261	9.2	511	86	51	0	0	2	1	0	
GA ATLANTA	40	25	52	21	32	-10	.6	-.4	.3	9.9	127	2.7	87	79	44	0	6	3	0	0	
AUGUSTA	44	26	55	16	35	-11	1.8	1.1	1.8	9.0	143	3.3	138	78	39	0	6	2	1	1	
MACON	47	29	58	26	38	-10	1.7	.9	1.2	11.3	159	3.8	146	84	49	0	6	3	1	1	
SAVANNAH	48	32	56	25	40	-10	2.3	1.7	2.0	7.8	162	4.1	195	76	42	0	4	3	1	1	
HI HILO	81	62	85	57	72	1	0	-.8	0	8.4	35	.6	9	78	45	0	0	0	0	0	
HONOLULU	80	60	82	58	70	-2	0	1.0	0	2.5	35	.1	3	94	53	0	0	0	0	0	
KAHULUI	81	60	82	58	71	-1	0	.8	0	5.3	91	.1	4	86	49	0	0	0	0	0	
LIHUE	78	62	81	60	70	-1	0	1.4	0	5.4	47	.8	17	84	53	0	0	0	0	0	
ID BOISE	44	32	49	23	38	9	.7	-.3	.4	3.8	146	1.5	150	91	64	0	2	3	0	0	
LEWISTON	42	31	48	25	37	6	.2	-.1	.1	1.8	75	.8	89	69	50	0	5	2	0	0	
POCATELLO	37	28	41	17	32	9	.1	-.2	T	2.4	126	.1	13	91	70	0	7	3	0	0	
IL CHICAGO	28	15	37	3	22	-1	-.2	-.2	.2	8.5	283	.4	31	80	52	0	7	3	0	0	
MOLINE	30	17	41	9	24	3	.2	-.2	.1	5.7	190	.3	25	77	49	0	7	2	0	0	
PEORIA	31	17	36	7	24	1	-.3	-.1	.3	6.5	203	.3	23	79	49	0	7	2	0	0	
QUINCY	31	19	38	10	25	1	.2	-.3	.1	4.6	139	.3	17	81	47	0	7	3	0	0	
ROCKFORD	27	15	37	3	21	1	.2	-.3	.1	4.6	139	.3	21	84	58	0	7	3	0	0	
SPRINGFIELD	31	18	35	9	24	-2	.3	-.1	.2	9.7	285	.4	31	80	51	0	7	2	0	0	
IN EVANSVILLE	35	24	41	18	30	-3	1.4	.7	1.1	10.2	167	1.4	58	82	45	0	6	3	1	1	
FORT WAYNE	28	15	37	6	21	-4	.6	0	.5	5.7	133	.7	39	87	56	0	6	4	0	0	
INDIANAPOLIS	29	19	38	10	24	-4	.6	-.1	.4	7.4	145	.8	38	88	58	0	6	3	0	0	
SOUTH BEND	27	16	38	1	22	-2	.3	-.2	.2	4.3	98	.5	28	88	57	0	6	3	0	0	
IA DES MOINES	31	18	39	8	25	6	.2	-.1	.1	4.5	205	.5	56	80	49	0	7	2	0	0	
SIOUX CITY	25	12	30	3	19	1	T	-.1	T	2.6	186	.1	33	91	71	0	7	1	0	0	
WATERLOO	30	14	41	2	22	6	.1	-.1	.1	4.2	210	.4	57	73	46	0	7	1	0	0	
KS CONCORDIA	29	17	40	11	23	-3	.2	-.1	.2	2.0	154	.3	100	87	64	0	7	3	0	0	
DODGE CITY	32	20	45	15	26	-5	.1	0	.1	1.1	157	.1	33	95	73	0	7	3	0	0	
GOODLAND	32	21	40	17	26	-1	.1	-.1	.1	1.9	317	.1	50	90	70	0	7	1	0	0	
TOPEKA	35	23	45	17	29	1	.1	-.1	.1	4.0	160	.2	25	79	50	0	7	2	0	0	
WICHITA	33	21	46	18	27	-4	.4	-.2	.2	2.0	105	.4	67	92	63	0	7	4	0	0	
KY BOWLING GREEN	34	22	43	13	28	-10	1.4	.1	1.1	8.5	97	1.7	45	99	65	0	6	3	1	1	
LEXINGTON	32	19	43	10	26	-7	.														

Weather Data for the Week Ending Jan. 22, 1983

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. 28	PCT. NORMAL SINCE NOV. 28	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE			
																90 AND ABOVE	52 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	45	33	58	26	39	-8	.5	-.4	.3	14.3	193	.6	21	84	48	0	3	4	0
NE CARIBOU	14	0	25	-10	7	-3	1.1	.6	.9	4.5	105	1.7	113	88	63	0	7	4	1
PORTLAND	24	4	32	-9	14	-7	.6	-.1	.6	4.3	63	2.8	122	82	37	0	7	1	1
MD BALTIMORE	33	19	40	14	26	-8	.3	-.4	.2	5.0	85	1.2	55	72	35	0	7	2	0
MD SALISBURY	35	21	41	13	28	-10	.1	-.8	T	6.3	102	1.5	58	81	38	0	6	2	0
MA BOSTON	26	13	34	0	19	-10	.4	-.4	.4	5.2	71	3.3	127	65	41	0	7	1	0
MA CHATHAM	30	18	47	7	24	-1	.2	-.1	.1	5.7	71	1.3	80	57	0	7	4	0	
MI ALPENA	20	0	35	-7	10	-7	.2	-.2	.1	4.2	127	1.1	85	92	62	0	7	3	0
DETROIT	27	14	38	6	20	-4	.4	-.4	.4	4.5	115	.6	43	82	48	0	7	2	0
FLINT	26	11	37	4	18	-3	.3	-.1	.3	3.8	127	.6	46	80	42	0	7	1	0
GRAND RAPIDS	28	12	37	3	20	-3	.3	-.2	.2	7.9	203	1.0	63	75	43	0	7	2	0
HOUGHTON LAKE	22	0	33	-10	11	-6	T	-.3	T	4.0	121	.8	67	79	46	0	7	1	0
LANSING	25	9	37	-1	17	-5	.4	0	.4	4.8	133	.7	50	85	51	0	7	2	0
MARQUETTE	22	4	33	0	13	1	.5	-.1	.2	5.2	133	2.3	177	98	66	0	7	4	0
MUSKEGON	25	10	35	-3	18	-6	.2	-.3	.1	6.6	153	.9	56	84	55	0	7	2	0
MN SAULT STE. MARIE	15	-6	31	-18	4	-10	.1	-.4	.1	6.2	151	1.4	93	83	46	0	7	1	0
ALEXANDRIA	21	7	29	-5	14	6	T	-.1	T	1.5	125	.9	225	79	58	0	7	2	0
DULUTH	18	0	29	-23	9	1	T	-.3	T	2.3	92	1.1	122	86	51	0	7	1	0
INT'L FALLS	18	2	33	-20	10	9	T	-.2	T	.7	37	.3	50	81	56	0	7	0	0
MINNEAPOLIS	24	10	32	-2	17	5	T	-.1	T	4.4	314	.5	125	85	62	0	7	0	0
ROCHESTER	22	7	30	-6	15	2	T	-.1	T	3.5	250	.3	60	91	68	0	7	1	0
ND GREENWOOD	43	31	51	25	37	-8	2.3	1.2	2.2	21.2	228	3.8	115	81	49	0	4	2	1
JACKSON	45	29	58	22	37	-10	2.7	1.7	2.5	23.4	272	5.4	169	96	56	0	4	4	1
ND MERIDIAN	46	29	60	22	38	-9	2.2	1.3	1.9	15.5	170	3.6	113	96	60	0	5	3	1
NO CAPE GIRARDEAU	34	23	40	16	29	-7	.6	-.3	.3	11.9	186	.6	22	94	67	0	7	3	0
COLUMBIA	32	20	44	12	26	-3	.1	-.2	.1	7.2	240	.1	10	89	57	0	7	2	0
KANSAS CITY	32	20	41	13	26	-1	.1	-.2	T	4.2	168	.2	20	91	54	0	7	2	0
SAINT LOUIS	33	20	40	12	27	-4	.4	0	.2	8.5	243	.5	38	87	49	0	7	2	0
SPRINGFIELD	37	24	46	17	30	-3	.3	0	.3	9.2	256	.3	27	77	41	0	7	1	0
MT BILLINGS	42	24	47	20	33	12	0	-.2	0	1.2	86	.1	20	78	44	0	7	0	0
GLASGOW	23	12	26	7	18	10	T	-.1	T	1.2	150	.1	33	86	75	0	7	0	0
GREAT FALLS	43	21	48	16	32	12	T	-.2	T	.9	64	0	0	82	44	0	7	0	0
HAYRE	31	13	43	9	22	11	T	-.1	T	.3	43	0	0	98	74	0	7	0	0
HELENA	35	15	40	13	25	8	T	0	.1	1.4	140	.2	67	91	61	0	7	1	0
KALISPELL	31	23	35	13	27	8	T	-.3	T	2.7	108	.8	73	87	69	0	7	1	0
MILES CITY	31	19	39	17	25	10	0	-.1	0	1.1	157	.2	100	91	68	0	7	0	0
MISSOULA	31	22	39	14	26	6	.1	-.2	T	1.7	81	.6	75	96	80	0	7	2	0
NE GRAND ISLAND	28	16	39	10	22	0	.1	0	.1	2.2	314	.4	133	89	66	0	7	2	0
LINCOLN	29	16	37	9	23	1	.1	0	.1	2.2	220	.2	67	91	65	0	7	3	0
NORFOLK	27	13	34	2	20	1	.1	0	.1	3.2	320	.7	175	88	66	0	7	2	0
NORTH PLATTE	29	18	42	10	24	1	.1	0	.1	1.2	150	.1	33	94	72	0	7	1	0
OMAHA	29	17	42	9	23	3	.1	0	.1	2.6	186	.5	125	86	71	0	7	1	0
SCOTTSBLUFF	41	18	49	14	30	5	T	-.1	T	.7	100	.1	50	82	47	0	7	0	0
VALENTINE	33	19	41	10	26	6	T	-.1	T	.3	50	.1	33	74	53	0	7	0	0
NV ELY	37	16	40	-4	26	3	.7	.6	.4	1.8	164	.7	233	94	63	0	7	5	0
LAS VEGAS	54	36	59	28	45	1	.1	0	.1	1.5	167	.1	33	78	38	0	2	1	0
RENO	42	27	49	17	34	3	.4	.2	.2	2.2	105	.4	50	96	58	0	7	4	0
WINNEMUCCA	40	28	49	21	34	5	.8	.5	.5	2.5	132	.8	114	88	64	0	7	4	0
NH CONCORD	22	2	31	-5	12	-8	.1	-.4	.1	3.9	71	2.6	137	80	48	0	7	1	0
NJ ATLANTIC CITY	32	14	41	6	23	-10	.1	-.7	.1	6.9	95	2.0	74	87	46	0	7	1	0
NM ALBUQUERQUE	43	26	52	18	35	-1	.5	.5	.4	1.3	163	.5	250	97	51	0	7	4	0
CLOVIS	42	25	54	14	33	-4	.8	.7	.5	1.4	156	.8	267	93	60	0	6	3	1
ROSWELL	47	28	55	17	38	0	.4	.4	.2	1.9	271	.4	200	80	54	0	5	4	0
NY ALBANY	20	4	29	-5	12	-9	.6	.1	.6	3.9	80	2.2	138	70	47	0	7	1	1
BINGHANTON	20	6	32	-1	13	-9	.1	-.4	.1	3.9	83	1.5	88	89	54	0	7	2	0
BUFFALO	22	7	38	-5	15	-9	.3	-.4	.2	5.0	89	1.1	52	87	55	0	7	4	0
NEW YORK	29	18	34	-1	24	-8	.1	-.6	.1	4.2	70	1.9	95	65	43	0	7	1	0
ROCHESTER	22	8	34	-1	15	-9	.2	-.3	.1	3.6	84	.9	56	80	56	0	7	3	0
SYRACUSE	20	0	31	-11	10	-13	.2	-.4	.1	4.2	79	1.0	56	97	65	0	7	3	0
NC ASHEVILLE	38	21	46	13	29	-9	2.3	1.5	1.6	8.8	140	3.4	136	75	40	0	6	3	1
CHARLOTTE	38	22	47	15	30	-12	1.1	.3	.8	6.5	102	2.0	80	77	38	0	6	3	1
GREENSBORO	35	18	42	11	26	-13	.5	-.2	.3	5.7	100	1.2	52	74	35	0	7	2	0
HATTERAS	44	32	62	24	38	-7	.7	-.2	.7	13.8	173	7.8	269	80	50	0	4	2	1
NEW BERN	43	26	60	18	34	-12	.5	-.4	.5	8.1	117	2.4	.92	85	46	0	6	3	1
RALEIGH	38	21	45	10	29	-12	.9	-.1	.7	6.5	112	1.8	75	77	36	0	6	2	1
WILMINGTON	45	26	63	17	35	-11	.6	-.2	.3	9.5	156	3.2	139	72	35	0	6	2	0
ND BISMARCK	29	17	36	0	23	16	T	0	T	.6	75	.1	33	86	63	0	7	0	0
FARGO	21	10	30	-6	16	11	.1	0	.1	.5	56	.4	100	86	63	0	7	1	0
GRAND FORKS	22	10	31	-6	16	13	T	-.1	T	.7	64	.3	60	76	62	0	7	1	0
WILLISTON	25	12	32	0	19	11	T	-.1	T	1.8	200	.3	100	95	79	0	7	0	0
OH AKRON-CANTON	25	11	37	2	18	-8	.4	-.3	.2	5.5	120	1.1	52	91	51	0	7	5	0
CINCINNATI	30	17	42	7	24	-7	1.3	.5	.7	6.6	118	1.4	58	83	48	0	6	3	2
CLEVELAND	27	17	41	5	22	-5	.2	-.4	.1	4.8	109	.5	26	79	45	0	6	4	0
COLUMBUS	28	11	38	-3	20	-9	.5	-.2	.4	5.7	121	.8	40	86	49	0	6	4	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Jan. 22, 1983

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. 28	PCT. NORMAL SINCE NOV. 28	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	27	13	37	1	20	-8	1.0	.4	.5	5.6	119	1.2	60	84	56	0	7	3	1
TOLEDO	26	12	36	3	19	-6	.3	.2	.3	4.8	117	.6	38	86	54	0	7	1	0
YOUNGSTOWN	27	15	39	4	21	-5	.1	.6	.1	4.3	86	.6	29	73	48	0	6	4	0
OK OKLAHOMA CITY	40	27	56	23	34	-3	.3	0	.1	2.4	109	.5	63	88	58	0	7	4	0
TULSA	40	25	54	19	33	-4	.4	.1	.2	3.8	131	.4	40	79	48	0	7	3	0
OR ASTORIA	52	42	55	33	47	7	1.2	.9	.4	25.7	139	10.5	152	94	70	0	0	7	0
BURNS	37	25	38	19	31	6	.4	0	.1	3.3	103	.8	62	71	51	0	5	4	0
MEDFORD	49	35	56	29	42	6	.3	.6	.2	6.5	97	.4	15	100	66	0	2	3	0
PENDLETON	44	32	49	29	38	6	.1	.2	.1	2.8	104	.6	50	96	69	0	5	3	0
PORTLAND	47	38	49	30	42	4	.7	.6	.4	13.7	125	4.5	105	93	69	0	2	5	0
SALEM	46	36	52	29	41	3	.6	1.0	.2	15.2	122	4.5	90	92	78	0	2	6	0
PA ALLENTOWN	28	11	32	6	19	-9	T	.7	T	3.5	58	1.3	59	82	51	0	7	2	0
ERIE	28	16	41	8	22	-3	.3	.3	.2	4.8	96	1.1	58	76	45	0	7	5	0
HARRISBURG	31	17	36	14	24	-6	.1	.5	.1	3.0	57	1.2	63	80	49	0	7	2	0
PHILADELPHIA	32	17	39	13	25	-7	T	.6	T	5.0	89	1.9	95	70	38	0	7	2	0
PITTSBURGH	28	13	40	2	20	-8	.2	.5	.1	4.3	91	.8	38	82	46	0	7	3	0
SCRANTON	22	8	32	1	15	-11	.1	.3	.1	2.4	57	.6	40	73	52	0	7	2	0
RI PROVIDENCE	27	11	35	-2	19	-9	T	.8	T	4.1	59	1.4	58	69	44	0	7	1	0
SC CHARLESTON	46	31	53	23	39	-10	2.5	1.9	2.0	8.2	149	3.8	181	72	40	0	6	3	1
COLUMBIA	43	24	52	11	34	-12	1.8	1.0	1.5	7.7	133	3.1	135	82	35	0	6	2	1
FLORENCE	43	28	50	19	35	-11	.9	.3	.6	7.4	142	2.2	116	73	39	0	6	2	1
GREENVILLE	39	23	49	15	31	-11	1.7	.8	1.5	9.8	131	2.5	89	78	41	0	6	3	1
SD ABERDEEN	29	13	37	1	21	12	T	.1	T	.1	11	0	0	87	60	0	7	0	0
HURON	30	16	37	7	23	11	T	.1	T	.7	100	0	0	92	66	0	7	0	0
RAPID CITY	40	17	45	12	29	7	0	.1	0	.4	67	.1	50	86	52	0	7	0	0
SIoux FALLS	24	8	29	-3	16	2	.1	.1	.1	2.5	208	.5	125	95	75	0	7	1	0
TN CHATTANOOGA	40	25	49	18	33	-7	1.1	.1	.8	13.3	140	2.3	61	80	46	0	6	2	0
KNOXVILLE	40	25	53	16	33	-8	.2	.9	.1	7.0	83	1.5	45	84	47	0	5	3	1
MEMPHIS	40	29	45	23	35	-6	1.4	.3	.8	15.7	180	1.8	51	84	53	0	5	3	1
NASHVILLE	38	25	43	16	32	-6	1.4	.3	1.1	9.6	117	2.4	73	88	53	0	5	3	1
TX ABILENE	43	32	60	24	38	-6	1.1	.9	.7	2.8	165	1.1	183	90	68	0	4	5	1
AMARILLO	35	20	51	14	28	-8	1.2	1.1	.6	2.0	182	1.3	433	95	75	0	7	4	2
AUSTIN	47	37	55	33	42	-7	1.1	.7	.7	4.0	108	1.8	138	90	68	0	0	4	1
BEAUMONT	50	37	58	33	44	-8	2.3	1.4	2.0	20.8	254	3.3	118	94	59	0	0	3	1
BROWNSVILLE	63	49	69	43	56	-4	.6	.3	.2	3.8	158	1.1	122	96	74	0	0	5	0
CORPUS CHRISTI	58	44	65	32	51	-5	.6	.3	.3	1.5	54	.8	73	82	59	0	1	4	0
DEL RIO	55	42	65	35	49	-2	.5	.4	.5	1.5	188	.6	200	84	56	0	0	2	0
EL PASO	55	34	61	25	45	1	.2	.2	.2	2.9	322	.2	67	92	47	0	3	3	0
FORT WORTH	46	33	58	24	39	-5	.2	.2	.2	3.2	100	.4	36	83	56	0	3	2	0
GALVESTON	56	43	95	39	49	-4	1.0	.4	.9	9.1	147	3.1	148	85	63	1	0	3	1
HOUSTON	49	38	57	34	43	-9	1.4	.6	1.0	7.3	106	1.5	60	87	56	0	0	4	1
LUBBOCK	39	24	55	10	32	-7	1.7	1.6	1.1	4.4	440	2.3	575	95	79	0	6	4	2
MIDLAND	49	33	61	21	41	-2	.8	.7	.7	2.3	288	1.1	367	91	64	0	4	4	1
SAN ANGELO	49	36	64	30	42	-4	1.4	1.2	1.1	2.9	223	2.0	400	93	68	0	2	5	1
SAN ANTONIO	50	40	58	34	45	-6	1.0	.6	.7	3.8	141	1.5	136	82	58	0	0	4	2
VICTORIA	53	41	60	36	47	-6	1.5	1.0	.9	2.4	71	1.7	142	92	66	0	0	4	2
WACO	48	35	58	23	41	-6	.6	.1	.3	2.9	83	.8	57	93	68	0	2	5	0
WICHITA FALLS	44	30	60	25	37	-5	.6	.4	.3	3.0	136	1.1	157	94	63	0	6	6	0
UT BLANDING	41	25	48	20	33	6	.7	.5	.4	2.4	114	.7	88	96	74	0	7	4	0
CEDAR CITY	43	29	50	23	36	7	T	.1	T	1.2	100	0	0	78	50	0	5	1	0
SALT LAKE CITY	40	29	42	21	34	6	.1	.1	.1	2.8	112	.3	38	91	67	0	5	4	0
VT BURLINGTON	16	2	29	-9	9	-8	.8	.5	.6	4.3	116	2.0	167	80	55	0	7	3	1
VA NORFOLK	39	27	55	20	33	-8	.2	.6	.2	6.1	102	1.3	52	63	39	0	6	1	0
RICHMOND	37	23	42	16	30	-8	.5	.1	.5	5.3	96	1.4	70	75	37	0	6	1	1
ROANOKE	33	19	39	10	26	-11	.7	.1	.7	5.0	94	1.2	63	70	38	0	7	1	1
WA COLVILLE	37	30	42	17	34	10	.2	.3	.1	5.3	136	1.5	94	95	90	0	3	3	0
QUILLAYUTE	50	38	54	28	44	5	1.3	-2.0	.4	26.0	94	11.4	109	99	77	0	2	6	0
SEATTLE-TACOMA	48	40	54	31	44	6	.7	.6	.3	13.4	125	5.5	134	96	71	0	1	6	0
SPOKANE	38	32	42	25	35	10	.1	.5	.1	4.5	100	.9	47	95	76	0	3	2	0
YAKIMA	51	33	97	27	42	15	.5	.2	.2	3.5	146	1.3	130	91	74	1	3	4	0
WV BECKLEY	26	11	41	-1	19	-13	.1	.7	.1	3.1	49	.4	16	89	53	0	7	3	0
CHARLESTON	32	14	51	-2	23	-12	.4	.4	.2	4.5	75	1.0	40	84	46	0	6	3	1
HUNTINGTON	32	18	53	4	25	-9	.8	.1	.5	5.2	95	1.2	52	80	45	0	6	3	0
PARKERSBURG	31	13	47	-2	22	-8	.6	.2	.5	5.4	98	1.1	44	91	55	0	6	3	0
WI GREEN BAY	23	8	33	-5	16	1	.1	.1	.1	3.6	150	.7	78	87	59	0	7	1	0
LA CROSSE	25	8	37	-8	16	0	.1	.1	.1	2.6	153	.3	50	93	63	0	7	2	0
MADISON	25	8	38	-7	17	1	.2	.1	.2	4.4	169	.4	44	95	61	0	7	2	0
MILWAUKEE	27	18	36	7	23	4	.4	0	.3	5.0	161	.6	46	83	59	0	7	2	0
WAUSAU	24	5	35	-8	15	2	T	.3	T	3.7	185	.7	88	85	50	0	7	0	0
WY CASPER	42	18	47	13	30	7	T	.1	T	3.8	475	.1	33	92	47	0	7	0	0
CHEYENNE	39	17	45	15	28	2	T	.1	T	.9	113	0	0	92	47	0	7	0	0
LANDER	31	13	37	11	22	3	0	.1	0	1.6	200	0	0	87	65	0	7	0	0
SHERIDAN	44	20	49	16	32	11	0	.1	0	.8	73	0	0	82	45	0	7	0	0
PR SAN JUAN	87	72	92	70	79	4	0	.8	0	7.5	95	.7	26	85	56	1	0	0	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

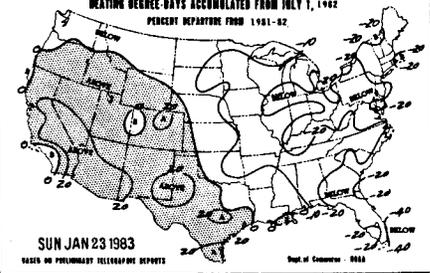
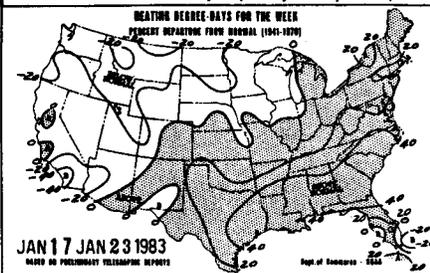
+100 = NORMAL & ACTUAL NEAR THE SAME

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING JAN. 23, 1983.

BASED ON 1941-70 NORMALS.

+ACCUMULATION FROM JULY 1, 1982

Table with 12 columns: STATES AND STATIONS, WEEKLY TOTAL, WEEKLY DEPARTURE*, SEASONAL ACCUMULATION +, SEASONAL DEPARTURE*, SEASONAL DEPARTURE FROM 1981-82, STATES AND STATIONS, WEEKLY TOTAL, WEEKLY DEPARTURE*, SEASONAL ACCUMULATION +, SEASONAL DEPARTURE*, SEASONAL DEPARTURE FROM 1981-82, STATES AND STATIONS, WEEKLY TOTAL, WEEKLY DEPARTURE*, SEASONAL ACCUMULATION +, SEASONAL DEPARTURE*, SEASONAL DEPARTURE FROM 1981-82.



National Agricultural Summary

JANUARY 17 to 23

HIGHLIGHTS: Snow fell across the Great Plains, providing winter wheat with additional soil moisture and protection from potential winterkill. Livestock were stressed, and farm activities were delayed. Heavy rain and ice brought most farm activities to a standstill across the Southeast with less than 3 days suitable for fieldwork. Generally, the wheat crop remained in fair to good condition across the Nation. Light to moderate snow provided protective cover to the major production areas.

Wet conditions delayed cotton picking in Texas and Oklahoma, while cleanup operations continued active in Arizona. Precipitation slowed citrus harvesting in all major producing areas, except Arizona where picking was steady. Rain delayed Florida's vegetable harvest, causing total shipments to decline 25% from the previous week. Snow and wet fields halted vegetable harvesting across Texas. Volumes continued steady from other major producing areas.

Supplemental feeding of livestock increased across the Nation, with adequate supplies available in all areas. Livestock were stressed by snow on the Great Plains and heavy rain in the Southeast.

SMALL GRAINS: Light to moderate snow fell across most of the Great Plains, giving winter wheat some much needed protection from winterkill. Additional snowfall would benefit most producing areas by increasing soil moisture and adding protection from cold weather and strong winds.

Snow cover helped Kansas wheat withstand freezing and thawing temperatures and prevented the blowing of soils. The crop continued in good condition with below-freezing temperatures preventing any greening up. Cold temperatures across Texas forced many wheatfields back into dormancy, while snow and rain increased the moisture reserve in most areas. Excess moisture caused some yellowing and disease problems in the Blacklands and Cross-Timbers regions. Wheat conditions across the State were mostly fair to good. Winter wheat fields in Oklahoma remained in good condition. Snow relieved short moisture supplies. In Montana and North Dakota, snow cover protection ranged from none to light, but the crop was in fair to good condition with only light wind damage. Early seeded wheat and barley made good progress in Arizona, but cold and foggy conditions in California limited growth. The rate of seeding increased in both States.

OTHER CROPS: Wet conditions stalled the Texas cotton harvest. Many fields remained for harvest on the High Plains. Producers need dryer fields before picking can be completed. Ginning slowed late in the week. Picking reached 96% completion in Oklahoma before precipitation delayed harvest. Cleanup operations continued in many cottonfields across Arizona. Second picking was limited.

Tobacco plants were in good condition in Georgia; growers completed tobacco bed preparation. Burley tobacco sales in Kentucky continued at a brisk pace.

Sugarcane harvesting continued active in Florida; yields were very good. The Texas sugarcane harvest was active with only minor weather delays. Cultivation of California's

sugarbeets remained active with fields looking mostly good.

FRUITS AND NUTS: Orchard pruning was extensive in Oregon and Washington. Many producers applied dormant sprays when the weather permitted. The pecan harvest was virtually completed in Texas; only a few northern orchards remain. Precipitation continued to delay the completion of picking in New Mexico.

Citrus groves in Florida were in very good condition after the beneficial rains of recent weeks. Harvesting was active until rains slowed picking. Citrus harvesting in Texas was slow. Sales were of mostly fresh grapefruit and oranges. Arizona's citrus groves were in good condition, and the harvest continued steady. Some precautionary measures against freezing were necessary toward the end of the week. Lemons and grapefruit were picked on a limited scale, while the Navel orange harvest neared completion. The Valencia orange harvest is expected to begin soon. Rain limited orchard and vineyard activities in California, although citrus harvesting remained active. Rain, fog, and low temperatures continued to cause Navel orange rind problems.

Vegetables: Early in the week, scattered frost spread as far south as Immokalee Florida, causing some leaf burn on tender vegetables. Rain accompanied by strong, gusty winds delayed harvest activities. Total shipments decreased 25% from the previous week. Potatoes, radishes, and Southern peas gained in volume. Harvesting of good quality strawberries was active; yields were down but size was good.

Movement of cabbage and cauliflower slowed in the Lower Rio Grande Valley of Texas. Snow or wet fields limited harvesting in most areas. Onions made good growth with producers applying side dressing as weather permitted. Arizona's growers continued to harvest mixed fall vegetables as warmer weather made excellent field conditions. Planting of watermelons, greens, and spring lettuce increased in the Salt River Valley and in the Marana and Willcox areas.

The lettuce harvest was active in the Imperial Valley of California, while spring lettuce made good progress in the Palo Verde and San Joaquin Valleys. Harvesting of artichokes and brussels sprouts was active along the central coast. Broccoli and cauliflower cutting continued active in southern California, the central coast, and the San Joaquin Valley. Potato digging continued in Kern and Riverside Counties, while packing was active in Tulare-Butte Valley storage sheds.

PASTURES AND LIVESTOCK: Colder temperatures increased stress of livestock, especially calving and lambing operations which required more care due to wet conditions. Pastures continued to provide some grazing in the Southeast, but supplemental feeding was required generally on the Great Plains due to snow. Adequate supplies of stored roughage were available throughout the Nation. Cold temperatures slowed forage growth in Texas, but snow and rain helped restore soil moisture.

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 Offices in cooperation with the National Weather Service.

ALABAMA: Temperatures averaged well below normal. Many areas received snow or ice 19th causing power outages across central and north areas. Most areas received between 1.00 and 2.00 in. of precipitation.

ARIZONA: Unsettled weather prevailed through mid-week as two upper level low pressure systems moved across State. Precipitation confined eastern two-thirds of State, snow level slightly below 5,000 feet. Snowfall heaviest White Mountains, 2 to 15 in. reported. Moisture amounts over eastern two-thirds generally between 0.10 and 0.50 in., locally, over 1.00 in. White Mountains. Average temperatures varied 2° below normal to 3° above.

Vegetable growers continued harvest various fall vegetables. Warm weather advanced maturity cauliflower Yuma County. Harvest very active, reached peak. Fall lettuce harvest steady Yuma County. Vegetable harvest activities active Salt River Valley areas, warmer weather making field conditions excellent. Mixed vegetables being picked include mixed greens, cauliflower, green onions, spinach, leaf lettuce, broccoli, parsley, cabbage. Watermelon planting began, short term miscellaneous greens also planted Salt River Valley. Spring lettuce planting still occurring Marana, Willcox areas. Citrus harvest continued steadily. Some precautionary measures against freeze necessary toward end of week. Tangerine, tangelo harvest progressed normal pace. Lemons, grapefruit picked on limited scale. Navel orange harvest nearing completion. Valencia orange harvest expected to begin by first of February Yuma County, mid-February Salt River Valley areas. Citrus groves good condition. Cotton harvest rapidly winding down Statewide. Yuma County finished with harvest. Maricopa, Pinal, Pima Counties had some second picking, rooding activities taking place. Majority growers finished picking and concentrating efforts on cotton stalk destruction, plow down. Cotton farmers Graham County somewhat delayed by storm first of last week. Continued winding down harvest as conditions permitted. Wheat, barley planting at increasing rate. Irrigation activities began as farmers completed planting. Crop development made average progress Yuma County, stands well established. Some early planted fields reached jointing stage. Small grains Maricopa, Pinal, Pima Counties average progress, plants emerging, stands established. Southeastern counties, few early planted fields stands established. Alfalfa haying activities seasonally slow.

ARKANSAS: Temperatures averaged well below normal. Precipitation widespread but mostly light. Highest normal 45°, lowest 36°. Highest mean 36°, lowest 29°. Highest temperature, 60°, lowest 12°. All departures from normal ranged from -5 to -10°. Most rainfall 1.33 in., least 0.03 in.

Light snow covered most of State. Winter wheat condition remains fair to good. Pastures continue to provide some grazing. Livestock and poultry in mostly good condition. Ample feed supplies.

CALIFORNIA: Weather systems on both northerly and southerly tracks spread some precipitation over most of the State. Largest amounts in the northern two-thirds, although the South Coast reported upwards of 1.00 in. of rain. Weekly mean temperature trends were mixed except Desert areas and the South Coast uniformly high. South Coast highs were in the 70's and 80's while northeast interior shivered with highs in the 30's.

Small grain growth is behind normal due to cold and foggy weather. Wheat and barley continued to be planted in the San Joaquin Valley. Rains in Fresno County continued to hamper harvesting operations of field corn and milo. Some oats are being green chopped in the northern San Joaquin Valley. Some of the herbicide applications on future cotton ground in the San Joaquin Valley will have to be repeated due to the rain. Sugarbeets being weeded and cultivated. Alfalfa in the Sacramento Valley is being sprayed for weeds and weevils. Ground preparation for safflower should begin as soon as weather allows. Orchard, vineyard cultural activities limited by rain. Bacon, Zutano avocado harvest active - good quality. San Joaquin Valley citrus harvest continuing. Lemons undersized, Navel orange rind problem -- rain, fog, low temperatures. Mandarins, Desert Valley grapefruit harvest active. Artichoke, brussels sprouts harvest active. Central Coast, recent rains beneficial. Light asparagus harvest Desert. Broccoli, cauliflower harvest continues Southern California, Central Coast, San Joaquin Valley. Celery volume moderate Southern California. Lettuce harvest active Imperial Valley, spring crop doing well Palo Verde, San Joaquin Valleys. Packing potatoes active from Tulalake-Butte Valley storage. Digging potatoes Kern, Riverside Counties. Ground preparation, planting tomatoes as field conditions permit. Range grass growth slow due cool temperatures central northern districts. Supplemental feeding active most areas. Rains caused muddy conditions around feeding areas. Lambs doing well.

COLORADO: Light snow occurred on 17th and late in the week over the west and south, but moisture amounts were generally 0.33 in. or less. The heaviest snowfall reported was 4 to 6 in. over the southeast 21st and 22nd. From 18th to 22nd the eastern plains were shrouded with dense fog and low clouds with frequent periods of light freezing drizzle or light snow. Fog also occurred frequently over western valleys. Temperatures averaged 3 to 5° below normal over the eastern plains but were normal elsewhere.

FLORIDA: Partly cloudy skies and warm temperatures, 17th, gave way to cloudy skies and showers the next day with a cold front down through the State. Remainder of period dominated by considerable cloudiness, fog, drizzle, coupled with showers, thunderstorms; finally clearing Statewide late on the 23rd. On the 21st, strong winds of 30 to 40 mph gusted to 50 mph or better in spots. Rainfall significant with 2.00 to 7.00 in. over the south especially.

Soil moisture adequate, west, north, upper south; a little short central but excessive southeast. Land preparation slow, mostly liming, fertilizing soils. Sugarcane harvest remains active, yields very good. Small grains good condition. Expected increase in fieldwork if weather permits. Pasture conditions good to excellent south, poor to fair central north; variable improvements in Panhandle. Cattle fair to good condition. Citrus trees and groves very good condition, excellent rain several days late week. Freezing temperatures failed to materialize due to clouds. Harvest active early in week, slowed considerably by rains. Early week was cold in vegetable areas with scattered frosts southward to the Immokalee area. Tender crops had some leaf burn. General rains accompanied by strong, gusty winds occurred late week. Heaviest rains fell Pompano area. Harvest,

fieldwork delayed by rain, wet fields. Total shipments decreased 25% from previous week. Crops gaining in volume were potatoes, radishes, Southern peas. Supplies about steady snap beans, carrots, celery, okra, parsley, watermelons. Volume declined other vegetables. Strawberry harvest remains active. Quality, size good but yields down. Limited supply of fair quality fall watermelons continues available.

GEORGIA: Arctic airmass covered State latter part of period. Sleet and freezing rain southwest evening of 19th, spreading to central areas by sunrise 20th. Sleet, snow and freezing rain northern two-thirds 20th, rain southern third. Rain over north on 21st. Lows in teens mountains, 20's north, low 40's south late in period. Highs 40's and 50's. Weekend of 22nd and 23rd extensive cloudiness and drizzle. Lows 30's north to 40's south, highs 30's and 40's north to 50's south. Clearing southern third late 23rd.

Soil moisture surplus. Cold, ice and snow limited farm activities. Small grain fields suffering nitrogen deficiency due to leaching some southern areas. Condition fair to mostly good. Tobacco plants in good condition. Pastures continued good condition. Cattle and hogs good condition.

HAWAII: Generally favorable weather for most of the State. Volcanic fumes blanket Island chain, causing minimal damage to crops. Irrigation necessary in most major crop areas. Supplies of leafy lettuce moderate. Cabbage production expected to be heavy. Bananas production light. Papaya supplies moderate from Island of Hawaii. Only a few sugar mills grinding due annual maintenance. Pastures generally good.

IDAHO: Temperatures were as much as 7 to 10° above normal last week. Boise, Lewiston, and Hagerman shared the States high with 49° while the low was -21° at Stanley. Fog persisted in most valleys until midweek when a Pacific storm moved across the State with Parma reporting almost 0.34 in. for the greatest amount.

Despite the moderate weather of the past week, there was little field activity. Preparing taxes, attending meetings and routine chores occupied most farmers time. Some crop movement to markets was also reported. Calving and lambing expanded to a few more areas of the State. Hay is in tight supply in some spots.

ILLINOIS: Temperatures averaged normal to 5° below normal across the State. Minimum readings near zero in the north. Precipitation moderate with 0.15 to 0.44 in. in the northern two-thirds of the State to 1.00 in. in the extreme southeast. One inch of snow fell in the northern and central sections on the 21st.

Winter wheat condition: 11% excellent, 79% good, 10% fair. Livestock in mostly good to excellent condition. Soil moisture: 12% surplus, 76% adequate, 12% short.

INDIANA: Freezing rain and sleet ended most outside activity late in period. Earlier farmers active hauling manure, spreading lime and fertilizer, sowing clover seed, and cutting wood. Other activities included moving grain to market, attending farm meetings, preparing taxes, maintaining equipment, some preparations for the 1983 season, caring for livestock and usual chores.

IOWA: A mild week with subnormal precipitation. Snow cover persisted over the northwest and north central districts. One to two in. of new snow fell elsewhere on the weekend to temporarily cover the State with snow.

KANSAS: Precipitation averaged 0.10 to 0.20 in. from intermittent snows after 17th. Heaviest snowfall up to 8 in. southwest. Temperatures averaged 23 to 26° central and west, 28 to 29° east. These were around normal northeast and east central to 2° below southeast and northwest districts and 3 to 6° below normal elsewhere.

Winter wheat faring well with favorable weather conditions. Snow cover midweek helps wheat withstand freeze-thaw temperatures and inhibits soil blowing. Temperatures at or below freezing, virtually no greening up. Calving and lambing operations require more care with wet conditions. Livestock on full winter rations, adequate feed and roughage supplies.

KENTUCKY: Temperatures averaged 5 to 8° below normal with highs mostly in 30's. Precipitation amounts between 1.00 to 1.50 in. in west and less than 1.00 in. in east. Most precipitation came as rain and freezing rain 20th and 21st.

Gross sales (includes resales) of Kentucky burley thru 20th totaled 513, 143, 771 pounds at an average price of \$182.55 per cwt. Livestock care main activity.

LOUISIANA: Rainfall Statewide with heaviest amounts across south and east central portions of the State. Greatest weekly total 4.87 in. Temperatures ranged 7 to 10° below normal. Weekly average temperatures ranged from mid-30's north to low 40's south.

Caring for livestock and routine chores were the main activities.

MARYLAND AND DELAWARE: Cooler than normal with light precipitation. Temperatures Statewide averaged mostly 3 to 6° below normal. Western Maryland averaged 8° below normal west of the mountains and 3 to 6° below normal east of the mountains and elsewhere. Minimum temperatures were -12° at Oakland and averaged 6 to 9° west of Frederick to Cumberland. The remainder of the two States had minimum temperatures in the teens. High temperatures averaged in the low to mid 40's with temperature at Cumberland at 58°. Precipitation was minimal with amounts ranging from a trace to 0.42 in. at Salisbury and Georgetown. Week end on 22nd and 23rd was cloudy with daytime highs in the upper 30's to low 40's and lows in the upper 20's to low 30's. Precipitation came as scattered showers both days with a sprinkling of snow on 22nd.

MICHIGAN: Average temperatures did not deviate much from normal. Upper Peninsula and the southern Lower Peninsula average temperatures were 2° above normal. The rest of State had temperatures just slightly below normal. Below normal precipitation was the rule with snow cover being well below normal.

MINNESOTA: Week continued trend of above normal temperatures. The northwest district continued well above normal -- in general 15 to 20°. The southeast district was cool to near normal with average temperatures running from 2 to 5° above normal. The extremes were 39° at Winona for the high and -27° at Hibbing for the low. Precipitation totals were below normal over the entire State except for the extreme northwest where about 0.25 in. was received; except for the northwest, most of the State recorded 0.05 in. or less. Most stations recorded trace amounts.

MISSISSIPPI: Arctic high pressure system spread over the State during the first part of the period and was slow to lose its grasp during the remainder of the week. Persistent cloudiness combined with a deep low pressure system which developed in the northern Gulf during midweek kept tempera-

tures much below normal and rainfall totals above normal. Temperatures averaged nearly 10° below normal while precipitation averaged from around 1.00 in. in the extreme north, to 2 to 3 in. elsewhere. Greatest 24-hour rainfall total was 2.60 in. at Grenada, and also 2.60 in. at Poplarville. Highest temperature was 66° at Bay St. Louis. Lowest temperature was 17° at Tupelo, and also at Iuka.

Soil moisture surplus to excessive. Rain Statewide along with sleet and snow in the northern area of the State limited fieldwork to 2.0 days suitable. Care and feeding of livestock was the main farm activity. Winter wheat condition fair. Hay and roughage and feed grain supplies adequate. Pasture and livestock condition fair.

MISSOURI: Temperatures varied from slightly above normal in the northern half of the State to 8° below normal in the Bootheel. Precipitation was slight over the northern two-thirds of State, around 0.50 in. was received in the southwest and nearly 1.00 in. was received in the Bootheel as the first winter snow fell at many locations in that area.

MONTANA: Temperatures 6 to 10° above normal. Highest 51° Roundup, lowest -17° West Yellowstone. No precipitation most areas, less than 0.10 in. in areas that received late week snow.

Winter wheat condition fair to good, snow cover protection none to poor, wind damage light. Livestock good condition, grazing open.

NEBRASKA: Temperatures 4° above normal. Light snowfall at midweek. Moisture accumulations ranged from traces to 0.20 in.

NEVADA: Week started with clear skies and above normal temperatures. Cloud cover midweek and lower temperatures but precipitation confined largely to high elevations. Snow widespread northern areas end of period, rain elsewhere.

Feeding requirements normal, made more difficult by rain, wet snow, and mud. Livestock mostly good condition. Movement potatoes to market continues slow.

NEW ENGLAND: Precipitation ranged from 1.20 to 1.50 in. over southern New England and between 0.75 to 1.10 over northern areas. Precipitation fell as snow early in the week and at week's end changed to rain and freezing rain. New England experienced the coldest weather yet this winter and temperatures averaging 6 to 8° below normal. Overnight lows dropped to -15° across the north to -5° across the south.

NEW JERSEY: Temperatures well below normal, averaging 21° north, 25° south and 28° coastal areas. Extremes -1° at Newton and 57° at Hammonton. Precipitation above normal north and near normal south and coastal, averaging 1.15 in. north, 0.68 in. south and 0.70 in. coastal sections. The heaviest 24-hour total reported 1.05 in. on 23rd to 24th at Newton. The depth of snow on the ground on 23rd was 3 in. at Belvidere Bridge, Canoebrook, Charlotteburg, Flemington, Newton and 2 in. Reshanic Station.

Farmers caring for livestock and tending to other normal winter chores.

NEW MEXICO: Average temperatures below normal. Precipitation reported at all locations.

Outside activities limited due to precipitation and cold temperatures. Soil moisture remains adequate. Wheat and barley in fair to good condition. Grazing remains about normal. Pecan harvest slowed due to precipitation. Fall seeded onions in good condition. Spring lettuce planting slowed due to precipitation. Clean-up harvesting of late

crops continued. Ranges remained in fair to good condition in most areas. Supplemental feeding necessary in many areas. Cattle and sheep in good condition.

NEW YORK: Lingering snow in eastern sections on 16th followed by cold temperatures till midweek. Precipitation for most of the week was confined to near the Great Lakes and was generally less than 0.25 in. Average temperatures from 5 to 15° began to moderate into the weekend.

NORTH CAROLINA: Temperatures below normal Statewide, 12° below in Piedmont region. Precipitation varied, heavy in mountains.

Soil moisture: 1% short, 82% adequate, and 17% surplus. Days suitable for fieldwork: 3.6. Conditions: Wheat, oats, barley and rye fair to mostly good. Harvest: Soybeans 97%, 1981 100%, average 100%. Hay and feed grain: Mostly adequate to surplus. Major farm activities: Soybean harvest, cutting of firewood, leasing tobacco allotments. Fence repair and machine maintenance.

NORTH DAKOTA: Very mild weather continued. Temperatures averaged from 10° above normal east central to 14° above normal northwest, west central and south central. Precipitation below normal across State. Greatest amount 0.07 in. east central. Snow cover is light across the State. Greatest amount is 6 in. north central. Northwestern areas have 2 in. of snow cover while southern half generally has only a trace.

Light snow cover and strong winds caused some problems with soil erosion. Mild temperatures keeping damage to susceptible winter wheat and rye from being too severe. Less than normal amounts of livestock feed being consumed.

OHIO: Temperatures averaged below normal, especially frigid early in week. Extremes range from lows around -5°. Highs 40 to 50° at mid-day. Precipitation widespread. Heaviest southwest with slightly over 1.00 in.; northeast, 0.25 to 0.33 in. State average 0.33 to 0.50 in. Bare soil temperature at 4 in. fluctuated above and below freezing. Freeze-thaw action accelerated due to lack of snow cover. Major storm fronts missed the State.

Winter wheat remains in good condition. No reported water damage. Milk production remains high due to moderate weather. Farm activities included caring for livestock, cleaning barns, chopping wood, purchasing fertilizer, repairing machinery. Greenhouse activities included planting vegetables, especially cabbage and celery.

OKLAHOMA: Precipitation averaged 0.20 to 0.60 in. across State. Temperatures averaged 4 to 7° below normal.

Snow provided much-needed moisture to wheat pasture. Supplemental feeding required for cattle across State. Cotton harvest 96% complete.

OREGON: Continuing rainfall left almost 2.00 in. precipitation along coast; rest of State totaled less than 0.50 in. Temperatures 3 to 4° above normal Statewide except 6° above normal in northeastern areas.

Soil moisture supply adequate to surplus. Little field activity. Some spraying on winter grains and grass seed fields. Winter wheat generally good shape. Grass seed fields grazed by sheep responded well to warmer weather. Filberts blooming; light number of Catkins. Considerable orchard pruning underway; dormant sprays being applied. Livestock in good condition. Lambing in full swing. Pastures fair to mostly good shape. Hay supply tight in many areas.

PENNSYLVANIA: Cold air and scattered snow showers began the week over the State and ended with warmer weather which was preceded by an ice storm.

Temperatures averaged around 7° below the normal and it was the coldest week of the winter season. Extremes ranged from 41° to -9°. Precipitation on the light side and ranged from 0.10 in. in the Upper Susquehanna Valley to over 0.60 in. in the southwestern plateau region. State average precipitation approximately 0.40 in. below normal.

PUERTO RICO: Island average rainfall 0.16 in. or 0.61 in. below normal. Highest weekly total 1.04 in. Highest 24-hour total 0.80 in. Temperatures averaged about 77 to 75° on Coasts and 73 to 71° Interior Divisions. Mean station temperatures ranged from 79.1 to 65.2°. Extremes 92 and 52°. Total rainfall 0.65 in.

SOUTH CAROLINA: Cold front lowered most temperatures 15 to 20° below normal on 19th. Winter storm then spread rain, freezing rain and sleet over southern, central portions while freezing rain, sleet or snow covered north late 20th and 21st. Precipitation changed to rain over weekend, amounting to 1.00 to 3.00 in. of liquid precipitation. Farming activity slowed due to adverse weather. Main activities included caring for livestock and poultry, ditches cleared and drainage improved, farm machinery repaired.

SOUTH DAKOTA: Temperatures 3 to 14° above normal. Extremes: 52 and -8°. Precipitation light, up to 0.10 in. Snow cover in southeast 4 to 8 in. Remainder of State relatively snow-free.

TENNESSEE: An Arctic type pressure prevailed the early portion of the week. On 20th, a low pressure in the Gulf of Mexico began moving northward. It gave rise to a combination of snow, sleet, freezing rain and freezing drizzle that fell mainly 20th through 21st, 22nd the low pressure moved north of the State and high pressure again prevailed 23rd. Precipitation amounts were generally 1.00 to 1.50 in. for most of the State. Low temperatures averaged in the 20's. High temperatures averaged in the mid and upper 30's, except Knoxville, which averaged near 40°.

TEXAS: Cold front stationary Trans-Pecos, small portion Lower Rio Grande Valley first part of week. Cold from northeast as upper level disturbance--along with some overrunning--produced light rain and drizzle over State. Latter week, upper level system tracked across southern Plains as another system moved eastward from southwest into Southwest and Central Texas. System produced snow Panhandle, record amounts High Plains. Lubbock, 17 in.; Amarillo, 10 in.; and Abilene, 5 in. Small amounts Edwards Plateau and Central Texas. High pressure returning and week, mostly fair skies and warmer temperatures. Temperatures near normal Trans-Pecos, and 7 to 8° below normal High Plains, Low Plains, East Texas and the Upper Coast. Rest of State, below normal. Precipitation near normal North Central Texas, Lower Valley with 0.25 in. below normal East Texas. High and Low Plains, Upper Coast, precipitation was 0.75 in. above normal. Rest of State 0.25 to 0.50 in. above normal.

Range and livestock: Range and pasture conditions little improvement as cold temperatures stalled growth forage most areas. Snow and rain help restoring soil moisture; aid in growth as temperatures warm. Small grains limited grazing as cattle held off until wheat and oat fields show more growth. Cattle and other livestock good condition, although cold, wet weather increasing shrink cattle. Supplemental feeding continued throughout State with heavy amounts Plains and Trans-Pecos. Very little movement local sales.

Commercial vegetables: Lower Rio Grande Valley, harvest cabbage and cauliflower continued although movement to market slowed. Onions make good growth; most stands excellent condition. Citrus harvest

slow with mostly fresh market grapefruit and orange sales. Laredo, fieldwork slowed by wet conditions. Side dressing of onions continued as weather permitted. Development onions good very little disease or insect problems. San Antonio-Winter Garden, low prices, wet fields halted harvesting activity. Some carrots and cabbage harvested early week. Trans-Pecos, very little activity occurred due to snow, freezing temperatures. Pecan harvest virtually complete. Only few northern orchards remain, some production abandoned due to harvesting costs, availability of labor. Quality fair.

Crops: Harvest and field operations halted during week as cold front brought snow, sleet, rain and cold temperatures most of State. Cotton harvest Plains active early week, but no progress after front moved into State. Snow and rain helpful restoring soil moisture most areas. Growth small grains remains due to cold temperatures. Cotton harvest stalled poor weather conditions, very little progress during week. Some harvesting completed early week, many fields remain High Plains. Producers awaiting open weather to allow fields to dry and harvest be completed. With continued cold, wet conditions some fields deterioration of quality. Gins active, but by week's end slowing down. Small grains little growth during week, as cold temperatures put many fields back into dormancy. High Plains snow and rain helpful providing needed moisture; enhance growth as weather clears and temperatures warm. Blacklands and Cross-Timbers, excess moisture cause yellowing; promoting disease development. Greenbugs problem, although hoped cold temperatures reduce buildup. Powdery mildew, rust some fields Blacklands and Cross-Timbers. Some spraying as weather permits. South Central and South Texas, rainfall helpful, more needed to aid the growth. Currently wheat condition across the State is 68% of normal, unchanged from a year ago. By week's end, 4% was reported excellent; 33% good; 54% fair; and 9% poor. Rio Grande Valley, sugarcane harvest active with only minor weather delays. Quality good as milling operations steady pace. Cotton harvested 98%, 100% 1981, 99% average. Pecans harvested 100%, 100% 1981, 99% average.

UTAH: Recurring periods of rain or snow most of State. Accumulations variable ranging from a trace to 1.25 in. Average temperatures much above normal, ranging from 1° below to 10° above.

Major activities, routine chores, care of livestock, potato marketing slow. Marketing of onions limited. Movement of apples continue as orders received.

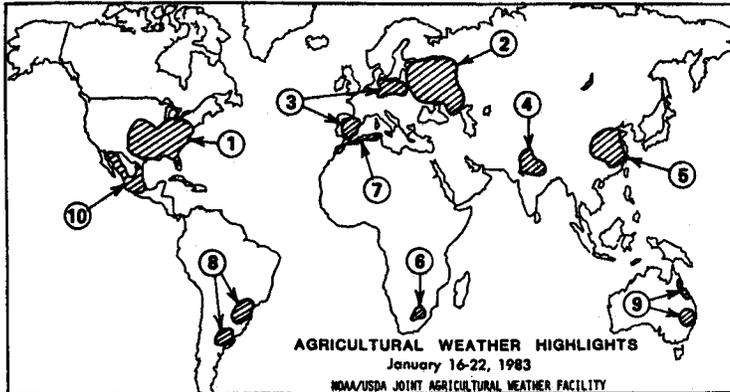
VIRGINIA: Average temperatures 5 to 10° below normal as cold Canadian air moved into the State. Extremes from near zero to the low 50's. A slight moderating trend occurred over the weekend as a storm system spread a variety of precipitation across the State. Precipitation light and averaged from around 0.50 to 1.25 in. over the weekend.

Fieldwork limited to an average of 2.2 days due to rain, snow and frozen ground. Soil moisture judged 3% short, 84% adequate and 13% surplus. Farmers in some areas able to take advantage of the frozen ground to harvest late soybeans and grains. Others applied fertilizer and lime to frozen fields. Preparation and seeding of tobacco plant beds very limited. Livestock generally in good to excellent condition but the inclement weather has been hardest on young stock. Some livestock deaths due to severe weather. Winter grains and grazing crops rate good to excellent. Supplies of feed grains abundant and hay and roughage adequate though some areas shorter than last year due to light first cuttings in 1982. The cold requiring supplemental feeding and extra care for livestock. Gathering firewood, pruning orchards and preparation for collecting maple syrup continue. Prepar-

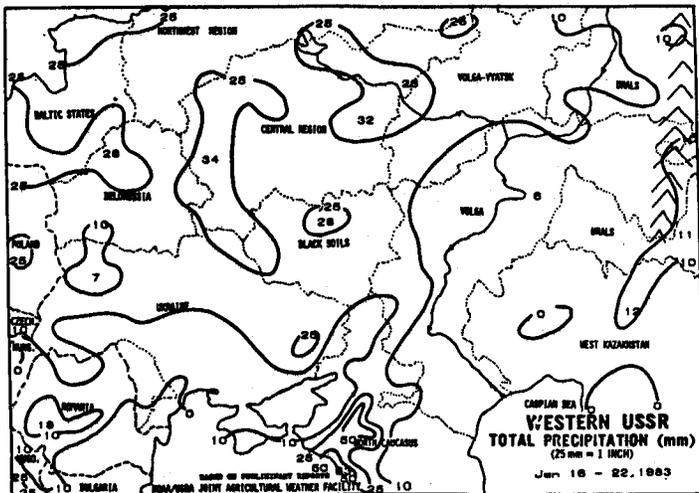
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International Weather and Crop Summary

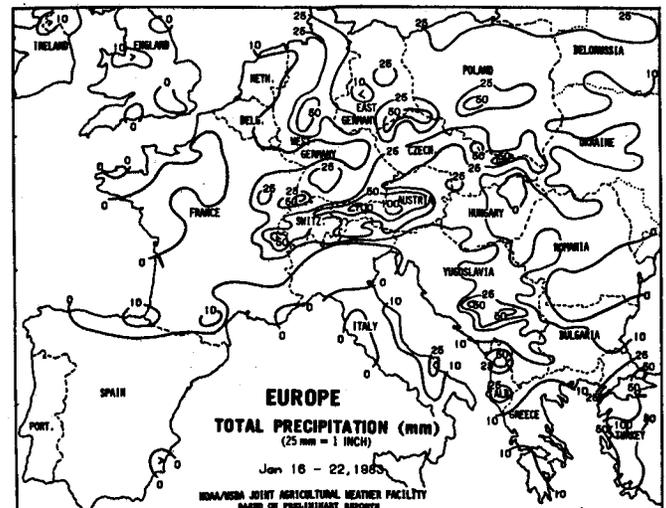
January 16 to 22



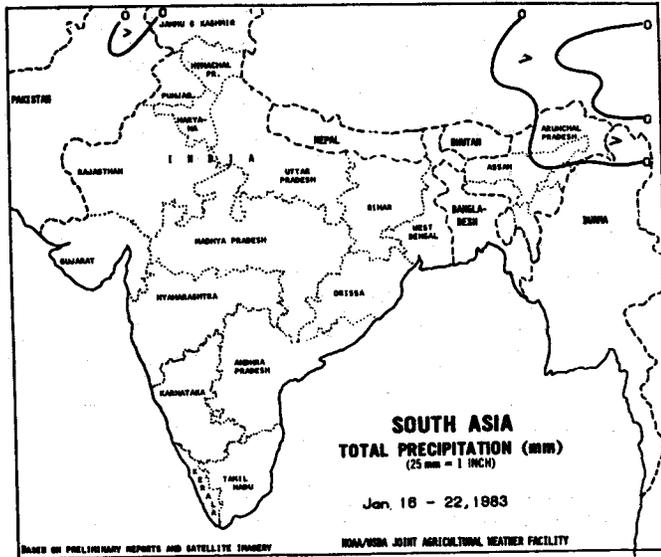
1. UNITED STATES ... Snow gives protective blanket and needed moisture to central and southern Plains wheat, while cold induces dormancy in the southern section. Wet, cold, icy weather over southeastern third of Nation limits fieldwork and stresses livestock.
2. WESTERN USSR ... Showers benefit most winter grains; however, southern fields remain highly vulnerable to winterkill.
3. EUROPE ... Rain and snow showers improve soil moisture in East Germany and Poland; continued dryness in Spain reduces topsoil moisture needed for good early establishment of winter grains.
4. SOUTH ASIA ... Dry weather continued to stress winter grains in the vegetative stage.
5. EASTERN ASIA ... Favorable overwintering conditions continue in most winter grain areas.
6. SOUTH AFRICA ... Beneficial rains, although variable in amounts, aid pollinating corn, but periods of hot weather adversely affect crop development.
7. NORTHWESTERN AFRICA ... Light showers continue to provide favorable moisture in eastern Algeria and Tunisia; it's becoming too dry for favorable plant establishment in western Algeria and Morocco.
8. SOUTH AMERICA ... Variable rainfall in Argentina aids sorghum but is insufficient for corn growth and second-crop soybean planting; moisture is adequate for soybean flowering and pod-setting in Brazil.
9. AUSTRALIA ... Mostly dry weather covers the nation as summer crops advance into reproduction and early grain-filling periods; some light showers fall on sugarcane areas of Queensland, but substantial rains are needed.
10. MEXICO ... Heavy rains over parts of southern Plateau corn belt improves soil moisture for spring planting; mostly widespread, light rain elsewhere interferes slightly with field operations.



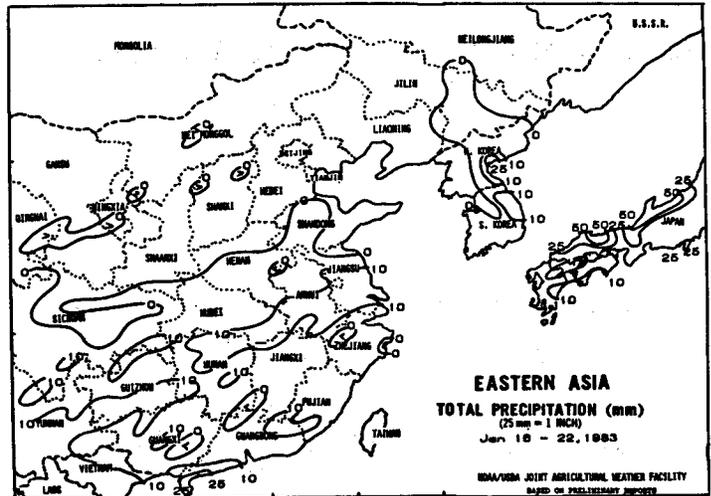
WESTERN USSR...Wet weather covered most winter grain areas, except the south-central Ukraine and northern North Caucasus, which received light, scattered precipitation. The moisture fell mainly as rain in the west and south, and snow in the north. Weekly temperatures were above normal over the entire region, and as a result, most winter grain areas in the Baltic States, Belorussia, Black Soils, the Ukraine, and North Caucasus are without a protective snow cover. Much colder air accompanied by snow showers moved into the Baltic States, Belorussia, and the western Ukraine by week's end. Winter grains in Belorussia, the Ukraine, Black Soils, and the North Caucasus remain highly vulnerable to winterkill without an adequately protective snowfall.



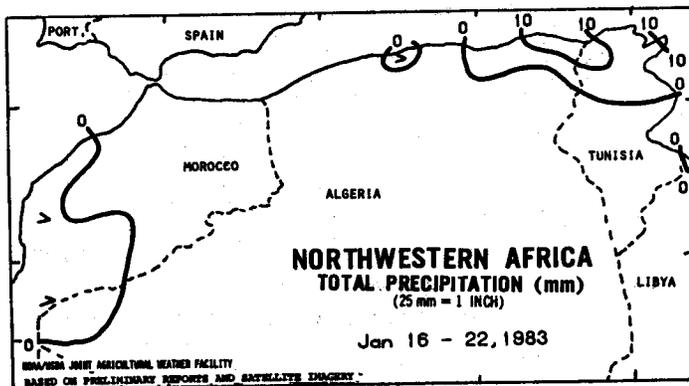
EUROPE...Generally dry weather covered winter grain areas in England and France. In Spain, continued dry weather has reduced planting prospects in southern Spain and is stressing newly emerged plants in central and northern Spain. In northern Europe, wet weather continued over most of the region. The precipitation in East Germany and Poland improved soil moisture supplies. In the southeast, light rain covered Hungary and Romania, while winter grains in Yugoslavia received beneficial amounts of precipitation. Weekly temperatures were above normal everywhere except Spain and Italy where they were near normal.



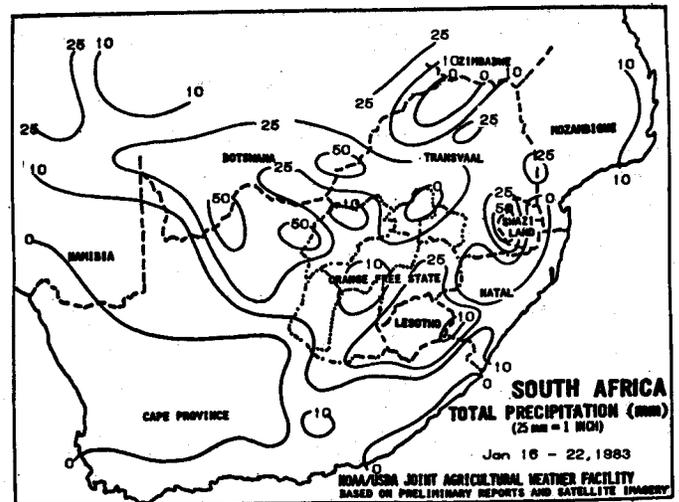
SOUTH ASIA... Dry weather continued over the region. The dryness in Gujarat, Maharashtra, Orissa, Karnataka, Andhra Pradesh, Kerala, and Tamil Nadu is seasonable for this time of year. In contrast, winter wheat areas of Punjab, Haryana, eastern Rajasthan, Uttar Pradesh, Bihar, and Madhya Pradesh normally should receive about 10 mm of precipitation each week in January. These showers normally extend into February, coinciding with the peak moisture-use reproductive stage for winter wheat. The early withdrawal of the monsoon in northern India left a large portion of the winter wheat area with low soil moisture. Therefore, unirrigated winter wheat areas need generous rains to ensure favorable yield prospects. A portion of the crop is now in the heading stage, and the continued dry weather is reducing yield prospects.



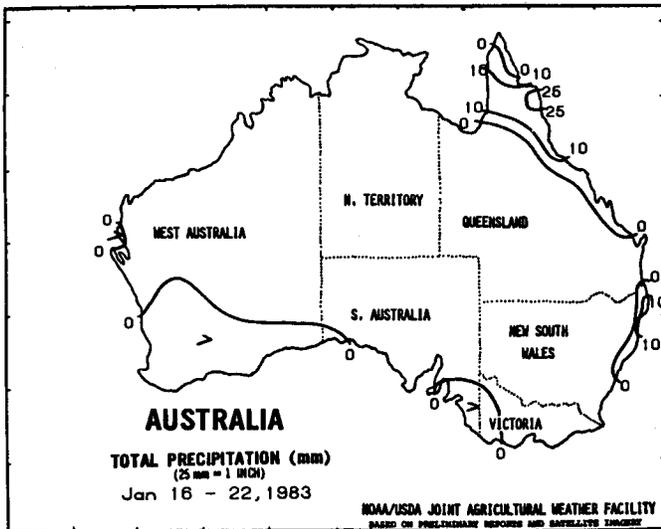
EASTERN ASIA... Light precipitation covered the major winter grain areas in the North China Plain except crop areas in southern Jiangsu, central Anhui, and southern Hubei, which received 10-20 mm of precipitation. The moisture fell mainly as rain in the south and snow in the north. In South Korea, light snow covered most winter grain areas. Conditions in nearly all winter grain areas were too cold for growth.



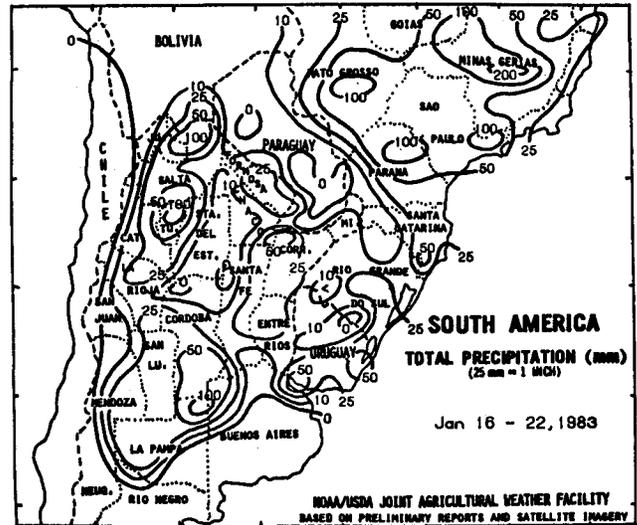
NORTHWESTERN AFRICA... Light showers continued to provide favorable moisture for winter grains in the vegetative stage in eastern Algeria and northern Tunisia. Mostly dry weather continued over grain areas of Morocco and western Algeria. The dry weather in southern Morocco is reducing planting prospects as topsoil moisture is too low for uniform germination and good plant establishment.



SOUTH AFRICA... Widespread showers covered the Maize Triangle, but weekly totals varied significantly. The moisture highly benefited corn in the reproductive cycle in western and southern portions of the major corn-producing region. Weekly temperatures averaged mostly above normal, although cooler weather accompanied the shower activity. Maximum temperatures during the week continued to push above the optimum range for corn growth throughout the western half of the Maize Triangle. Thus, although the timely rains aided the pollinating corn, moisture supplies were limited as the hot weather increased the rate of water usage through evapotranspiration. Additional rains are needed to sustain crop development, particularly in the western half of South Africa's corn-growing area.



AUSTRALIA...Mostly dry weather covered the nation. Some light showers fell along east coastal Queensland, benefiting vegetative growth of sugarcane. However, Australia's devastating drought seems to have encompassed northern portions of the country as well as southern crop areas. Rainfall was well below average for the week throughout sugarcane, summer crop, and grazing areas of Queensland. Summer crops, such as corn, sorghum and rice, are mostly in reproductive to early filling periods; although, late sorghum plantings can still occur in Queensland through January if conditions permit. Temperatures were generally seasonal in the east but above average in the west during the week. Crop development must rely on limited moisture supplies.



SOUTH AMERICA...An area of relative dryness and excessively high temperatures persists between the well-watered pampas of western Argentina and the more humid subtropical areas of southern Brazil. Corn, the crop most affected by the hot, dry weather covering southern Santa Fe and northern Buenos Aires, is advancing from the crucial pollination period to the grain formation stage. The untimely hot, dry weather has adversely affected corn yield potential. The dryness has also delayed corn planting of second-crop soybeans. Sorghum and cotton areas to the west and north have adequate moisture. In Brazil, scattered showers covered the soybean areas of Rio Grande do Sul and southwestern Parana, while widespread tropical showers fell on the north. Locally heavy rains dotted the region and may have been excessive for the vegetative cover. The early planted soybean crop is in pod filling, while the later planted crop is flowering.



MEXICO...Rain, mostly light, was widespread across the northern two-thirds of the country. However, heavy amounts fell in parts of the southern Plateau's corn belt and east-central coastal citrus areas. The much-needed rain will improve soil moisture for orchards and corn planting during the spring. Light rain and considerable cloudiness covered the Culiacan Valley. However, vegetable production should have progressed satisfactorily.

National Weather Summary (continued from front cover) ed over the Great Lakes and drifted slightly eastward, maintaining its frigid grip on the Northeast.

SATURDAY ... Precipitation, similar to that on Friday, blanketed the eastern half of the Nation as the two storms combined and moved into the Ohio Valley. Warmer air edged northward as the center of the arctic airmass retreated into New England. Another storm approached the Pacific coast, spreading rain over the westernmost States and gale winds from the coast of Oregon to central California. Sunny skies finally returned to the southern Plains, while most of the rest of the Country remained cloudy.

State Summaries (continued from p. 12) ation of tobacco for burley, sun-cured and dark-fired tobacco sales continues. Most farmers working indoors on farm records, taxes and machinery maintenance as well as attending farm meetings.

WASHINGTON: High pressure to the east of the State was the most significant feature on the weather map through 23rd. A large low pressure system continued its slow advance through the Gulf of Alaska and, by 17th, dominated the weather over the Pacific Northwest. Measurable precipitation was reported on nearly every day of the week, total amounts were significantly below normal west of the Cascades; but, they were generally above normal at most sites east of the mountains.

(continued on back cover)



State Summaries (Washington: continued from p. 15)

West: Caneberry pruning continues. Harvest forced rhubarb underday. Christmas tree planting and post harvest clean-up continues. Livestock in good condition with adequate feed.

East: Weather has been mild leaving many fields with ice or standing water. Snow cover in higher elevations of the State. Pruning of orchards continues. Bookkeeping, machinery repair and attending winter meetings primary activities. Crops in good shape.

WEST VIRGINIA: Temperatures averaged 10° below normal. High 53°, low -24° at Gladys the 20th. Precipitation slightly below normal; well below normal in northeast.

Soil moisture adequate. Days worked 2.3. Hay supplies adequate to short. Grain and other feeds adequate.

WISCONSIN: Cold high pressure dominated the weather across State during the beginning of the week. The first 5 days were dry except for some lake effect snow across the north and along Lake Michigan. As the high pressure system moved east, temperatures moderated by midweek. Mild weather then continued for remainder of the week. A low moved from the lower Mississippi Valley to southeast over the weekend dumping from 1 to 4 in. of snow over south and east. The coldest temperature was 23° below at Duluth-Superior morning 18th. The highest temperature was 41° at Cuba City, on 23rd.

WYOMING: Temperatures above normal except far western border. Southern half 3 to 7° above normal; northern half 6 to 12° above. No measurable precipitation.

Winter wheat mostly good condition. Some light wind damage in southeastern areas. Livestock good condition; feeding widespread. Mild temperatures reducing stress. Hay supplies adequate most areas. Calving, lambing to begin soon.

Heating Degree Days (Base 65° F.)

December 1982

ALA. Birmingham . . .	441	MAINE, Caribou . . .	1325	OKLA. Okla. City . . .	671
Mobile . . .	296	Portland . . .	1015	Tulsa . . .	635
Montgomery . . .	301	MD. Baltimore . . .	707	OREG. Astoria . . .	659
ALASKA, Anchorage . . .	1342	MASS. Boston . . .	783	Burns . . .	1303
Barrow . . .	2307	NICH. Alpena . . .	1034	Medford . . .	803
Fairbanks . . .	1948	Des Moines . . .	852	Pendleton . . .	901
Juneau . . .	1336	Flint . . .	851	Portland . . .	715
Nome . . .	1583	Grand Rapids . . .	884	Salem . . .	732
ARIZ. Flagstaff . . .	1136	Houghton Lake . . .	1040	PA. Allentown . . .	815
Phoenix . . .	331	Lansing . . .	930	Erie . . .	762
Tucson . . .	486	Marquette . . .	1289	Harrisburg . . .	726
Vimslow . . .	895	S. Ste. Marie . . .	1256	Philadelphia . . .	730
Yuma . . .	278	MINN. Duluth . . .	1398	Pittsburgh . . .	770
ARK. Fort Smith . . .	625	Internatl Falls . . .	1500	Scranton . . .	870
Little Rock . . .	567	Winnepolis . . .	1212	R. I. Providence . . .	810
CALIF. Bakersfield . . .	569	Rochester . . .	1197	S. C. Charleston . . .	276
Bureka . . .	468	St. Cloud . . .	1333	Columbia . . .	440
Fresno . . .	602	MISS. Jackson . . .	421	Greenville . . .	515
Los Angeles . . .	261	Meridian . . .	318	S. DAK. Aberdeen . . .	1232
Red Bluff . . .	541	MO. Columbia . . .	783	Ruron . . .	1193
San Diego . . .	228	St. Louis . . .	721	Rapid City . . .	1119
San Francisco . . .	491	Springfield . . .	704	Sioux Falls . . .	1249
COLO. Denver . . .	1050	MONT. Billings . . .	1118	TEX. Chattanooga . . .	528
Grand Junction . . .	983	Glasgow . . .	1417	Knoxville . . .	577
Pueblo . . .	1010	Great Falls . . .	1181	Memphis . . .	500
CONN. Bridgeport . . .	809	Havre . . .	1266	Nashville . . .	537
Hartford . . .	894	Helen . . .	1306	TEX. Abilene . . .	589
FLA. Apalachicola . . .	194	Kalispell . . .	M	Amarillo . . .	888
Fort Myers . . .	54	Miles City . . .	1304	Austin . . .	408
Jacksonville . . .	218	MISSOULA . . .	1120	Beaumont . . .	266
Key West . . .	10	NEBR. Grand Island . . .	1081	Brownsville . . .	144
Miami . . .	22	Norfolk . . .	1332	Corpus Christi . . .	245
Orlando . . .	94	North Platte . . .	1138	Del Rio . . .	409
Tallahassee . . .	208	Omaha . . .	1091	El Paso . . .	668
Tampa . . .	95	Valentine . . .	1183	Fort Worth . . .	492
GA. Atlanta . . .	466	NEV. Elko . . .	1231	Galveston . . .	201
Augusta . . .	383	Las Vegas . . .	631	Houston . . .	328
Macon . . .	310	Reno . . .	1006	Lubbock . . .	821
Savannah . . .	273	Winnemucca . . .	1055	Midland . . .	661
IDAHO, Boise . . .	1031	N. H. Concord . . .	1007	San Angelo . . .	586
Lewiston . . .	928	N. V. Atlantic City . . .	739	San Antonio . . .	404
Pocatello . . .	1227	Trenton . . .	941	Victoria . . .	270
ILL. Cairo . . .	591	N. MEX. Albuquerque . . .	841	Waco . . .	452
Chicago . . .	891	Roswell . . .	-	Whita Falls . . .	611
Moine . . .	916	N. Y. Albany . . .	971	UTAH, Blanding . . .	-
Peoria . . .	849	Binghamton . . .	944	Salt Lake City . . .	1080
Rockford . . .	984	Greenboro . . .	529	VT. Burlington . . .	1021
Springfield . . .	806	Hatteras B. . .	341	VA. Lynchburg . . .	637
IND. Evansville . . .	618	Raleigh . . .	542	Horfolk . . .	498
Fort Wayne . . .	795	Wilington . . .	386	Richmond . . .	585
Indianapolis . . .	764	N. DAK. Bismarck . . .	1321	Roanoke . . .	695
South Bend . . .	798	Fargo . . .	1359	WASH. Colville . . .	-
IOWA, Burlington . . .	-	Williston . . .	1516	Omak . . .	786
Des Moines . . .	1026	OHIO, Akron-Canton . . .	770	Quilleyute . . .	786
Dubuque . . .	1062	Cincinnati . . .	682	Seattle-Tacoma . . .	745
Sioux City . . .	1197	Cleveland . . .	760	Spokane . . .	1163
KANS. Concordia . . .	1022	Columbus . . .	759	Walla Walla . . .	852
Dodge City . . .	907	Dayton . . .	782	Yakima . . .	1111
Goodland . . .	1022	Los Angeles . . .	286	W. VA. Beckley . . .	737
Topoka . . .	896	New Orleans . . .	234	Charleston . . .	626
Wichita . . .	889	Shreveport . . .	457	Burlington . . .	611
KY. Lexington . . .	646			Parkersburg . . .	-
Louisville . . .	625			WIS. Green Bay . . .	1140
LA. Baton Rouge . . .	297			Madison . . .	1117
Lake Charles . . .	286			Milwaukee . . .	983
New Orleans . . .	234			WYO. Casper . . .	1287
Shreveport . . .	457			Cheyenne . . .	1131
				Lander . . .	1440
				Sheridan . . .	1304

The Weekly Weather and Crop Bulletin (ISSN 0043-1974) is published weekly and jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the Weekly Weather Chronicle. It is issued under general authority of the Act of January 12, 1895 (44- USC 213), 53d Congress, 3d Session. NOAA is responsible for managing, printing, and distributing the Bulletin. The contents may be reprinted freely, with proper credit.

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