

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

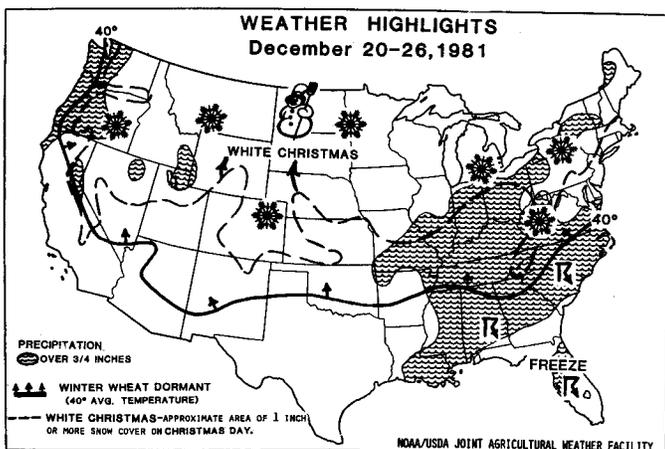
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Dec. 29, 1981

National Weather Summary

December 20-26, 1981



TUESDAY... A mixture of rain, freezing rain, and snow fell from the lower Great Lakes to the southern Appalachians and the mid-Atlantic States. Snow fell through the Northeast, the central Plains and Rockies, and the extreme northern Plains. Showers and thundershowers covered the South from the central Mississippi Valley to Alabama and Louisiana. The very cold weather in the South and East was moderating as southerly winds brought warmer air northward.

WEDNESDAY... A cold front moved in a line along the Appalachians to southern Louisiana and into the Gulf. Snow continued through the northern and eastern Great Lakes region, but warm air preceded the front and rain fell from the front to the east coast. Snow cover melted away in the East precluding a white Christmas in many eastern areas. A little snow fell through the northern Mississippi Valley and northern Plains, and light rain fell in the Pacific Northwest.

HIGHLIGHTS: Frigid temperatures over the East early in the week brought a hard freeze to much of Florida and freezing temperatures as far south as the northern Everglades. Moderate showers and a few thundershowers helped replenish short water storage from southern Louisiana through South Carolina and in central Florida. Snowpack accumulated throughout the Appalachians, the northern Rockies and Plateau, the Sierra Nevadas, and the Cascade mountains.

SUNDAY... Frigid arctic air continued to pour into the South and East. Early morning temperatures reached record lows in the Southeast. Atlanta and Augusta, Georgia, dropped to 10°; Birmingham, Alabama, reached 9°. Mobile, on the gulf coast, shivered in 18° weather. The cold air enveloped all of Florida, and freezing weather reached to the northern Everglades. Tender vegetables were badly damaged, but most of the citrus escaped serious injury. A warm front in the Gulf of Mexico and a cold front through the Plains caused rain through the lower Mississippi Valley and snow in the middle and northern Valley. The light snow extended through the Lake States. Showers fell over all of the west coast and through the central Plateau to the Rockies.

MONDAY... The very cold air persisted over the East, and freezing temperatures again reached deep into Florida, but it was not as cold in Florida as the day before. The warm front in the Gulf moved northward and spread rain, freezing rain, or snow from the Mississippi River eastward except for the extreme Southeast. Light snow covered the central Plains, Rockies, and Plateau while light rainshowers spread over the west coast. Warmer air began to flow northward through western Texas.

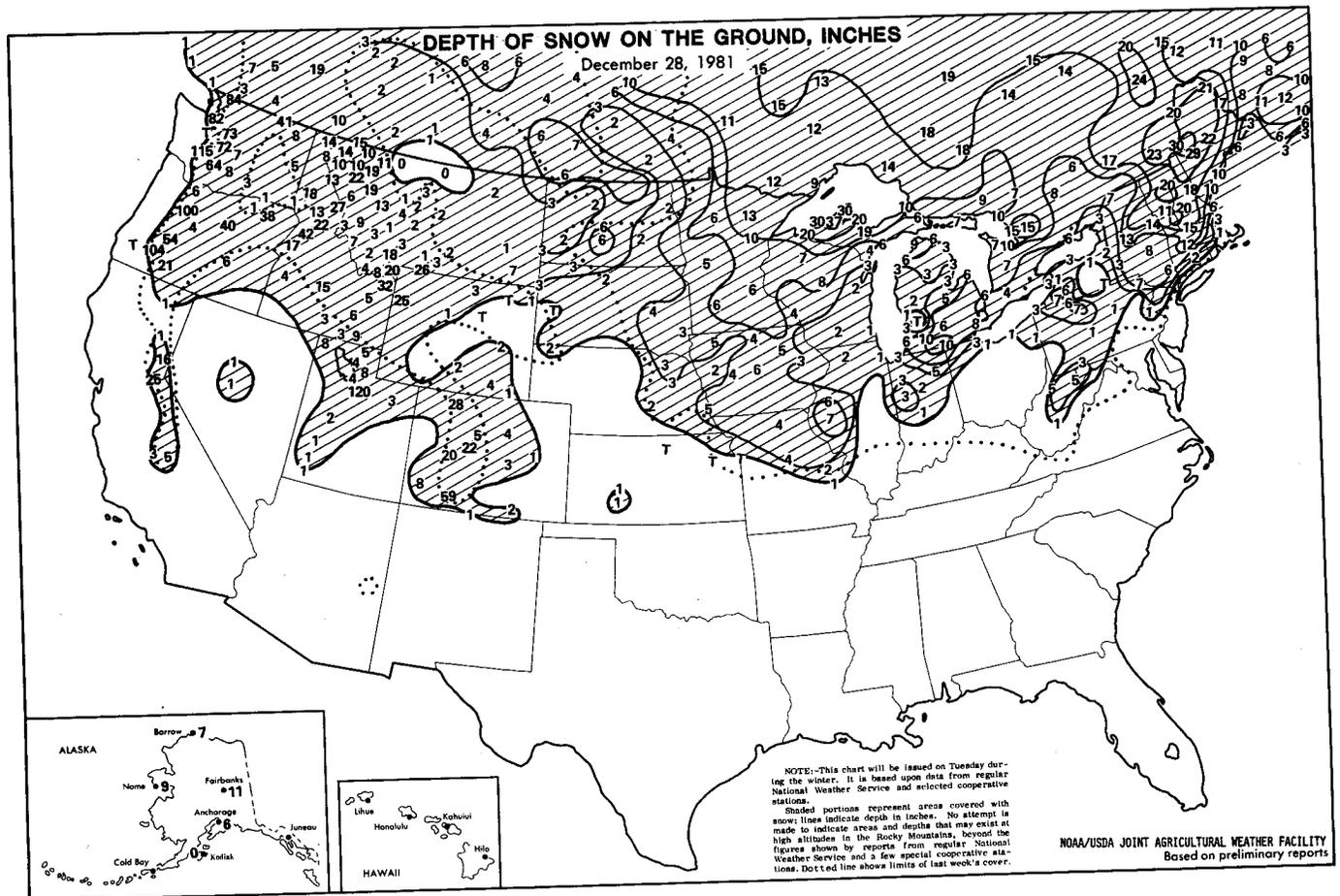
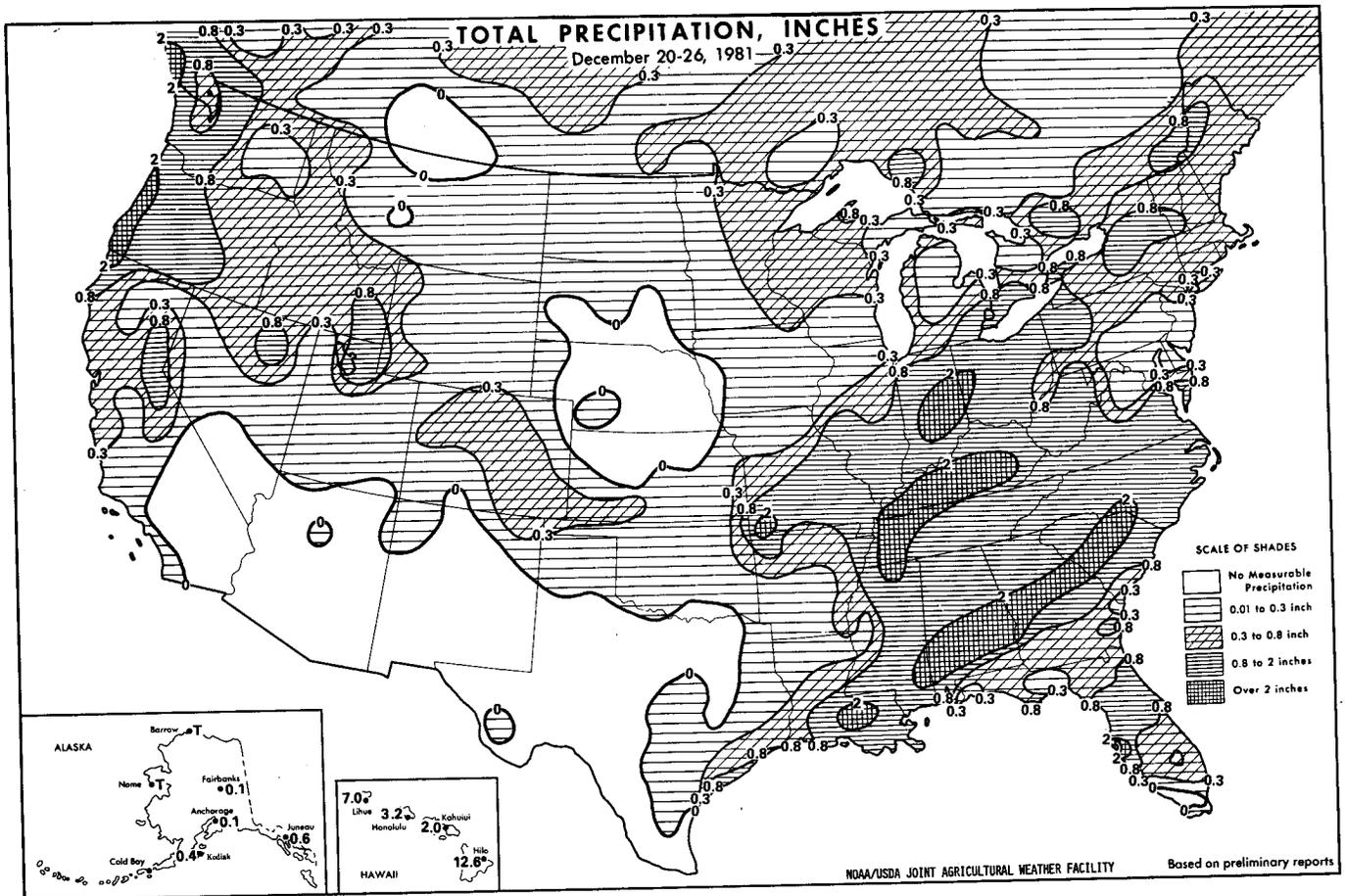
THURSDAY... Rainshowers were over the southeastern United States, and light rain with snow in the mountains fell over the Northwest. Some heavy showers fell from the western Carolinas to southern Louisiana. Temperatures were falling again over much of the East, and freezing weather reached from northern Texas through Tennessee to the southern Appalachians.

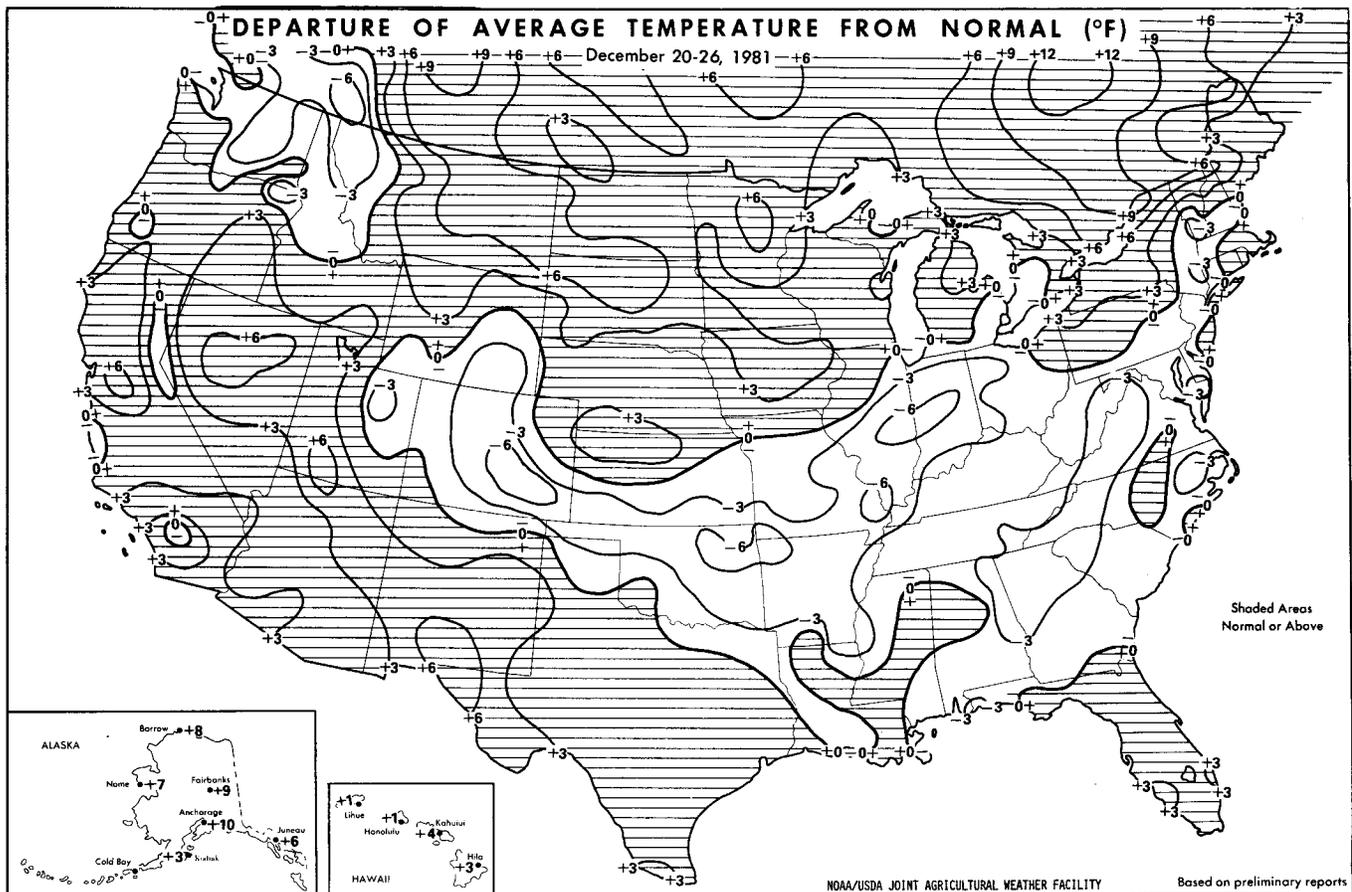
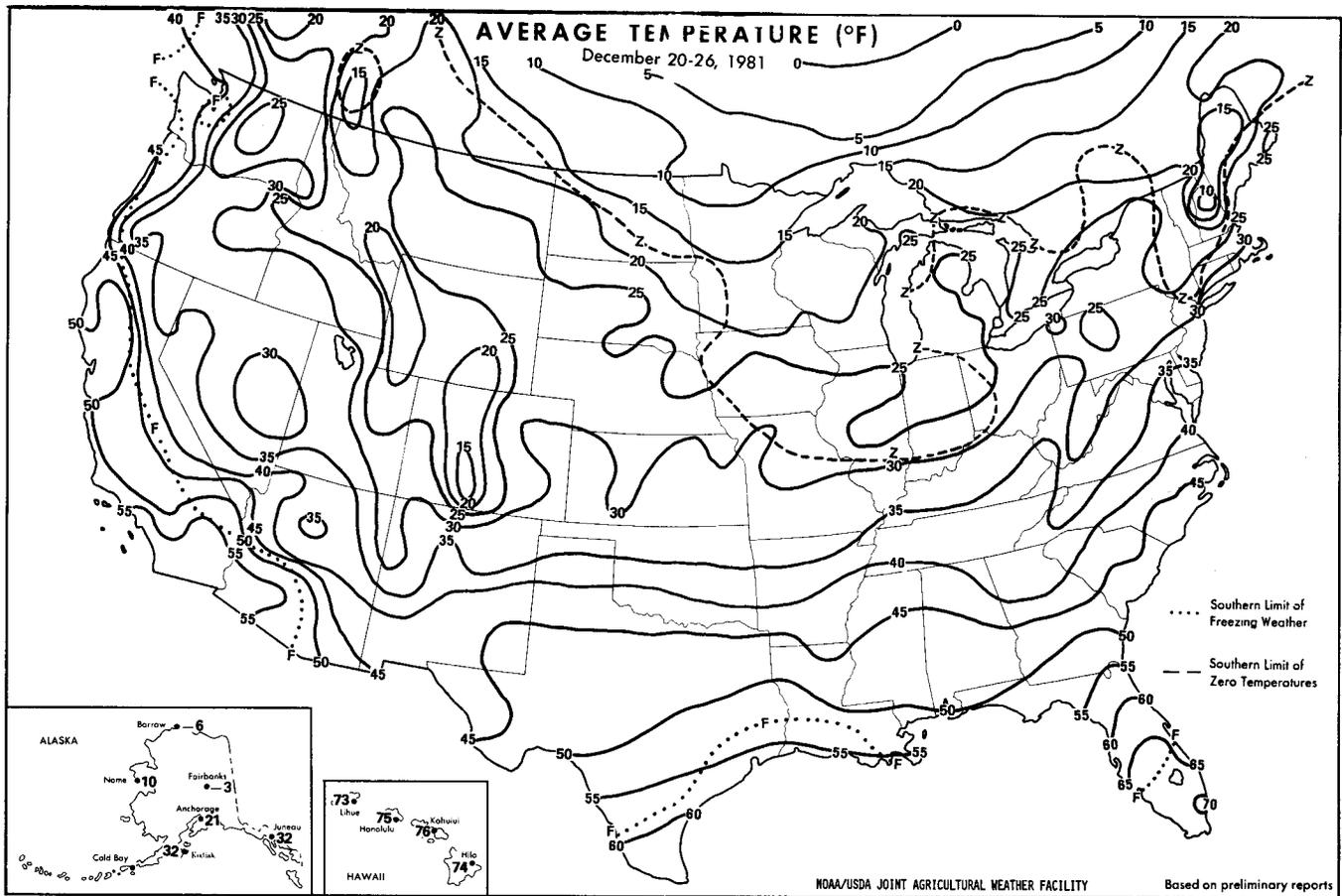
FRIDAY... Rain continued in the Southeast with the heaviest showers falling in South Carolina. Thundershowers were reported over northern Florida. Some wet snow fell over parts of Virginia, and covered the Mountain areas and southward through the Appalachians. Light snow fell from the Great Lakes through the Rockies and Plateau. Freezing temperatures moved into southern Texas but did not reach the coast.

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Weather Data for the Week Ending Dec. 26, 1981

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. 29	PCT. NORMAL SINCE Nov. 29	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
AL BIRMINGHAM	53	36	67	9	45	1	1.3	.1	.7	5.1	92	40.3	76	91	52	0	2	5	1
MOBILE	58	42	75	17	50	-2	1.2	.2	.9	4.0	133	54.5	82	83	57	0	1	4	1
AK MONTGOMERY	53	38	67	19	46	-2	2.7	1.6	2.1	5.4	120	45.1	92	95	65	0	2	5	1
ANCHORAGE	25	18	29	14	21	10	.1	.1	.1	.3	30	20.6	141	94	67	0	7	2	0
BARROW	-1	-11	12	-18	-6	8	T	0	T	.1	50	--	--	81	66	0	7	0	0
FAIRBANKS	4	-11	14	-26	-3	9	.1	0	.1	.5	100	10.2	95	75	55	0	7	4	0
JUNEAU	35	29	37	24	32	6	.6	.4	.2	2.7	63	52.9	98	87	71	0	5	6	0
KODIAK	37	27	41	16	32	3	.4	.7	.4	7.0	156	69.0	123	83	62	0	5	2	0
NOME	19	1	32	-13	10	7	T	.1	T	1.0	143	16.4	105	83	55	0	7	0	0
AZ FLAGSTAFF	44	19	56	7	31	2	T	.5	T	0	0	22.0	113	82	37	1	7	1	0
PHOENIX	65	42	75	34	54	2	0	.2	0	.5	63	6.9	103	58	18	0	0	0	0
TUCSON	64	35	74	27	50	-1	0	.2	0	.6	75	13.9	130	59	19	0	2	0	0
WINSLOW	52	21	69	7	37	4	T	.1	T	.7	175	9.6	119	--	--	0	7	0	0
YUMA	70	43	83	39	57	1	0	.1	0	.1	25	1.6	48	42	15	0	0	0	0
AR FORT SMITH	45	26	56	17	36	-4	.2	.4	.2	2.1	78	40.7	96	92	53	0	6	1	0
LITTLE ROCK	47	30	69	18	39	-3	.4	.5	.2	1.8	50	42.2	89	84	61	0	5	3	0
CA BAKERSFIELD	57	41	65	33	49	2	.1	.1	T	.1	17	5.7	102	83	50	0	0	2	0
EUREKA	55	45	58	37	50	2	1.0	.4	.5	8.7	147	41.8	107	95	75	0	0	7	0
FRESNO	52	41	62	31	46	2	.3	.2	.2	.4	25	9.6	92	97	70	0	1	2	0
LOS ANGELES	67	50	71	46	58	3	T	.4	T	0	0	9.6	83	71	32	0	0	1	0
RED BLUFF	59	42	64	37	50	5	.2	.7	.2	3.0	88	29.7	136	89	46	0	0	1	0
SAN DIEGO	67	50	68	45	59	3	T	.4	T	.7	44	10.4	111	79	36	0	0	1	0
SAN FRANCISCO	57	48	61	42	53	4	.4	.6	.3	1.8	50	21.7	113	87	65	0	0	3	0
STOCKTON	58	41	68	34	50	5	.1	.6	.1	.9	39	15.3	112	97	62	0	0	1	0
CO DENVER	40	17	65	6	29	-3	.5	.5	.3	.8	200	12.9	85	75	37	0	6	2	0
GRAND JUNCTION	34	20	48	12	27	-1	.3	.2	.3	.5	125	8.3	109	90	53	0	7	1	0
PUEBLO	40	13	74	-5	27	-5	.6	.6	.4	.6	150	7.7	63	86	51	0	5	2	0
CT BRIDGEPORT	40	22	57	10	31	-1	.2	.6	.1	3.5	113	32.1	84	86	46	0	6	2	0
HARTFORD	37	20	50	2	29	2	.3	.5	.3	3.4	89	34.6	81	81	46	0	7	2	0
DC WASHINGTON	45	29	66	16	37	1	.1	.6	.1	2.4	86	31.4	82	83	49	0	3	3	0
FL APALACHICOLA	63	49	72	27	56	2	.8	.1	.4	3.6	120	38.3	67	90	69	0	2	2	0
DAYTONA BEACH	73	49	84	29	61	2	.8	.3	.8	1.2	71	38.0	76	91	53	0	2	1	1
FORT MYERS	80	55	88	33	67	3	0	.3	0	.8	67	52.3	97	96	54	0	0	0	0
JACKSONVILLE	69	44	81	19	57	2	.4	.2	.2	1.5	71	34.1	63	95	57	0	2	2	0
KEY WEST	75	65	80	50	70	-1	T	.3	T	0	0	26.9	67	92	72	0	0	1	0
MIAMI	76	61	82	36	69	1	0	.4	0	.1	7	51.1	85	89	58	0	0	0	0
ORLANDO	76	50	83	31	63	2	.8	.4	.8	1.5	94	46.3	90	95	50	0	1	2	1
TALLAHASSEE	64	40	77	15	52	0	.1	.9	T	3.1	82	49.0	80	98	67	0	2	2	0
TAMPA	72	51	81	29	62	1	2.1	1.6	1.8	3.1	155	38.5	78	93	65	0	2	2	1
WEST PALM BEACH	79	59	86	36	69	3	.5	.1	.3	.7	33	48.3	79	89	55	0	0	3	0
GA ATLANTA	48	30	68	9	39	-4	2.0	1.0	1.0	4.7	124	39.6	83	96	65	0	3	6	2
AUGUSTA	53	33	74	5	43	-3	1.9	1.1	1.0	6.1	197	41.4	98	98	63	0	2	6	2
MACON	58	39	77	16	48	1	1.5	.5	1.0	4.5	118	44.5	100	91	59	0	2	3	1
SAVANNAH	59	40	75	18	49	-1	.2	.6	.1	1.8	62	38.7	77	89	64	0	2	3	0
HI HILO	80	67	84	63	74	3	12.6	9.2	6.4	21.0	143	--	--	94	70	0	0	6	3
HONOLULU	80	69	84	64	75	1	3.2	2.4	1.3	3.6	109	12.3	55	96	68	0	0	4	3
KAHULUI	84	68	87	64	76	4	2.0	1.3	1.8	2.7	104	--	--	87	61	0	0	3	1
LIHUE	79	67	82	64	73	1	7.0	5.5	2.2	8.6	148	--	--	98	76	0	0	6	4
ID BOISE	38	25	49	18	32	1	.8	.5	.3	2.1	150	14.5	121	87	58	0	5	5	0
LEWISTON	38	31	42	27	34	1	.3	0	.1	1.1	100	13.9	105	97	68	0	5	3	0
POCATELLO	33	22	46	12	28	3	1.0	.8	.4	1.4	156	13.7	130	90	67	0	6	5	0
IL CAIRO	44	29	52	14	36	-1	2.0	1.1	1.0	2.	78	40.7	87	--	--	0	4	3	2
CHICAGO	31	17	34	-1	24	-1	.2	.1	.2	1.2	71	38.9	122	85	61	0	7	3	0
MCLINE	34	19	38	0	26	2	.1	.2	.1	.9	53	36.3	102	82	60	0	7	2	0
PEORIA	34	18	39	-5	26	0	.4	.1	.2	1.3	76	39.0	112	92	65	0	7	3	0
ROCKFORD	31	16	34	-1	24	1	.1	.2	.1	.7	44	34.7	95	90	66	0	7	1	0
SPRINGFIELD	33	16	39	-9	25	-4	.9	.5	.8	2.0	118	47.5	136	93	67	0	7	2	1
IN EVANSVILLE	40	26	50	7	33	-1	1.7	1.0	.8	2.8	93	43.2	104	83	53	0	5	3	2
FORT WAYNE	29	16	34	-5	23	-4	1.7	1.2	1.1	2.1	105	36.7	104	93	72	0	7	4	2
INDIANAPOLIS	33	17	39	-11	25	-4	2.3	1.7	1.6	3.3	132	37.3	97	93	67	0	6	3	1
SOUTH BEND	31	16	36	-2	24	-3	.5	.1	.3	1.7	74	38.0	105	91	67	0	6	4	0
IA BURLINGTON	35	18	41	-2	27	1	T	.3	T	.8	57	--	--	92	67	0	7	1	0
DES MOINES	38	18	43	0	28	5	.1	.1	.1	1.3	144	31.2	100	83	52	0	7	1	0
DUBUQUE	31	16	33	3	24	3	--	--	--	--	--	--	--	96	72	0	7	--	--
SIOUX CITY	32	11	35	0	21	0	T	.1	T	1.5	250	20.5	80	99	75	0	7	0	0
KS CONCORDIA	39	22	43	16	31	2	T	.2	T	1.8	225	33.9	123	85	55	0	6	0	0
DODGE CITY	39	20	57	14	30	-2	.4	.2	.3	.6	150	24.9	120	86	56	0	7	2	0
GOODLAND	47	18	73	11	33	4	0	.1	0	.9	225	22.3	133	77	24	0	7	0	0
TOPEKA	38	20	44	7	29	-1	T	.3	T	1.0	71	40.3	117	95	61	0	6	1	0
WICHITA	35	19	37	12	27	-5	.2	0	.2	1.2	120	27.9	90	95	73	0	7	1	0
KY LEXINGTON	42	24	57	4	33	-1	1.7	.9	.8	2.9	91	35.7	82	94	60	0	6	3	2
LOUISVILLE	42	23	60	4	33	-2	1.2	.5	.6	3.0	97	33.6	79	90	55	0	6	2	

Weather Data for the Week Ending Dec. 26, 1981

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. 29	PCT. NORMAL SINCE NOV. 29	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
LAKE CHARLES	61	44	75	36	53	-1	.4	.9	.2	1.6	30	49.0	89	90	59	0	0	4	0
NEW ORLEANS	62	46	76	31	54	0	.9	.3	.8	3.7	77	52.9	94	95	67	0	1	3	1
SHREVEPORT	59	36	79	26	48	0	T	.9	T	1.6	42	41.2	93	85	45	0	2	1	0
ME CARIBOU	28	10	32	-4	19	5	.5	0	.3	3.4	142	46.4	127	83	67	0	7	4	0
PORTLAND	34	15	39	0	24	1	.7	.2	.6	4.1	108	46.2	113	87	55	0	7	2	1
MD BALTIMORE	42	23	65	10	33	-1	T	.7	T	2.8	90	30.8	77	81	48	0	5	1	0
MA BOSTON	37	26	46	14	31	1	.4	.5	.3	6.0	154	35.5	85	83	55	0	7	2	0
CHATHAM	39	27	47	16	33	-1	.4	.5	.2	7.8	--	45.8	--	85	62	0	5	3	0
MI ALPENA	32	17	37	6	25	3	1.1	.2	.1	.5	26	20.7	74	89	60	0	7	3	0
DETROIT	32	17	38	8	25	-2	1.2	.7	.6	1.7	85	32.9	104	92	64	0	7	3	0
FLINT	31	17	35	11	24	-1	.3	.1	.1	.9	53	34.0	114	91	67	0	7	3	1
GRAND RAPIDS	33	22	37	16	27	2	.1	.3	.1	.6	29	44.6	138	82	60	0	6	2	0
HOUGHTON LAKE	30	17	35	5	24	3	.1	.2	.1	.3	17	29.7	103	92	70	0	7	4	0
LANSING	32	19	38	13	25	-1	.2	.3	.2	.4	22	31.0	103	95	69	0	7	3	0
MARQUETTE	24	4	32	-9	14	-2	.3	.2	.2	3.7	176	33.9	94	97	55	0	7	3	0
MUSKEGON	34	24	36	13	29	2	.4	.1	.4	1.5	65	32.4	103	82	63	0	6	2	0
MN SAULT STE. MARIE	29	15	36	4	22	4	.2	.3	.1	1.5	65	27.7	86	84	58	0	7	3	0
DULUTH	22	7	34	0	15	3	.4	.2	.3	.5	41	27.7	92	87	62	0	7	3	0
INT'L FALLS	19	1	33	-16	10	4	.3	.1	.2	.7	70	22.1	85	95	67	0	7	3	0
MINNEAPOLIS	28	10	34	-3	19	3	.3	.1	.2	.8	100	27.2	105	91	60	0	7	3	0
ROCHESTER	28	9	31	-8	18	2	.4	.2	.2	.9	129	33.1	120	95	71	0	7	2	0
SAINT CLOUD	26	7	43	-3	16	3	.3	.1	.2	.7	88	25.0	93	88	68	0	7	4	0
MS JACKSON	58	38	74	15	48	0	.8	.4	.4	4.5	98	45.3	92	93	60	0	1	3	0
MERIDIAN	59	40	74	14	50	3	1.3	.1	.9	5.7	110	42.3	83	87	51	0	1	3	1
MO COLUMBIA	35	21	39	6	28	-3	.7	.3	.7	2.0	125	48.6	129	90	67	0	7	2	1
KANSAS CITY	37	21	40	7	29	-1	T	.3	T	1.8	120	42.2	114	83	55	0	6	1	0
SAINT LOUIS	37	22	45	2	30	-3	1.3	.9	1.3	2.8	147	45.4	128	94	63	0	7	2	1
MT SPRINGFIELD	40	24	44	16	32	-3	1.4	.8	1.3	3.1	135	43.8	110	86	56	0	7	2	1
BILLINGS	37	24	48	17	30	5	.1	.1	.1	.3	60	15.9	112	70	42	0	7	2	0
GLASGOW	28	13	39	7	21	6	T	0	T	.1	25	8.7	78	81	62	0	7	1	0
GREAT FALLS	34	17	45	10	26	1	T	.1	T	.3	50	14.3	97	77	39	0	7	1	0
HAVRE	33	12	42	-5	22	7	0	.1	0	0	0	9.5	82	90	53	0	7	0	0
HELENA	35	23	44	16	29	7	T	.1	T	.2	50	13.6	126	77	44	0	7	0	0
KALISPELL	27	7	40	-4	17	-5	.3	.1	.1	1.7	113	18.5	109	98	76	0	7	3	0
MILES CITY	35	21	44	16	28	8	.1	0	T	.2	50	10.7	78	92	51	0	7	2	0
MISSOULA	26	16	35	14	21	-2	.2	.1	.1	1.7	189	17.0	129	96	76	0	7	3	0
NE GRAND ISLAND	35	14	38	9	25	0	0	.1	0	2.5	500	23.6	101	90	62	0	7	0	0
LINCOLN	36	17	37	2	26	1	0	.1	0	2.1	300	24.2	92	85	64	0	7	0	0
NORFOLK	34	15	41	8	25	3	T	.1	T	1.9	380	21.4	90	89	60	0	7	0	0
NORTH PLATTE	39	15	46	7	27	2	-1	0	.1	1.5	375	23.8	120	94	50	0	7	2	0
OMAHA	34	18	37	7	26	2	0	.1	0	2.1	300	28.6	97	87	70	0	7	0	0
VALENTINE	34	14	45	11	24	1	T	.1	T	1.2	600	18.6	103	85	61	0	7	0	0
NV ELY	40	18	57	4	29	4	.1	.1	T	.2	29	10.3	134	81	43	0	6	3	0
LAS VEGAS	58	35	73	26	46	2	0	.1	0	0	0	3.1	72	48	21	0	3	0	0
RENO	44	28	54	22	36	4	.5	.2	.4	1.0	100	6.6	92	98	57	0	6	2	0
WINNEMUCCA	40	28	50	20	34	5	.4	.2	.4	.9	113	7.8	93	91	59	0	6	3	0
NH CONCORD	32	10	40	-6	21	-1	.6	0	.6	3.9	126	45.8	129	91	54	0	7	2	1
NJ ATLANTIC CITY	43	23	63	12	33	0	.2	.7	.1	3.9	105	--	--	98	60	0	6	3	0
TRENTON	39	28	60	16	33	-1	.1	.7	.1	3.8	131	39.7	99	85	47	0	5	1	0
NM ALBUQUERQUE	51	25	68	12	38	3	0	.1	0	.2	50	7.7	99	61	21	0	6	0	0
ROSWELL	61	26	81	18	44	5	0	.1	0	.1	25	24.6	224	65	23	0	5	0	0
NY ALBANY	32	12	43	-8	22	-2	.7	.1	.6	3.3	122	30.3	91	91	54	0	7	2	1
BINGHAMTON	32	21	44	7	27	3	.8	.2	.5	2.4	92	30.3	83	86	56	0	6	3	0
BUFFALO	34	23	40	7	29	3	.7	.1	.4	2.2	79	35.8	100	92	67	0	6	3	0
NEW YORK	40	30	57	21	35	2	T	.7	T	4.2	127	34.1	83	72	43	0	3	2	0
ROCHESTER	35	22	43	3	29	2	.7	.2	.5	2.4	109	35.0	113	90	67	0	6	2	0
SYRACUSE	36	22	47	10	29	3	.8	.1	.5	2.8	93	35.2	98	92	59	0	7	3	1
NC ASHEVILLE	43	27	60	7	35	-3	1.5	.6	.9	3.7	116	33.0	73	98	68	0	3	4	1
CHARLOTTE	47	33	65	15	40	-1	1.2	.4	.7	4.4	142	35.8	84	94	66	0	2	6	1
GREENSBORO	45	31	63	13	38	0	1.7	1.0	.9	4.4	152	40.0	98	84	58	0	2	5	1
HATTERAS	50	38	68	18	44	-2	1.2	.2	1.0	6.3	154	51.0	92	90	68	0	2	4	1
RALEIGH	49	32	71	12	41	1	1.2	.5	.8	3.8	136	35.3	84	91	60	0	2	5	1
WILMINGTON	54	38	75	15	46	0	1.4	.7	.7	4.6	144	43.1	81	91	61	0	2	5	2
ND BISMARCK	25	12	39	4	18	5	.2	.1	.1	.5	100	14.4	89	97	79	0	7	5	0
FARGO	19	4	32	-7	12	2	.2	.1	.2	.6	150	17.6	89	90	71	0	7	3	0
WILLISTON	29	11	45	-5	20	7	.2	0	.1	.3	75	11.2	79	88	67	0	7	4	0
OH AKRON-CANTON	38	22	51	8	30	3	1.3	.8	1.0	3.0	130	40.7	116	83	56	0	6	4	1
CINCINNATI	38	17	52	-9	27	-5	1.0	.4	.6	2.6	104	34.4	90	94	64	0	6	2	1
CLEVELAND	35	22	39	11	29	0	1.3	.8	.7	3.1	141	38.9	110	78	50	0	7	4	1
COLUMBUS	37	20	49	1	28	-1	1.4	.8	.9	2.4	114	37.4	102	94	60	0	6	2	1
DAYTON	36	19	50	-6	27	-2	1.9	1.4	1.3	3.0	143	43.1	126	95	74	0	6	3	2
TOLEDO	31	18	37	7	25	-2	1.3	.8	.8	2.2	105	37.8	119	93	67	0	7	3	1
YOUNGSTOWN	36	22	50	10	29	2	1.0	.4	.7	2.6	104	34.9	93	90	60	0	6	4	1
OK OKLAHOMA CITY	44	26	50	22	35	-3	.1	.2	.1	.7	58	38.8	122	94	50	0	6	1	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

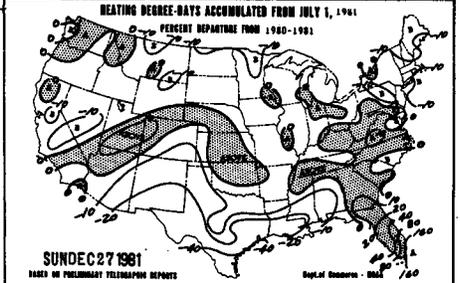
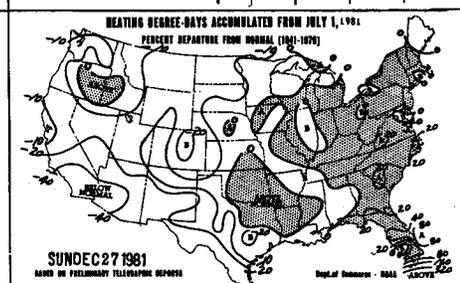
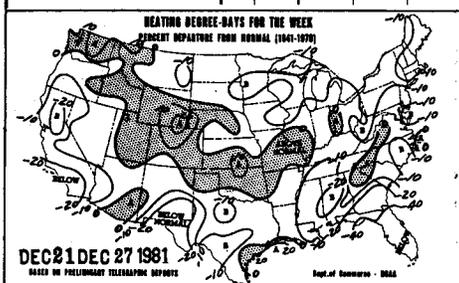
Weather Data for the Week Ending Dec. 26, 1981

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. 29	PCT. NORMAL SINCE Nov. 29	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
OR TULSA	42	27	46	21	34	-4	.1	-.3	.1	1.0	63	37.1	101	98	64	0	6	2	0
OR ASTORIA	47	37	52	31	42	0	1.3	-1.1	.6	12.7	131	67.3	105	92	74	0	1	5	1
OR BURNS	34	21	43	13	28	1	.7	-.3	.4	2.6	163	14.3	122	94	67	0	7	3	0
OR MEDFORD	44	36	50	28	40	3	1.0	-.1	.4	6.9	216	20.9	101	96	76	0	1	6	0
OR PENDLETON	39	31	44	26	35	1	.6	-.3	.3	2.2	147	15.2	120	91	74	0	6	4	0
OR PORTLAND	46	36	53	29	41	1	1.1	-.3	.4	8.5	157	34.1	92	100	83	0	1	6	0
OR SALEM	48	35	53	30	41	2	1.2	-.3	.7	8.7	145	40.0	100	96	76	0	3	5	1
PA ALLENTOWN	35	20	46	9	28	-1	.1	-.6	.1	2.8	82	34.4	82	83	56	0	7	3	0
PA ERIE	37	24	50	13	31	3	1.1	-.6	.6	2.5	93	41.8	111	74	51	0	6	4	1
PA HARRISBURG	37	23	49	7	30	-1	.1	-.6	T	1.9	66	34.4	95	83	53	0	5	3	0
PA PHILADELPHIA	40	25	61	14	33	-1	T	-.7	T	4.0	129	36.8	93	86	54	0	7	2	0
PA PITTSBURGH	37	22	53	6	30	1	.7	-.2	.6	2.8	117	36.8	103	84	52	0	6	4	1
PA SCRANTON	34	22	46	6	28	1	.3	-.3	.2	2.1	88	35.6	102	79	58	0	5	2	0
RI PROVIDENCE	37	22	52	10	30	0	.4	-.5	.3	5.9	155	36.1	86	78	50	0	7	2	0
SC CHARLESTON	57	37	75	14	47	-1	.6	-.2	.5	3.0	100	47.7	92	96	64	0	2	3	0
SC COLUMBIA	54	35	74	11	45	0	2.2	1.4	1.1	6.1	197	36.9	80	96	58	0	2	5	2
SC GREENVILLE	46	31	67	13	39	-4	1.1	-.2	.6	5.6	151	33.3	71	87	63	0	3	5	1
SD ABERDEEN	25	16	35	13	20	6	--	--	--	--	--	--	--	82	71	0	7	--	--
SD HURON	30	15	37	8	23	6	T	-.1	T	1.3	325	15.7	81	94	74	0	7	0	0
SD RAPID CITY	37	18	47	15	27	3	T	-.1	T	.3	75	14.4	81	85	45	0	7	0	0
SD SIOUX FALLS	31	12	39	4	21	4	.1	-.1	.1	.8	133	18.0	73	87	63	0	7	2	0
TN CHATTANOOGA	45	30	60	9	38	-2	1.6	-.4	.5	5.2	111	44.9	89	90	64	0	2	5	1
TN KNOXVILLE	47	31	64	10	39	-2	1.6	-.5	.5	3.9	95	43.1	94	88	64	0	2	5	1
TN MEMPHIS	50	30	68	11	40	-1	1.5	-.4	.9	3.0	73	39.5	81	89	50	0	5	4	1
TN NASHVILLE	47	29	63	4	38	-1	1.5	-.5	1.2	3.8	95	41.4	91	86	53	0	4	3	1
TX ABILENE	60	35	82	25	47	2	0	-.3	0	.7	70	27.7	117	77	33	0	3	0	0
TX AMARILLO	51	21	74	16	36	-1	T	-.2	T	.2	29	21.3	108	83	34	0	6	1	0
TX AUSTIN	64	40	79	28	52	1	.1	-.4	.1	.4	18	46.0	141	83	40	0	1	1	0
TX BEAUMONT	66	44	79	33	55	2	.5	-.6	.4	1.6	36	48.0	88	89	55	0	0	4	0
TX BROWNSVILLE	73	53	84	39	63	1	T	-.3	T	.7	58	30.2	119	90	50	0	0	0	0
TX CORPUS CHRISTI	71	49	85	34	60	2	0	-.4	0	.9	60	43.9	152	86	41	0	0	0	0
TX DEL RIO	67	39	78	27	53	2	0	-.1	0	.1	20	27.4	157	65	32	0	2	0	0
TX EL PASO	64	35	77	17	49	6	0	-.1	0	.2	50	12.7	161	56	19	0	3	0	0
TX FORT WORTH	57	34	82	22	45	-1	T	-.4	T	.7	41	44.9	139	86	37	0	4	0	0
TX GALVESTON	62	49	71	41	56	0	.9	-.1	.7	2.1	62	35.7	86	90	65	0	0	4	1
TX HOUSTON	65	42	81	33	53	0	.3	-.6	.3	5.1	138	55.4	115	92	53	0	0	2	0
TX LUBBOCK	56	27	78	19	42	2	0	-.1	0	.7	140	23.1	126	75	25	0	6	0	0
TX MIDLAND	62	28	81	20	45	0	0	-.1	0	.1	20	17.5	131	69	21	0	4	0	0
TX SAN ANGELO	63	32	83	21	48	1	0	-.2	0	0	0	30.0	174	82	26	0	3	0	0
TX SAN ANTONIO	66	39	84	27	53	0	T	-.3	T	.4	31	37.1	133	86	39	0	2	1	0
TX VICTORIA	68	44	83	28	56	1	T	-.4	T	1.0	56	44.7	132	86	41	0	1	1	0
TX WACO	61	35	77	20	48	-1	T	-.4	T	1.0	53	33.8	108	90	37	0	3	2	0
UT WICHITA FALLS	55	30	83	23	42	-1	T	-.3	T	1.0	83	31.5	114	91	36	0	5	0	0
UT BLANDING	38	18	50	8	28	0	T	-.3	T	.1	8	12.0	103	73	46	1	7	1	0
UT SALT LAKE CITY	39	22	61	7	31	2	1.2	-.9	.5	1.6	123	16.3	107	88	53	0	5	7	1
VT BURLINGTON	30	16	38	-7	23	3	.4	-.1	.3	1.7	77	41.5	131	82	55	0	7	2	0
VA LYNCHBURG	41	26	58	8	33	-3	.9	-.2	.5	3.1	111	35.1	93	92	62	0	6	4	0
VA NORFOLK	47	33	73	16	40	-1	1.5	-.8	1.0	4.6	164	40.0	90	89	56	0	2	5	1
VA RICHMOND	45	29	66	11	37	0	1.2	-.5	.7	4.1	137	35.3	83	95	61	0	4	5	1
VA ROANOKE	39	25	57	7	32	-4	.9	-.2	.3	2.9	97	30.5	79	93	60	0	5	4	0
WA COLVILLE	25	23	35	16	24	-2	.5	0	.3	2.4	126	24.8	150	95	88	0	7	3	0
WA OMAK	43	35	47	32	39	--	.6	--	.2	2.5	--	14.2	--	--	0	1	5	0	0
WA QUILLAYUTE	45	35	48	30	40	0	1.6	-1.9	.6	15.3	109	103.2	100	100	80	0	3	5	1
WA SEATTLE-TACOMA	43	35	47	32	39	-1	.6	-.8	.2	5.1	96	35.1	92	90	73	0	1	5	0
WA SPOKANE	30	21	33	16	26	-2	.2	-.3	.1	2.3	105	14.8	84	98	82	0	7	2	0
WA WALLA-WALLA	40	32	45	23	36	1	.6	-.1	.2	3.3	174	22.9	138	95	77	0	3	4	0
WA YAKIMA	32	17	37	9	25	-5	.3	0	.2	2.4	218	8.9	116	84	67	0	7	2	0
WV BECKLEY	38	23	55	7	30	-1	1.8	1.0	1.4	3.0	103	37.0	87	93	62	0	7	5	1
WV CHARLESTON	46	24	65	5	35	0	1.0	-.3	.6	2.4	86	35.8	88	91	51	0	5	3	1
WV HUNTINGTON	44	25	64	7	35	0	1.1	-.4	.7	2.3	79	37.5	97	82	51	0	5	3	1
WV PARKERSBURG	40	23	56	7	32	-1	.6	0	.4	1.5	63	31.1	82	73	45	0	5	4	0
WI GREEN BAY	30	14	36	-1	22	3	.3	0	.2	.7	54	23.2	85	93	69	0	7	3	0
WI LA CROSSE	30	12	35	-3	21	2	.3	-.1	.2	1.0	100	34.5	119	99	71	0	7	2	0
WI MADISON	31	13	37	-1	22	3	.2	-.2	.1	.7	58	31.9	105	96	67	0	7	3	0
WI MILWAUKEE	31	16	39	0	24	2	.2	-.2	.1	.8	50	33.1	115	88	55	0	7	3	0
WI CASPER	33	14	54	-1	23	-1	.1	0	.1	.3	75	11.0	102	86	48	0	7	2	0
WI CHEYENNE	33	17	54	1	25	-3	.2	-.1	.1	.5	100	16.6	112	82	45	0	6	2	0
WI LANDER	35	14	53	3	25	3	T	-.1	T	0	0	10.1	74	76	37	0	6	1	0
WI SHERIDAN	35	17	44	11	26	2	.1	-.1	T	.5	83	13.9	87	79	45	0	7	3	0
PR SAN JUAN	84	74	85	71	79	3	1.4	.4	.7	11.4	265	68.1	116	90	68	0	0	5	1

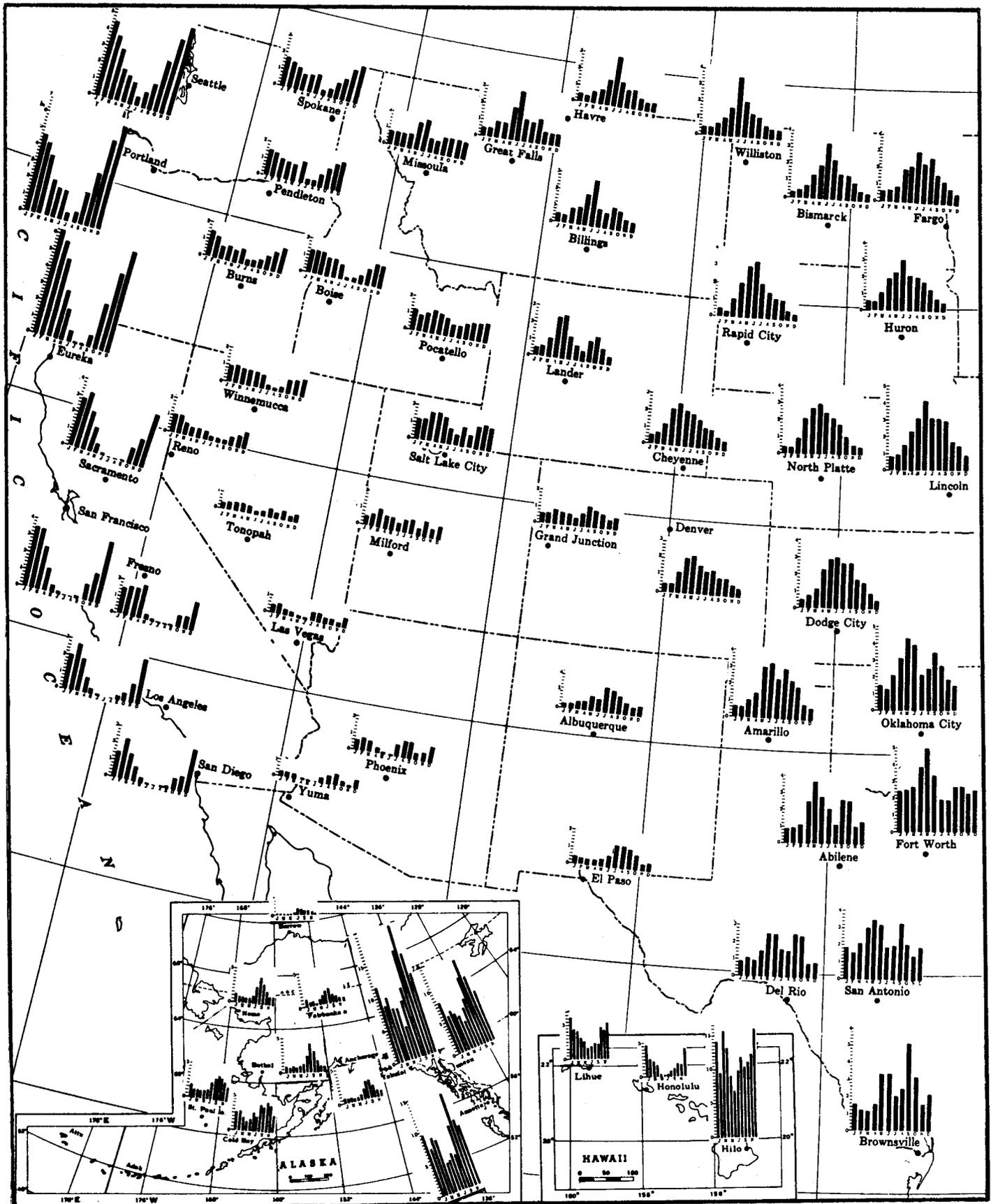
BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING DEC. 27, 1981.
BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1981.

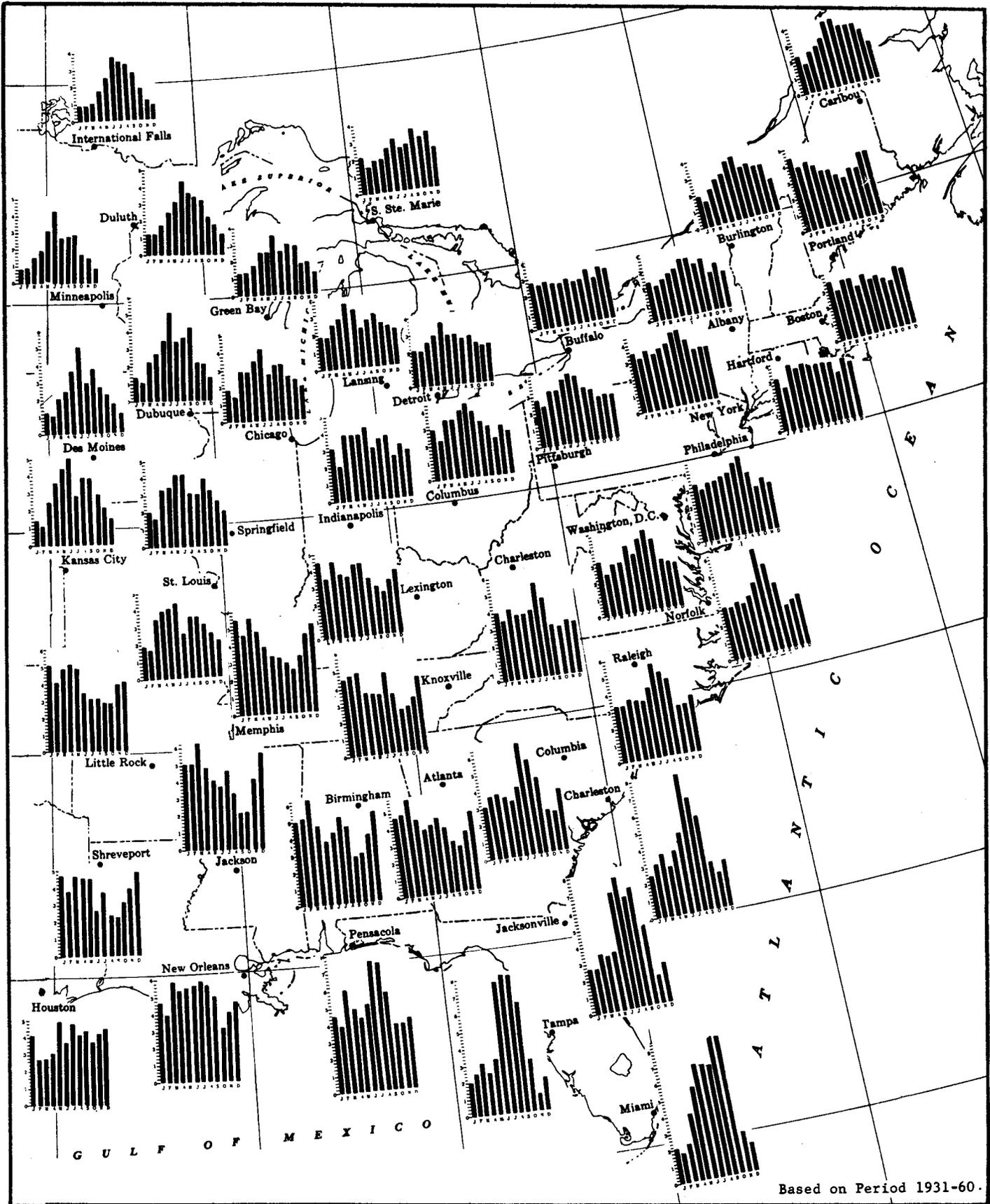
Table with columns for STATES AND STATIONS, WEEKLY ACCUMULATION, and SEASONAL ACCUMULATION. Rows list various states and cities with their corresponding heating degree days.



NORMAL MONTHLY PRECIPITATION (IN.) - WESTERN U.S.



NORMAL MONTHLY PRECIPITATION (IN.) - EASTERN U.S.



National Agricultural Summary

DECEMBER 21-27, 1981

HIGHLIGHTS: Increased precipitation over much of the Southeast helped lessen persistent dry conditions and provided the moisture needed for germination of small grains. Dry conditions in the Southwest slowed the growth of small grains and pastures and resulted in range fires in New Mexico. Winter wheat was in good to excellent condition in Kansas and good elsewhere. Snow fell over most of the North, providing cover for fall planted grains. The cotton harvest neared completion in the southern Plains and Southwest, while producers conducted clean-up operations in other areas. Cold temperatures over most of Florida's vegetable growing areas damaged tender crops, but citrus groves were mostly unaffected. Pastures were fair to good across the South. Livestock remained in good condition, although cold weather stressed herds.

SMALL GRAINS: Seeding of small grains was nearly finished in the Southeast. Snows fell over most northern winter wheat producing areas providing cover for new seedings. Winter wheat rated generally good except in Kansas where the crop was reported in good to excellent condition. Additional moisture would be beneficial to wheat in the central and southern Plains.

In the Pacific Northwest, fall seeded grains were in good condition. Some insect and weed problems were being experienced in Oregon. Montana and North Dakota received good snow cover which reduced chances of wind damage to new wheat seedings. The condition of Kansas wheat is mostly good to excellent, but stress from dryness is appearing in the southwestern part of the State. Oklahoma and Texas wheat fields were in good condition, but more moisture would be beneficial. Leaf rust is a problem across Texas.

COTTON: Cotton picking reached 93% completion in Texas. Blowing sand interrupted operations across the Panhandle, while heavy early morning dew and frost slowed the harvest in other areas. Despite harvest delays, modules of cotton were backing up at the gins. Virtually all of Arizona's cotton had been picked once and the harvest was winding down. New Mexico had harvested 98% of its' cotton and was continuing clean-up operations. In California, favorable weather permitted farmers to harvest 99% of the crop. The South Carolina harvest was completed, except for final scrapping which was delayed by wet conditions.

OTHER CROPS: Combining of late soybeans was completed in most of the Southeast. The Kansas harvest reached 99% completion for both soybeans and sorghum. The sugarcane harvest was active in the lower Rio Grande Valley of Texas, but slowed in Florida due to the holidays. Cold weather caused minor damage to Florida's young cane. Sugarbeet development was ahead of normal in Arizona. Growers stripped tobacco and prepared plant beds, while the auctions were closed for the holidays. Peanut growers in Texas finished the harvest on schedule. Marketing of potatoes was slow but was expected to increase after the holidays. Growers continued grading and packing the crop.

FRUITS AND NUTS: Pruning and spraying of deciduous fruit trees continued. Growers in Washington pruned and tyed blueberries and caneberries as the weather permitted. Nearly all States were completing their pecan harvest. The Texas pecan harvest reached 82% completion.

Harvest was virtually completed in many areas of the State.

Florida's citrus trees were recovering from the effects of the freezing temperatures on the 20th. Irrigation was very active until showers fell over much of the citrus area late in the week. The harvest for processing was active prior to the holiday. Picking of lemons, navels and miscellaneous oranges, and early tangerines continued rapidly in Arizona. The grapefruit harvest was seasonally slow. The new crop of later bearing tangerines, grapefruit, and Valencia oranges are sizing well. California growers were harvesting grapefruit and navel oranges. The lemon and tangerine harvest was becoming more active. Avocados were moving at a record level, and growers watched for frosts. The harvest of grapefruit and oranges slowed, and shipments decreased in the Rio Grande Valley of Texas.

VEGETABLES: Cold and windy weather over most of Florida's vegetable growing areas damaged tender crops at the beginning of the week. The damage was heaviest in the Immokalee-Everglades areas, while other areas reported light to severe damage. Total vegetable shipments decreased 37% from the previous week. The large reduction was caused by previous freeze damage and the holiday lull. Carrot and Strawberry movements were nearly steady, but other vegetable shipments declined. Strawberry growth made good progress. The volume remained very low, but the harvest was picking up.

California's vegetable harvest was seasonally light. Cutting of asparagus fern progressed rapidly. The broccoli and cauliflower harvest was slow and supplies were light. The carrot harvest made moderate progress near Kern but was light in the Desert. The lettuce supplies were light from the Imperial Valley and very light from the Palo Verde Valley. A wide range of quality and sizes were being harvested. The celery harvest was light along the south coast and very light around Santa Maria. Strawberries were blooming in the south coast area, and tomatoes were beginning to be picked.

The Arizona lettuce harvest was in full swing in the Yuma area, while the central areas finished up. The harvest of mixed vegetables made very good progress. Planting of dry onions slowed but is expected to continue on a limited basis into next month. The picking of chile peppers in New Mexico was virtually completed. The harvest of broccoli, cabbage, bell peppers and lettuce was active in the Rio Grande Valley of Texas. Good volumes of cabbage, carrots, lettuce, and cauliflower were moving out of the San Antonio-Winter Garden area. The Spinach harvest got underway at Uvalde. The harvest of cabbage continued, while chile peppers finished up in the Trans-Pecos region. Forcing rhubarb crowns continued in Washington.

PASTURES AND LIVESTOCK: Pastures generally rated fair to good across the south. Range grasses made excellent progress in California, but some flooding was experienced in the north. Excessive moisture in the holding pens and fields caused ranchers to keep cattle on the ranges in Idaho. Range fires were reported in some areas of New Mexico. Cattle continued to move onto small grain fields in Texas, but moisture is needed to maintain growth. Livestock remained in good condition, although herds were stressed by cold weather. Lambing became more active.

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 above normal with most stations reporting at least 1.00 in. of rain. Heaviest in central part of State with Montgomery receiving almost 3.50 in.

Fieldwork less than 1 day. Soil moisture adequate. Activities: Fency repair, machinery maintenance, pecan harvest, soil testing, and lime spreading. Plowing ranged from over 50% in some northern counties to less than 5% in some southern counties. Condition: Wheat fair to good; livestock fair; pastures poor to fair.

ARIZONA: Clear to partly cloudy. Isolated light showers, snow flurries northern two-thirds of State beginning of week, extreme north during weekend. Average temperatures 5° below to 6° above normal.

Near perfect week for field activities. Cotton harvest made excellent progress, virtually all acreage picked at least once. Harvest rapidly winding down. Growers report generally good year for yields. Better than average. Alfalfa hay growth seasonally slow. New plantings reasonable growth. Sugar-beet progress very good. Top and tap root development ahead of normal. Wheat, barley planting made very good progress, earliest seedings showed very rapid growth. Later seedings ranged from emerging to good plant development. Lettuce harvest Yuma area in full volume as harvest central areas rapidly winding down. Mixed vegetable harvest, very good progress. Planting dry onions slowing, expected to continue limited basis into January. Picking lemon, navels and miscellaneous oranges, early variety tangerines continued full volume. Harvest grapefruit active, seasonally slow. New crop fruit, mostly later nearing tangerines, grapefruit, Valencia oranges sizing well. Groves mostly good condition. Ranges higher elevation fair to good, southwestern Deserts poor to fair. Soil moisture and stock water short to adequate. Livestock fair to good.

ARKANSAS: Another cool but rather dry week with spotty amounts of rainfall. Highest normal 46°, lowest 38°. Highest mean 48°, lowest 33°. Highest temperatures 75°, lowest 10°. All departures from normal ranged from +2 to -6°. Most rainfall 1.11 in., least 0.10 in.

Little rainfall during week. Winter wheat in good condition. Pastures short. Farm activities consist of livestock care and feeding, and maintaining farm equipment.

CALIFORNIA: Average temperatures well above normal. The warm air from semi-tropical latitudes brought quite large amounts of precipitation to the northern third of the State. North Coast Mountain areas received as much as 6.00 in. The Sierra Nevada from Lake Tahoe and north showed totals in the 5.00 to 10.00 in. range. Some precipitation south into the San Joaquin Valley but amounts there less than 0.50 in. and, light amounts of rain along the Central and South Coasts.

Cotton harvest 99% complete. Small grain planting delayed by wet conditions. Sacramento River flooded some orchards. Pruning, dormant spraying, fertilizing continues, weather permitting. Avocados moving at record level. Vintage zutano year. Fuertes starting late. No frost fears yet. All new hass crop now. Grapefruit, navel

oranges continue. Lemon volume increasing. Tangerines expected to hit full swing mid-January. Vegetable harvest seasonally light. Cutting asparagus fern well along. Broccoli harvest light Central Coast, very light Southern California. Carrot harvest moderate Kern, light Desert. Cauliflower supplies light. Celery harvest light South Coast, very light Santa Maria. Lettuce supplies light Imperial Valley, very light Palo Verde Valley, wide range quality, sizes. Potato digging light Riverside-Stockton. Movement storage potatoes fairly light Tulelake. Strawberries blooming South Coast. Light harvest tomatoes South Coast. Range grasses making excellent development. Some flooding pasture Northern California. Dairy feedlots muddy. Lambing continues active.

COLORADO: The week began with significant snowfall plus the coldest temperatures of the season over most of the State. The 21st and 22nd saw new snowfall of up to 8 in. in the mountains, 10 in. at lower elevations, and lesser amounts in the Western Valleys and Eastern Plains

A more severe storm moved across the State over the weekend dumping an additional two feet of new snow in some mountain areas and with lower elevations in both the west and east receiving generally 1 to 4 in. of new snow. Weekly temperatures were near or a little below normal over most of State.

FLORIDA: Cool beginning of period then warming over most of State by weekend. Stationary front over weekend brought 1.00 to 3.00 in. rains to Central Peninsula. Panhandle near normal temperatures but unseasonably mild most of week central, south.

Soil moisture generally short early week. Rainfall late week brought relief to many areas. Farm work limited. Sugarcane harvest slowed, back to normal after first of year. Minor damage to young cane from cold. Tobacco plant beds being prepared. Small grains benefited from recent rainfall. Following cold, drying weather, weekend rains, warming temperatures especially beneficial to winter pastures. Limited seeding for winter grazing continues, mostly where inadequate moisture delayed earlier seeding. Cattle condition continues to vary widely from poor to good. Citrus trees continue recovering from effects of weather conditions, the 20th, including freezing, near freezing, winds, dehydration of foliage. Irrigation very active, but mostly stopped late week as continuous light to heavy showers fell over much of citrus area. Harvest for processing active prior to christmas. Very cold, windy weather prevailed first of week in vegetable areas. Scattered frosts, temperatures to mid 20's damaged tender crops. Damage was light to severe. Damage was heaviest in the Immokalee-Everglades areas. A warming trend brought above normal temperatures by late week. Rainfall during most of week was light. A stationary front, late week, brought moderate to heavy rains to Central Peninsula. Total vegetable shipments decreased 37% from previous week. Large reduction was caused by combined freeze damage and holiday lull. Carrots and strawberries about steady but other vegetables lower. Strawberry growth continues good. Harvest gaining but volume remains very low.

GEORGIA: Bitter cold but dry early in week. Gradual warming, quite wet, beginning mid week. Average temperatures 3 to 7° below normal. Average rainfall near 1.50 in. north and central, about 0.25 in. south. Cloudy, damp 26th and 27th, temperatures near normal. Average rainfall near 0.25 in., mostly southeast half.

Soil moisture improved, now adequate north and central but still short some areas south. Farm activity light due to cold, rain, and holiday. Harvest of cotton and soybeans virtually complete. Pecan harvest nearing completion. Seeding of small grains about complete. Pastures poor to fair. Cattle and hogs fair to good. Tobacco bed preparation well underway.

HAWAII: Heavy rains drenched the Island chain. Farm activities slowed because of wet conditions. Harvesting at a slow rate. Few washouts and silting reported. Quality of some crops will drop. Vegetable supplies still adequate. Quality will be down for storm affected crops. Banana supplies steady. Papaya harvesting light. Spray continues to control diseases. Pineapple harvesting light. Sugar harvesting down. Pastures received beneficial rains. However, some pastures soggy from the heavy rains.

IDAHO: Temperatures ranged from 58° on the 19th to a cold 23° below zero in the central mountains on the 23rd. Snow depth by Christmas day ranged from about 1 in. in the Magic Valley to 3 feet in the central mountains.

The weather was warm and wet the first part of the week, but snow blanketed the entire State by the end of the week. No calving, but some lambing started. Cattle on ranges being kept there due to excessive moisture in holding pens or fields. Feed supplies appear to be adequate. Potato marketing came to a standstill for the holidays but is expected to pick up thereafter. The grain markets also at a standstill.

ILLINOIS: Temperatures averages 1 to 4° above normal northern half of State and 1 to 2° below normal southern half. Precipitation 0.02 to 0.27 in. north; 1.00-2.00 in. south. Up to 8 in. snow central area on 22nd and 1-3 in. snow northern and central on 27th.

Farm activities limited to livestock feeding and machinery repair.

INDIANA: Mild and wet. Temperatures averaged 1 to 3° above normal. Precipitation averaged 0.50 to 0.75 in. north, 1.00 to 1.50 in. central, and 1.00 to 2.50 in. in extreme south. Snow cover ranged from trace in south to 10 in. in far north early in period. Significant melt through week.

Nearly all fieldwork halted. Major activities: Snow removal, cutting wood, caring for livestock and usual chores. Overwintering crops and pastures generally under snow cover.

IOWA: Temperatures averaged about 3° above normal. Light snow fell the 25th north. Light to moderate snow fell over most of the State on the 27th, with 2 to 4 in. south and lesser amounts north.

KANSAS: Little precipitation northwest and north central, quite variable elsewhere with local moisture over 0.25 in. east and south. Pittsburg heaviest total of 0.56 in. Temperatures averaged 31 to 33°. Normal to 3° above normal east and north and 2° below normal southwest and south central.

Slight progress in harvest. Soybeans advanced 1 point to 99% harvested. Grain sorghum still at 99%, corn completed. Wheat condition

generally good to excellent, stress from dryness starting to show in southwest. Principal activities were tax and holiday preparation and caring for livestock. Days suitable fieldwork: 3.0.

KENTUCKY: Precipitation averaged mostly in 1.00 to 2.00 in. range. Heaviest amounts were in south central and southwest portions. Temperatures fluctuated but averaged a few degrees above normal.

High humidity several days favorable for tobacco stripping. Other farm work minimal, limited primarily to routine chores. Livestock fair to good, some stress from variable temperatures.

LOUISIANA: Rainfall generally widespread over the State with heaviest totals less than 2.00 in.

Main activities: Pecan harvest, feeding and caring for livestock, and routine chores.

MARYLAND AND DELAWARE: Temperatures averaged 3° below normal. High's averaged in the upper 30's to mid 40's. Lows averaged from mid to upper 20's. The greatest precipitation reported at Glen Dale was 1.75 in. Rainfalls averaged 0.17 in. for remaining stations. Weekend weather was cloudy both days. Highs were in the upper 30's to low 40's. Lows were the upper 20's to low 30's. Scattered rain showers 27th.

MICHIGAN: Temperatures averaged above normal. Temperatures ranged from 1° above normal in the southeast Lower Peninsula to 4° above normal in the central portion of the State. The Upper Peninsula averaged 7° above normal. The daily high temperatures for all reporting stations were near the mid 30's. Nighttime lows ranged from 2° below zero to 16° above zero. The Upper Peninsula had over 1.00 in. of precipitation. In the southeast portion of the Lower Peninsula better than 1.50 in. of moisture was left by a couple of winter storms that passed through during the week. Other portions of the State received slightly below normal weekly amounts of moisture. The month of December nears its end with precipitation amounts above normal in the western Upper Peninsula, near normal in the southeast Lower Peninsula, and below normal in all other portions of the State.

MINNESOTA: Temperatures averaged 2° above normal west and 4° above normal elsewhere. Extremes: 43° at St. Cloud and -16° at International Falls.

Precipitation averaged 0.10 in. above normal, except 0.70 in. above normal extreme northeast. Precipitation totals were 0.01 in. extreme southwest to 1.03 in. extreme northwest. Snowfall total 2 to 6 in. east and north, 1 in. or less west and southwest. Snow depth was 8 to 13 in. locally, greater north central and northeast, generally 2 to 6 in. elsewhere.

MISSISSIPPI: Wet and warm; wet and cool; wet and cold was the pattern of the past week. High pressure dominated part of the week then two cold fronts moved through the State. Extremes were the rule. Measurable rain fell Statewide on about 5 days, while at least some rain was recorded all 7 days. Over 1.50 in. of rain fell at Gulfport, Laurel and Forest with most locations near 0.75 in. Temperatures ranged from lows in the sub-teens north early in the week to upper 60's central and south late in the week. Strong winds throughout the week significantly increased evaporation.

Soil moisture adequate. Days suitable for fieldwork 1.0 days. Hay, roughage and feed grain supplies adequate. Wheat condition fair to good. Pasture condition fair to good and livestock condition fair.

MISSOURI: Temperatures averaged 2 to 4° below normal, except for normal in northwest areas. Precipitation, mostly snow, ranged upward steady from none in the northwest to 2.00 in. in the Boothill area. The extreme southwest also received 2.00 in.

MONTANA: Temperatures east of Divide quite mild and ranged 3 to 7° above normal. Cold temperatures noted west of Divide and averaged about 3° below normal. Highest 51° at Red Lodge, lowest 21° below zero at West Yellowstone. Precipitation confined mostly to west and southwest where moderate to heavy precipitation fell. Elsewhere precipitation light to none.

The weekend snow gave good cover to winter wheat. Condition of the crop fair to good. Runoff from snow helped to replenish stock water supplies. Livestock condition good to excellent.

NEBRASKA: Temperatures averaged normal for this time of the year. Light scattered snow fell during the week.

NEVADA: Heavy rain north beginning of week. Over 13.00 in. received in Sierra west of Reno. Runoff raised flow in Truckee and Carson rivers to highest level in nearly two years. Unsettled weather persisted in north balance of week. Generally light rain and snow. Southern half of State mild and dry. Temperatures averaged about 4° above normal.

Major activities: Caring of livestock, grading and marketing potatoes.

NEW ENGLAND: Mixed snow and rain south and 2.00 to 5.00 in. of snow north 22nd and 23rd. Two to 4.00 in. of snow interior sections 27th, mostly rain south coast. Temperatures averaged near normal. High 46° at Lebanon, NH and Hartford, CT 25th. Low minus 15° at Houlton, ME and Rutland, VT 21st.

NEW JERSEY: Temperatures were 2 to 4° below normal averaging 26° north, 33° south and 34° coastal. Extremes: 10° at Newton and 63° at Cape May Court House, Hammonton and Pomona. Precipitation was well below normal averaging 0.17 in. north, 0.13 in. south and 0.07 in. coastal. Heaviest 24 hour total reported was; 0.20 in. at Charlotteburg and Pomona.

Farmers caring for livestock and tending to other winter chores.

NEW MEXICO: Snow fell over some of the northern areas on 21st and 22nd. Temperatures averaged a few degrees below normal in the north and a few degrees above normal in the southern areas.

Soil moisture remained in short to adequate supply. Open weather continued in the southern areas with some snowfall in the northern areas. Farm activities included pecan harvest and clean-up of cotton harvest. Cotton harvest approximately 98% complete. Wheat and barley in mostly good condition with grazing active. Picking of red chile complete for all practical purposes. Harvest of pecans nearing completion. Ranges in fair to good condition. Range fires were reported in some areas. Cattle and sheep in good condition.

NEW YORK: Temperatures above normal in all areas. Greatest departures 2 to 3° warmer than normal. Warm temperatures reduced much of the

snow cover. Snowfall heaviest in Hudson Valley with over 12 in., while west only had 2 to 4 in.

NORTH CAROLINA: Fieldwork: 2.7 days suitable. Soil moisture: 2% very short, 24% short, 69% adequate, 5% surplus. Cotton and soybean harvest virtually complete. Small grain seeding completed. Major farm activities: Feeding and caring of livestock, cutting firewood, preparing tobacco plant beds, and repairing farm equipment.

NORTH DAKOTA: The week was seasonably mild with near normal precipitation. Temperatures averaged 3° above normal across the State. Averages ranged from 9° in the north central to 20° in the southwest. Precipitation averaged 0.03 in. above normal and ranged from 0.04 in. in the west central to 0.18 in. in the east central and southeast.

Additional snowfall increased the depth of snow cover which is generally adequate for fall seeded crops and alfalfa. Farm activities were minimal during Christmas holidays. In addition to daily chores, farmers moved hay to ranch headquarters and some movement of grain is taking place. Insect infestation is still a problem in some stored grain.

OHIO: Average temperatures ranged from near normal to as much as 5° above normal. Daily highs averaged mid-30's to around 40°. Lows averaged in 20's. Precipitation spread uniformly Statewide well above normal. Generally 2 to 4 in. new snow beginning of week thickened the white blanket but warmup melted most of snowcover by midweek and greatest share of precipitation was rain. Soil temperatures at the 4 in. depth remained mostly in the lower to mid 30's and soil freezing was confined to above that depth.

Soils wet from the accumulated moisture of snowmelt and precipitation. Winter wheat remained in good condition.

OKLAHOMA: Temperatures averaged below normal all divisions except southwest. Most divisions 2 to 3° below normal. Rainfall averaged mostly less than 0.25 in. and ranged from near 0.50 in. northeast to none in the southeast.

Wheat remains good condition. Snow cover in Panhandle. Wheat pasture good to excellent with cattle still being placed on pasture. Cotton harvest wind up stage. Cattle good condition.

OREGON: The week began with heavy precipitation and mild temperatures. Rainfall totals for the week ranged from 4.04 in. at North Bend to 2.79 in. at Eugene. Other Willamette Valley areas averaged about 1.50 in. Precipitation east of the Cascades ranged from 0.30 in. at Baker to 2.73 in. at Lakeview. Temperatures were near normal except generally 2 to 3° above normal over the extreme south.

Fall crops generally good. More than adequate moisture available. Some slug problems in wheat and other fall seeded crops in west. Eastern fall grains are good with more than normal weed growth. Some erosion reported. Potatoes storing well. Livestock condition good. Ranges and pastures fair to good. Feed supplies adequate to surplus.

PENNSYLVANIA: The mean temperature for the week was 32°. Temperatures ranged from 61° down to 3°. Precipitation averaged 0.60 in. falling mostly as snow early in the period. Water equivalent of the snow pack generally decreased during the period although the northeast picked up to 8 in. of snow.

PUERTO RICO: Island average rainfall 0.67 in. or 0.27 in. below normal. Highest weekly total 2.19

in. Highest 24-hour total 1.19 in. Temperatures averaged about 78° on coasts and 74 to 71° Interior Divisions. Mean station temperatures ranged from 79.2 to 68.0°. Extremes 91 and 45°.

SOUTH CAROLINA: Temperatures were well below normal the first part of the week to near normal by the week's end. Substantial rainfall occurred during the midweek throughout the State. The rainfall was welcome as 1.50 to 2.00 in. was common.

Soil moisture adequate. Cotton harvest complete, except for final scrapping delayed by unfavorable weather. Soybean harvesting complete. Pecan gathering winding down. Tobacco bed preparation continues. Other activities: Pruning fruit trees, caring for livestock, repair of machinery, liming soil and general farm chores.

SOUTH DAKOTA: Temperatures averaged just above normal. Temperatures ranged from 3° below to 4° above normal. Extremes: 51° and -15°. Precipitation light. Most received was 0.14 in. Total precipitation is above normal only in the central section.

TENNESSEE: A cold front crossed the State on 22nd preceded by rains. Another front on 26th and 27th brought lesser amounts of precipitation. Rainfall for the week totaled over 1.00 in. in all sections. Temperatures averaged 8° below normal.

Most tobacco markets closed for holidays. Farm activities: Feeding livestock and general farm chores.

TEXAS: Weather: Fair skies, warm temperatures prevailed 21st in advance of cold front. Front moved across State, triggered few snow showers, cooler temperatures. Showers developed East Texas. Another cold front 27th; strong winds across West Texas. Few snow showers developed again over Panhandle. Otherwise fair skies with mild days, cold nights. Rainfall 0.75 in. below normal East Texas; 0.50 in. below normal North Central; 0.25 in. below normal remainder. Temperatures near normal except North Central Texas, 4 to 5° above normal.

Crops: Cold temperatures Northern half slowed growth small grain fields. Fieldwork spring crop continued across State. Cotton harvest good progress; high winds, blowing sand interrupted operations across Panhandle early week. Heavy early morning dew, frost also slowed harvest some areas. Despite delays, harvest operations running ahead many gins; cotton stored in modules. Some marginal fields Northern High Plains being shredded. Cold temperatures, short moisture conditions slow growth small grain fields. Oat fields Low Plains boost recent showers; many stands providing good grazing. Wheat fields good condition; moisture would be welcomed. Many stands providing good grazing across Panhandle. Leaf rust problem across State. Reported wheat condition Statewide is 15% excellent; 60% good; 21% fair; and 4% poor. Sugarcane harvest active Lower Rio Grande Valley. Cotton harvest-ed 93% 1981, 87% 1980, 92% average. Wheat planting complete. Wheat emerged 98% 1981, 97% 1980. Peanuts harvested 100% 1981, 98% 1980, 100% average. Pecans harvested 82% 1981, 87% 1980, 92% average. Soybeans harvested 99% 1981, 98% 1980, 100% average. Oats planted 100% 1981, 99% 1980, 100% average.

Range and Livestock: Range and pasture condition remained good, moisture needed

to maintain growth. Despite drying conditions, winter pastures continue to provide limited grazing. Small grains providing good grazing, movement of livestock to small grain fields continued. Livestock condition good.

Commercial Vegetables: Rio Grande Valley, harvest of broccoli, cabbage, bell peppers, lettuce active. All vegetables developed well, conditions good. Harvest of grapefruit, oranges continued, volumes decreased from previous weeks. San Antonio-Winter Garden area, vegetable harvest active, cabbage, carrots, lettuce, cauliflower moving with good volume. Spinach harvest underway at Uvalde. Trans-Pecos region, harvest of cabbage continued, chili pepper harvest virtually complete. Some land preparation underway. Coastal Bend activities remained light, some land preparation underway. Pecan harvest continued, wrapping up in many areas. Yields good.

UTAH: Recurring periods of rain or snow most areas of State. Accumulated amounts of moisture extremely variable ranging from little or none to over 2.00 in. Average temperatures generally above normal. Averages for period ranged from 1° below normal to 10° above.

Apple, onion, and potato storage facilities remained open except for holiday. Sorting and marketing continued as needed. Routine chores and care of livestock only major activities.

VIRGINIA: A rather wet week again with above normal precipitation over all but the extreme north. Average temperatures were generally 2 to 6° below normal. The extremes ranged from a low of around 0 to a high in the mid 70's.

With the combination of a holiday and wet weather farm activity was minimal.

WASHINGTON: West: Precipitation was considerably below normal, though it did rain on several days. Rain was 2.00 in. below on the coast to 0.50 in. below in the interior. Average temperatures were at to slightly above the seasonal normals. Weekend temperatures were nearly 10° cooler. Digging of rhubarb crowns for forcing continued. Pruning and tying of blueberries and canberries was done as weather permitted. Farm machinery repair was another major activity.

East: The east slopes of the Cascades were near 4° cooler than normal, but the remainder of east was near or slightly above normal temperatures. Precipitation totals varied from near 0.50 in. above normal in the south central to near normal in the north-east. Weekend weather was much cooler in most areas. Farm activity remained very slow. Small grains in average condition. Feed supplies ranging from surplus to adequate depending on area. Soil moisture conditions good.

WEST VIRGINIA: Temperatures averaged slightly below normal. High 65°, low -14°. Precipitation average above normal except in the northeast.

Soil moisture adequate. Fieldwork: 3 days. Hay, grain and other feed supplies adequate.

WISCONSIN: The week began on a cloudy note with temperatures averaging near normal. Light snow flurries occurred in central and northern areas on 22nd and 24th but only insignificant amounts of snowfall were reported. A low pressure system moved across the State on 26th producing light snow. Snowfall accumulations of 2 to 4 in. were reported in central and north with 1 in. or less reported across south. The weekly high temperature was 44° which

was reported in Port Edwards on 22nd while the weekly low of minus 5° was reported in Wausau on 24th.

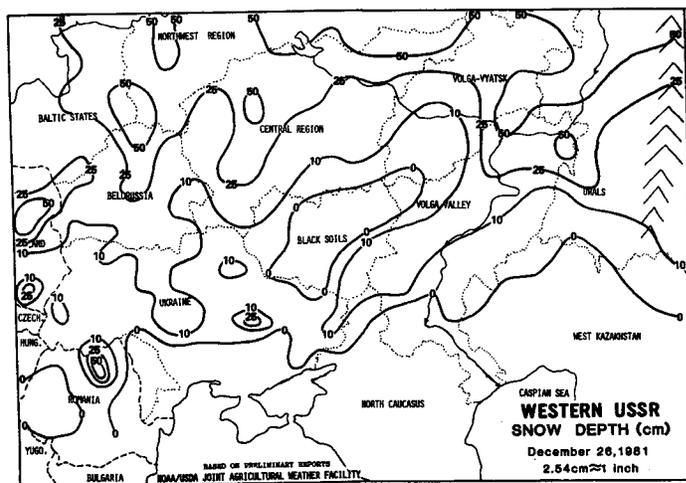
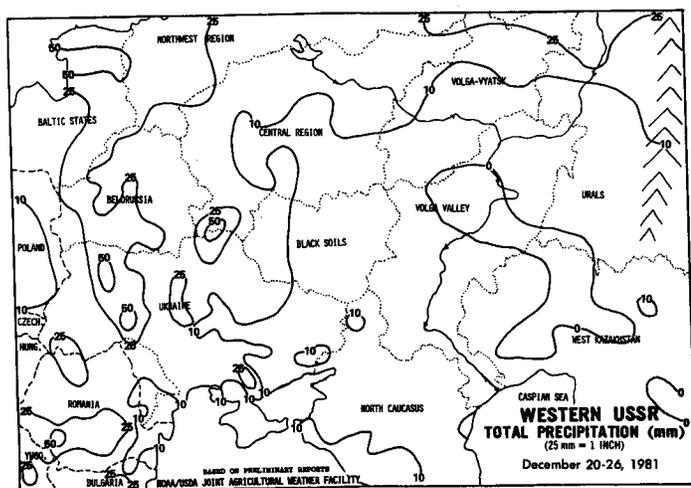
WYOMING: Green and Pear Drainage had greatest temperature departure nearly 5° above normal. Highest temperatures in Lower Platte Drainage,

61°. Wind River Drainage had coldest temperature 12° below zero. No major storms and precipitation light with most stations reporting below normal values, 1.89 in. of moisture greatest amount. Winter wheat mostly good, additional moisture would be beneficial. Livestock mostly good, cold weather, snow cover increased supplemental feeding.

International Weather and Crop Summary

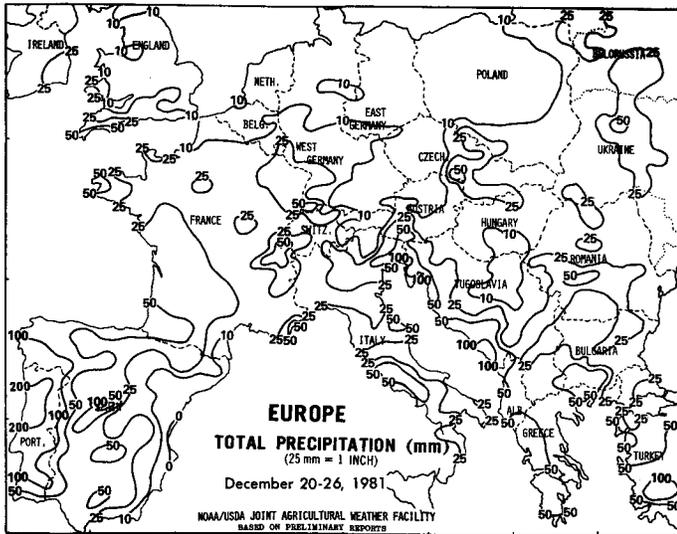
December 20-26, 1981

- WESTERN USSR: Abundant precipitation in the west; some snowmelt in the south.
- EUROPE: Additional beneficial rains in the Iberian Peninsula.
- MEXICO: Seasonable weather.
- NORTHWESTERN AFRICA: Additional beneficial rainfall in northern Morocco; still too dry in southern Morocco and western Algeria.
- SOUTH AFRICA: Favorable growing conditions for corn.
- SOUTH AMERICA: Some heavy rains on Brazilian soybeans; wet weather for Argentine wheat harvesting.
- AUSTRALIA: Favorable grain harvest weather.
- EASTERN ASIA: Virtually no rainfall in major agricultural areas.
- SOUTH ASIA: Some additional rain in southern winter grain areas of India.

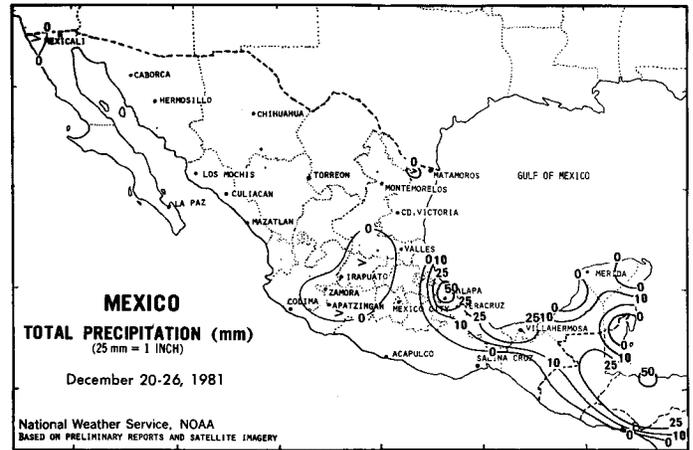


WESTERN USSR: Above-normal precipitation occurred over much of western European USSR. Below-normal amounts fell in eastern parts of the Ukraine, the Black Soils Region, and the Central Region, and other areas to the east. Temperatures ranging above normal in southern and eastern portions of the winter grain belt caused some snowmelt, but

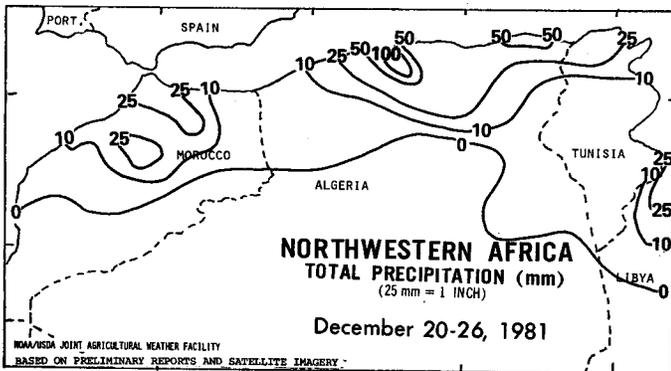
some additional accumulation occurred in the northern part of the North Caucasus. Conditions have not been cold enough this season to cause winterkill. However, the situation is similar to last year's, with abundant moisture in winter grain areas raising the possibility of damage due to frost heaving or formation of ice layers.



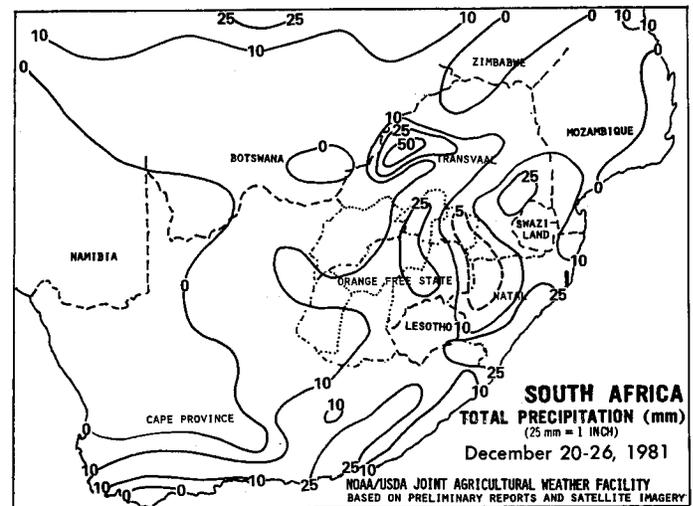
EUROPE: Precipitation increased further on the Iberian Peninsula as the westerly storm track stayed in the south. Nearly all of Portugal received more than 100 mm, and only eastern Spain remained excessively dry. Winter grain sowing is probably widespread in southern parts of the Peninsula. Farmers should still be able to grow a crop, although yields will be down because of the late sowing. Temperatures remained above normal in the area. Northern and Eastern Europe had a very cold week, with temperatures ranging much below normal. However, snow cover in agricultural areas was sufficient to protect winter grains. Precipitation in central and northern areas decreased further from the previous weeks' sometimes excessive amounts.



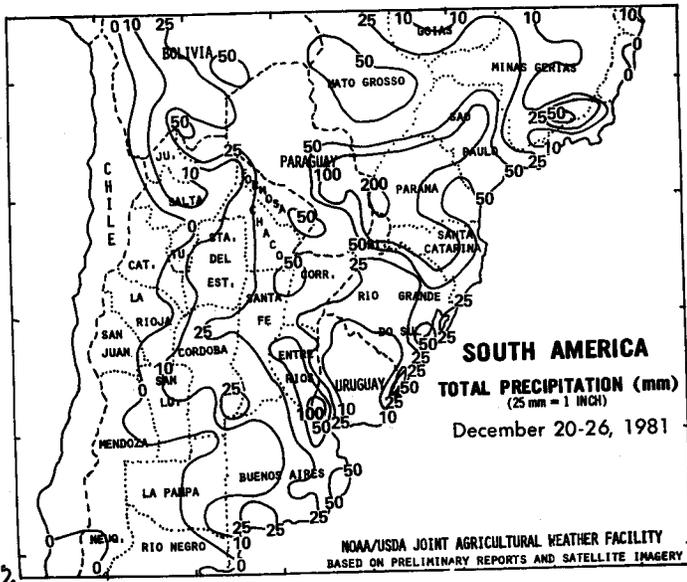
MEXICO: The precipitation pattern remained very similar to the previous week's. The only substantial amounts fell along the east coastal areas south of Tampico. Temperatures likewise remained about the same as the previous week, with readings averaging slightly above normal throughout the country.



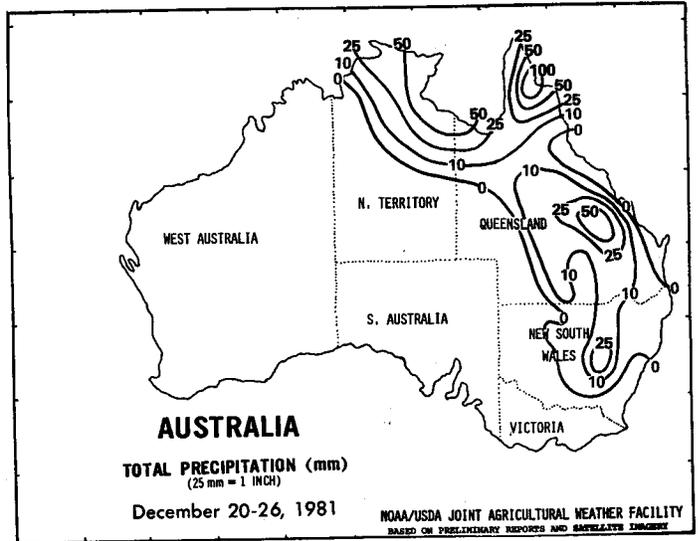
NORTHWESTERN AFRICA: Several disturbances traversing the Mediterranean dropped beneficial precipitation across northwest Africa. Generous amounts of 20-40 mm in northern winter grain areas of Morocco maintained favorable conditions for germination and early crop growth. Southern crop areas received only light rainfall, and prospects remained dim. Northern Tunisia and central and eastern Algeria received above-normal rainfall, improving conditions for winter grains. However, conditions over most of western Algeria remained too dry for sowing, and it is getting too late for successful establishment of the crop. Temperatures stayed above normal from central Algeria westward but returned to near normal in Tunisia.



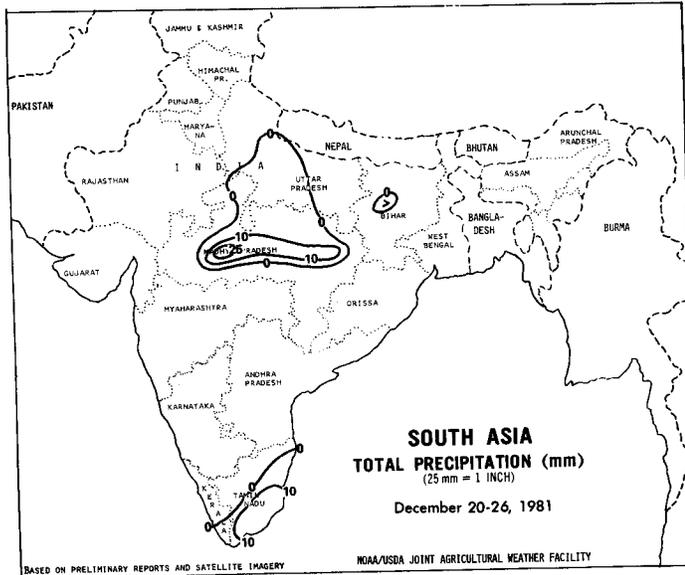
SOUTH AFRICA: Light to moderate rain fell on nearly all corn-growing areas early in the week. Heaviest amounts of 25-50 mm fell from eastern Orange Free State northward into Transvaal, but soil moisture in nearly all areas was adequate for plant development as the crop approached the flowering stage. Moderate rains in the normally drier southern portion of the Maize Triangle were especially beneficial.



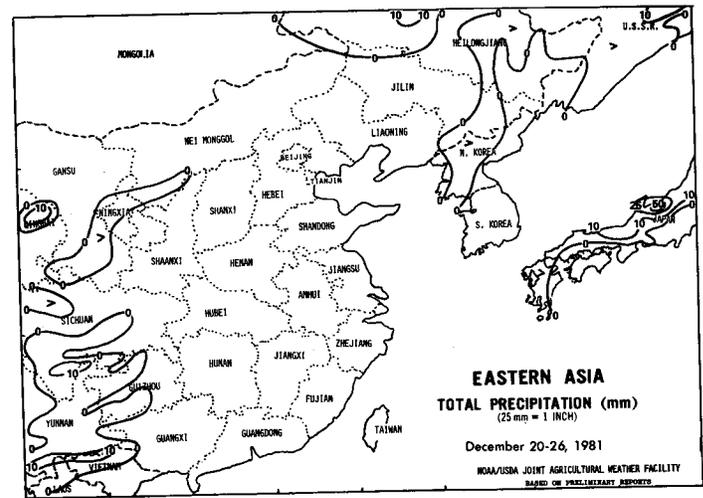
SOUTH AMERICA: Abundant rain fell on much of Brazil's soybean belt. The moisture was mostly beneficial, but locally excessive amounts in southwestern Parana may have caused some washout on steeper slopes. Moderate rainfall in central and southern Rio Grande do Sul maintained favorable growing conditions. There have been no signs of any moisture deficits for Brazilian soybeans so far this season, and crop yield prospects remain high. In Argentina, continuing wet weather in Buenos Aires' winter grain areas further slowed harvesting efforts. Showers in the corn/soybean areas maintained favorable conditions for planting of late soybeans and for corn approaching the flowering stage. Generous rains continued in cotton-growing areas of the north.



AUSTRALIA: Dry weather continued in winter grain areas where harvesting is now taking place. Rainfall moved inland over Queensland and northeastern New South Wales, benefiting pastures. Coastal areas became drier, including most sugarcane areas in Queensland. Northern parts of Queensland and the Northern Territory received abundant rainfall from tropical showers.



SOUTH ASIA: Most of the region was seasonably dry. Light to moderate rain continued over a limited area early in the week as a westerly system moved across central India. The moisture improved growing conditions for winter crops in Madhya Pradesh. Rainfall in the southern peninsula slackened somewhat. The northeast monsoon appears to be gradually ending--approximately on schedule. Seasonal rainfall in this area should have been sufficient to produce reasonably good crop yields.



EASTERN ASIA: Virtually no precipitation fell on agricultural areas in China and South Korea. Temperatures in South Korea and most winter grain areas of China pushed above normal but were still too low for renewed growth. Tropical Storm "Lee" passed through the Philippines during the weekend. While winds were not extreme, heavy rains produced flooding on the southern end of Luzon.

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SATURDAY... Showers and a few thundershowers were scattered through the Southeast from Louisiana to Delaware. Snow or freezing rain continued over the central and southern Appalachians. Snow through the Great Lakes region changed to rain through the Ohio Valley. Snow extended across the northern Plains through the central and northern Rockies. Rainshowers, with snow in the mountains, covered the Northwest from central California to the northern Plateau.

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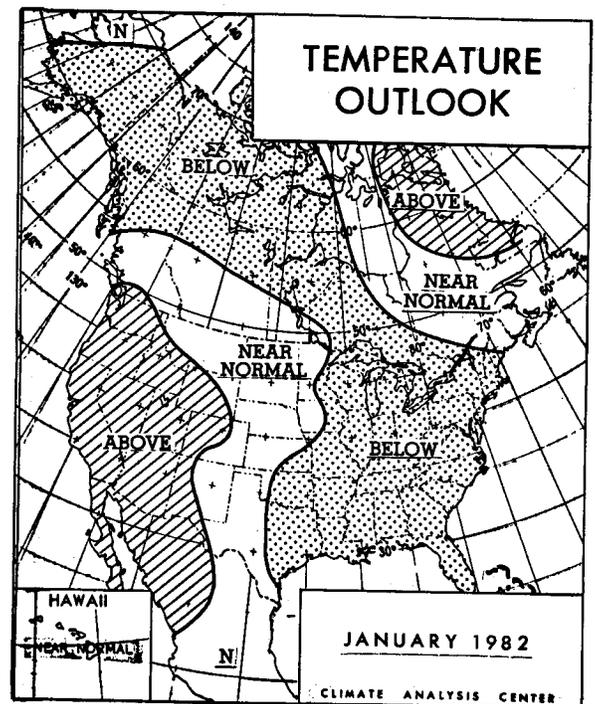
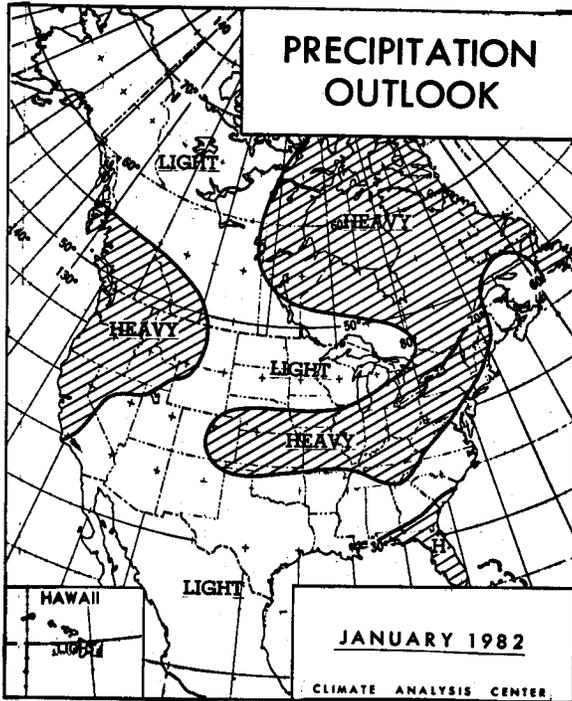
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