

WEEKLY WEATHER AND CROP BULLETIN

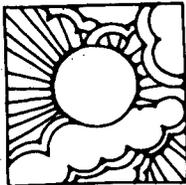
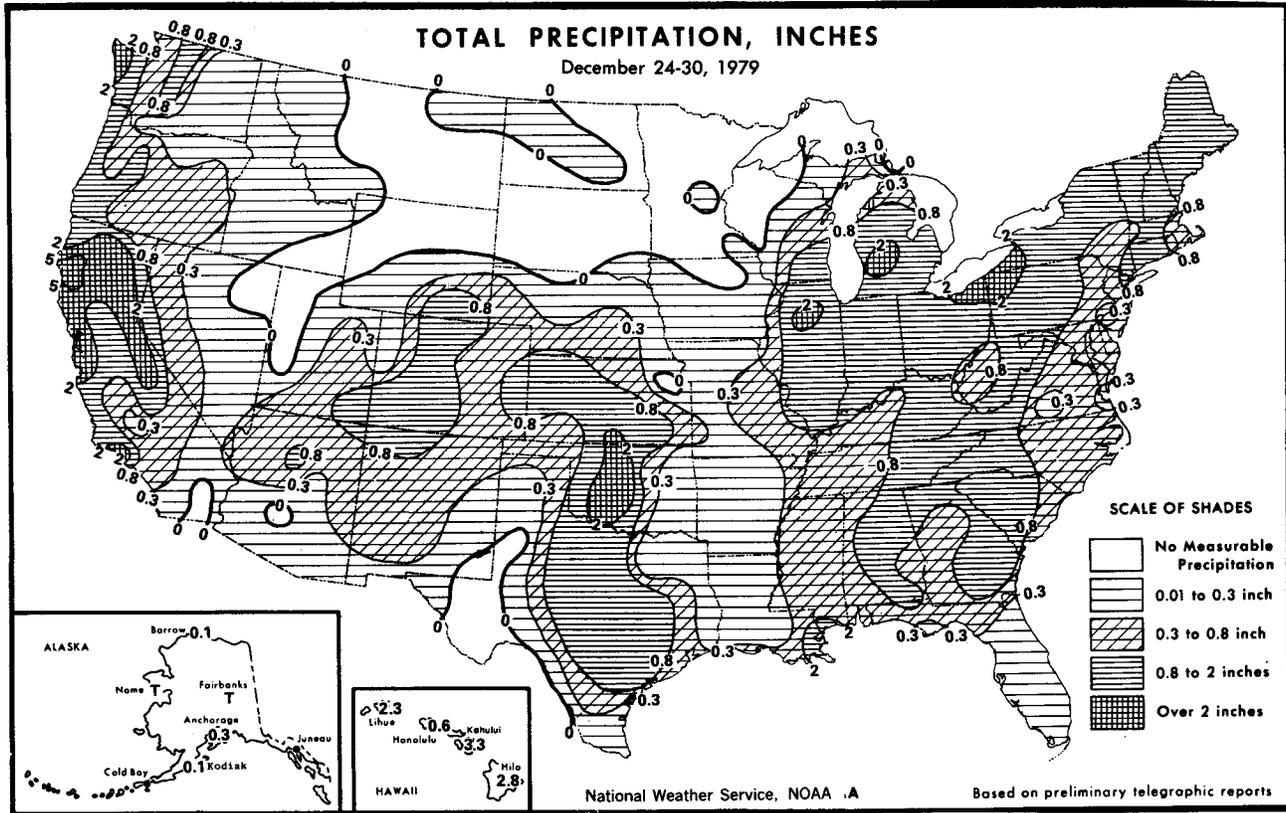
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National Weather Summary

December 24 - 30

HIGHLIGHTS: Snowcover was quite scarce over most of the United States. However, snow did fall over the Cascade and Sierra Mountains with moderate to heavy snow from the central Rockies to the west central Plains. Light snow dusted northern Maine and portions of the Appalachians.

Rainfall was more widespread. The heaviest amounts fell from East Texas to eastern Kansas and from the Deep South through the Great Lakes area.

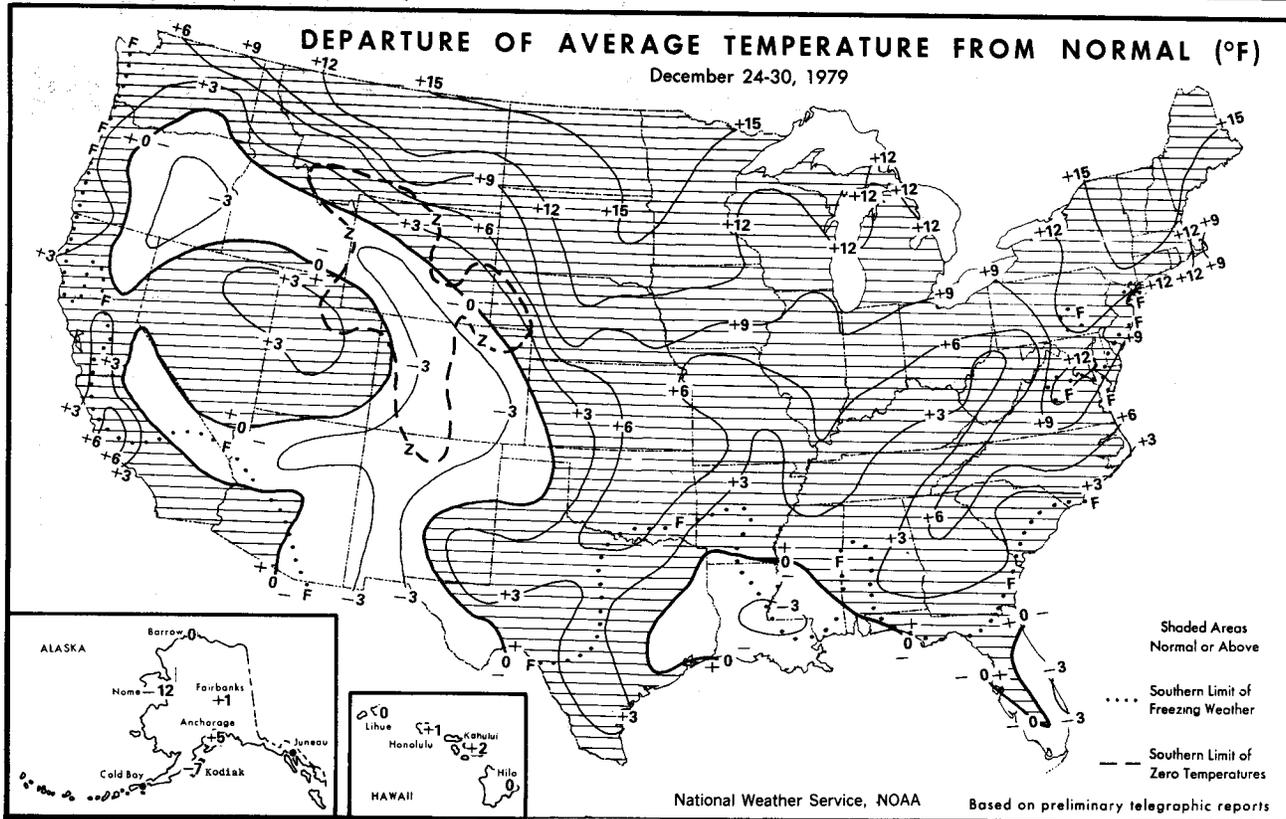
Much of the Nation noted warmer than normal temperatures. The northern Plains experienced a very warm spell when readings averaged up to

16 degrees above the norm. Some parts of the Deep South and Rockies averaged near-normal or colder than normal temperatures.

On Monday, a strong low pressure system pumped heavy rain onto the West Coast and heavy snows into the high elevations of Washington, Oregon, and California. An inch and one-third of rain doused San Francisco, while parts of California's Sierra Nevada Mountains gathered up to 2 feet of snow.

Meantime, another low pressure system rolled over the middle Mississippi Valley producing rain as far east as Pennsylvania and as far south as Arkansas; rain totals included nearly an inch at Milwaukee and an inch at Allentown, eastern Pennsylvania.

South Bend, northern Indiana, notched a record high temperature of 58°, topping the 1940 mark by four.



Christmas Day dawned wet, not white, from the Ohio Valley through New England; Cleveland scored 1.2 inches of rain. By day's end, however, 4 inches of snow had fallen in Caribou, northern Maine, and light snow whitened the mountains of extreme western Maryland and the Virginias.

The storm system in the Pacific Northwest weakened considerably, though snow continued in the California mountains where Norden counted 62 inches since Sunday.

Lander, west central Wyoming, saw its temperature jump from 11° to 39° in 30 minutes when a chinook wind rushed down the eastern mountain slopes. The chinook is a warm, dry wind that moves quickly down eastern slopes of the Rocky Mountains causing rapid and significant temperature rises.

Most of the Nation's precipitation fell in the Southwest on Wednesday. A low pressure system brewed in Arizona dropping snow from that State through Nevada, Utah, and Colorado. A foot of snow blanketed Flagstaff, north central Arizona, and 9 inches covered Hanksville, southern Utah. Light rain dampened parts of western Washington and the Texas and Oklahoma Panhandles.

On Thursday, the storm moved out of the Southwest and headed toward the central Plains. While about a foot of snow lay over sections of Colorado and Wyoming, the storm edged into western Kansas where 4 inches had accumulated by midnight. Little moisture fell over the rest of the country.

Snow and rain persisted in the Nation's mid-section on Friday. Fort Collins, northern Colorado, managed 15 inches of snow. To the east, a foot covered Goodland, western Kansas, and a 4-inch mantle was reported at McCook, southern Nebraska.

Rain fell to the south and east. Wichita, Kans., measured 1.5 inches, and Oklahoma City tallied nearly an inch. In Texas, 1.3 inches soaked San Antonio, and more than an inch fell in Austin.

Unseasonable warmth hovered over the Great Lakes Region; in Michigan, Alpena noted a record 45° as did Marquette, which topped the old record of 43° set in 1877.

Snow lingered over the central Plains, and rain continued to the south on Saturday. Two to 4 inches of snow fell over Nebraska and Kansas with light snow reaching western Iowa.

Rain dampened an area from Texas through the Deep South. A half-inch moistened Houston, and three-quarters inch fell over Tuscaloosa, west central Alabama.

Mild temperatures continued in the Great Lakes area. Alpena, northeastern Michigan, at 46°, chalked up another record high. Green Bay, eastern Wisconsin, set a record of 45°. On the West Coast, Eureka, northwestern California, at 65°, knotted its 1917 record high reading.

On Sunday, moderate rain persisted over portions of the Mississippi and Tennessee Valleys and extended through the Deep South and reached the Southeast. Three-quarters inch of rain dampened Anniston, eastern Alabama, and a bit more than a half inch fell at Florence, eastern South Carolina.

Meantime, another cold front edged over the upper West Coast bringing rain as far south as northern California and snow to the mountains. Crescent City, Calif., reported an inch and three-quarters, and Brookings, southwestern Oregon, posted 1.3 inches.



National Agricultural Summary

December 24 - 30

HIGHLIGHTS: Rain brought relief to ranges and winter wheat stands from Texas to Kansas and increased soil moisture in the Pacific Coast States and most of the north central States. The snow-pack increased in the Pacific ranges which should improve spring runoff to fill reservoirs. Temperatures were mild in most of the Nation particularly in the north from Montana to Maine; this reduced feeding requirements and placed less stress on livestock. Fieldwork was confined mostly to the South where farmers plowed, fertilized, and disced fields as weather conditions permitted. Elsewhere, farmwork centered around equipment maintenance, livestock care, and feeding. Rangeland had very little snowcover, but only southern grasslands produced forage for grazing cattle. Feed supplies appeared adequate in all areas, because the mild winter thus far helped cattle producers conserve feed; the only exception was tight hay supplies in the Pacific Northwest. Winter wheat had no snowcover except in the central Plains.

SMALL GRAINS: Winter wheat rated good in the Corn Belt and the Pacific Coast States but only fair in the Great Plains. A few producers were still seeding some acreage in extreme southern areas. The crop had virtually no snowcover except in parts of the central Plains.

North Dakota wheat lay vulnerable to low temperatures, lacking any snowcover. South Dakota wheat could possibly be harmed by dry soils. Nebraska wheat was protected by a light snowcover. Precipitation brought snow to the western third of Kansas but the southwest and south central areas needed soil moisture. Texas planting was almost complete, although some growers in South Texas seeded in dry soils optimistically hoping for rain to germinate the crop. Rains improved prospects of some Texas stands and made grazing available. The early seeded crop began tillering. Arizona growers finished planting; early stands continued to joint. California wheat rated excellent; rains delayed planting activity. Pacific Northwest wheat scored good but needed snowcover.

OTHER CROPS: Cotton picking centered in the Southwest, although minor acreages remained to be harvested in several other States. Texas picking stood at 96%, compared with 87% last year and the 94% average. Damp mornings delayed harvests on the High Plains and the Trans-Pecos areas; rains caused delays on the Low Plains. Arizona producers

harvested cotton under ideal conditions and reached 96%, surpassing last year's 85% and the 94% average.

Small acreages of corn and soybeans remained for harvest in the Southeast.

FRUITS AND NUTS: Deciduous fruit producers continued usual maintenance activities including pruning. Pecan harvesting was almost complete ranging from 86% in Texas to 90% or better in the States from Alabama eastward. Wet soils delayed mechanical harvesting in Texas; nuts were still in the shuck in scattered areas.

Florida citrus groves rated very good to excellent depending on soil moisture; growers applied light irrigation on high sand hill groves. Fruit color was excellent except on late-type oranges. Christmas slowed harvest activity. Citrus harvest continued in Texas. Arizona growers picked Navel and sweet oranges, tangerines, and lemons at a steady pace, but grapefruit harvest slowed. The California desert lemon harvest reached 50% complete; harvest of Navels continued.

VEGETABLES: Florida skies were sunny and clear with negligible rainfall in vegetable production areas. A cold front dropped low temperatures into the 40's and 50's at midweek. Crops rated good, although windburn lightly damaged some top foliage. Total shipments declined 30% from the previous week because of the Christmas Holiday. Only strawberry volume increased; other crop shipments held steady or declined. Texas growers harvested lettuce, cabbage, carrots, and broccoli. Producers prepared and fertilized land for spring plantings. The Arizona lettuce harvest continued on a large scale along with some cauliflower and broccoli. California growers harvested broccoli, carrots, cabbage, cauliflower, celery, and lettuce. Some Imperial Valley lettuce was overmature.

PASTURES & LIVESTOCK: Northern ranges were open and without snowcover but provided no forage. Southern grasslands rated fair. Generally above-normal temperatures and adequate soil moisture helped annual grasses provide some grazing. Central Texas ranges were adequate, but South Texas grasslands were overgrazed and needed moisture to grow out. California rains improved grazing land, but more rain was needed in the south. Feed and forage supplies rated adequate except for hay in parts of the Pacific Northwest.

Weather Data for the Week Ending Dec. 30, 1979

States and Stations	Temperature °F						Precipitation					Relative Humidity, percent		Number of Days			
	Average maximum	Average minimum	Extreme high	Extreme low	Average	Departure from normal	Weekly total, in.	Departure from normal	Greatest in 24-hour, in.	Total, in., since Dec. 3	Pct. normal since Dec. 3	Average maximum	Average minimum	Temperature °F		Precipitation	
														90 and above	32 and below	.01 inch or more	.50 inch or more
ALA. Birmingham.	54	38	64	29	46	2	.9	.3	.6	1.6	33	83	52	0	2	3	1
Mobile.	62	41	67	36	52	0	.6	.7	.4	4.0	74	77	42	0	0	2	0
Montgomery.	61	43	67	32	52	5	.5	.6	.4	2.8	62	64	43	0	1	3	0
ALASKA. Anchorage.	23	8	36	-12	15	4	.3	.1	.2	.6	60	70	66	0	7	4	0
Barrow.	-11	-18	0	-24	-14	0	.1	0	.1	.1	50	66	55	0	7	2	0
Fairbanks.	-22	-22	13	-36	-12	1	.1	.1	.1	.1	20	72	53	0	7	1	0
Kodiak.	30	15	40	3	22	-7	.1	1.0	.1	.9	20	78	46	0	7	3	0
Nome.	-2	-16	10	-30	-9	-12	.1	.1	.1	.1	100	59	49	0	7	0	0
ARIZ. Flagstaff.	35	17	45	8	26	2	.8	.3	.7	1.6	80	87	57	0	7	2	1
Phoenix.	63	41	67	37	52	1	.1	.2	.1	.1	14	67	28	0	0	0	0
Tucson.	62	38	70	31	50	-1	.1	.1	.1	.2	25	59	28	0	2	1	0
Winslow.	41	26	46	22	33	1	.2	.1	0	.6	150	--	--	0	4	0	0
Yuma.	66	46	69	42	56	1	.1	0	.1	.1	25	83	41	0	0	1	0
ARK. Fort Smith.	50	36	61	30	43	4	.6	.6	.6	2.7	104	85	55	0	3	1	0
Little Rock.	52	35	63	32	44	4	.9	.9	.9	2.9	78	93	59	0	1	1	0
CALIF. Bakersfield.	62	41	71	33	52	5	.2	.2	.2	.2	33	--	52	0	0	1	0
Eureka.	59	42	65	35	51	3	1.4	.1	.8	3.3	55	93	50	0	0	3	1
Fresno.	50	35	57	26	43	-3	.3	.1	.3	.7	44	95	76	0	3	2	0
Los Angeles.	66	48	69	45	57	2	.3	.2	.3	.4	20	66	47	0	0	2	0
Red Bluff.	52	39	58	34	46	1	3.0	2.1	1.1	5.7	168	95	68	0	0	5	3
San Diego.	66	50	70	44	58	3	.4	.4	.4	0	61	54	0	0	0	1	0
San Francisco.	55	42	63	38	49	0	2.3	1.3	2.0	4.2	114	88	62	0	0	3	1
Stockton.	52	41	58	36	47	3	1.2	.6	.4	1.8	75	--	73	0	0	3	0
COLO. Denver.	36	15	50	4	26	-5	.5	.4	.3	1.1	275	82	57	0	7	3	0
Grand Junction.	33	21	36	17	27	0	.2	.1	.1	.3	75	88	68	0	7	3	0
Pueblo.	38	14	66	-2	26	-4	.7	.6	.6	.9	225	--	64	0	7	2	1
CONN. Bridgeport.	48	37	54	31	43	12	.9	.2	.7	2.4	77	61	45	0	1	2	1
Hartford.	45	34	54	27	40	14	1.4	.6	.7	2.6	72	71	55	0	3	2	2
D.C. Washington.	56	38	63	31	47	12	.5	.2	.3	.9	32	71	47	0	1	2	0
FLA. Apalachicola.	65	45	69	35	55	1	.3	.4	.2	3.6	116	91	53	0	0	3	0
Daytona Beach.	69	47	79	35	58	0	.4	.4	.4	.6	35	89	53	0	0	0	0
Ft. Myers.	74	53	82	45	63	-1	.1	.3	.3	5.1	425	96	57	0	0	0	0
Jacksonville.	67	43	77	34	55	-1	.2	.4	.2	2.0	87	90	52	0	0	2	0
Key West.	74	65	79	61	70	-1	.1	.2	.1	1.2	86	84	61	0	0	1	0
Miami.	76	60	82	53	68	0	.4	.4	.4	2.9	181	85	54	0	0	1	0
Orlando.	71	47	80	38	59	-1	.1	.4	.1	.9	53	89	50	0	0	2	0
Tallahassee.	67	38	71	27	53	1	.6	.3	.5	5.8	153	85	46	0	2	2	1
Tampa.	70	51	79	42	61	0	.1	.4	.1	1.5	75	90	62	0	0	2	0
W. Palm Beach.	75	52	78	44	64	-4	.1	.5	.1	2.7	129	76	55	0	0	2	0
GA. Atlanta.	57	40	65	35	48	6	.5	.5	.3	.7	18	82	46	0	0	2	0
Augusta.	60	35	73	24	47	2	1.1	.3	.6	1.8	58	89	45	0	3	2	1
Macon.	63	41	69	32	52	5	.8	.2	.4	1.9	48	88	49	0	1	2	0
Savannah.	62	41	74	35	52	3	.4	.4	.3	2.7	87	85	48	0	0	2	0
HAWAII. Hilo.	--	--	--	--	71	0	2.8	.3	--	6.9	48	--	--	0	0	--	--
Honolulu.	81	68	83	65	74	1	.6	.3	.2	1.5	45	85	58	0	0	3	0
Kahului.	--	--	--	--	74	2	0	.7	0	0	--	--	--	0	0	0	0
Lihue.	--	--	--	--	72	0	2.3	.8	--	4.6	79	--	--	0	0	0	--
IDAHO. Boise.	38	27	47	19	32	2	.2	.1	.1	.6	46	86	63	0	5	3	0
Lewiston.	42	28	46	11	32	-1	.2	.1	.1	.8	67	84	63	0	5	2	0
Pocatello.	31	17	43	5	24	0	.2	.2	.3	.3	33	80	63	0	6	0	0
ILL. Cairo.	45	36	61	33	41	6	.5	.3	.3	3.4	97	--	--	0	0	3	0
Chicago.	41	28	52	23	35	9	1.6	1.2	1.5	2.5	132	89	65	0	6	2	1
Moline.	38	27	41	23	32	9	.9	.5	.9	2.3	144	83	67	0	6	1	1
Peoria.	36	26	44	20	31	6	1.1	.7	1.1	2.4	150	88	75	0	6	1	1
Rockford.	37	24	44	15	30	9	1.5	1.1	1.4	2.3	144	90	62	0	6	2	1
Springfield.	41	31	46	26	36	8	1.6	1.2	1.6	2.4	141	92	71	0	5	1	1
IND. Evansville.	43	33	59	29	38	5	.9	.2	.7	3.1	103	94	71	0	4	3	1
Ft. Wayne.	37	28	57	22	32	6	1.0	.5	.8	2.6	130	90	69	0	6	2	1
Indianapolis.	41	30	59	25	36	7	.8	.2	.7	2.5	104	91	55	0	5	2	1
South Bend.	41	31	58	23	36	11	1.9	1.3	1.3	3.4	142	92	74	0	4	2	2
IOWA. Burlington.	37	28	40	22	33	8	.3	.1	.2	1.3	81	--	--	0	6	2	0
Des Moines.	34	28	39	26	31	10	.4	.2	.1	1.1	85	74	0	7	1	0	0
Dubuque.	37	26	40	21	31	12	.2	.2	.1	1.4	82	87	68	0	6	2	0
Sioux City.	38	26	49	21	32	12	.1	.0	.1	1.1	17	92	69	0	7	1	0
KANS. Concordia.	43	27	53	17	35	8	.4	.3	.3	.4	57	93	65	0	7	2	0
Dodge City.	40	25	52	16	32	1	.7	.6	.4	.7	175	91	65	0	7	2	0
Goodland.	37	23	48	4	30	2	.9	.8	.6	1.2	300	87	63	0	7	2	1
Topeka.	42	28	52	21	35	6	.4	.4	.4	.6	86	56	0	6	0	0	0
Wichita.	47	32	57	22	39	8	2.0	1.8	1.8	2.0	182	85	56	0	3	3	1
KY. Lexington.	44	30	60	21	37	3	.9	.1	.5	3.9	122	88	65	0	4	2	1
Louisville.	45	33	61	27	39	5	.7	.1	.5	3.8	123	91	60	0	3	2	1

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending Dec. 30, 1979

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-hours, in.	Total, in., since Dec. 3	Pct. normal since Dec. 3	Average maximum	Average minimum	Temperature °F		Precipitation		
														90 and above	32 and below	.01 inch or more	.50 inch or more	
LA. Baton Rouge . . .	60	40	66	32	50	- 1	.2	-.9	.1	2.8	61	93	56	0	1	2	0	0
Lake Charles . . .	62	42	67	37	52	- 1	.3	-.9	.2	3.2	63	93	51	0	0	2	0	0
New Orleans . . .	64	40	71	32	52	- 1	.2	-.8	.5	3.1	66	91	45	0	1	2	1	0
Shreveport . . .	58	37	70	31	48	0	.9	-.8	.1	3.1	82	92	54	0	1	2	1	0
MAINE. Caribou . . .	31	26	36	20	28	16	1.8	1.3	.6	3.1	129	74	73	0	7	4	1	1
Portland . . .	42	30	46	22	36	13	1.5	.7	1.3	2.6	72	72	58	0	5	2	1	1
MD. Baltimore . . .	54	35	59	31	44	11	.4	.3	.2	.9	30	66	44	0	3	2	0	0
MASS. Boston . . .	48	35	56	30	42	11	.3	.6	.2	1.4	37	67	47	0	3	2	0	0
Chatham . . .	46	37	52	32	41	--	.6	.5	.3	3.5	92	72	58	0	2	3	0	0
MICH. Alpena . . .	38	29	46	25	33	13	.7	.3	.6	2.1	124	--	--	0	6	2	1	1
Detroit . . .	43	29	52	19	36	10	1.6	1.1	1.2	2.2	105	87	66	0	6	2	1	1
Flint . . .	40	29	49	23	35	11	1.4	1.0	1.1	2.2	138	91	72	0	6	2	1	1
Grand Rapids . . .	42	30	52	26	36	11	2.2	1.8	1.8	2.9	145	93	72	9	3	3	1	1
Houghton Lake . . .	38	24	43	16	31	12	1.0	.6	1.0	1.8	106	95	65	0	6	1	1	1
Lansing . . .	40	30	49	23	35	11	1.6	1.2	1.2	2.2	122	94	72	0	6	3	1	1
Marquette . . .	35	21	43	11	28	7	.3	-.1	.1	1.4	78	84	55	0	7	2	0	0
Muskegon . . .	41	25	49	16	33	7	1.5	1.0	1.5	2.5	114	93	65	0	6	2	1	1
S. Ste. Marie . . .	34	24	38	16	29	12	T	-.5	T	2.2	105	92	81	0	7	0	0	0
MINN. Duluth . . .	31	18	39	13	24	14	0	.3	0	.1	7	93	72	0	7	0	0	0
Internatl. Falls . . .	28	13	35	6	20	16	T	-.2	T	.4	50	85	66	0	7	0	0	0
Minneapolis . . .	31	24	35	22	28	13	T	-.2	T	.3	38	90	79	0	7	0	0	0
Rochester . . .	31	23	36	16	27	12	.2	.1	.1	.5	83	93	80	0	7	1	0	0
St. Cloud . . .	29	22	35	16	25	14	T	-.1	T	.3	43	96	--	0	7	0	0	0
MISS. Jackson . . .	56	36	64	29	46	- 1	.6	.5	.4	4.1	89	92	55	0	2	2	0	0
Meridian . . .	59	38	68	29	48	1	.6	.6	.3	2.4	48	89	51	0	2	2	0	0
MO. Columbia . . .	39	29	49	27	34	4	.5	.1	.5	1.3	81	91	77	0	6	2	1	0
Kansas City . . .	39	29	50	24	34	6	T	-.4	T	0	79	58	0	7	0	0	0	0
St. Louis . . .	41	32	50	30	36	4	1.0	.6	1.0	1.7	94	97	77	0	4	2	1	0
Springfield . . .	48	34	62	31	41	8	.2	.3	.2	1.3	57	81	58	0	2	3	0	0
MONT. Billings . . .	44	23	52	19	34	10	0	-.1	0	.1	20	70	32	0	6	0	0	0
Glasgow . . .	37	17	43	9	27	14	T	-.1	T	0	0	94	62	0	7	1	0	0
Great Falls . . .	44	28	50	15	36	9	0	.2	0	.3	50	56	34	0	5	0	0	0
Havre . . .	41	14	49	3	28	14	0	.1	0	.2	50	84	40	0	7	0	0	0
Helena . . .	34	16	45	3	25	3	T	-.1	0	.6	150	84	54	0	7	0	0	0
Kalispell . . .	36	29	39	22	32	11	.2	.2	.2	1.0	71	90	81	0	7	2	0	0
Miles City . . .	39	16	44	12	28	10	0	-.1	0	.1	25	86	45	0	7	0	0	0
Missoula . . .	32	25	36	18	28	6	T	-.3	T	.7	64	86	83	0	7	1	0	0
NEBR. Grand Island . . .	41	24	53	15	32	9	.5	.4	.3	.5	125	87	57	0	7	2	0	0
Lincoln . . .	39	28	50	24	34	10	.3	.2	.2	.4	67	94	76	0	7	2	0	0
Norfolk . . .	38	25	51	18	32	11	.2	.1	.1	.6	120	93	75	0	7	2	0	0
N. Platte . . .	44	26	58	16	35	11	.3	.2	.2	.3	75	77	40	0	6	2	0	0
Omaha . . .	37	27	46	22	32	10	.1	0	.1	.2	33	--	87	0	7	2	0	0
Valentine . . .	46	23	65	14	35	12	T	-.1	T	0	0	98	60	0	7	0	0	0
NEV. Ely . . .	40	12	46	0	26	2	T	-.1	T	.1	20	67	38	0	7	1	0	0
Las Vegas . . .	53	34	59	29	44	0	.2	.1	.2	.2	50	65	32	0	3	1	0	0
Reno . . .	39	25	45	18	32	1	.9	.6	.8	1.7	170	83	63	0	6	3	1	0
Winnemucca . . .	41	22	46	12	32	3	.1	-.1	.1	.3	38	90	54	0	6	2	0	0
N.H. Concord . . .	45	32	53	25	38	17	1.2	.6	1.0	1.9	66	64	50	0	3	2	1	0
N.J. Atlantic City . . .	50	34	56	25	42	9	.4	.4	.3	2.2	61	71	52	0	4	2	0	0
Trenton . . .	50	38	61	33	44	11	.4	.3	.3	1.8	60	--	--	0	0	2	0	0
N.MEX. Albuquerque . . .	42	22	50	16	32	- 3	.7	.6	.6	.9	225	90	52	0	6	1	1	0
Roswell . . .	53	31	62	24	42	4	.1	0	.1	.3	75	--	--	0	4	1	0	0
N.Y. Albany . . .	44	31	58	21	37	15	.6	0	.4	1.0	38	82	61	0	5	3	0	0
Binghamton . . .	42	32	53	27	37	14	.6	0	.3	1.8	72	83	63	0	4	3	0	0
Buffalo . . .	40	33	50	30	37	12	1.4	.8	.9	2.5	100	88	78	0	5	3	1	1
New York . . .	48	39	57	34	44	10	1.1	.3	.8	2.6	79	72	55	0	0	2	1	1
Rochester . . .	40	32	47	27	36	11	1.7	1.2	1.1	2.8	127	93	77	0	6	3	1	1
Syracuse . . .	43	32	55	26	38	13	.9	.3	.6	1.7	63	89	71	0	4	3	1	1
N.C. Asheville . . .	54	34	59	28	44	7	.8	0	.7	.9	28	88	66	0	3	1	1	1
Charlotte . . .	57	34	67	28	46	5	.8	0	.6	1.4	44	85	46	0	3	2	1	1
Greensboro . . .	56	33	67	24	45	7	.4	-.3	.4	1.2	43	87	48	0	3	2	0	0
Hatteras . . .	57	42	72	35	49	3	.3	-.7	.2	5.0	119	76	58	0	0	1	0	0
Raleigh . . .	59	35	70	27	47	7	.4	.3	.3	1.0	36	85	47	0	3	3	0	0
Wilmington . . .	61	38	74	31	50	4	.7	0	.5	2.4	77	78	46	0	2	2	1	1
N.DAK. Bismarck . . .	36	15	44	9	26	14	.1	0	.1	.8	75	93	65	0	7	1	0	0
Fargo . . .	29	20	32	15	25	16	0	-.1	0	.1	25	98	89	0	7	0	0	0
Williston . . .	38	14	44	5	26	15	.1	0	.1	.1	25	85	53	0	7	2	0	0
OHIO. Akron-Canton . . .	38	29	56	22	33	6	.9	.3	.8	1.9	86	89	65	0	6	4	2	2
Cincinnati . . .	42	29	60	20	35	4	1.0	.3	.8	2.8	108	93	68	0	4	2	1	1
Cleveland . . .	39	30	58	22	35	7	2.6	2.1	1.8	3.9	186	92	71	0	5	2	2	2
Columbus . . .	39	30	59	21	34	6	.8	.2	.5	1.9	86	88	77	0	4	2	1	1
Dayton . . .	41	29	60	23	35	6	.8	.3	.7	2.2	110	91	67	0	4	2	1	1
Toledo . . .	38	28	56	22	33	8	1.3	.8	1.2	2.4	120	90	73	0	6	2	1	1
Youngstown . . .	37	30	55	23	33	7	2.8	2.2	1.8	3.7	154	83	73	0	5	2	2	2

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending Dec. 30, 1979

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-hours, in.	Total, in., since Dec. 3	Pct. normal since Dec. 3	Average maximum	Average minimum	Temperature °F		Precipitation		
														90 and above	92 and below	.01 inch or more	.50 inch or more	
OKLA.Okla. City	53	37	62	28	45	7	2.2	1.9	1.9	2.6	217	81	57	0	2	3	1	0
Tulsa	53	38	60	29	45	8	T	.4	T	.4	25	81	53	0	1	1	0	0
OREG.Astoria	52	41	58	33	47	5	.8	1.5	.5	10.1	105	64	68	0	0	6	1	0
Burns	30	13	39	8	22	-4	.7	.3	.5	1.5	94	96	62	0	3	3	0	0
Medford	50	33	59	25	41	5	.4	.4	.3	1.5	47	79	55	0	3	3	0	0
Pendleton	38	28	50	23	33	-1	.2	.2	.5	.3	33	91	80	0	6	2	0	0
Portland	48	37	53	31	42	3	.2	.2	.1	4.2	78	84	64	0	1	2	0	0
Salem	51	34	56	26	42	3	.4	.2	.1	4.7	77	91	69	0	3	4	0	0
PA.Allentown	49	36	59	33	42	14	.8	0	.6	2.5	78	68	55	0	0	2	1	0
Erie	39	34	55	30	37	8	3.2	2.6	1.4	4.7	188	--	--	0	5	2	2	0
Harrisburg	51	36	58	31	43	13	.5	.1	.4	1.5	56	65	47	0	0	3	2	0
Philadelphia	51	36	60	32	43	10	.3	.4	.2	1.9	63	68	48	0	1	2	0	0
Pittsburgh	38	30	56	23	34	6	1.3	.7	.8	2.3	96	77	63	0	6	3	1	0
Scranton	47	34	60	29	41	14	.7	.2	.6	1.7	74	75	53	0	2	3	1	0
R.I.Providence	50	35	55	28	43	14	.5	.3	.5	1.8	49	72	46	0	2	2	0	0
S.C.Charleston	62	37	74	30	50	1	.3	.4	.2	2.8	97	90	50	0	1	2	0	0
Columbia	58	33	70	26	46	1	.8	0	.4	1.5	48	86	52	0	4	2	0	0
Greenville	59	36	68	30	48	5	.9	0	.6	1.1	30	84	48	0	3	2	1	0
S.DAK.Aberdeen	34	17	46	9	25	13	0	.1	0	.1	25	89	69	0	7	0	0	0
Huron	40	20	49	12	30	15	T	.1	T	0	87	58	0	7	0	0	0	0
Rapid City	46	18	59	14	32	8	0	.1	0	.1	25	86	34	0	7	0	0	0
Sioux Falls	34	25	45	21	30	13	T	.1	T	0	93	85	0	7	1	0	0	0
TENN.Chattanooga	49	36	56	26	42	3	1.3	.1	.8	1.8	38	78	58	0	2	3	1	0
Knoxville	51	37	58	29	44	4	1.1	0	.7	2.0	49	81	57	0	1	3	1	0
Memphis	52	38	62	30	45	4	.4	.7	.2	5.0	114	87	61	0	1	2	0	0
Nashville	49	36	59	26	42	4	.6	.4	.1	5.0	125	84	62	0	2	3	0	0
TEX.Abilene	56	39	71	31	48	3	1.1	.9	1.1	2.8	300	77	53	0	2	1	1	0
Amarillo	46	26	73	18	36	0	T	.2	T	0	0	79	49	0	6	1	0	0
Austin	64	43	71	35	54	3	1.2	.7	1.2	3.4	162	87	46	0	1	1	1	0
Beaumont	62	43	69	35	53	0	.2	.8	.2	2.5	58	93	53	0	0	1	0	0
Brownsville	72	51	78	40	62	0	.1	.2	.1	1.6	133	92	51	0	0	1	0	0
Corpus Christi	73	50	79	38	61	4	.1	.2	.1	1.0	67	85	45	0	0	1	0	0
Del Rio	65	43	74	35	54	3	T	.1	T	.8	200	80	43	0	0	2	0	0
El Paso	54	26	60	17	40	-3	.1	0	.1	.2	50	83	39	0	5	1	0	0
Fort Worth	60	43	68	35	51	5	.2	.2	.1	2.8	175	80	54	0	0	1	0	0
Galveston	60	52	63	48	56	1	.6	.2	.5	3.0	94	83	61	0	0	2	1	0
Houston	64	40	73	33	52	-1	.7	.2	.6	4.0	108	95	56	0	0	2	1	0
Lubbock	54	33	73	26	44	4	T	.1	T	1.3	325	61	34	0	3	0	0	0
Midland	57	36	68	31	47	3	T	.1	T	2.8	700	80	45	0	1	1	0	0
San Angelo	60	38	72	30	49	2	1.0	.8	1.0	2.6	520	84	50	0	2	1	1	0
San Antonio	68	43	74	34	56	4	1.7	1.4	1.6	2.9	207	83	43	0	0	1	1	0
Victoria	67	45	73	37	56	1	1.3	.9	1.1	2.1	124	90	52	0	0	2	1	0
Waco	60	40	71	34	50	2	1.0	.6	.9	4.0	222	93	62	0	0	2	1	0
Wichita Falls	57	39	71	31	48	6	1.2	.9	1.0	2.1	175	79	53	0	2	3	1	0
UTAH.Blanding	35	22	45	13	28	0	.8	.5	.4	1.3	108	90	76	0	7	3	0	0
Salt Lake City	41	26	49	19	33	5	T	.3	T	.5	38	78	57	0	6	1	0	0
VT.Burlington	39	30	46	21	35	16	1.0	.6	.7	1.5	75	77	64	0	5	5	1	0
VA.Lynchburg	54	36	63	26	45	9	.3	.4	.3	1.1	38	70	--	0	2	1	0	0
Norfolk	57	38	71	29	48	7	.3	.4	.3	1.0	36	75	46	0	2	1	0	0
Richmond	60	34	69	27	47	10	.4	.3	.2	1.7	59	90	42	0	5	2	0	0
Roanoke	53	36	59	29	44	8	.5	.2	.5	1.1	39	68	46	0	3	1	1	0
WASH.Colville	36	31	38	27	33	8	.1	.4	.1	.9	45	--	--	0	5	2	0	0
Omak	35	30	36	25	32	8	.3	.1	.2	1.2	75	--	--	0	7	4	0	0
Quillayute	49	40	53	35	45	5	3.5	0	1.2	25.8	182	95	84	0	0	6	3	0
Seattle-Tacoma	50	38	52	32	44	5	.3	1.0	.2	8.6	162	76	61	0	2	3	0	0
Spokane	35	25	39	19	30	3	.3	.3	.2	1.4	64	87	77	0	6	2	0	0
Walla Walla	39	31	50	29	35	1	.2	.3	.1	.9	50	93	76	0	4	2	0	0
Yakima	34	25	37	16	30	1	.2	.1	.1	.9	82	93	85	0	6	3	0	0
W.VA.Beckley	43	28	63	21	36	5	.9	.1	.7	1.5	48	87	63	0	6	3	1	0
Charleston	43	31	56	24	37	3	.7	.1	.4	2.7	93	87	71	0	4	3	0	0
Huntington	44	32	58	23	38	4	.4	.3	.2	2.7	104	81	63	0	4	2	0	0
Parkersburg	38	33	57	23	35	2	.6	0	.4	2.0	83	87	82	0	4	2	0	0
WISC.Green Bay	39	21	45	18	30	12	.5	.3	.4	1.4	127	88	63	0	7	1	0	0
La Crosse	31	24	37	14	28	10	T	.2	T	.7	78	100	82	0	6	0	0	0
Madison	38	21	44	14	29	11	1.0	.7	1.0	1.8	129	95	65	0	7	2	1	0
Milwaukee	40	25	48	22	32	11	1.8	1.4	1.8	2.3	144	91	69	0	6	2	1	0
WYO.Casper	34	16	42	9	25	1	T	.1	T	.4	100	71	55	0	7	1	0	0
Cheyenne	38	17	52	0	27	0	1.4	1.3	1.1	1.4	350	70	41	0	7	3	1	0
Lander	27	8	46	0	17	-3	T	.1	T	1.1	275	95	56	0	7	2	0	0
Sheridan	43	15	48	10	29	6	0	.1	0	.3	60	88	40	0	7	0	0	0
P.R.San Juan	82	72	85	69	77	1	.2	.8	.2	3.6	86	93	65	0	0	1	0	0

Based on preliminary reports and 1941-70 normals

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 ESCS State offices in cooperation with the National Weather Service.

ALABAMA: Temperatures averaged 2° above normal. Rain statewide 24th and 29th.

Fieldwork: 4.4 days suitable. Soil moisture adequate to surplus. Activity seasonally light; chores, some plowing. Cotton harvest virtually complete. Pecans 90% harvested. Wheat, livestock mostly good condition. Pastures mostly fair.

ARIZONA: Winter storm brought moderate to heavy precipitation central basin, northeast, Mogollon Rim, White Mountains. Recorded amounts 0.25 to 1.25 in. Temperatures near normal central basins, southwest but 2 to 4° below normal elsewhere.

Cotton harvest 96% finished, 85% last year, average 94%. Harvest conditions ideal. Many fields replanted wheat, barley. Small grain plantings continue, good emergence. Earlier fields jointing. Sugarbeets good progress, recent cold weather slowed growth. New alfalfa fields satisfactory. Lettuce harvest continues large scale. Fields prepared spring planting. Some cauliflower, cabbage harvest. Later plantings lettuce, cabbage, cauliflower, broccoli from seeding to nearly mature. Harvest Navel, sweet oranges, tangerines, lemons steady. Grapefruit harvest slow. Gasoline, diesel supplies mostly adequate. Some central, southeast areas deficit to tight. LP gas supplies adequate. Rain, snow northern areas; range conditions there fair to good. Other areas ranges mostly poor. Cattle, calves, sheep, lambs condition fair to good. Stock water, soil moisture short to adequate northern areas, short elsewhere.

ARKANSAS: Temperatures above normal midweek with slightly below normal temperatures at other times. General rainfall occurred near first of week and toward end of week.

Farmers continued preparing fields for planting, where weather permitted. Hay and supplements fed to livestock.

CALIFORNIA: Warm sector of large scale Pacific system moved to coast and inland over northern California followed by cold sector on 24th. Latter front reinforced by a following trough and also upper air support. Heavy rainfall brought totals to near or in excess of seasonal normals. Snow pack in mountains welcomed in its value to fill reservoirs as snow melts in spring. Temperatures below normal.

Small grain in excellent condition. Seeding being hampered by rains. Sorghum harvest virtually complete. Cotton plowdown virtually complete north, 60% complete south. Sugarbeet growth hampered by horned larks and low temperatures. Seasonal cultural practices delayed by rain. Harvest of desert area lemons nearing 50% completion. Harvest of avocados, dates, lemons and Navel oranges continued. Artichoke movement light. Broccoli continued steady from central to south coast. Carrot and cabbage harvest remain active. Cauliflower harvest decreasing from Salinas. Celery harvest complete in Salinas, active south coast. Lettuce harvest continued, some overmaturity Imperial. Potato harvest continued Riverside. Rangeland grasses benefited from recent rains. More needed in southern area. Supplemental feeding necessary many areas. Grass not adequate to support livestock. Livestock in

good condition. Fuel supplies adequate for farming activities.

COLORADO: Windy and mild early week. Major winter storm moved eastward through central and southern Rockies on 26th and 27th. Some mountain areas received two feet of snow and five to eighteen inches fell over eastern slope and eastern plains. Water content for week averaged 0.50 to 0.75 in. west and north and near 1.00 in. southeast. Temperatures averaged 1 to 5° above normal with mild-est readings reaching into 60's over southeast 25th.

FLORIDA: Temperatures above normal beginning of period. Cold front at midweek brought colder readings and few showers. Rainfall amounts generally less than 0.10 in. Temperatures dropped into 30's as far south as central peninsula on 27th but warmed to above normal by end of period.

Soil moisture mostly adequate; few localities getting dry in central areas. Farmwork slow. Sugarcane harvest active south. Crop condition good to excellent. Small grains planted, making good progress. Tobacco plantbeds being prepared and seeded. Fuel supplies mostly adequate; little tight in few areas of Panhandle. Panhandle, northern peninsular pastures generally poor to fair. Conditions in some drier central areas very poor while lower southern peninsula grazing mostly good to excellent. Early planted winter forage crops being grazed. Cattle continue fair to good condition. Citrus tree condition very good to excellent depending on moisture. Light irrigation on high sand hill groves. Fruit color excellent except late-type oranges. Harvest slowed slightly due to Christmas. Cold front moved through vegetable growing areas at midweek dropping temperatures into 40's and 50's. Daytime highs were in upper 70's to low 80's. Skies sunny and clear with negligible rainfall. Winds moderate early week, becoming light by weekend. Overall crop condition fair to excellent. Windburn caused light damage to top foliage. Total shipments down 30% from previous week due to Christmas. Shipments strawberries increased while cauliflower, chinese cabbage, escarole, radishes held steady. Supplies snap beans, cabbage, carrots, celery, sweet corn, cucumbers, eggplant, lettuce, okra, parsley, peppers, squash, tomatoes decreased. Strawberry crop making very good progress. Harvest gaining. Watermelon planting very active. Planting conditions very good.

GEORGIA: Temperatures 3° above normal north and central, near normal south; averages mid-40's to low 50's south. Cold nights 25th through 28th, otherwise relatively mild. Mostly light rains 24th and 25th. Amounts mostly about 0.25 in. Light snow flurries in mountains 25th.

Soil moisture adequate. Farm activity light over Holidays. Corn, soybean, pecan and cotton harvests almost completed. Small grain planting almost complete. Tobacco bed preparation continued active. Pastures fair to good. Cattle and hogs fair to mostly good.

HAWAII: Weather variable. Sunny, clear some areas; others damp, overcast with moderate to heavy isolated showers. Farmland adjacent to streams experiencing flooding Island Oahu.

Some crop damage from winds stronger than normal on some Islands. Crops exposed areas bruised. Most plantings made fair progress. Vegetable supplies: Mustard cabbage moderate to heavy; others generally light. Banana supplies light. Papaya supplies seasonally low; spraying to minimize diseases. Pineapple harvesting down. Sugar harvesting minimum. Pastures generally fair to good. Fuel supplies adequate.

IDAHO: Temperatures generally above normal. Extremes: 50 and -12°. Precipitation reported in most areas.

Farm activity limited to caring for livestock and chores. Marketing limited because of Holiday. Preparations beginning for early calving and lambing. Livestock in good condition. Feed supplies adequate.

ILLINOIS: Temperatures 7 to 11° above normal northern two-thirds, 4 to 5° above normal south. Precipitation ranged 0.75 to 1.00 in. except some areas of west, northwest, extreme south where 0.20 in. or less recorded.

Winter wheat mostly in good condition, no snowcover. Livestock generally in good condition, no disease or loss problems. Activities: Hauling manure, repairing equipment, general farm chores.

INDIANA: Warm and dry except wet northwest. Temperatures averaged 6° above normal and ranged from 6 to 22°. Precipitation averaged 0.41 in. south, 0.34 in. central, 0.58 in. north. No snowcover. Soils lightly frozen north and central. Sunshine 21% of possible.

Wet soils halted fieldwork except for installation of farm drainage. Other activities: Hauling corn and soybeans, stripping tobacco, fencing, caring for livestock and usual chores.

IOWA: Temperatures averaged 9 or 10° above normal with considerable cloudiness and fog. Precipitation totaled little or none except moderate rainfall southeast and some east central locations early week, and light snowfall southwest and west on 28th and 29th.

KANSAS: Beneficial moisture all but northeast; 8 to 12 in. snows northwest and west central, 1 to 3 in. southwest and north central. Moisture ranged from over 1.00 in. northwest through central to little or none northeast. Temperatures ranged from 33° northwest to 39° southeast and south central or 5 to 8° above normal. Snowcover much of western third; moisture aided short topsoil supplies southwest and south central.

KENTUCKY: Week started unseasonably mild, but more seasonal weather spread over lower Ohio Valley through middle and end of week. Precipitation averaged around 1.00 in., occurring mainly on the first 1 or 2 days.

Livestock in good condition. Pastures providing ample feed. Excellent weather for stripping remainder of burley crop. Markets to reopen Jan. 7. Farm activities limited to livestock chores.

LOUISIANA: Temperatures near normal to 2° below. Extremes: 31 and 74°. Widespread rain. Activities: Care and feeding of livestock. Routine chores.

MARYLAND & DELAWARE: Temperatures averaged much above normal. High's averaged mid-40's and 50's, lows averaged near 30° to upper 30's. Precipitation light to moderate averaging 0.06 in. Weekend temperatures well above normal with some sprinkles.

MICHIGAN: Unseasonably warm temperatures averaged 8 to 13° above normal. Many new record maximum temperatures established. Generally very dry over Upper Peninsula. Over northern Lower precipitation totaled 0.10 to 1.00 in. and over southern Lower 1.00 to 2.30 in. Most precipitation fell as rain 24th and 25th. Very dry remainder of week. Over Lower Peninsula most snow melted.

Warm temperatures permitted few farmers to get into fields after Holidays. Livestock feeding and maintenance chores.

MINNESOTA: Temperatures averaged from 10° above normal southeast to 20° above normal northwest. Extremes: 47 and 5°. Precipitation averaged 0.12 to 0.30 in. below normal except normal to 0.25 in. above normal south central. Precipitation totals less than 0.15 in. except 0.15 to 0.54 in. south central and southeast. Snow depth zero to trace.

MISSISSIPPI: Temperatures ranged from 24° in north to 74° south. Southerly flow of warm moist air brought mostly cloudy skies and scattered rainfall with a high of 3.80 in. northeast.

Soil moisture adequate to surplus. Fieldwork: 3.0 days suitable. Winter wheat condition fair to good. Pastures fair condition. Livestock condition fair to good. Hay and roughage supplies adequate. Feed grain supplies adequate. Gasoline, diesel, LP gas supplies adequate.

MISSOURI: Pre-Christmas storm brought varying amounts of precipitation, but significant rainfall confined mainly to southeast where some reports topped 2.00 in. From Christmas Day on dry. Temperatures mild averaging as much as 10° above normal.

MONTANA: Unseasonably warm. Temperatures averaged from 2 to 12° above normal. Light to moderate precipitation west of Divide. Very dry elsewhere.

Winter wheat in fair condition. Wind damage to winter wheat light to moderate. Little snowcover. On supplemental feed: cattle 65%, sheep 80%. Cattle, sheep in good condition.

NEBRASKA: Temperatures averaged just above normal southwest to 10° above normal elsewhere. Precipitation statewide ranged from trace to less than inch. Light snowcover.

NEVADA: Week began with first major storm of winter. Precipitation widespread, 3 to 5 feet of snow fell Sierra higher elevations. Temperatures near normal early, below normal end of period. Extremes: 59 and -15°.

Feeding livestock and chopping ice main ranch activities.

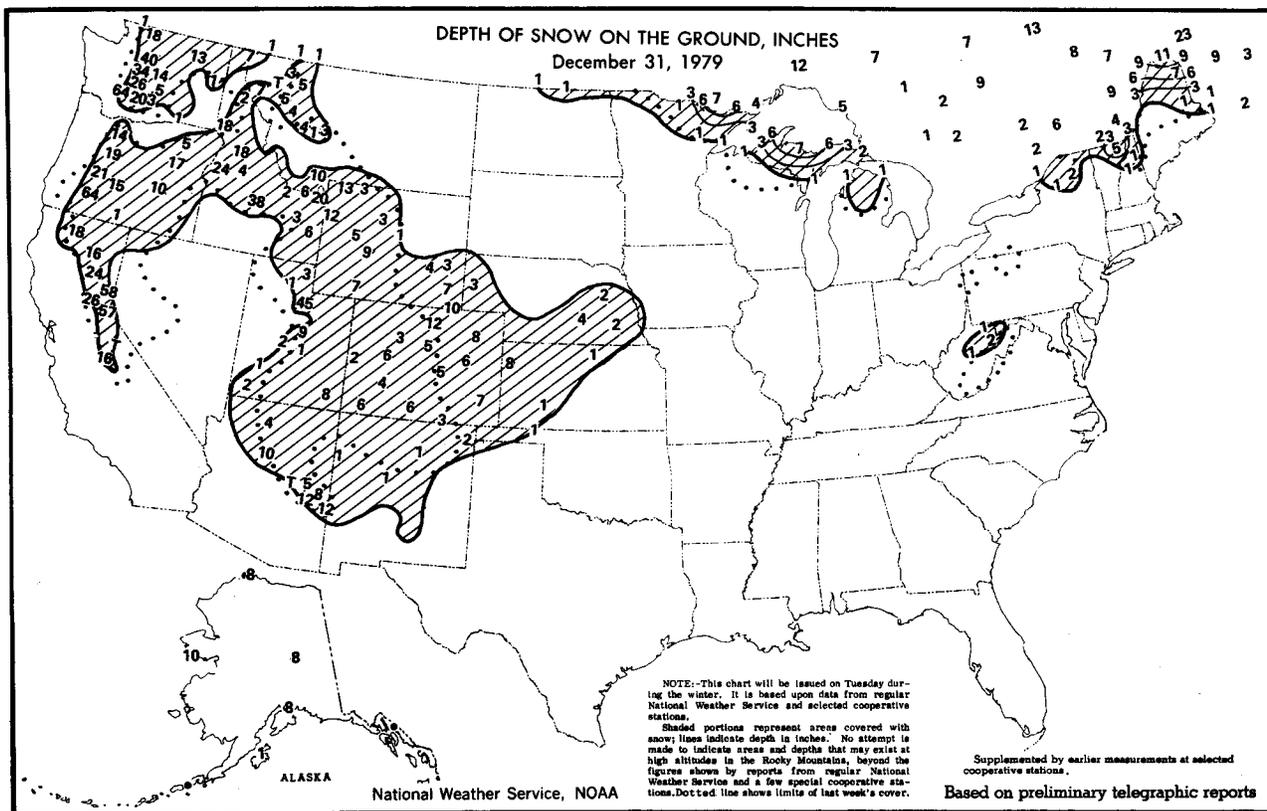
NEW ENGLAND: Rainy weather with rising temperatures advanced into southern and western New England 24th with wet and very mild weather 25th. Fair and windy weather 26th and 30th except for a few snow flurries: mainly over northern mountain areas.

NEW JERSEY: Temperatures 9 to 10° above normal, averaging 40° north, 43° south, 45° coastal. Extremes: 27 and 60°. Precipitation near normal averaging 0.75 in. north, 0.52 in. south, 0.54 in. coastal.

Farmers caring for livestock, routine winter chores.

NEW MEXICO: Not available.

NEW YORK: Temperatures much above normal, some locations had near record-breaking highs. Preci-



precipitation varied; above normal north and west, below normal southeast. Snowcover remarkably light or non-existent.

NORTH CAROLINA: Temperatures above normal. Precipitation less than inch.

Fieldwork: 4.6 days suitable. Soil moisture adequate. Condition of wheat, oats, barley, rye fair to mostly good. Pasture mostly fair to good. Supplies of hay, roughage, feed grains mostly adequate. Major activities: Plantbed preparation, discing fields general farm maintenance, cattle feeding.

NORTH DAKOTA: Continued dry and mild. Temperatures averaged 10 to 15° above normal. Many highs in 30's and 40's. Extremes: 49 and 50°. Most areas received trace or less of precipitation.

Average snow depth from zero most areas to 3 in. some north central areas. Weather helping conserve livestock feed supplies; now appear adequate for remainder of season. Winter wheat vulnerable to extremely low temperatures due to lack of snowcover. Some damage already occurred. Additional snow would also improve soil moisture levels which are quite dry. Some soil erosion occurred northeast. Overheating and mold damage in some stored sunflower seed. Marketing of sunflower seed and other grains slowed due to price declines. Most livestock in good condition. Range cow shrinkage generally less than normal. Over 90% of pasture and rangeland open for grazing, but nearly all livestock receiving supplemental feed due to poor pasture conditions.

OHIO: Average temperatures 4° above normal. Extremes: 17 and 60°. Precipitation normal ranging from 0.25 to 0.50 in. Exception was northeast with 1.00 to 2.00 in. No snowcover.

OKLAHOMA: Temperatures averaged 3 to 9° above normal all but Panhandle where 1° below normal. All but southeast received some precipitation with averages ranging from 0.05 in. northeast to 1.29 in. central. Receiving 0.50 in. or more were north central, south central, southeast.

OREGON: Precipitation along coast ranged 1.30 to 2.50 in. Amounts varied from 0.25 to 1.10 in. in western interior. Precipitation east of Cascades varied from 0.03 to 0.70 in. Temperatures about normal.

Soil moisture mostly adequate east; adequate to surplus west. Winter wheat condition fair to mostly good. Very little field activity. Livestock condition fair to good. Range and pasture conditions are very variable. Feed supply availability adequate; hay not so plentiful.

PENNSYLVANIA: Following storm passage beginning of week, temperatures cold to seasonal levels mid-week before moderating to well above normal levels weekend when abundant sunshine but breezy conditions prevailed. Temperatures 5 to 10° above normal. Extremes: 56 and 8°. Christmas storms produced 0.50 to 1.00 in. rainfall except northwest where 1.50 to nearly 3.00 in. Remainder of week mostly dry except few snow flurries northern tier.

Mild conditions promoted a wide range of farm activities including farm repairs, hauling manure. Livestock in good condition with lower than normal amounts of feed going for maintenance because of above average temperatures. Tobacco stripping continuing.

PUERTO RICO: Island average rainfall 0.84 in. or 0.10 in. below normal. Temperatures averaged about

'73 to 7° on coasts and 69 to 2° interior. Extremes: 90 and 52°.

SOUTH CAROLINA: Temperatures averaged well above normal. Extremes: 74 and 25°. Light rainfall.

Combining soybeans in low, wet portions. Pruning fruit trees, grapevines. Preparing for spring planting.

SOUTH DAKOTA: Temperatures much above normal by 8 to 15° east, 4-12° west. Extremes: 66 and -1°. No precipitation.

Weather beneficial to livestock but could be detrimental to winter wheat.

TENNESSEE: Rain early week and again on weekend. Fair during midweek. Precipitation 0.33 in. west, 0.75 mid-State, 1.25 in. east. Temperatures ranged from 2° below normal east to 4° above normal west.

Tobacco market closed for Christmas. Farmers busy with general farm chores. Soil moisture surplus.

TEXAS: Midweek precipitation fell over most of Texas but clear skies at first, end of week. Temperatures normal far west, upper Coast; above normal elsewhere. North Texas received heaviest rainfall of 2.00 in. while South Texas, Valley received none.

Plains cotton harvest made fair progress. Small grain seedings virtually complete. Trans-Pecos, High Plains, South Texas, lower Rio Grande Valley missed most of precipitation but good rains improved small grain prospects in other areas. Cotton harvest 96% complete. Damp morning delayed completion High Plains, Trans-Pecos harvests; rains caused delays Low Plains. Harvest should be complete in ten days to two weeks. Small grain prospects improved with good rains on Cross-Timbers, Low Plains, Edwards Plateau. Warm weather first of week promoted germination. Insect problems minimal. Grazing availability improved Central, East Texas. Earlier planted Plains wheat began tillering. South Texas growers continue dry seeding in hopes that rains will come. Cotton harvested 96%, 87% 1978, 94% average. Wheat planted 100%, 100% 1978, 100% average; emerged 94%. Pecans harvested 86%, 97% 1978, 96% average. Barley planted 100%, 100% 1978. Flax planted 78%, 100% 1978, 100% average.

Small grain pastures providing adequate forage Central Texas; although heavy supplemental feeding continued most areas. Some pastures South Texas overgrazed; moisture needed additional growth. Early lambing continued Edwards Plateau.

Lower Rio Grande Valley, shipment fall vegetables and citrus continued. Harvest lettuce, cabbage, carrots active. San Antonio-Winter Garden harvest winter vegetables continued. Carrot

harvest underway. Cabbage, broccoli, lettuce to market. Coastal Bend irrigated cabbage fields progressing well. Producers fertilizing fields for spring watermelon planting. East Texas, land preparation underway spring plantings. Some freeze damage to winter vegetables evident. El Paso, onions making good progress. High Plains land preparation spring plantings resumed with open weather. Pecan harvest continued although wet soil conditions delayed mechanical harvesting some areas. Quality mixed; scattered areas nuts remaining in the shuck.

UTAH: Few isolated light showers or snow flurries forepart period. Storm moderate to locally heavy intensity southern third midweek. Amounts light to little or none north and central but locally moderate to heavy southern third. Average temperatures ranged from 7° below normal to 6° above.

Soil moisture conditions improved. Limited farm activities; caring for and feeding livestock, maintaining and repairing farm equipment. Continued sorting and marketing potatoes, onions, apples.

VIRGINIA: Not available.

WASHINGTON: West: Temperatures averaged 2° above normal. Precipitation averaged 1.00 in. below normal.

Pruning of caneberries continued. Hay supplies adequate.

East: Temperatures averaged normal to 4° above normal. Precipitation was near normal in most areas.

Winter wheat in good condition but worries over lack of snowcover continued. Stock feeding and orchard pruning also taking place.

WEST VIRGINIA: Temperatures above normal. Extremes: 13 and 63°. Precipitation above normal south.

Farmwork: 2.4 days suitable. Soil moisture adequate to surplus. Hay, grain, other feeds adequate. Fuels adequate to tight.

WISCONSIN: Not available.

WYOMING: Temperatures above normal. Maximums from 34 to 59°. Minimums from mid-teens to zero. Precipitation above normal at just over half of reporting stations. Heavier precipitation primarily confined to the lower Platte Drainage.

Winter wheat mostly good condition. Supplemental feeding necessary in southeast due to snowcover. Livestock mostly good condition. Stress on livestock minimal due to above normal temperatures. Hay supplies adequate most areas.

International Weather and Crop Summary

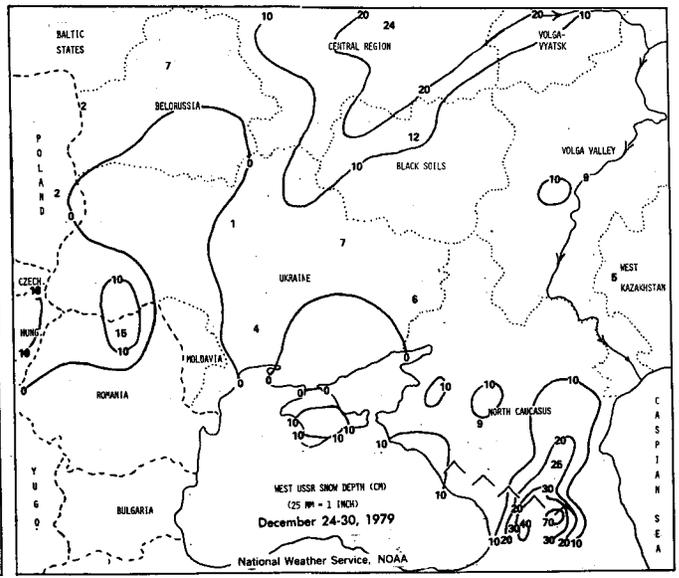
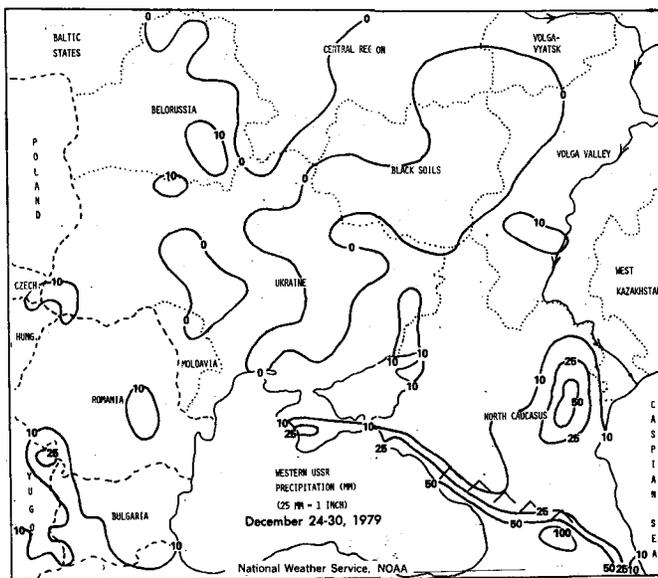
December 24 - 30

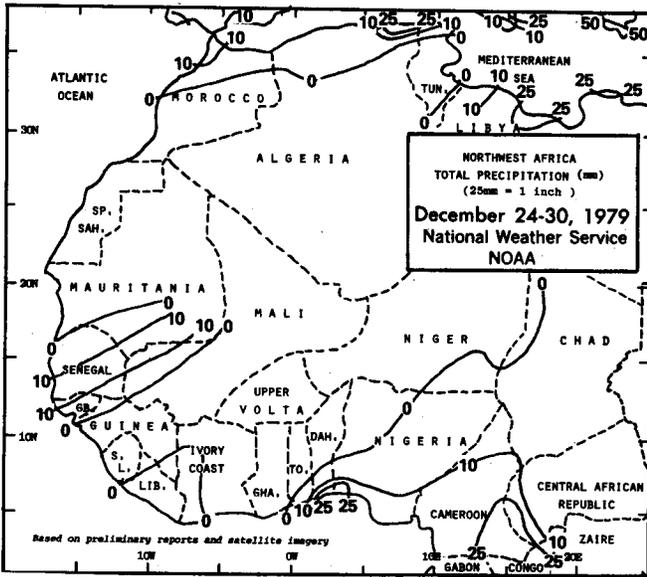
HIGHLIGHTS:

- USSR. Winter grains dormant...increased snowcover.
- EUROPE. Winter grains dormant in central and northern countries...rain over much of Spain.
- CHINA. Winter grains dormant over most of the North China Plain...moisture good in Yangtze Valley.
- INDIA. Wheat-sowing season nearly over*...light rain across the north.
- AUSTRALIA. Harvesting winter grains in the south...some rain in South Australia.
- AFRICA. Northern: sowing winter grains*...adequate soil moisture.
Southern: maize planting nearly complete*...adequate soil moisture.
- ARGENTINA. Harvesting wheat in the south*...some renewed heavy rains.
- BRAZIL. Soybean planting nearly complete...good soil moisture.
- MEXICO. Harvesting fruits and vegetables...sunny and dry.

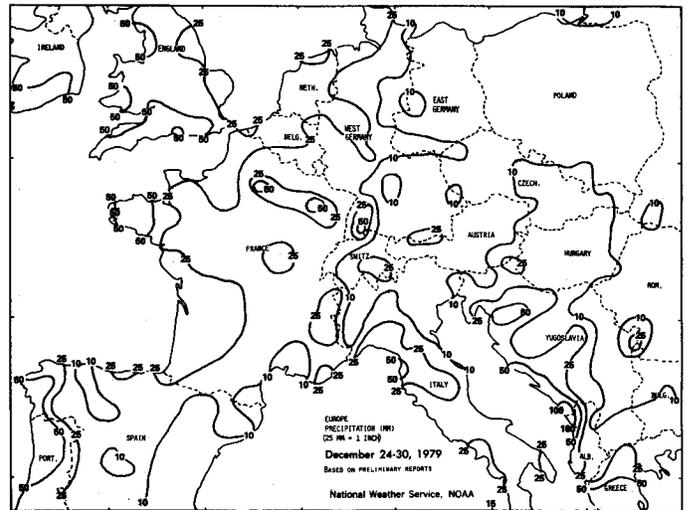
*Based on normal crop calendar information.

USSR. Temperatures decreased to below normal early in the week, and conditions became quite cold on one or two days. Snowcover from the previous week was sufficient to protect winter grains. Some melting occurred in the northeastern Ukraine, but substantial snowdepths of 5-10 cm accumulated in Crimea, Krasnodar Kray, and the southern two-thirds of the North Caucasus, with some areas in the southeast reporting 15-25 cm of snowcover. At week's end, snowfall in the western Ukraine was occurring in advance of a cold front, so winter grains should remain safe.

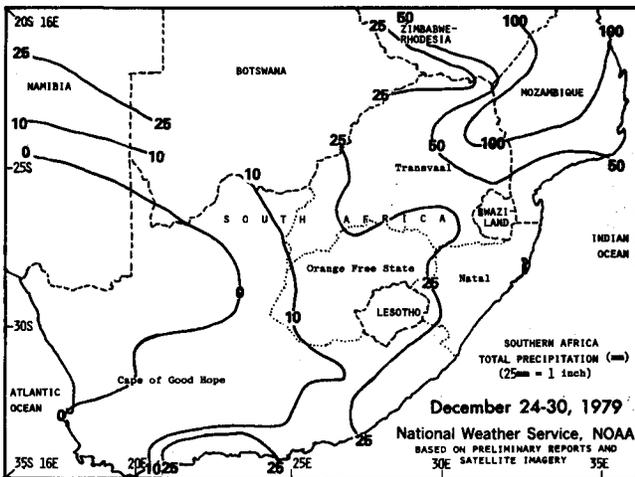


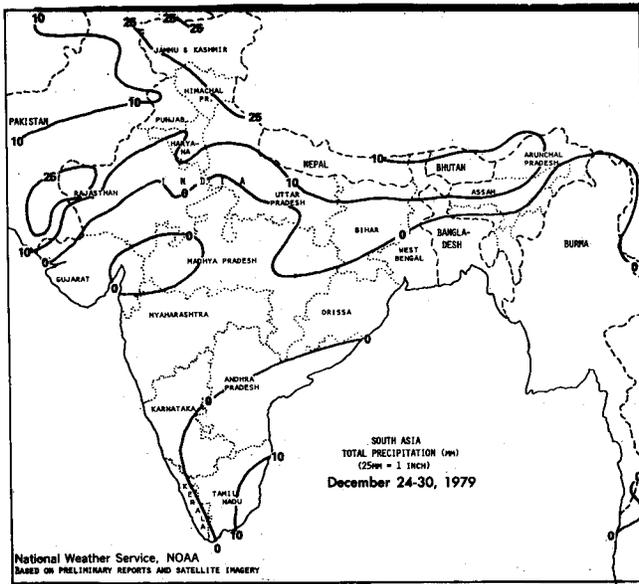


AFRICA. The most intense rainfall in northwestern Africa shifted to the east to Tunisia and eastern Algeria, where weekly totals rose only slightly above normal. Nevertheless, the rains broke a three-week dry spell and improved conditions for winter grains. Morocco and western Algeria received rains of less than 10 mm, but this was not so bad in view of last week's totals. Rainfall of 10-20 mm in southwestern portions of South Africa's Maize Triangle kept soil moisture at adequate levels for maize development. Similar totals in central areas were somewhat below normal for a fifth consecutive week, but moisture remained adequate for the time being. Greater amounts of 20-40 mm in the north and east maintained good growing conditions.



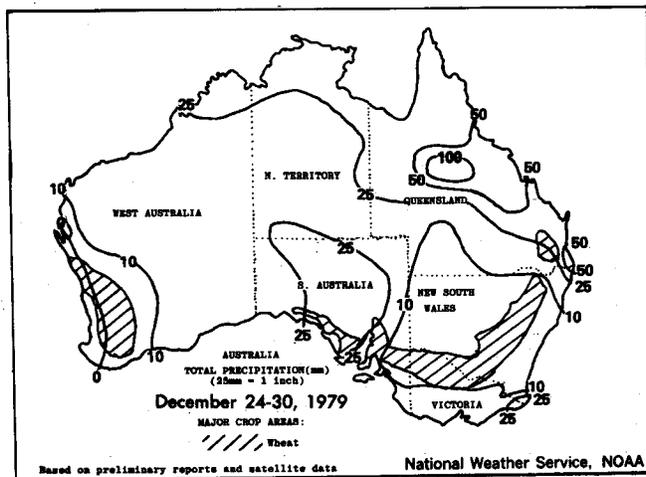
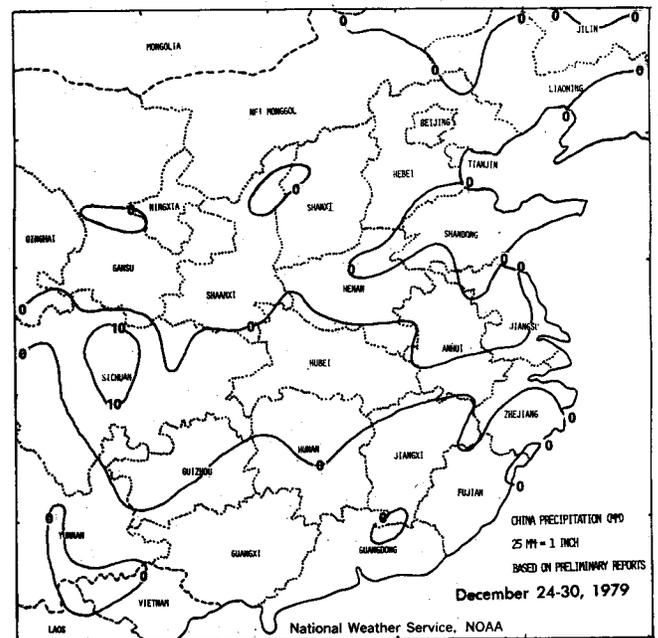
EUROPE. Above-normal precipitation fell over much of the United Kingdom and coastal areas from Denmark through Portugal, as a storm moved in from the Atlantic late in the week. Totals generally did not reach excessive levels and were quite beneficial in the western half of the Iberian Peninsula where temperatures stayed high enough for winter grain growth to continue. Central portions of the continent received near-normal precipitation, while the northeast became relatively dry. The western hills in Yugoslavia saw above-normal precipitation again this week as a strong storm developed in the Mediterranean.



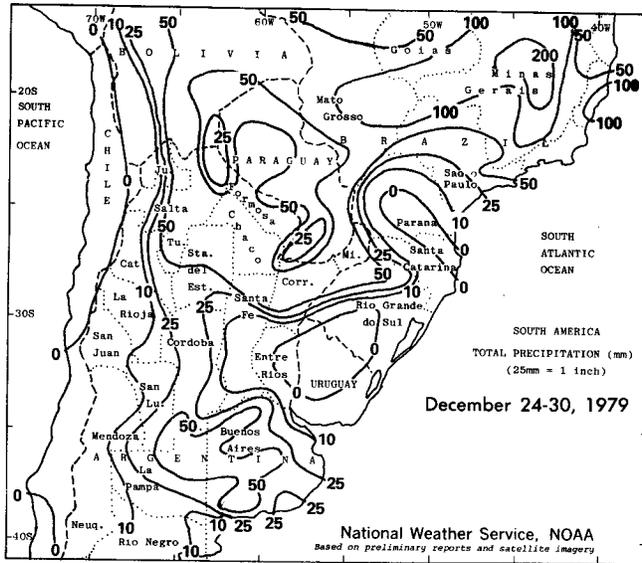


INDIA. Westerly winds brought precipitation to the Himalayas and adjacent winter grain areas. Some moisture normally falls there at this time of year, and the amounts received were sufficient to maintain marginal growing conditions in most areas of Punjab, Haryana, and northern Uttar Pradesh. Near-normal temperatures in major agricultural areas remained high enough for wheat growth.

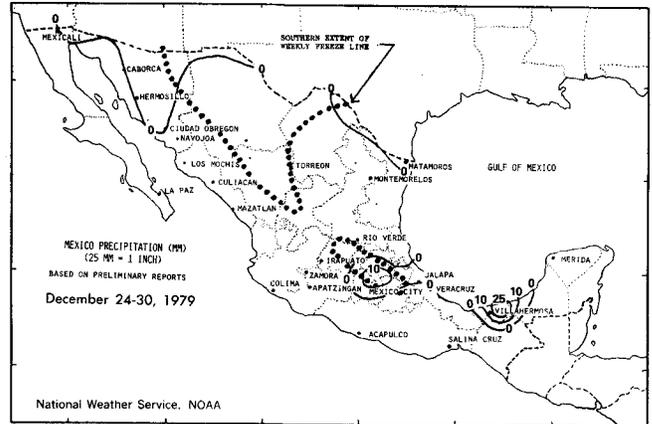
CHINA. Mostly dry weather returned to the North China Plain, and winter wheat remained dormant over most of the area. Light rainfall of less than 5 mm occurred in the lower Yangtze Valley as a follow-up to last week's abundant rains, and conditions south of the river were probably warm enough to permit wheat growth. Continued above-normal rainfall of more than 10 mm in the important Sichuan Valley maintained favorable growing conditions for winter grains.



AUSTRALIA. Two days of thunderstorm activity in southern South Australia may have interfered with late wheat harvest activity. Generally fair weather in Victoria allowed harvest to continue there. Rainfall in northeastern Queensland increased substantially, with 7 days of wet weather alleviating dry conditions in many areas.

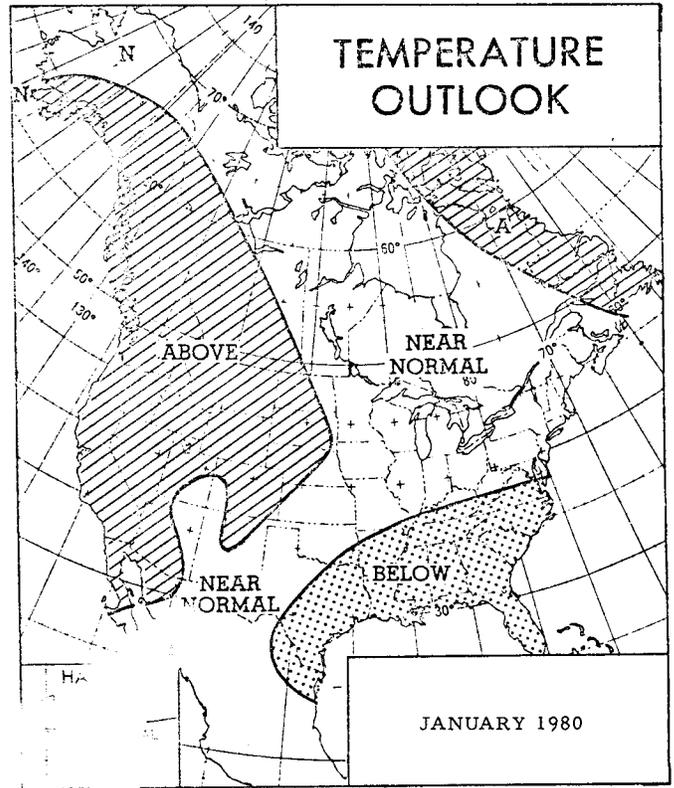
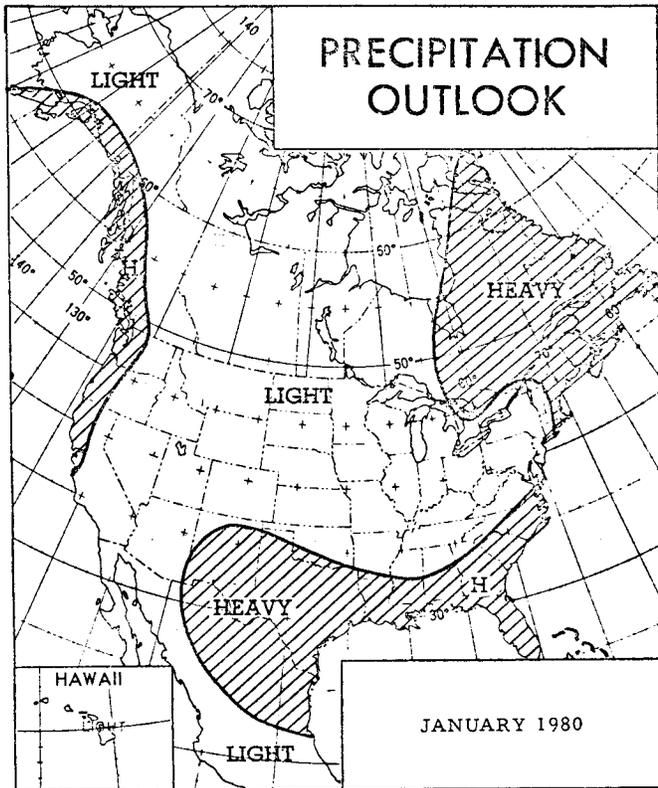


SOUTH AMERICA. Drier weather moved into the Parana soybean area, while abundant rainfall occurred in all other soybean growing areas of southern Brazil. The renewed rains in Rio Grande do Sul benefited soybeans planted during last week's dry spell. In Argentina, heavier than normal rainfall in southern Buenos Aires Province probably interfered with the wheat harvest, but dry weather returned quickly, so delays may have been minimal. These rains extended into northeastern La Pampa, maintaining favorable growing conditions in that normally marginal agricultural area, but heavy thunderstorms accompanied by high winds in northern Buenos Aires Province may have caused more damage to any late, unharvested wheat.



MEXICO. Seasonal weather returned to Mexico this week. Mostly sunny, dry conditions favored harvesting of citrus in the east, strawberries in the central plateau, and vegetables on the west coast. Drought continued in the north with reservoir water levels rather low. The only significant rains were centered around Mexico City and Villahermosa. Culiacan's afternoon maxima averaged 28°C with a relative humidity of a dry 25 percent, while overnight minima averaged 13°C with an 80-percent humidity.

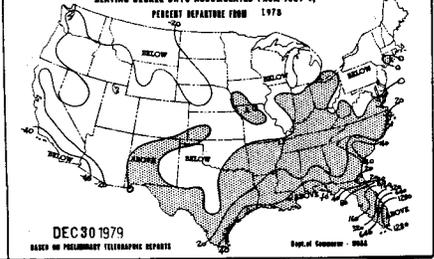
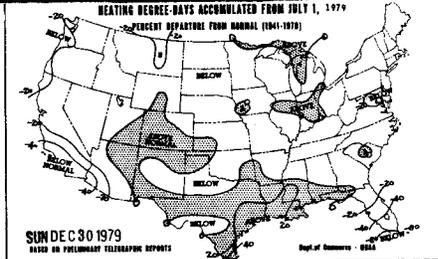
Average Monthly Weather Outlook



HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING DEC. 30, 1979.

BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1979.

Table with columns for STATES AND STATIONS, WEEKLY TOTAL DEPARTURE*, SEASONAL ACCUMULATION +, and WEEKLY SEASONAL ACCUMULATION +. Rows list various states and cities with their corresponding heating degree day data.



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