

Weekly Weather & Crop Bulletin

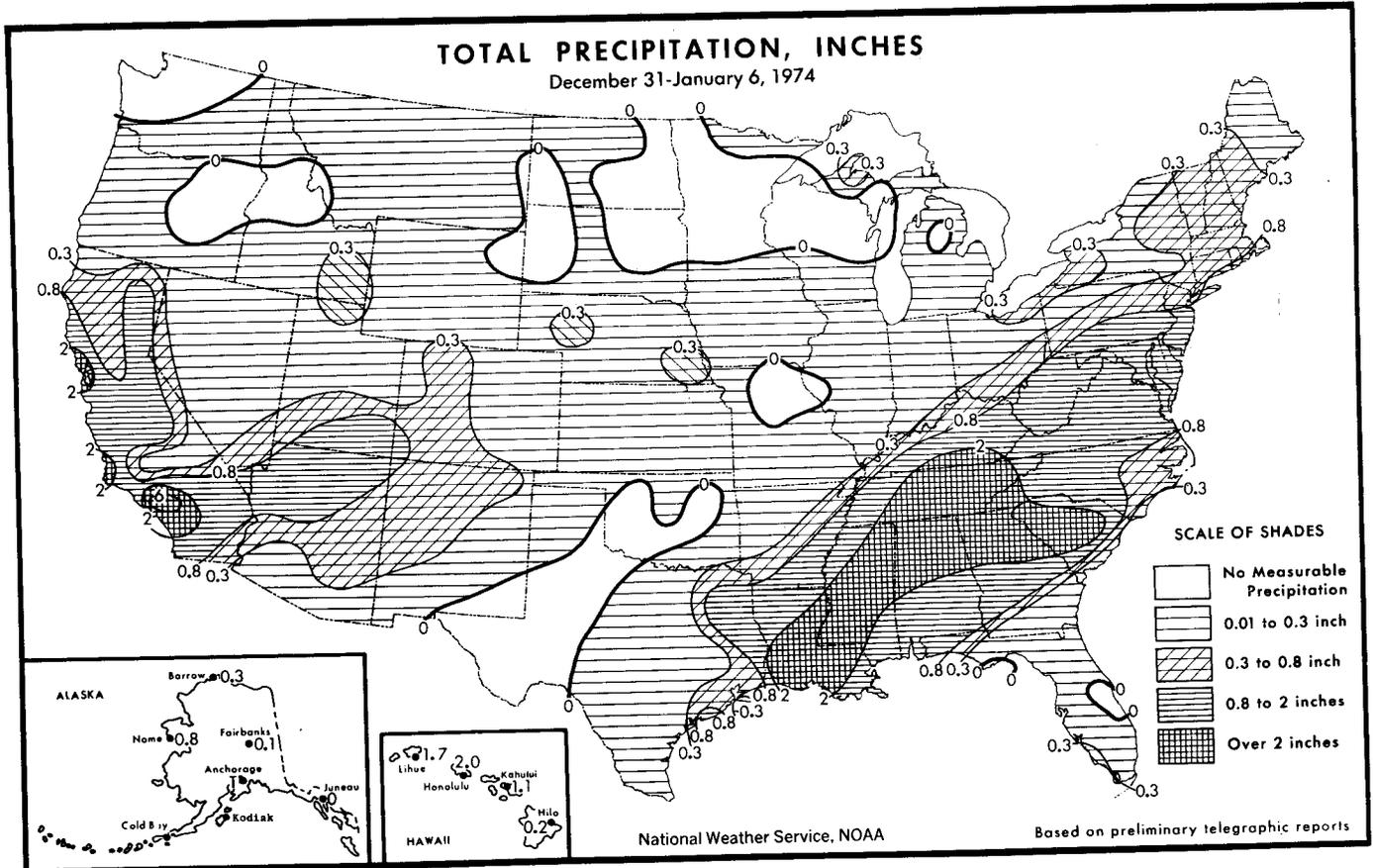
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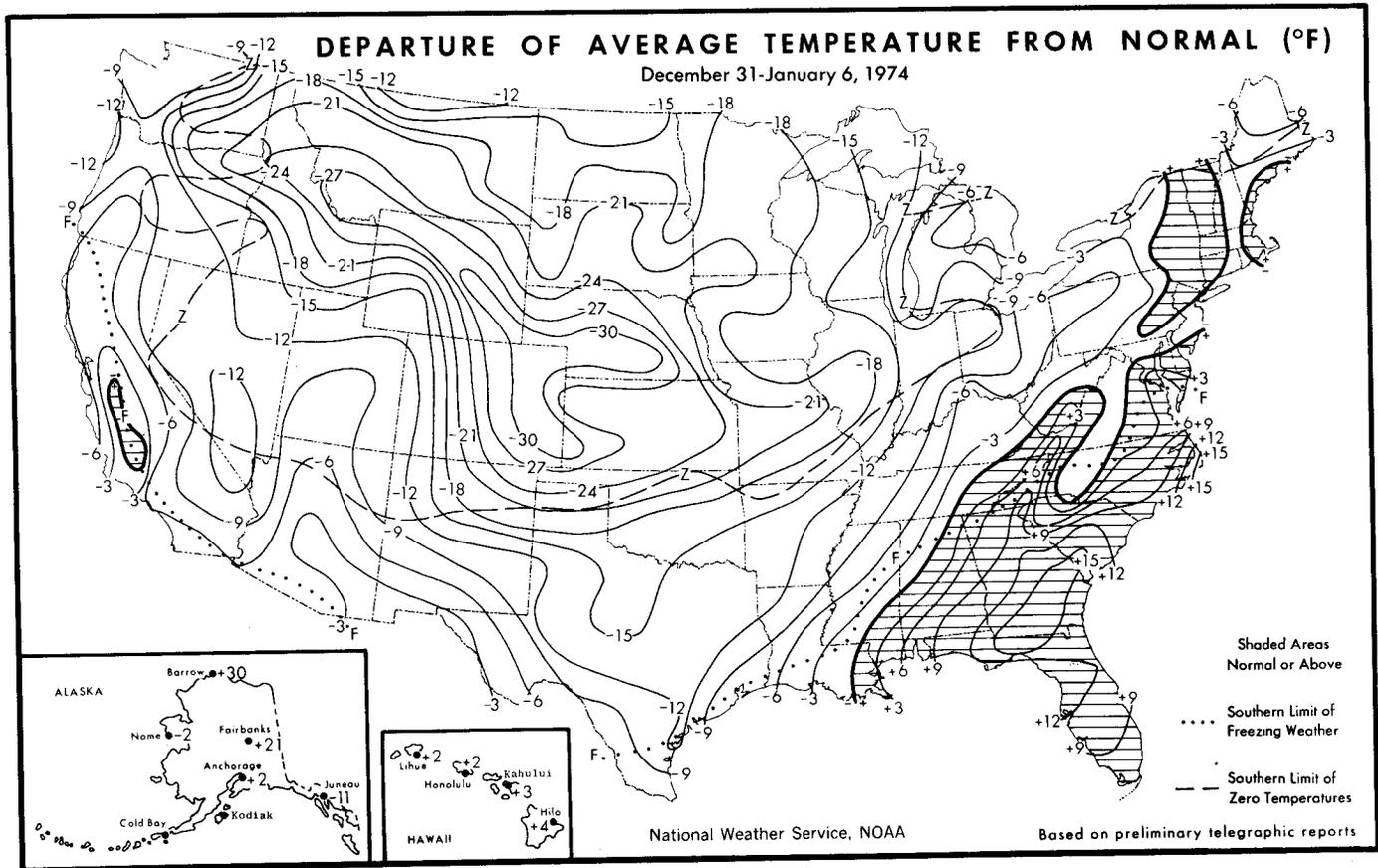
NATIONAL WEATHER SUMMARY

HIGHLIGHTS: Unbelievable cold gripped much of the Nation as temperatures from the Sierras to the Appalachians averaged 10° to 32° below normal. Precipitation was generally light, except in California, and the southeast which was wet and warm as 2.00 in. or more of rain fell across Alabama, Tennessee, Mississippi and Georgia and temperatures averaged 6° to 15° above normal.

PRECIPITATION: Heavy precipitation was confined to California and parts of Arizona and Utah, and most of the southeast, except in Florida and southern Georgia. The heaviest rainfall in the southeast occurred at midweek as Lows over New Mexico and the Gulf brought warm moist air northward, covering the eastern half of the Nation with varying amounts of precipitation, ranging from light in the North to heavy through the lower Mississippi River Valley. A low pressure system moved down the Pacific coast on Thursday and Friday dropping heavy rains as it moved southward; Los Angeles received 4.34 in.

The week began with a High over eastern South Dakota and a Low over Texas combining to produce precipitation, mostly snow, over the southcentral Plains. During the day the snow spread into Oklahoma, Missouri and Arkansas with 10 in. or more in many areas. A Low over Tennessee spread rain over the southeast ranging from 0.50 in. in Virginia to over 2.00 in. in parts of Alabama and Georgia. As the High over the Plains pushed southward on Tuesday, snow spread eastward, although amounts were light. The Low over Tennessee moved up off the Massachusetts coast, bringing snow to much of New England.

Most of the Nation was clear and dry Wednesday except for the southeast. A Low over New Mexico, and southerly winds off the Gulf due to a large High off the Atlantic coast brought moist Gulf air northward into colder air. The result was 1.00 to 2.00 in. across Louisiana and Mississippi. Rainfall amounts included: 2.58 in. at Lake Charles; 1.43 in. at Alexandria, La.; 2.18 in. at Vicksburg, Miss.



The rains continued into Thursday and Friday across the southeast, with the heaviest amounts moving eastward. By Thursday the Low off the California coast was beginning to drop heavy rainfall. Over 1.00 in. fell from Santa Barbara to Oakland. This storm moved slowly down the coast, with the rains continuing through the end of the week.

Saturday was clear through the midsection of the Nation as a large High pressure system kept temperatures on the low side over the weekend. Some snow fell in the Great Lakes area.

TEMPERATURE: Extremely cold temperatures gripped much of the Nation this past week as temperatures averaged at least 10° below normal from the Sierras to the Appalachians and more than 30° below normal in parts of Wyoming, Colorado and Nebraska. Casper, Wyo., averaged 32° below normal with a mean temperature of -9°. The coldest temperature recorded all week in the continental U. S. was -37° at International Falls, Minn., New Year's Day morning, where the average temperature for the week was -17°. The first seven days of January, 1974, have been the coldest in 43 years of record at Kansas City.

The extreme cold early in the week across the northern Plains was the result of the High located over South Dakota which brought Arctic air south-

ward. Monday afternoon temperatures remained below freezing across eastern Montana, North Dakota, Minnesota and northeastern South Dakota and Iowa. New Year's morning temperatures dropped below zero as far south as the Missouri-Arkansas border. Numerous record lows were registered: Minneapolis, Minn., -29°; Lincoln, Neb., -26°; Kansas City, Kans., -12°. These colder temperatures pushed eastward Tuesday as the High moved with subzero temperatures extending into Michigan and Ohio Wednesday morning.

Temperatures in the southeast remained much above normal during this period as the High out over the Atlantic brought warm air into the area. Norfolk, Va., reached 65° New Year's Day, with 70's common in the eastern Carolinas.

A High which had developed over the Rockies moved into the Central Plains early Thursday, reinforcing the flow of Arctic air into the area. As the system moved eastward, temperatures rose into the teens Friday afternoon, the warmest day all week.

The combination of a Low over Saskatchewan and another High over the Rockies kept temperatures very cold over the weekend. Temperatures remained subzero all day Saturday across Montana, North Dakota and northwest Minnesota, and barely exceeded 0° on Sunday.

NATIONAL AGRICULTURAL SUMMARY

AGRICULTURAL HIGHLIGHTS: Snow cover protected most winter wheat fields in the West and North Central States from bitter cold temperatures which increased livestock care and feeding. The Texas cotton harvest advanced to 96% complete, well ahead of average.

SMALL GRAINS: Bitter cold slowed winter wheat growth in the southern Great Plains; however, snow provided protective cover from damaging winds in most of the West and North Central States. The crop was rated in good condition in Nebraska, Colorado and Oklahoma except in western counties. Texas High and Low Plains wheat continued to develop poorly because of dry soil, cold and locally heavy infestations of green bugs.

Montana winter wheat held mostly in good condition south and east and fair to good elsewhere. Snow cover protection varied from poor to good in Montana and was good in Washington. Cold, wet weather retarded small grain growth in much of California and kept these crops in the dormant stage throughout most of the Corn Belt.

Small grain condition improved in the mid-Atlantic States and was mostly good throughout the South despite icy weather. Wet fields restricted grazing in many areas.

COTTON: Extreme cold and snow hampered cotton harvesting in Texas and Oklahoma while harvesting was about complete in other Southern States, New Mexico and the San Joaquin Valley of California.

The Texas cotton harvest advanced to 96% complete by January 6, far ahead of both last year's pace of 82% complete and the 5-year average of 88%. A substantial amount of cotton on the Texas High and Low Plains has been ricked in the field which will extend the ginning season.

Scattered fields of cotton remain for harvest in Alabama, Georgia and South Carolina. In Arizona, cotton harvesting continued at a rapid pace until rain halted operations on Saturday.

OTHER CROPS: Snow slowed harvest of the few remaining corn fields in Nebraska. Only a few scattered fields of corn and soybeans remain in the South. Virtually all crops are harvested in Arkansas and Mississippi. A very small acreage of corn, sorghum grain, and dry beans are left to harvest in California.

Tobacco stripping continued in Kentucky and

southern Maryland. North Carolina farmers prepared tobacco plant beds.

Sugar beets made good progress in Arizona while wet fields hampered potato digging in the delta and central coast areas of California.

FRUITS AND NUTS: The Texas citrus harvest was in full swing again last week following freezing weather in late December. Fruit loss there has been light however, as an increased amount of fruit is going to processors instead of fresh market.

Florida citrus tree condition remains very good to excellent with harvest active; cool weather is needed to aid fruit coloring.

Many California citrus areas got cold weather with temperatures in the 20's, but the duration was not long enough to cause much damage to protected groves. Picking of navel oranges, grapefruit and tangerines was active.

Arizona citrus groves remain in good shape with harvest active.

VEGETABLES: In the Texas Lower Rio Grande Valley, many vegetables were damaged or set back by the December 21 freeze. Some young fields of carrots were lost and also some acreage of lettuce. Damage to the spring onion crop is believed to be minimal. In the Texas Winter Garden area, spinach is trying to recover from the freeze while most onion fields have good stands and are making good progress.

Florida vegetable shipments rebounded following the holiday lull: Tomatoes neared the winter peak, cabbage increased, pepper volume was good, celery was in moderate supply as were escarole, endive, and lettuce.

In California, lettuce gained momentum near Imperial, but neared completion at Palo Verde. Cabbage supplies increased at Imperial and Coachella.

Frost damaged some leafy vegetables in Arizona and fungus caused some cullage on the cauliflower crop.

PASTURES AND LIVESTOCK: Severe cold, snow and ice restricted livestock grazing and greatly increased supplemental feeding over most of the Nation last week. Feed reserves in most places remained adequate.

Despite bitter cold which gripped the Western States and most of the Central Region, livestock were rated in good condition. The adverse weather made livestock care more difficult and slowed weight gains.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., January 6, 1974

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA. Birmingham . . .	44	0	3.4	+2.3	La. Baton Rouge . . .	50	-1	3.0	+1.8	Youngstown . . .	20	-6	.1	-.4
Mobile . . .	59	+8	1.0	-.2	Lake Charles . . .	46	-6	4.0	+2.8	OKLA. Okla. City . . .	21	-16	T	-.3
Montgomery . . .	55	+8	1.4	+ .4	New Orleans . . .	55	+2	1.0	0	Tulsa . . .	19	-18	T	-.4
ALASKA. Anchorage . . .	12	+2	T	-.2	Shreveport . . .	34	-13	1.1	0	OREG. Astoria . . .	29	-12	.2	-2.5
Barrow . . .	16	+30	.3	+ .2	MAINE. Caribou . . .	3	-8	.1	-.4	Burns . . .	13	-12	T	-.4
Fairbanks . . .	8	+21	.1	-.1	Portland . . .	23	+1	.4	-.5	Medford . . .	31	-5	T	-.7
Juneau . . .	13	-11	0	-.9	MD. Baltimore . . .	32	-1	1.0	+ .3	Pendleton . . .	11	-21	T	-.3
Kodiak . . .	---	---	---	---	MASS. Boston . . .	32	+2	.5	-.3	Portland . . .	28	-10	.1	-1.2
Nome . . .	3	-2	.8	+ .6	Chatham . . .	32	---	1.1	---	Salem . . .	28	-11	T	-1.6
ARIZ. Flagstaff . . .	23	-5	1.8	+1.4	MICH. Alpena . . .	13	-6	T	-.5	PA. Allentown . . .	29	+1	.8	+ .1
Phoenix . . .	49	-2	.2	0	Detroit . . .	14	-11	.2	-.3	Erie . . .	22	-4	.4	-.2
Tucson . . .	47	-4	.3	+ .1	Flint . . .	14	-9	.1	-.3	Harrisburg . . .	30	0	1.0	+ .4
Winslow . . .	25	-6	.6	+ .5	Grand Rapids . . .	15	-9	.1	-.3	Philadelphia . . .	32	-1	1.1	+ .5
Yuma . . .	49	-6	.2	+ .1	Houghton Lake . . .	12	-6	T	-.4	Pittsburgh . . .	24	-4	.3	-.3
ARK. Fort Smith . . .	24	-15	.1	-.5	Lansing . . .	14	-10	.2	-.3	Scranton . . .	23	-3	.4	-.1
Little Rock . . .	27	-12	.6	-.4	Marquette . . .	5	-14	T	-.4	R.I. Providence . . .	29	0	.7	-.2
CALIF. Bakersfield . . .	47	+1	.3	0	Muskegon . . .	17	-8	.5	0	S.C. Charleston . . .	60	+12	.1	-.6
Eureka . . .	41	-6	.3	-1.2	S. Ste. Marie . . .	4	-11	.1	-.4	Columbia . . .	58	+13	3.5	+2.7
Fresno . . .	43	-1	1.5	+1.0	MINN. Duluth . . .	10	-19	T	-.2	Greenville . . .	47	+5	2.8	+1.7
Los Angeles . . .	49	-8	4.0	+3.4	Internatl Falls . . .	17	-20	.1	0	S.D. Aberdeen . . .	-9	-19	T	-.2
Red Bluff . . .	38	-6	.4	-.6	Minneapolis . . .	-7	-20	T	-.2	Huron . . .	-5	-18	T	-.1
San Diego . . .	54	-1	1.6	+1.1	Rochester . . .	-6	-20	T	-.2	Rapid City . . .	4	-19	T	-.1
San Francisco . . .	42	-6	2.0	+1.1	St. Cloud . . .	-9	-19	0	-.2	Sioux Falls . . .	-6	-21	.1	0
Stockton . . .	43	-1	.7	0	MISS. Jackson . . .	42	-5	2.5	+1.3	TENN. Chattanooga . . .	43	+3	2.7	+1.5
COLO. Denver . . .	1	-29	.1	0	Meridian . . .	46	0	1.4	+ .2	Knoxville . . .	42	+2	2.8	+1.8
Grand Junction . . .	16	-10	.1	0	MO. Columbia . . .	8	-21	T	-.4	Memphis . . .	29	-11	1.5	+ .3
Pueblo . . .	1	-29	.1	0	Kansas City . . .	5	-23	.1	-.2	Nashville . . .	31	-7	2.4	+1.3
CONN. Bridgeport . . .	31	0	.9	+ .1	St. Louis . . .	12	-19	T	-.4	TEX. Abilene . . .	27	-17	T	-.3
Hartford . . .	26	+1	1.5	-.2	Springfield . . .	14	-19	.1	-.4	Amarillo . . .	17	-19	.2	0
D.C. Washington . . .	38	+3	1.0	+ .4	MONT. Billings . . .	0	-22	.1	0	Austin . . .	37	-13	T	-.6
FLA. Apalachicola . . .	65	+11	T	-.7	Glasgow . . .	-6	-17	.1	0	Beaumont . . .	44	-8	.6	-.7
Daytona Beach . . .	70	+12	.1	---	Great Falls . . .	-2	-23	.3	+ .2	Brownsville . . .	52	-8	T	-.3
Ft. Myers . . .	73	+9	.3	0	Havre . . .	3	-10	.2	+ .1	Corpus Christi . . .	45	-12	T	-.4
Jacksonville . . .	67	+13	.1	-.4	Helena . . .	-2	-24	.3	+ .2	Dallas . . .	---	---	---	---
Key West . . .	77	+6	.6	+ .2	Kaiserspell . . .	-2	-21	T	-.3	Del Rio . . .	41	-9	T	-.3
Lakeland . . .	72	+11	T	-.5	Miles City . . .	-1	-17	.1	0	El Paso . . .	41	-2	T	-.2
Miami . . .	75	+7	.2	-.2	Missoula . . .	-3	-24	T	-.2	Fort Worth . . .	31	-14	T	-.5
Orlando . . .	72	+11	T	-.5	NEBR. Grand Island . . .	-10	-32	.2	+ .1	Galveston . . .	46	-8	.3	-.6
Tallahassee . . .	69	+17	.1	-.7	Lincoln . . .	-6	-28	.4	+ .2	Houston . . .	43	-9	.4	-.5
Tampa . . .	72	+12	.2	-.3	Norfolk . . .	-2	-22	.1	0	Lubbock . . .	27	-12	T	-.1
W. Palm Beach . . .	74	+8	.2	---	N. Platte . . .	-7	-30	.1	0	Midland . . .	31	-13	T	-.2
GA. Atlanta . . .	49	+7	3.4	+2.4	Omaha . . .	2	-19	.2	0	San Angelo . . .	32	-14	.1	-.1
Augusta . . .	57	+12	2.2	+1.5	Valentine . . .	-3	-24	.1	0	San Antonio . . .	41	-10	T	-.4
Macon . . .	59	+12	1.5	+ .7	NEV. Ely . . .	13	-11	.1	-.1	Victoria . . .	43	-11	.1	-.6
Savannah . . .	63	+14	.1	-.6	Las Vegas . . .	31	-12	.8	+ .7	Waco . . .	33	-14	T	-.7
HAWAII. Hilo . . .	75	+4	.2	-3.1	Reno . . .	21	-10	.6	+ .4	Wichita Falls . . .	26	-15	T	-.3
Honolulu . . .	75	+2	2.0	+1.2	Winnemucca . . .	17	-11	.2	0	UTAH. Blanding . . .	16	-11	1.7	+1.4
Kahului . . .	75	+3	1.1	0	N.H. Concord . . .	20	-1	.6	-.1	Salt Lake City . . .	15	-13	.3	0
Lihue . . .	74	+2	1.7	+ .5	N.J. Atlantic City . . .	34	+1	1.3	+ .5	VT. Burlington . . .	20	+2	.3	-.2
IDAHO. Boise . . .	15	-14	.1	-.2	Trenton . . .	32	-1	T	-.6	VA. Lynchburg . . .	36	0	1.0	+ .2
Lewiston . . .	8	-23	.1	-.1	N.MEX. Albuquerque . . .	19	-15	.4	+ .3	Norfolk . . .	43	+3	1.2	+ .5
Pocatello . . .	2	-21	.4	+ .1	Roswell . . .	27	-10	T	-.1	Richmond . . .	39	+2	1.7	+1.0
ILL. Cairo . . .	22	-14	.3	-.5	N.Y. Albany . . .	23	+1	.4	-.1	Roanoke . . .	37	+1	.9	+ .2
Chicago . . .	10	-15	.1	-.3	Binghamton . . .	22	0	.1	-.4	WASH. Colville . . .	9	-16	.2	-.3
Moline . . .	6	-16	.2	-.2	Buffalo . . .	21	-3	.4	-.2	Omak . . .	15	-7	0	-.3
Peoria . . .	6	-18	.1	-.3	New York . . .	33	0	.6	-.2	Quillayute . . .	31	-8	0	-4.4
Rockford . . .	5	-16	.1	-.4	Rochester . . .	21	-4	.2	-.3	Seattle-Tacoma . . .	31	-7	T	-1.3
Springfield . . .	8	-19	T	-.5	Syracuse . . .	22	-2	.2	-.5	Spokane . . .	6	-19	.2	-.4
IND. Evansville . . .	21	-12	.2	-.6	N.C. Asheville . . .	46	+9	1.9	+1.2	Walla Walla . . .	13	-20	T	-.5
Ft. Wayne . . .	12	-14	.1	-.5	Charlotte . . .	45	-1	1.5	+ .6	Yakima . . .	10	-17	T	-.2
Indianapolis . . .	16	-12	.1	-.3	Greensboro . . .	41	0	1.2	+ .5	W.Va. Beckley . . .	36	+5	1.6	+ .5
South Bend . . .	15	-9	.2	-.3	Hatteras . . .	55	+17	.5	-.5	Charleston . . .	33	-1	1.8	+ .9
IOWA. Burlington . . .	7	-16	.1	-.2	Raleigh . . .	44	+4	.8	+ .1	Huntington . . .	29	-5	1.5	+ .7
Des Moines . . .	3	-17	.2	-.1	Wilmington . . .	56	+10	.2	-.5	Parkersburg . . .	27	-6	.9	+ .3
Dubuque . . .	2	-16	.1	-.3	N.DAK. Bismarck . . .	-10	-19	T	-.1	WIS. Green Bay . . .	1	-15	T	-.3
Sioux City . . .	-1	-19	.1	-.1	Fargo . . .	-11	-18	T	-.1	La Crosse . . .	1	-16	.1	-.2
KANS. Concordia . . .	2	-24	.2	0	Williston . . .	-8	-17	T	-.1	Madison . . .	4	-13	.1	-.2
Dodge City . . .	2	-29	.2	+ .1	OHIO. Akron-Canton . . .	20	-7	.2	-.4	Milwaukee . . .	7	-13	T	-.4
Goodland . . .	2	-26	.1	0	Cincinnati . . .	22	-5	.4	-.2	WYO. Casper . . .	-9	-32	.2	+ .1
Topeka . . .	3	-25	.2	-.1	Cleveland . . .	20	-8	.5	0	Cheyenne . . .	-1	-28	.1	0
Wichita . . .	7	-24	.2	0	Columbus . . .	21	-10	.2	-.4	Lander . . .	-4	-23	.1	0
KY. Lexington . . .	28	-5	.8	-.2	Dayton . . .	18	-10	.3	-.2	Sheridan . . .	-4	-25	T	-.1
Louisville . . .	26	-7	.8	0	Toledo . . .	12	-13	.2	-.3	P.R. San Juan . . .	78	+2	.4	-.6

Based on 1940-71 normals

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Dec. 30, 1973

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA. Birmingham . . .	52	+ 5	3.7	+2.6	La. Baton Rouge . . .	60	+ 4	5.6	+4.5	Youngstown . . .	35	+ 7	.8	+ .3
Mobile . . .	61	+ 7	2.2	+1.0	Lake Charles . . .	56	+ 2	1.8	+ .5	OKLA. Okla. City . . .	37	- 2	T	- .3
Montgomery . . .	54	+ 6	1.1	0	New Orleans . . .	62	+ 7	5.2	+4.3	Tulsa . . .	37	- 1	1.1	- .2
ALASKA. Anchorage . . .	27	+14	.2	0	Shreveport . . .	50	+ 1	.3	- .9	OREG. Astoria . . .	43	+ 1	5.3	+2.3
Barrow . . .	-2	+11	T	- .1	Portland . . .	23	+11	.8	+ .3	Burns . . .	33	+ 5	.9	+ .6
Fairbanks . . .	-7	+17	T	- .1	MD. Baltimore . . .	41	+ 6	1.7	0	Medford . . .	43	+ 7	.9	+ .1
Juneau . . .	---	---	---	---	MASS. Boston . . .	41	+11	1.2	+ .4	Pendleton . . .	37	+ 2	1.1	+ .8
Kodiak . . .	---	---	---	---	Chatham . . .	42	---	.8	---	Portland . . .	42	+ 2	3.1	+1.7
Nome . . .	22	+17	.9	+ .7	MICH. Alpena . . .	26	+ 4	.5	+ .1	Salem . . .	43	+ 3	1.9	+ .2
ARIZ. Flagstaff . . .	31	- 5	0	- .4	Detroit . . .	32	+ 5	1.2	+ .7	PA. Allentown . . .	37	+ 8	1.0	+ .3
Phoenix . . .	49	- 2	0	- .2	Flint . . .	30	+ 6	1.2	+ .8	Erie . . .	35	+ 8	1.1	+ .5
Tucson . . .	35	+ 4	0	- .1	Grand Rapids . . .	30	+ 4	1.1	+ .7	Harrisburg . . .	37	+ 5	.9	+ .3
Winslow . . .	35	+ 4	0	- .1	Houghton Lake . . .	26	+ 5	.7	+ .3	Philadelphia . . .	42	+10	1.0	+ .4
Yuma . . .	55	+ 1	0	- .1	Lansing . . .	31	+ 5	1.0	+ .6	Pittsburgh . . .	39	+10	.4	- .2
ARK. Fort Smith . . .	40	- 1	T	- .7	Marquette . . .	24	+ 2	.7	+ .3	Scranton . . .	35	+ 7	1.1	+ .6
Little Rock . . .	44	+ 3	.8	- .1	Muskegon . . .	30	+ 2	.9	+ .5	R.I. Providence . . .	41	+11	1.1	+ .3
CALIF. Bakersfield . . .	54	+ 6	.1	- .1	S. Ste. Marie . . .	23	+ 5	1.4	+ .9	S.C. Charleston . . .	57	+ 8	.4	- .2
Eureka . . .	49	+ 1	1.8	+ .2	MINN. Duluth . . .	15	+ 4	.2	- .1	Columbia . . .	56	+10	1.0	+ .2
Fresno . . .	50	+ 4	1.0	+ .5	Internatl Falls . . .	11	+ 5	.2	0	Greenville . . .	45	+ 2	2.2	+1.2
Los Angeles . . .	57	0	0	- .6	Minneapolis . . .	17	+ 2	.7	+ .5	S.D. Aberdeen . . .	11	- 3	.1	0
Red Bluff . . .	50	+ 4	1.2	+ .2	Rochester . . .	17	+ 1	.5	+ .3	Huron . . .	13	- 4	.3	+ .2
San Diego . . .	57	0	T	- .6	St. Cloud . . .	13	- 1	.5	+ .3	Rapid City . . .	17	- 9	0	- .1
San Francisco . . .	53	+ 4	1.7	+ .8	MISS. Jackson . . .	56	+ 8	4.6	+3.4	Sioux Falls . . .	12	- 7	.3	+ .2
Stockton . . .	51	+ 6	1.9	+1.2	Meridian . . .	57	+ 9	10.0	+8.8	TENN. Chattanooga . . .	48	+ 6	4.1	+2.9
COLO. Denver . . .	28	- 7	.3	+ .2	MO. Columbia . . .	34	+ 4	1.2	+ .8	Knoxville . . .	43	+ 2	3.6	+2.6
Grand Junction . . .	24	+ 1	.2	+ .1	Kansas City . . .	30	- 4	.8	+ .4	Memphis . . .	47	+ 5	2.7	+1.5
Pueblo . . .	29	- 2	.3	+ .2	St. Louis . . .	29	- 4	1.1	+ .7	Nashville . . .	47	+ 6	1.6	+ .6
CONN. Bridgeport . . .	40	+ 9	1.4	+ .7	Springfield . . .	35	- 1	.9	+ .4	TEX. Abilene . . .	46	+ 1	0	- .3
Hartford . . .	34	+ 6	1.0	+ .3	MONT. Billings . . .	22	- 5	.8	+ .7	Amarillo . . .	35	- 3	T	- .2
D.C. Washington . . .	47	+10	.7	+ .1	Glasgow . . .	10	- 6	.1	0	Austin . . .	54	+ 2	0	- .6
FLA. Apalachicola . . .	59	+ 4	.6	- .1	Great Falls . . .	18	- 8	.7	+ .6	Beaumont . . .	55	+ 1	.4	- .8
Daytona Beach . . .	66	+ 7	.4	---	Havre . . .	19	- 1	.1	0	Brownsville . . .	65	+ 3	T	- .4
Ft. Myers . . .	70	+ 6	T	- .3	Helena . . .	21	- 2	.5	+ .4	Corpus Christi . . .	62	+ 3	T	- .5
Jacksonville . . .	61	+ 6	1.0	+ .5	Kalispell . . .	22	- 1	.3	0	Dallas . . .	---	---	---	---
Key West . . .	75	+ 5	.1	- .3	Miles City . . .	20	- 1	.2	+ .1	Del Rio . . .	53	+ 1	T	- .3
Lakeland . . .	68	+ 6	.4	- .1	Missoula . . .	27	+ 5	.7	+ .5	El Paso . . .	47	+ 4	0	- .1
Miami . . .	74	+ 6	T	- .4	NEBR. Grand Island . . .	16	- 9	1.1	+1.0	Fort Worth . . .	48	+ 1	0	- .6
Orlando . . .	68	+ 8	.7	+ .2	Lincoln . . .	19	-10	.7	+ .5	Galveston . . .	58	+ 1	.5	- .5
Tallahassee . . .	59	+ 6	2.6	+1.7	Norfolk . . .	18	- 5	.5	+ .4	Houston . . .	55	+ 3	.2	- .8
Tampa . . .	68	+ 6	1.8	+1.4	N. Platte . . .	14	-12	.7	+ .6	Lubbock . . .	40	0	T	- .2
W. Palm Beach . . .	73	+ 5	.1	---	Omaha . . .	21	- 4	.7	+ .5	Midland . . .	47	+ 2	0	- .2
GA. Atlanta . . .	49	+ 5	2.3	+1.2	Valentine . . .	17	- 6	.8	+ .7	San Angelo . . .	51	+ 4	0	- .2
Augusta . . .	53	+ 7	.7	- .1	NEV. Ely . . .	27	+ 2	.3	+ .1	San Antonio . . .	54	+ 1	0	- .4
Macon . . .	56	+ 8	.8	- .1	Las Vegas . . .	44	0	0	- .2	Victoria . . .	59	+ 2	.3	- .4
Savannah . . .	57	+ 7	1.2	+ .5	Reno . . .	42	+11	T	- .1	Waco . . .	50	+ 1	0	- .7
HAWAII. Hilo . . .	74	+ 3	3.0	- .5	Winnemucca . . .	37	+ 8	.7	+ .5	Wichita Falls . . .	49	+ 6	T	- .3
Honolulu . . .	73	0	1.7	+ .9	N.H. Concord . . .	29	+ 7	1.2	+ .5	UTAH. Blanding . . .	28	0	T	- .3
Kahului . . .	73	+ 1	.4	- .8	N.J. Atlantic City . . .	45	+10	.3	- .4	Salt Lake City . . .	32	+ 3	.7	+ .4
Lihue . . .	73	+ 1	1.3	+ .1	Trenton . . .	42	+ 8	1.2	+ .5	VT. Burlington . . .	31	+13	.8	+ .4
IDAHO. Boise . . .	34	+ 3	.9	+ .6	N.MEX. Albuquerque . . .	32	- 4	0	- .1	VA. Lynchburg . . .	43	+ 5	.5	- .3
Lewiston . . .	34	0	.9	+ .6	Roswell . . .	43	+ 5	0	- .1	Norfolk . . .	52	+11	.2	- .4
Pocatello . . .	27	+ 1	.5	+ .3	N.Y. Albany . . .	29	+ 5	1.1	+ .5	Richmond . . .	47	+ 8	.1	- .6
ILL. Cairo . . .	40	+ 1	3.7	+2.9	Binghamton . . .	32	+ 7	.7	+ .2	Roanoke . . .	43	+ 5	1.0	+ .3
Chicago . . .	30	+ 3	1.0	+ .6	Buffalo . . .	33	+ 7	1.4	+ .7	WASH. Colville . . .	26	0	.6	+ .2
Moline . . .	29	+ 4	1.0	+ .6	New York . . .	42	+ 8	1.1	+ .3	Omak . . .	27	+ 4	.7	+ .4
Peoria . . .	29	+ 2	.8	+ .4	Rochester . . .	35	+ 9	1.0	+ .4	Quillayute . . .	40	0	2.1	-1.7
Rockford . . .	27	+ 4	.7	+ .3	Syracuse . . .	31	+ 6	1.1	+ .4	Seattle-Tacoma . . .	41	+ 1	1.8	+ .4
Springfield . . .	33	+ 2	.7	+ .3	N.C. Asheville . . .	45	+ 6	3.0	+2.3	Spokane . . .	27	- 2	.8	+ .3
IND. Evansville . . .	38	+ 3	2.2	+1.5	Charlotte . . .	47	+ 5	.8	- .1	Walla Walla . . .	37	0	1.3	+ .9
Ft. Wayne . . .	28	+ 1	1.8	+1.3	Greensboro . . .	44	+ 5	.7	0	Yakima . . .	28	- 2	1.2	+ .9
Indianapolis . . .	34	+ 4	2.0	+1.4	Hatteras . . .	56	+ 9	.1	-1.0	W. Va. Beckley . . .	41	+ 7	2.0	+1.1
South Bend . . .	31	+ 4	1.2	+ .7	Raleigh . . .	48	+ 7	.4	- .3	Charleston . . .	47	+11	1.6	+ .9
IOWA. Burlington . . .	29	+ 2	.8	+ .5	Wilmington . . .	55	+ 8	.3	- .5	Huntington . . .	45	+ 8	1.0	+ .3
Des Moines . . .	25	+ 2	.6	+ .4	N. DAK. Bismarck . . .	8	- 7	T	- .1	Parkersburg . . .	44	+ 9	.8	+ .2
Dubuque . . .	23	- 2	.6	+ .2	Fargo . . .	9	- 3	.1	0	WIS. Green Bay . . .	23	+ 4	1.1	+ .8
Sioux City . . .	19	- 3	.5	+ .3	Williston . . .	9	- 5	.1	0	La Crosse . . .	21	+ 2	.9	+ .6
KANS. Concordia . . .	23	- 7	1.0	+ .8	OHIO. Akron-Canton . . .	36	+ 7	.7	+ .2	Madison . . .	25	+ 5	.7	+ .4
Dodge City . . .	24	- 9	.4	+ .3	Cincinnati . . .	39	+ 7	1.0	+ .5	Milwaukee . . .	28	+ 5	.9	+ .6
Goodland . . .	22	- 7	.6	+ .5	Cleveland . . .	38	+ 9	1.0	+ .5	WYO. Casper . . .	17	- 9	.2	+ .1
Topeka . . .	29	- 2	1.1	+ .8	Columbus . . .	38	+ 8	.9	+ .4	Cheyenne . . .	20	- 8	.4	+ .3
Wichita . . .	30	- 4	3.2	+3.0	Dayton . . .	36	+ 6	1.6	+ .9	Lander . . .	20	- 2	.2	+ .2
KY. Lexington . . .	43	+ 8	1.1	+ .3	Toledo . . .	29	+ 2	1.3	+ .9	Sheridan . . .	18	- 7	.4	+ .3
Louisville . . .	43	+ 8	.8	0						P.R. San Juan . . .	78	+ 1	.4	- .6

CONDENSED STATE SUMMARIES

The Bulletin capsulizes nationally important weather and crop conditions. Every Monday SRS publishes more detailed data in State Weekly Weather and Crop Bulletins in cooperation with the National Weather Service, NOAA. Voluntary weather observers, crop reporters, and county extension agents contribute weekly observations for these reports.

ALABAMA: Persistent cloudiness and frequent rains Statewide throughout week. Over 3.00 in. rain southeast on New Year's Eve, Dothan deluged with 6.24 in. in 24 hours. Statewide temperatures slightly above normal.

Farm activities seasonally low and limited by wet weather. Farmers fed and cared for livestock, poultry. Few scattered fields cotton, corn and soybeans remained for harvest. Small grains and winter grazing crops satisfactory. Recent cold caused little damage. Boggy fields limited grazing; nitrogen applied as weather permitted. Livestock remained fair to good despite cold, wet weather. Considerable hay fed in lieu of high priced concentrates, but supplies of roughages adequate most farms.

ARIZONA: Storms statewide dropped moderate to heavy moisture from 0.10 in. southeast to 2.00 in. Mogollon Rim of White Mountains and 18 in., new snow higher elevations Friday and Saturday. Snow cover 29 in. White Mountains. Temperatures nearly normal southeast, 2° to 6° subnormal southwest, 5° to 10° subnormal north. Warmest days Monday, Tuesday. Daytime readings near 60° southern deserts. Coldest Thursday morning with 20° below zero high in White Mountains.

Cotton harvest continued rapid pace until Saturday when State received rain. Harvest, scrapping, residue disposal will continue after ground dries. Sorghum harvest completed Yuma. Sugar beets good progress. Small grains emergence, stand establishment, plant growth normal. Planting and preparation for later plantings continued after rains. Alfalfa hay fields good condition, harvest at seasonal low. Lettuce harvest continued Salt River Valley, Yuma, but wet fields slowed picking. Some frost damage to leafy vegetables. Fungus on cauliflower crop causing some cullage. Unidentified condition affecting broccoli crop, causing limited damage.

Citrus harvest continued Salt River Valley, Yuma. Groves both areas remain generally good. Ranges received rain, snow. High ranges north, east snow covered; hauling feed to livestock. Low ranges light snow, rain. Desert ranges scattered precipitation. Stockwater adequate. Cattle, calves good to fair. Sheep, lambs fair to good. Lambing on desert pastures about complete. Docking, marking new crop lambs underway.

ARKANSAS: Ice storm 2nd and 3rd hit all but northwest corner, wide-spread disruption of travel. Considerable power and telephone line damage southcentral and southeast. Precipitation very light northwest, to over 2.00 in. portions southcentral and southeast. Largest total 2.79 in. Arkansas City. Temperatures much below normal; averaged low 20's north to low 30's south. Much colder early week, moderating on weekend. Extremes: 47° Hot Springs on 6th, 0° at Harrison on 1st and Gilbert on 2nd.

Virtually all crops harvested. Ice storms kept most farmers inside during past week limiting activities to routine chores and caring for livestock. Supplemental feeding increased while livestock could not get on winter pasture.

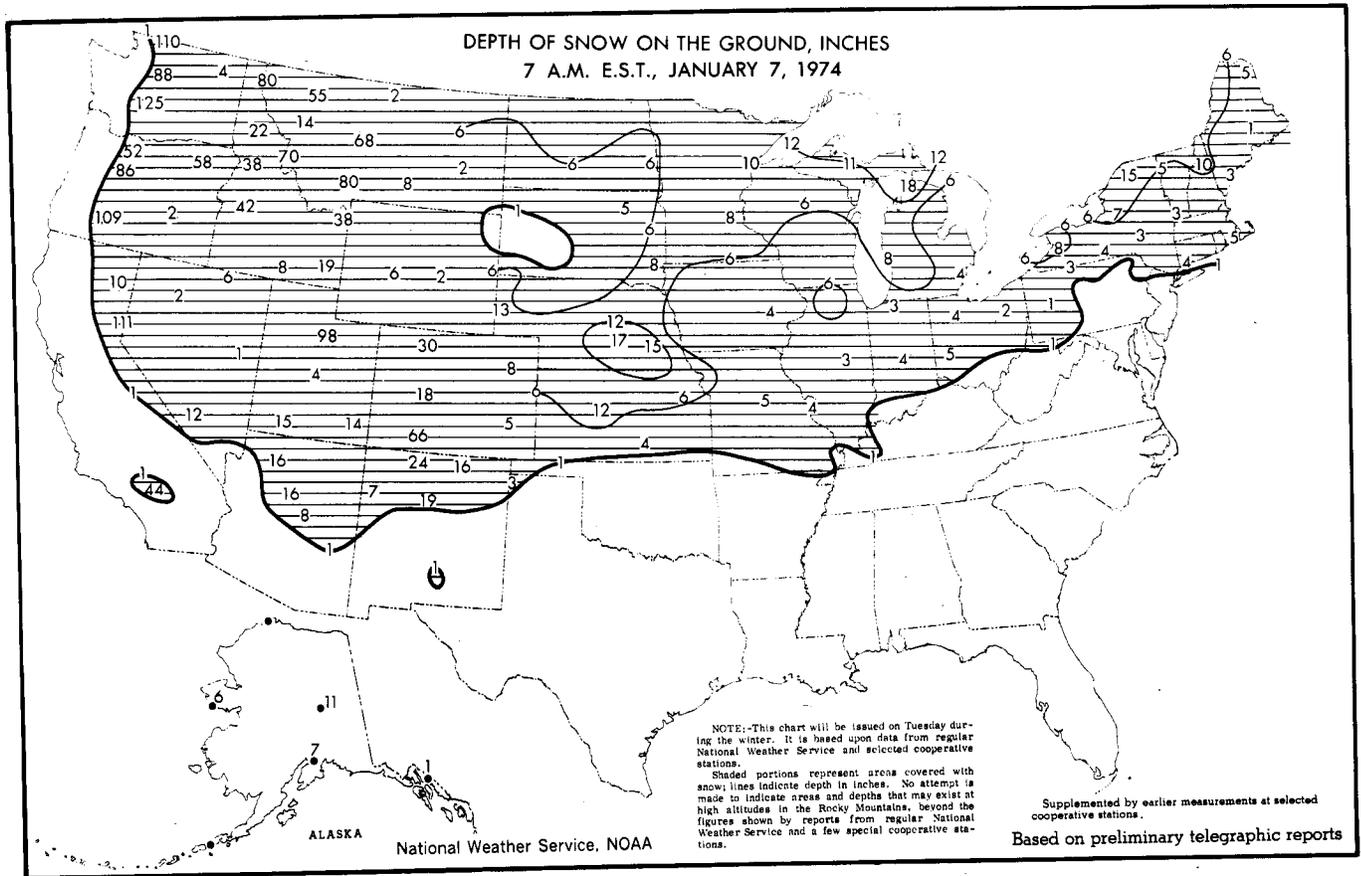
CALIFORNIA: Extremely cold air began streaming southward over weekend. Balmy temperatures south dropped sharply and by end of week almost entire State had freezing temperatures or lower including desert regions. Many stations southern two-thirds reported weekly rainfall amounts of 1.00 in. or better. Most areas of State have seasonal totals well above normal.

Cool, wet weather retarded growth small grains, halted fieldwork Sacramento Valley, north coast. Some yellowing in poorly drained fields. Cotton picking near complete San Joaquin Valley, continued active desert. Very small acreage field corn, sorghum grain, dry beans left. Cold, wet weather last two weeks slowed normal winter activities north. San Joaquin Valley, southern California growers used frost protection equipment mornings January 2 and 3. Many citrus areas had low 20's, but durations not long enough to cause much damage to protected groves. Harvest navel orange crop active, recent cold weather helped fruit color. Lemon harvest neared completion San Joaquin Valley, over half complete desert valleys. Southern district picking slow. Picking grapefruit, tangerines continued active. Artichokes light. Broccoli Salinas Valley light, Santa Maria heavy. Salinas cauliflower diverted to freezers, fresh shipments heavier south. Cabbage increased Imperial, Coachella. Carrots continued, most volume from Kern, West Riverside. Celery completed Salinas, heavy south coast. Imperial lettuce continued gaining momentum, Palo Verde winding up. Potato digging Delta, central coast hampered by wet fields. Growth range feed retarded by freezing weather. Snow on low elevation ranges increased supplemental feeding. Spring ranges expected excellent. Stockwater, soil moisture supplies abundant. Dairies, feedlots have severe mud problems as rain continues. Livestock good.

COLORADO: Major snow storm hit eastern Colorado December 23, paralyzing Denver with a fall of 12 in. and 8 foot drifts. This same storm dumped 20 in. snow at Walsenburg. Extreme cold and deep snow cover prevailed past week. Variable cloudiness with light snow low elevations and considerable snowfall mountains where avalanche warnings were in effect with numerous occurrences.

Temperatures 5° to 16° subnormal mountains, west and southcentral, 16° to 25° subnormal east. Lows in 15° to 25° below zero range east. Most precipitation southwest, lightest in Platte Drainage. All moisture as snow with 4 to 8 in. falling Saturday and Sunday and over 10 in. mountains Tuesday and Wednesday.

Heavy snow past two weeks plus extreme cold past week limited farm activity to feeding livestock and chopping ice. Snow covered most fields and pastures during period limiting livestock grazing. Winter wheat growth slow, only 6% pastured. Condition winter wheat, winter barley mostly good except southeast with greenbug damage and southwest corner dry. Livestock good, supplemental feeding necessary most areas.



FLORIDA: Cold early in week ending December 30, warming trend later. Temperatures averaged near to slightly below normal and precipitation heavy north, moderate central and light south. Temperatures much above normal for entire period ending January 6. Light precipitation mainly last half of period.

Soil moisture adequate over most of State, short in south. Harvest of field crops mostly complete except sugarcane harvest which moved as rapidly as possible. Some land prepared for spring planting. Tobacco bed preparation and seeding about completed. Small grains fair.

Citrus tree condition very good to excellent, cool weather needed, harvest active. Pastures poor to good. Cattle and calves fair to good. Vegetable shipments rebounded following holiday lull. Tomatoes near winter peak. Cabbage increasing; pepper volume good; celery moderate; eggplant, cucumbers seasonally light. First loading strawberries, potatoes showing up. Escarole, endive, lettuces in moderate supply.

GEORGIA: Temperatures near normal north, 6° to 8° above central, and 8° to 12° above south. Cool early week, mild to warm thereafter. Rainfall heavy to excessive except below normal coastal and extreme south. Amounts 3.00 to 5.00 in. north, 2.00 to 4.00 in. central, lowering sharply to less than 0.25 in. south border and coast. Little change during weekend.

Soil moisture excessive all areas, little change from last week. Rains and wet soils held fieldwork to standstill. Limited acreages of corn, cotton and soybeans still in field. Pecan harvest limited. Fuel and nitrogen fertilizer in

short supply some areas. Small grains and pasture fair to mostly good. Cattle mostly good.

HAWAII: Heavy rain and strong wind on Oahu, Maui, and Kauai on January 6; expected to reduce harvest prospects most crops. Harvesting active but other farm operations near standstill. Weather on Hawaii favorable. Heavy supply of bananas and papayas. A few vegetables in short supply. Pastures mostly good, forage feed plentiful. Cattle good. Wet weather held sugar and pineapple operations at standstill.

IDAHO: Temperatures above normal last week of December and precipitation much above normal. Cold arctic air moved first of year to drop temperatures drastically. Temperatures ranged from mid' to high 30's to below zero over most of State, Fairfield reported 40° below. Snow in high elevations early week but dry later.

Zero temperatures limited farm activity to clearing snow, thawing pipes and water tanks, and feeding livestock. Early calving underway and lambing starting. Cold slowed hauling potatoes to shipping points and processing plants. Heavy snow pack at higher elevations improving prospective 1974 supplies of irrigation water.

ILLINOIS: Warm and wet during week ending December 30. Cold, dry during past week. Temperatures 12° to 21° subnormal. Entire week cold, sub-zero readings Tuesday and Wednesday, slight moderating trend later in week. Precipitation as light snow everyday except Friday. Heaviest snowfall Sunday, 1 to 2 in. several areas. Main activities: Livestock care and routine farm chores.

INDIANA: Temperatures for last week in December above normal with 1.00 to 2.20 in. precipitation. Past week temperatures averaged 13° subnormal. Coldest morning on 2nd and 4th, 7° below normal to 18° south. Warmest day on 4th, in 20's. Soils frozen 3 to 5 in. deep. Snow cover up to 8 in. Ice storm on 3rd southern two-tiers of counties.

Activities confined mostly to caring for livestock and inside chores. Indoor work included equipment maintenance and repair, preparing tax forms and making plans for 1974 season. Snow-covered fields and freezing temperatures continued to hinder fieldwork and other outside farm activities.

IOWA: Temperatures for last week of December averaged 2° to 4° subnormal west third to 2° to 4° above normal elsewhere while light scattered snow continued throughout week.

Past week temperatures averaged about 20° subnormal. Extremes: 28° below zero at Spencer on 1st, 25° at Burlington on 5th. Precipitation below normal, less than 0.25 in. and snow cover averaged 5 to 7 in. north and west decreasing to about 2 in. southeast.

KANSAS: Temperatures subnormal during week ending December 30 with 4 to 12 in. snowfall. Past week one of bitterest cold weeks of record. Temperatures ranged from 0° northwest to 13° extreme southeast, 20° to 30° below normal. Intermittent snows over State with moisture 0.25 in. over west to 1.00 in. portions northeast.

Livestock requiring heavy supplemental feeding. Hay, forage, supplemental feed supplies adequate. Adverse weather slowed livestock gains, increased health problems. Wheat growth quite limited. Snow provided protective cover for wheat crop over most of State. Very little wind damage to date. Moisture supplies adequate.

KENTUCKY: Mild with showers December 24-26, then turning cold with ice glaze west and central by 30th. First week of year started cold with a few snow flurries. Rain Wednesday night and Thursday with ice glaze northern half. Occasional periods drizzle remainder week. Temperatures near normal southeast, 10° to 15° subnormal west. Precipitation first week of year less than 0.33 in. west, over 1.00 in. southeast.

Agricultural activity minimal over holiday period, mostly stripping late burley. Cold forced fall seeded small grains into dormancy. Wheat and barley condition satisfactory. Some concern over ice covering. Supplemental feeding livestock quite heavy.

LOUISIANA: Cold, cloudy, wet week with extensive ice storm central and north midweek. Temperatures averaged near normal southeast and from 5° to 14° below normals other sections. Extremes: 81° last Monday at New Orleans and 23° Tuesday at Ashland and Curtis. Precipitation on 3 to 7 days ranged upward from near 1.00 in. coast. Greatest 1-day rain, 3.51 in. at Jennings Thursday afternoon. Last week of December mild but very wet with weekly rain totals 2.00 in. to more than 6.00 in. statewide.

Agricultural activity: Some cotton scrapping first 2 days, machinery repair and routine livestock chores remainder of week.

MARYLAND AND DELAWARE: Temperatures near normal except 3° to 4° above normal Washington, D. C. area and Eastern Shore. Highs ranged from mid-40's to low 60's and lows from mid-teens to low

30's. Precipitation ranged from 0.50 in. to over 2.50 in., heaviest in Eastern Shore and Delaware. Farm activity limited mostly to livestock care. Tobacco stripping continued in southern Maryland.

MICHIGAN: Temperatures averaged 5° to 15° subnormal past week. Upper Peninsula coldest. Lowest 32° below at Stanbaugh where average for week 7° below. Precipitation totaled up to 0.25 in. most places except near Lake Shore areas such as Muskegon and Pellston which had about 0.50 in. and Houghton with 1.75 in. from 14 in. snow accumulation this week.

MINNESOTA: Past two weeks averaged 5° to 12° subnormal. Last week bitter cold with temperatures 15° to 20° subnormal. Most of State zero or colder from 29th to 2nd coldest overnight temperature on 1st ranging from 24° below to 40° below. Snow fell 24th through 28th with new accumulation 4 to 7 in., since then only flurries. Snow cover 8 to 15 in. Sub-zero temperatures made feeding of livestock difficult past week.

MISSISSIPPI: More than 2.00 in. rain fell over State during week ending December 28 while temperatures stayed about normal. Very cold and wet weather prevailed over State first week of January. Ice glazed roads and highways over northern third of State last half week, minor damage to trees and power lines. Rain fell on 5 days and temperatures averaged 3° to 10° subnormal north and 4° to 10° above south. Coldest 17° at Charleston on 1st. Cold and wet during weekend over State, heaviest rains northcentral and central Sunday.

Soil moisture surplus. Fieldwork averaged less than a day last 2 weeks. Harvest of cotton, soybeans and corn virtually complete by 29th and pecan harvest 95% complete. Current hay and roughage supplies adequate. Feed grain supplies short to adequate. Wheat and oats fair to good. Pasture and livestock fair to good. Cold, wet weather restricted agricultural activity to feeding and caring for livestock.

MISSOURI: Temperatures for last week in December averaged 4°-5° subnormal and about 20° subnormal first week in January. Readings near or below zero recorded generally statewide over New Year's Holiday with readings as low as 10° to 22° on New Year's morning north half.

Precipitation near normal for two week period with most precipitation coming with two major storms which dumped up to a foot or more of snow across central and north on two occasions--before Christmas and again before New Year's. Both near record snow falls for last 50 years. December ended with precipitation 50% to 100% above normal except in bootheel area.

MONTANA: Low temperatures frequently fell to 20° below zero except more than 30° below many mountain valleys. Winds brought brief temperature rises and were accompanied by blowing and drifting snow. Snowfall near to below normal with most significant amounts Northcentral and Central divisions where several inches of new snow fell.

Livestock care and feeding main farm and ranch activities. Winter wheat mostly good south and east, fair to good elsewhere. Snowcover protection fair to good northwest, northeast, and southeast; poor to fair elsewhere. Some hay shortages. Grain and concentrate supplies mostly adequate with scattered areas of short supply. Grazing mostly closed, livestock on supplemental feed.

NEBRASKA: Very cold temperatures prevailed last week, 20° to 40° below normal. Maximum temperatures never warmed above the teens. Precipitation as snow heaviest southeast where water equivalent ranged from 0.25 to 0.50 in. with lesser amounts west and north. Precipitation quite general over State two weeks ago, averaging 2 to 9 in. of snow. Heavier amounts central and southcentral.

Snow slowed harvest of few corn fields left. Winter wheat good condition. Livestock good condition in spite of poor weather. Snow and extreme cold have limited pasturing of beet tops, corn stalks, and wheat fields. Cold also a strain on hay reserves although supply normal but may run short if very cold weather continues. Some calving and lambing to start soon.

NEVADA: High temperatures 6° to 22° below normal, lows from 18° below normal to 10° above. Extremes: 47° at Las Vegas, 12° below zero at Ely. Precipitation varied from 0.01 in. Elko to 1.09 in. Yucca Flat. Some snow depths: Virginia City 9 in., Yucca Flat 7 in., Reno and Owyhee 6 in. Snow restricted agricultural activity but increased livestock feeding. Livestock good, losses from snow storm light.

NEW ENGLAND: During last week of December, a severe ice storm south and central giving 0.75 in. to 1.50 in. precipitation. Another 0.25 to 0.50 in. fell later in week in same areas. Snow, sleet and freezing rain fell December 31 through January 2 with 0.25 to 1.00 in. amounts and on the 4th 2 to 7 in. snow deposited south, and Boston area had first measured snow of season.

Post-Christmas temperatures rose into 50's and 60's eastern Massachusetts and Rhode Island and into 50's some locations in southern Maine on December 27th. They again reached 50's southeast Massachusetts middle of second week. Only low readings in extreme northern sections where near or below zero recorded several days.

NEW JERSEY: Cold week. Temperatures averaged almost 2° subnormal, ranging 47° at Atlantic City on 1st to 8° at Newton on 5th. Precipitation averaged 1.20 in. coast, 0.80 in. north and 1.10 in. central and south. Most snowfall overnight January 3 central and north, 6 in. at Greenwood Lake heaviest.

NEW MEXICO: Major snowstorm over northern half and most mountain sections January 1 and 2 with moisture amounting to more than 1.00 in. and snow depths exceeding 10 in. Moisture less than 0.10 in. south. Temperatures very cold during and following snow, only gradual warming weekend. Temperatures 10° to 20° subnormal north, 2° to 10° subnormal south. Coldest 25° below zero at Valmora on Friday.

Snowfall most central and northern areas. Soil moisture short but should improve from snowfall. Ranges, livestock, winter grains mostly fair. Supplemental feeding heavy. Some wheat, rye poor due heavy aphid populations. Cotton, pecan harvests nearly complete.

NEW YORK: Temperatures and precipitation averaged above normal last week of December. During first week of January, temperatures averaged near to below normal, remaining cold throughout week. Extremes: 4° below at Saranac Lake on January 2, 43° at New York City on the 1st. Precipitation frequent but amounts averaged below normal. Rain over coast and mixed precipitation remainder southeast changed to snow late Thursday before ending Friday. Elsewhere frequent light snow or flurries. By week's end stations northeast reported average snow depth 5 to 10 in. Elsewhere amounts averaged 1 to 4 in.

NORTH CAROLINA: Temperatures and rainfall amounts generally above normal last two weeks. Heavy rains of 4.00 to 6.00 in. caused flooding in southern mountain areas during last week of December.

Wet weather restricted farm activities, less than 1.0 day suitable for fieldwork each of previous two weeks. Soil moisture generally surplus. Small grains improving, fair to good. Pastures generally poor mountains, fair Piedmont and coastal plains. Feed grains, hay and roughages adequate. Farm activities: Feeding livestock, machinery repair, fencing, tobacco plant bed preparation and mowing ditch banks.

NORTH DAKOTA: Temperatures cold early last week with some warming of daytime temperatures late week, becoming colder again over weekend. Extremes: 34° below zero at Bottineau early week, 19° above at Fort Yates late week. Precipitation deficient, averaged only a trace but 0.01 in. reported in northern third late week. Absence of additional snow favorable for marketing crops and livestock. Feed supplies accessible. Roughage short some localities. No blizzard conditions, livestock good. Ranges snow covered, grazing nil.

OHIO: Winter remained firmly entrenched past 2 weeks. Partly cloudy skies persisted, with at least two mornings of below zero minimum temperatures northeast sections. Major winter storm dumped heavy snow of 4 to 8 in. between Dayton and Cleveland last day of 1973. Same storm gave southern counties very hazardous conditions, nearly an inch of ice near Cincinnati.

Past week weather: Dull gray skies and below freezing temperatures. Daily snow flurries reported, but only traces. Second ice storm on 3rd south. Coldest official temperature 6° below at Findlay, unofficial reports of 10° below. Northern half State has snow cover. Farm activities limited to grain and manure hauling along with care of livestock. Snow cover will protect wheat and hay crops.

OKLAHOMA: Temperatures much below normal and ranged from 13° below normal eastcentral to 20° below normal panhandle. Precipitation light to moderate. Snow accumulations up to 6 in. in panhandle. Weekend very cold with additional 2 in. snow parts of panhandle.

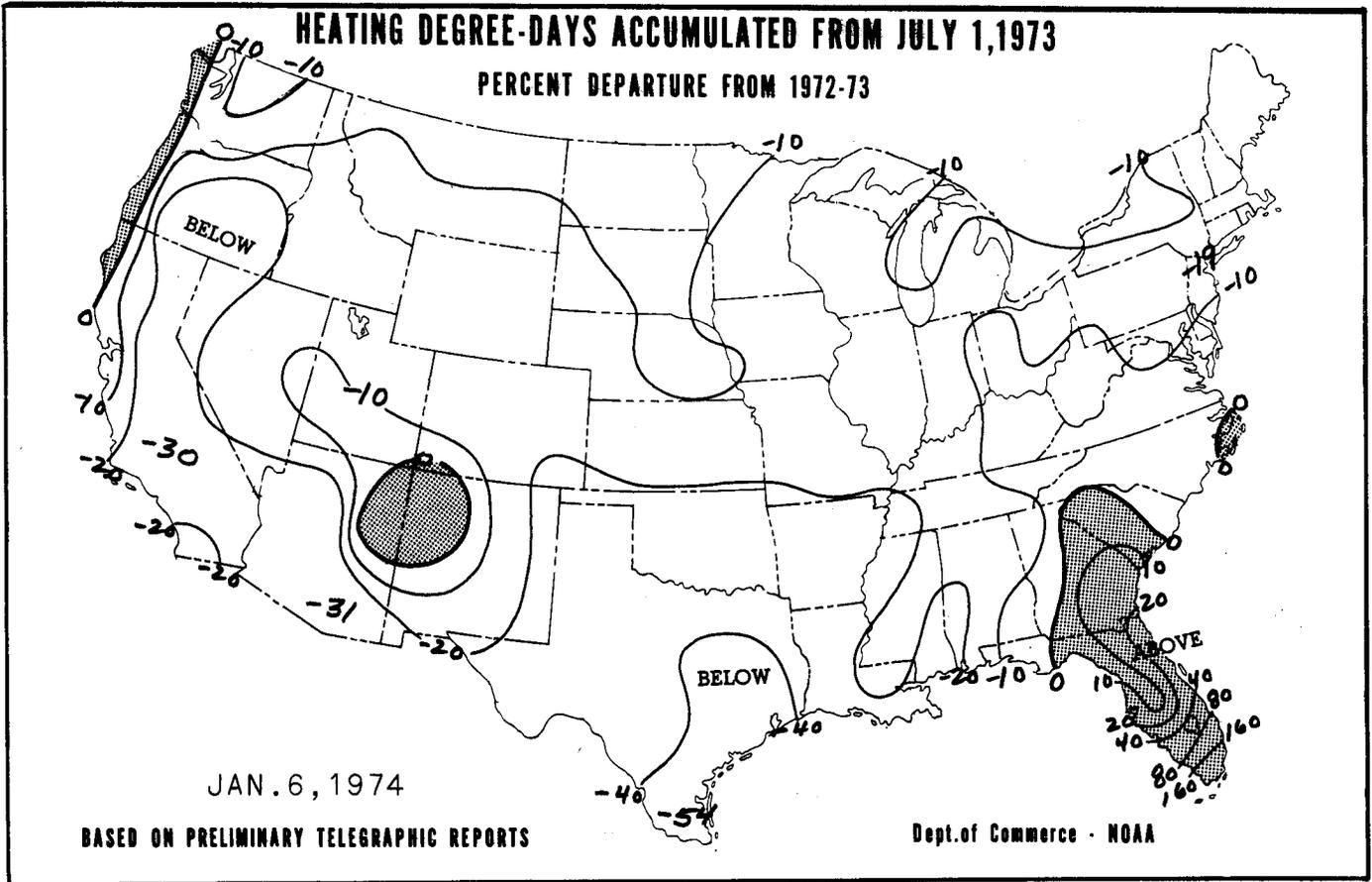
Small grain condition mostly good but lowered by cold weather and lack of top moisture in panhandle and western counties. Freezing lowered grazing capacity. Greenbug activity slowed. Cotton stripping continued when weather permitted in westcentral and eastern areas, but exceeded gin capacity parts extreme southwest. Elsewhere, farm activity restricted to feeding livestock, shop work, and record keeping. Snow and cold dropped range feed quality--mostly fair to good. Supplemental feeding keeping livestock in mostly good condition.

OREGON: Most precipitation early week. Cold air moved in during week. Temperatures averaged below normal with greatest departures east. Highs in upper 40's, 50's west; mid-30's, mid-40's east. Lows dropped into teens and 20's west, much colder east with most areas in zero to 10° below range.

Cold windy weather froze cabbage, cauliflower. Farm activities restricted to livestock feeding, watering, bookkeeping, preparing for lambing season.

PENNSYLVANIA: Last week of 1973 warm and wet. Temperatures averaged 7° above normal and precipitation ranged from 0.50 in. central to 1.30 in. northwest to southeast. First week of 1974 coldest

(continued on p. 15)

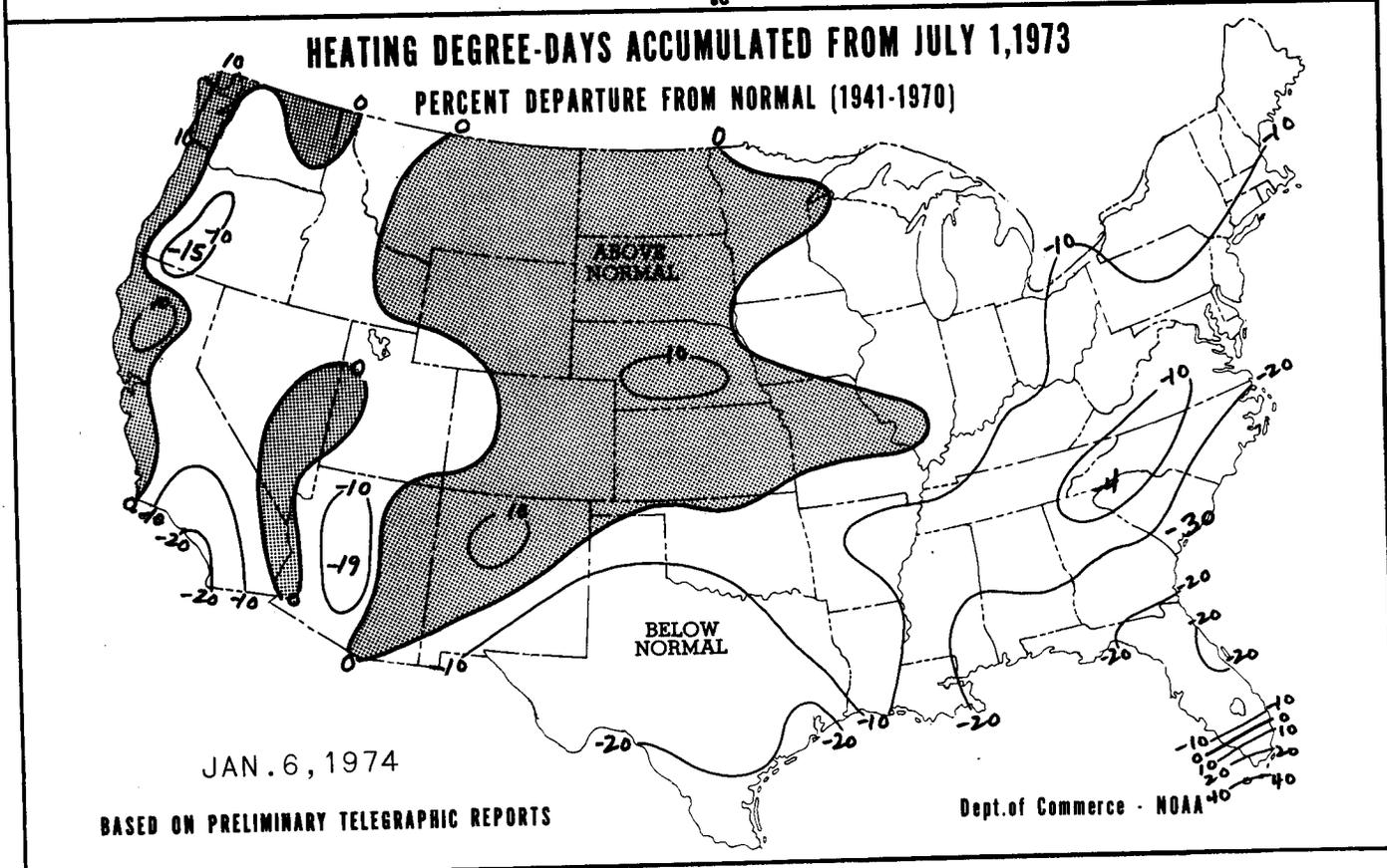
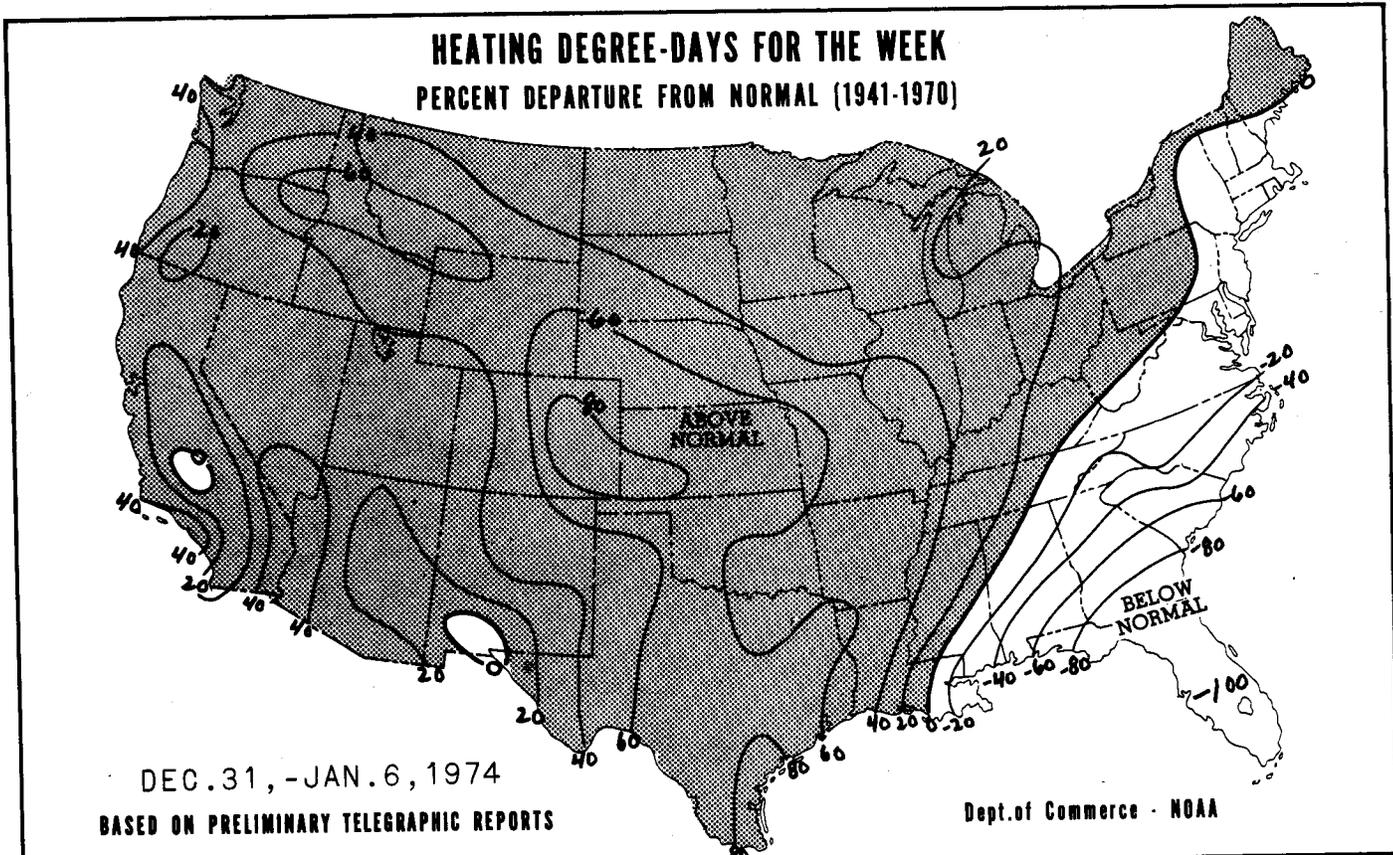


HEATING DEGREE-DAYS - A BITTER, COLD WEEK

The past week was extremely cold in a large area of the country as temperatures averaged 10° to 30° below normal from the Sierras to the Ohio River Valley. The heating degree-day accumulation was at least 40% greater than normal over a 16 State area. Parts of Colorado and Kansas were more than 80% above normal. The only area warmer than usual was east of a line from New Orleans, La., to Portland, Me.

Over the season to date, most of the Nation is behind the normal accumulation or warmer than usual, except for the Rocky Mountains and the northern and central Plains. Despite the severe cold in this area, heating degree-day accumulations are still less than last year, which was one of the coldest on record.

The 30-day outlook for January (see p. 17) calls for above normal temperatures in the Northwest and Northeast, below normal in much of the South and near normal elsewhere. Heating degree-day accumulations would be expected to follow the same pattern, although the forecast has only partially verified during this first week in January.

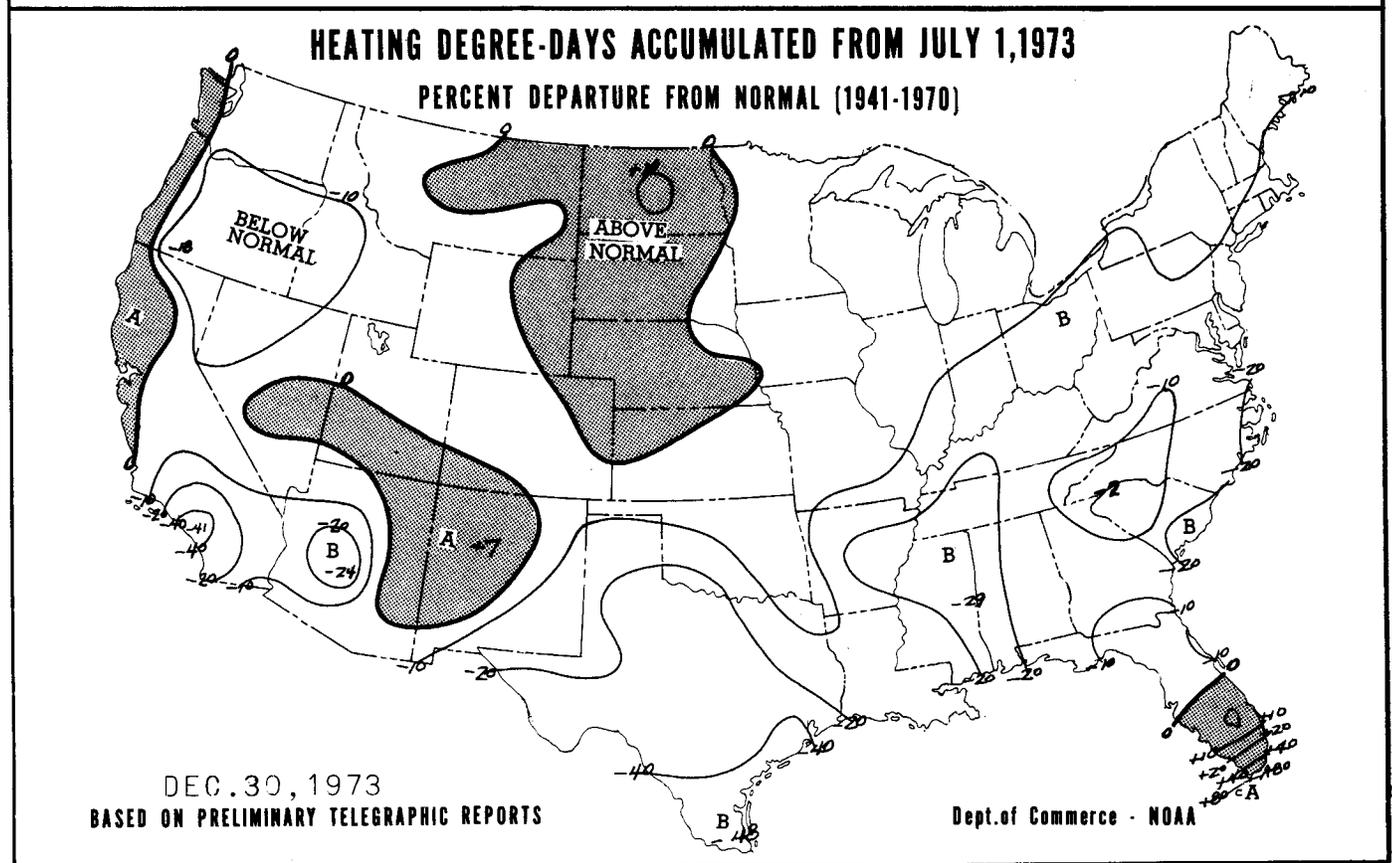
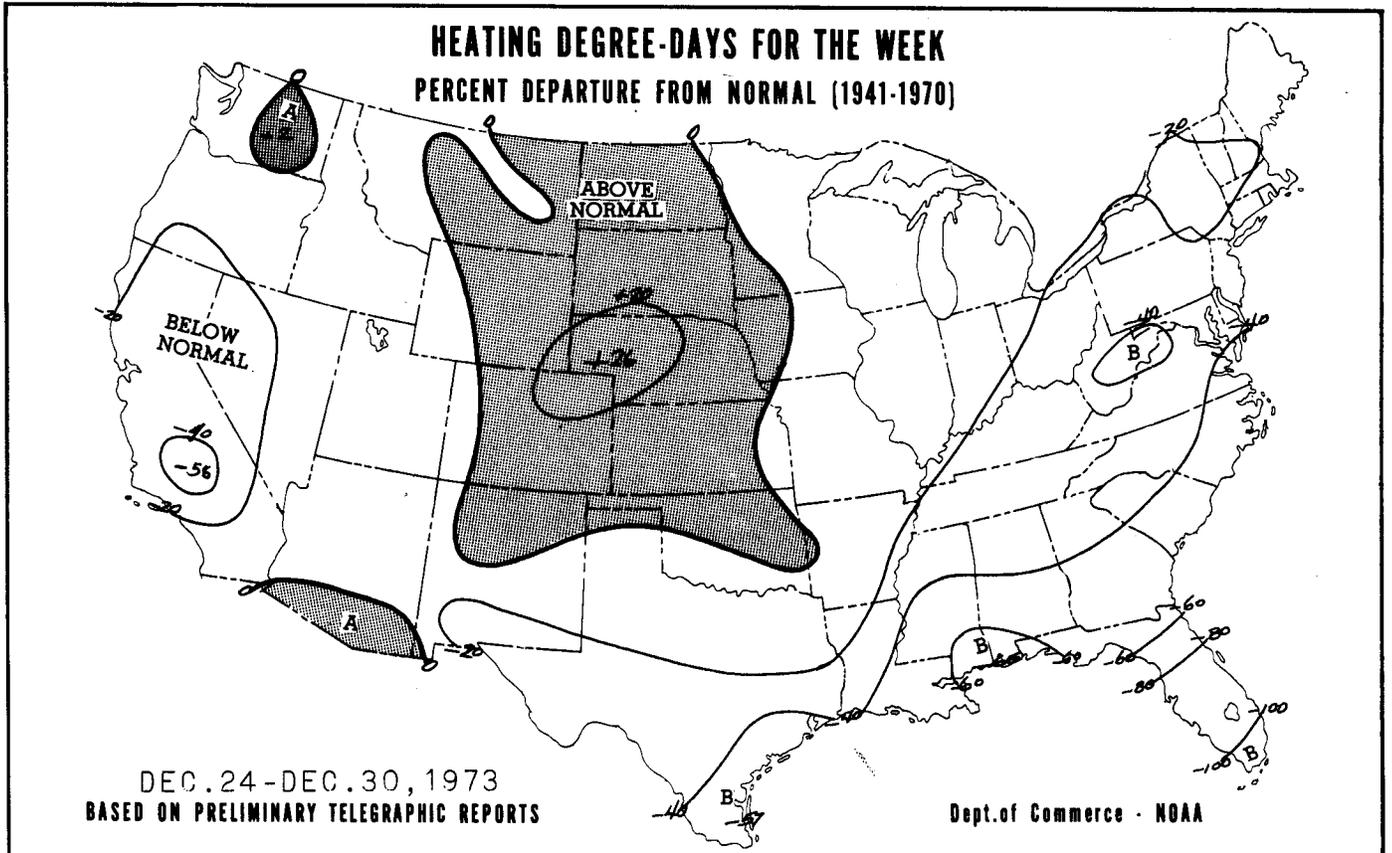


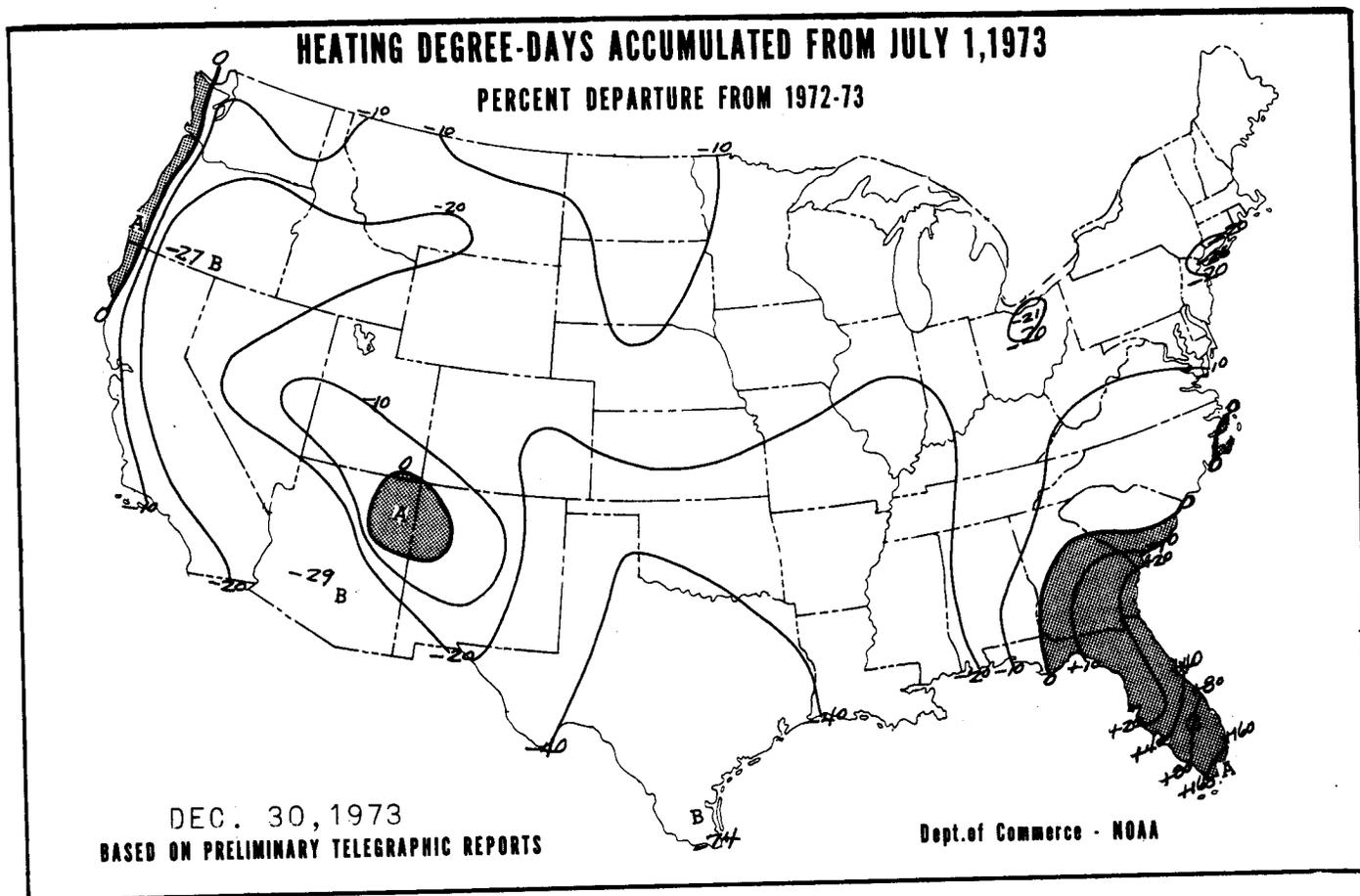
Heating Degree Days (Base 65°) For Week Ending January 6 1974

States and Stations	Weekly		Seasonal † Accumulation			States and Stations	Weekly		Seasonal † Accumulation			States and Stations	Weekly		Seasonal † Accumulation		
	TOTAL	Departure*	TOTAL	Departure*	Departure From 1972-73		TOTAL	Departure*	TOTAL	Departure*	Departure From 1972-73		TOTAL	Departure*	TOTAL	Departure*	Departure From 1972-73
ALA.Birmingham . . .	147	- 2	1110	-166	-181	Portland	294	- 7	2759	-284	-500	Tulsa	323	124	1558	- 15	-467
Mobile	55	-44	540	-180	-132	MD.Baltimore	227	3	1818	-139	-126	OREG.Astoria	249	80	2470	189	174
Montgomery	72	-54	829	-190	- 96	MASS.Boston	231	-14	1937	-244	-368	Burns	364	84	3105	- 34	-411
ARIZ.Flagstaff	294	35	2826	-279	-781	MICH.Alpena	363	43	3260	-207	-381	Medford	234	31	1830	-316	-575
Phoenix	111	13	546	-125	-198	Detroit	354	74	2515	-104	-339	Pendleton	375	145	2212	-102	-461
Tucson	124	25	736	19	-338	Flint	357	63	2654	-213	-328	Portland	249	61	1907	-169	-150
Winslow	279	44	2133	39	21	Grand Rapids	348	61	2699	- 60	-381	Salem	259	76	2137	57	-285
Yuma	112	39	453	6	-141	Houghton Lake	371	45	3235	-217	-443	PA.Allentown	251	- 8	2098	-303	-356
ARK.Fort Smith	283	101	1427	- 31	-490	Lansing	354	64	2765	- 50	-462	Erie	309	36	2428	-289	-383
Little Rock	262	80	1238	-232	-360	Marquette	422	103	3250	-111	-596	Harrisburg	242	- 3	1906	-288	-239
CALIF.Bakersfield . . .	125	- 8	861	-114	-361	Muskegon	333	53	2694	- 62	-245	Philadelphia	233	9	1734	-233	-238
Eureka	166	40	2181	67	46	S. Ste. Marie	423	76	3685	- 66	-305	Pittsburgh	287	28	2189	-314	-236
Fresno	153	6	1115	- 41	-328	MINN.Duluth	525	136	4206	105	-657	Scranton	291	18	2512	- 99	-307
Los Angeles	101	30	340	- 80	-138	Internat Falls	555	120	4344	-187	-454	R.I.Providence	248	- 4	2127	-232	-276
Red Bluff	186	39	1245	121	-282	Minneapolis	501	135	3368	-121	-577	S.C.Charleston	35	-84	655	-279	- 1
San Diego	76	6	410	-112	- 64	Rochester	496	137	3428	- 7	-607	Columbia	53	-87	792	-370	-147
San Francisco	156	37	1356	109	- 44	St. Cloud	519	136	3698	- 28	-644	Greenville	122	-39	1339	- 58	54
Stockton	152	5	1098	- 80	-311	MISS.Jackson	160	34	868	-136	-185	S.DAK.Aberdeen	524	142	3880	245	- 86
COLO.Denver	451	206	2672	162	-397	Meridian	122	-10	798	-288	-226	Huron	490	128	3517	135	-212
Grand Junction	345	72	2421	- 54	-411	MO.Columbia	396	145	2178	42	-372	Rapid City	451	153	3254	221	-468
Pueblo	444	199	2436	118	-537	Kansas City	422	163	2198	43	-390	Sioux Falls	495	143	3349	37	-438
CONN.Bridgeport	235	- 3	1750	-294	-514	St. Louis	372	137	2143	140	-266	TENN.Chattanooga . . .	153	-22	1391	-171	-259
Hartford	268	-12	2278	-316	-345	Springfield	352	128	1861	- 86	-441	Knoxville	155	-20	1392	-146	-145
DEL.Wilmington	231	0	1703	-299	-128	MONT.Billings	454	156	3166	114	-628	Memphis	253	81	1203	-208	-498
D.C.Washington	187	-23	1376	-374	-250	Glasgow	496	116	3992	215	-286	Nashville	235	46	1372	-241	-176
FLA.Apalachicola	0	-82	420	-150	- 1	Great Falls	466	159	3440	226	-360	TEX.Abilene	260	112	1021	-108	-595
Daytona Beach	0	-49	264	- 87	63	Havre	442	76	3840	32	-291	Amarillo	306	103	1622	-161	-760
Ft. Myers	0	-28	159	- 21	52	Helena	525	199	3776	199	-571	Austin	182	75	611	-124	-445
Jacksonville	5	-75	470	- 96	87	Kalispell	468	149	3671	-168	-401	Brownsville	90	41	183	- 46	-218
Key West	0	- 7	24	8	16	Miles City	462	122	3401	48	-512	Corpus Christi	126	59	282	- 83	-279
Lakeland	0	-42	225	- 39	19	Missoula	472	163	3452	-102	-416	Del Rio	172	67	557	-145	-290
Miami	0	-14	94	13	61	NEBR.Grand Island . . .	491	193	3003	295	-231	El Paso	153	- 1	1068	-197	-221
Orlando	0	-42	212	- 57	53	Lincoln	497	199	2910	293	-214	Fort Worth	223	83	859	-138	-478
Tallahassee	0	-94	557	-135	38	Norfolk	468	149	3039	108	-361	Galveston	126	48	356	- 90	-249
Tampa	0	-42	230	- 46	35	North Platte	503	211	3251	357	-382	Houston	141	50	426	-164	-452
W. Palm Beach	0	-20	106	-11	64	Omaha	448	137	2910	159	-295	Lubbock	269	87	1333	-214	-618
GA.Atlanta	108	-53	1126	-232	-101	Valentine	465	154	3180	100	-539	Midland	229	79	1075	- 83	-491
Augusta	62	-78	982	-163	61	NEV.Ely	366	76	3431	110	-314	Beaumont	124	32	559	- 81	-315
Macon	46	-80	771	-241	- 2	Las Vegas	239	85	1178	1	-289	San Angelo	223	90	837	-166	-442
Savannah	19	-93	649	-218	86	Reno	309	71	2426	-208	-666	San Antonio	162	61	598	- 73	-334
IDAHO.Boise	348	94	2323	-216	-554	Winnemucca	334	73	2653	-240	-634	Victoria	152	69	413	- 82	-334
Lewiston	396	160	2387	- 37	-281	N.H.Concord	312	4	3029	-21	-524	Waco	203	77	734	-137	-565
Pocatello	442	149	3089	50	-407	N.J.Atlantic City	216	- 8	1790	-196	-116	Wichita Falls	279	112	1076	-174	-654
ILL.Cairo	303	102	1596	- 49	-301	Trenton	231	- 3	1754	-226	-230	UTAH.Salt Lake C	350	88	2482	-178	-381
Chicago	382	101	2475	- 17	-404	N.MEX.Albuquerque	319	102	2140	-221	- 5	VT.Burlington	317	-12	3020	-108	-508
Moline	413	112	2695	39	-284	Roswell	262	68	1504	-215	-362	VA.Lynchburg	200	- 3	1672	-152	- 68
Peoria	409	122	2563	12	-412	N.Y.Albany	294	- 7	2777	- 49	-225	Norfolk	150	-25	1147	-259	- 45
Rockford	417	106	2742	-109	-379	Binghamton	300	- 1	2726	-253	-465	Richmond	185	-11	1487	-191	- 42
Springfield	398	132	2279	- 50	-400	Buffalo	307	23	2610	-139	-269	Roanoke	197	- 6	1665	-181	-122
IND.Evansville	304	80	1845	-141	-394	New York	226	- 1	1664	-227	-393	WASH.Quillayute	232	50	2891	274	63
Fort Wayne	373	99	2461	-111	-273	Rochester	308	26	2447	-228	-238	Seattle-Tacoma	239	51	2159	-104	-238
Indianapolis	344	85	2134	-214	-320	Syracuse	297	12	2596	- 50	-191	Spokane	410	132	3071	34	-109
South Bend	347	61	2311	-336	-485	N.C.Asheville	133	-60	1573	-287	- 52	Walla Walla	364	142	2129	- 18	-333
IOWA.Burlington	403	111	2549	- 15	-429	Hatteras	74	-59	740	-263	26	Yakima	383	119	2714	- 22	-207
Des Moines	436	121	2688	- 96	-647	Charlotte	137	-29	1323	- 99	- 38	W.VA.Beckley	204	-34	2114	-188	-130
Debuque	440	113	2988	- 62	-530	Greensboro	169	-20	1598	- 85	- 70	Charleston	221	4	1792	-186	-130
Sioux City	463	137	2889	- 40	-361	Raleigh	148	-27	1261	-275	-189	Huntington	249	32	1755	-226	-294
KANS.Concordia	447	176	2530	165	-319	Wilmington	67	-66	789	-236	- 46	Parkersburg	263	39	1878	-155	-118
Dodge City	440	200	2287	147	-405	N.Dak.Bismarck	524	135	4299	482	- 33	WIS.Green Bay	448	108	3206	-137	-350
Goodland	454	192	2810	213	-432	Fargo	533	127	4129	238	-292	LaCrosse	443	104	3043	- 47	-512
Topeka	434	175	2302	74	-303	Williston	515	126	4231	323	-329	Madison	430	97	3109	-122	-435
Wichita	406	168	2124	125	-396	OHIO.Akron-Canton	314	48	2183	-370	-277	Milwaukee	407	92	2803	-218	-475
KY.Lexington	262	38	1791	-214	-135	Cleveland	310	44	2144	-343	-397	WYO.Casper	458	165	3364	181	-483
Louisville	272	50	1703	-275	-221	Columbus	308	49	2079	-331	-332	Cheyenne	460	194	3267	236	-475
LA.Baton Rouge	102	3	586	-142	- 88	Cincinnati	299	61	2051	- 74	-214	Lander	484	165	3511	118	-625
Lake Charles	132	41	597	- 32	-240	Dayton	327	68	2181	-17							

Heating Degree Days (Base 65°) For Week Ending December 30, 1973

States and Stations	Weekly		Seasonal † Accumulation			States and Stations	Weekly		Seasonal † Accumulation			States and Stations	Weekly		Seasonal † Accumulation		
	TOTAL	Departure*	TOTAL	Departure*	Departure From 1972-73		TOTAL	Departure*	TOTAL	Departure*	Departure From 1972-73		TOTAL	Departure*	TOTAL	Departure*	Departure From 1972-73
ALA. Birmingham . . .	91	-56	963	-164	-188	Portland . . .	227	-69	2465	-277	-526	Tulsa . . .	194	1	1235	-139	-538
Mobile . . .	34	-64	485	-136	-137	MD. Baltimore . . .	168	-56	1591	-142	-180	OREG. Astoria . . .	151	-13	2221	109	127
Montgomery . . .	73	-53	757	-136	-77	MASS. Boston . . .	158	-75	1706	-230	-383	Burns . . .	241	-33	2741	-118	-475
ARIZ. Flagstaff . . .	238	-19	2532	-314	-720	MICH. Alpena . . .	271	-41	2897	-250	-438	Medford . . .	155	-45	1596	-347	-576
Phoenix . . .	82	-16	435	-138	-182	Detroit . . .	243	-31	2161	-178	-441	Pendleton . . .	198	-22	1837	-247	-565
Tucson . . .	112	14	612	-6	-306	Flint . . .	241	-46	2297	-276	-421	Portland . . .	157	-24	1652	-236	-200
Winslow . . .	204	-27	1854	-5	3	Grand Rapids . . .	243	-39	2351	-121	-445	Salem . . .	155	-23	1850	-47	-366
Yuma . . .	70	0	341	-33	-143	Houghton Lake . . .	273	-45	2864	-262	-492	PA. Allentown . . .	196	-62	1847	-295	-402
ARK. Fort Smith . . .	181	2	1152	-124	-545	Lansing . . .	236	-48	2411	-114	-536	Erie . . .	209	-60	2119	-325	-452
Little Rock . . .	145	-31	966	-322	-426	Marquette . . .	287	-23	2829	-213	-691	Harrisburg . . .	195	-48	1664	-285	-293
CALIF. Bakersfield . . .	58	-73	717	-125	-337	Muskegon . . .	245	-28	2361	-115	-291	Philadelphia . . .	159	-65	1501	-242	-299
Eureka . . .	101	-19	2015	-27	40	S. Ste. Marie . . .	293	-45	3262	-142	-407	Pittsburgh . . .	179	-78	1902	-342	-311
Fresno . . .	103	-42	962	-47	-297	MINN. Duluth . . .	349	-30	3681	-31	-750	Scranton . . .	210	-58	2221	-117	-384
Los Angeles . . .	56	-14	332	-227	-58	Internatl Falls . . .	379	-44	3789	-307	-551	R. I. Providence . . .	166	-86	1879	-228	-315
Red Bluff . . .	93	-47	1048	71	-316	Minneapolis . . .	337	-17	2867	-256	-677	S. C. Charleston . . .	57	-62	620	-195	17
San Diego . . .	54	-11	334	-118	-56	Rochester . . .	337	-10	2933	-143	-688	Columbia . . .	66	-74	739	-283	-132
San Francisco . . .	84	-33	1200	72	-57	St. Cloud . . .	363	-8	3179	-164	-730	Greenville . . .	135	-26	1217	-19	37
Stockton . . .	97	-50	946	-85	-296	MISS. Jackson . . .	63	-62	708	-170	-215	S. DAK. Aberdeen . . .	377	10	3356	103	-177
COLO. Denver . . .	287	49	2221	-44	-495	Meridian . . .	55	-71	678	-278	-228	Huron . . .	360	13	3027	7	-300
Grand Junction . . .	261	-4	2076	-126	-369	MO. Columbia . . .	217	-27	1782	-103	-476	Rapid City . . .	333	46	2866	131	-501
Pueblo . . .	254	17	1992	-81	-663	Kansas City . . .	241	-8	1776	-120	-486	Sioux Falls . . .	369	30	2854	-106	-527
CONN. Bridgeport . . .	176	-62	1515	-291	-542	St. Louis . . .	220	-10	1770	2	-363	TENN. Chattanooga . . .	126	-49	1238	-149	-251
Hartford . . .	218	-60	2010	-304	-383	Springfield . . .	207	-12	1509	-214	-530	Knoxville . . .	115	-60	1237	-126	-163
DEL. Wilmington . . .	161	-67	1472	-299	-198	MONT. Billings . . .	297	11	2715	-39	-691	Memphis . . .	125	-43	952	-287	-555
D.C. Washington . . .	127	-81	1189	-351	-283	Glasgow . . .	417	54	3530	133	-309	Nashville . . .	125	-58	1137	-287	-239
FLA. Apalachicola . . .	40	-39	418	-68	5	Great Falls . . .	330	40	2974	67	-428	TEX. Abilene . . .	127	-16	761	-220	-645
Daytona Beach . . .	10	-39	264	-38	63	Havre . . .	321	-29	3404	-38	-314	Amarillo . . .	179	-19	1316	-264	-806
Ft. Myers . . .	2	-26	156	4	49	Helena . . .	306	-6	3251	0	-708	Austin . . .	75	-28	429	-199	-489
Jacksonville . . .	35	-42	465	-21	82	Kaispell . . .	302	-4	3203	-317	-497	Brownsville . . .	18	-24	93	-87	-266
Key West . . .	0	-7	24	15	16	Miles City . . .	317	-7	2939	-74	-551	Corpus Christi . . .	27	-33	156	-142	-327
Lakeland . . .	5	-37	225	3	19	Missoula . . .	266	-32	2980	-265	-542	Del Rio . . .	71	-28	385	-212	-334
Miami . . .	0	-14	93	26	60	NEBR. Grand Island . . .	324	37	2512	-102	-349	El Paso . . .	101	-53	915	-196	-190
Orlando . . .	4	-38	212	-15	53	Lincoln . . .	323	37	2413	94	-344	Fort Worth . . .	107	-27	636	-221	-531
Tallahassee . . .	52	-39	557	-41	46	Norfolk . . .	325	16	2571	-41	-442	Galveston . . .	44	-28	230	-138	-295
Tampa . . .	2	-40	230	4	35	North Platte . . .	358	74	2748	146	-506	Houston . . .	40	-47	285	-214	-482
W. Palm Beach . . .	0	-21	106	9	64	Omaha . . .	308	10	2460	20	-373	Lubbock . . .	159	-19	1064	-301	-655
CA. Atlanta . . .	108	-53	1018	-179	-90	Valentine . . .	---	---	---	---	---	Midland . . .	116	-30	846	-162	-536
Augusta . . .	81	-59	920	-85	77	NEV. Ely . . .	264	-21	3065	34	-314	Beaumont . . .	63	-25	435	-113	-317
Macon . . .	65	-61	725	-161	27	Las Vegas . . .	143	-6	939	-84	-321	San Angelo . . .	92	-36	614	-256	-479
Savannah . . .	60	-52	630	-125	105	Reno . . .	157	-78	2117	-279	-664	San Antonio . . .	71	-26	436	-134	-369
IDAHO. Boise . . .	215	-30	1975	-310	-627	Winnemucca . . .	198	-57	2319	-313	-654	Victoria . . .	40	-36	261	-151	-381
Lewiston . . .	218	-8	1991	-197	-409	N. H. Concord . . .	253	-50	2717	-25	-559	Waco . . .	99	-21	531	-214	-604
Pocatello . . .	261	-23	2647	-99	-459	N. J. Atlantic City . . .	138	-86	1574	-188	-173	Wichita Falls . . .	141	-20	797	-286	-721
ILL. Cairo . . .	174	-22	1293	-151	-387	Trenton . . .	159	-68	1523	-229	-289	UTAH. Salt Lake C . . .	231	-26	2132	-196	-344
Chicago . . .	245	-30	2093	-118	-488	N. MEX. Albuquerque . . .	233	22	1821	119	-65	VT. Burlington . . .	258	-64	2703	-166	-561
Moline . . .	253	-38	2282	-73	-378	Roswell . . .	159	-30	1245	-280	-401	VA. Lynchburg . . .	155	-48	1472	-149	-111
Peoria . . .	251	-27	2154	-110	-512	N. Y. Albany . . .	248	-48	2483	-42	-293	Norfolk . . .	90	-81	997	-234	-90
Rockford . . .	266	-37	2325	-215	-472	Binghamton . . .	238	-57	2426	-252	-522	Richmond . . .	123	-73	1302	-180	-96
Springfield . . .	226	-35	1874	-189	-514	Buffalo . . .	224	-55	2303	-162	-329	Roanoke . . .	152	-51	1464	-179	-168
IND. Evansville . . .	187	-36	1541	-221	-463	New York . . .	157	-67	1438	-226	-438	WASH. Quillayute . . .	176	-2	2659	224	54
Fort Wayne . . .	256	-17	2088	-210	-387	Rochester . . .	206	-71	2139	-254	-324	Seattle-Tacoma . . .	170	-12	1920	-155	-254
Indianapolis . . .	212	-43	1790	-299	-410	Syracuse . . .	234	-45	2299	-62	-267	Spokane . . .	261	-6	2661	-98	-211
South Bend . . .	236	-41	1964	-397	-566	N. C. Asheville . . .	141	-52	1498	-169	9	Walla Walla . . .	214	3	1784	-141	-424
IOWA. Burlington . . .	250	-34	2146	-126	-504	Hatteras . . .	65	-68	666	-204	13	Yakima . . .	259	6	2331	-141	-317
Des Moines . . .	281	-23	2252	-217	-723	Charlotte . . .	124	-44	1186	-70	-56	W. VA. Beckley . . .	168	-70	1910	-282	-192
Dubuque . . .	290	-28	2548	-175	-608	Greensboro . . .	134	-55	1429	-65	-88	Charleston . . .	126	-88	1571	-192	-378
Sioux City . . .	323	9	2426	-177	-452	Raleigh . . .	116	-59	1113	-248	-209	Huntington . . .	140	-77	1506	-258	-356
KANS. Concordia . . .	292	30	2083	-11	-417	Wilmington . . .	67	-66	722	-170	-55	Parkersburg . . .	148	-76	1613	-196	-195
Dodge City . . .	285	49	1847	-53	-535	N. Dak. Bismarck . . .	400	27	3780	352	-98	WIS. Green Bay . . .	294	-38	2758	-245	-446
Goodland . . .	288	30	2410	75	-511	Fargo . . .	394	1	3596	111	-352	LaCrosse . . .	304	-22	2600	-151	-577
Topeka . . .	250	-2	1868	-101	-417	Williston . . .	391	18	3716	197	-385	Madison . . .	276	-49	2679	-219	-520
Wichita . . .	241	11	1718	-43	-488	OHIO. Akron-Canton . . .	201	-65	1869	-418	-377	Milwaukee . . .	260	-46	2396	-310	-543
KY. Lexington . . .	155	-65	1529	-252	-204	Cleveland . . .	192	-67	1834	-387	-477	WYO. Casper . . .	334	49	2906	16	-535
Louisville . . .	152	-65	1431	-325	-287	Columbus . . .	188	-66	1771	-380	-418	Cheyenne . . .	312	51	2807	42	-566
LA. Baton Rouge . . .	45	-52	484	-145	-111	Cincinnati . . .	181	-52	1752	-135	-285	Lander . . .	312	2	3027	-47	-642
Lake Charles . . .	59	-27	465	-73	-274	Dayton . . .	200	-53	1854	-239	-392	Sheridan . . .	327	34	3008	41	-452
New Orleans . . .	38	-46	453	-81	-170	Toledo . . .	249	-28	2217	-148	-386						
Shreveport . . .	106	-15	736	-84	-357	Youngstown . . .	208	-62	2114	-246	-508						
MAINE. Caribou . . .	294	-74	3407	-254	-787	OKLA. Okla City . . .	198	7	1237	-144	-563						





(continued from p. 9)

since mid-February 1973. Frequent precipitation southeast totaling over 1.00 in. southeast to less than 0.25 in. most northern tier counties. Snow cover which averaged 3 to 6 in. late December decreased to little more than traces.

PUERTO RICO: Cool week, frequent showers north and little or no rain south. Rainfall averaged 0.72 in. or 0.08 in. subnormal. Highest weekly total 3.33 in. eastern mountains. Crop moisture near normal all divisions except parts south coasts and western interior where too dry for normal crop development. Temperatures averaged 76° coasts and 70° interior. Extremes: 90°, 52°. Crop report not available due to local holiday.

SOUTH CAROLINA: Last week warmer than usual most areas. Temperatures averaged mostly in 50's up State to 60's coastal areas. Overnight lows remained above freezing statewide. Rainfall totals varied from 2.00 to 3.00 in. west to less than 0.50 in. coast. Many stations reported rainfall daily. Cold moved across State early in week.

Continued harvest of soybeans, sorghums as weather permitted. Limited amount of cotton harvested. Peach tree pruning in Piedmont. Some cabbage and mixed greens harvested.

SOUTH DAKOTA: Severe cold gripped State past week. Temperatures averaged 15° to 25° subnormal. Coldest was 40° below zero at Flandreau January 1st, most areas down to 20° below zero or colder. Precipitation light.

Cold required extra feed for livestock. Feed supplies remain generally adequate. A few hay stacks being moved to winter feeding areas. Some

cattle grazing stubble fields. Snow still covers most of State except for some winter wheat areas west half. Caring for livestock main activity.

TENNESSEE: Ice storm hit much of west half State about midweek with some slow recovery from its affects later in week. Temperatures 15° subnormal west to 5° above normal east. Precipitation amounts 0.75 in. west to slightly more than 3.00 in. east, all areas received some moisture.

Small grains and cover crops remained good. Pastures moderate to good condition, still provided some grazing but supplementary feeding increased due to weather. Livestock good. Soil moisture excess.

TEXAS: Very cold Arctic air dominated Texas most of last week. Temperatures 10° to 15° subnormal except Lower Rio Grande Valley where readings remained above freezing mark. Snowfall 2 to 5 in. panhandle early week. By midweek, freezing rain spread over much of central and east Texas. Warming trend over south and east Texas during weekend.

Cold weather coupled with dry soil and locally heavy infestations of green bugs slowed development of small grains. Wheat and oats continued decline on high and low plains, but snow provided some moisture. Snow and cold hampered cotton harvest now 96% complete versus 82% in 1972 and 88% 5-year average. Substantial amount of cotton picked in field which will extend ginning season. Land preparation and fertilization for spring planting continued. Major crops percent harvested by December 31: Cotton 94, 1972 76, 5-year average 81; Sorghum 100, 1972 98, 5-year average 99; soybeans 96, 1972 97; peanuts 100, 1972 100.

Lower Rio Grande Valley: Many vegetables damaged or set back by freeze of December 21. Some tops were killed and some young fields of carrots were lost completely. Cabbage hit hardest in mature fields and very young fields. Some lettuce lost and additional acreage still remains doubtful. Any damage done to spring onion crop believed minimal. Laredo: Carrot and cabbage harvests continued. Onions showing fair growth, but need warmer weather. Winter Garder-San Antonio: Spinach trying to recover from freeze. Most onion fields have good stands and making good progress. Carrot digging active. High Plains: Cold halted land preparation for summer vegetables and potato crops.

Pecan harvest virtually complete. Citrus harvest in full swing again following freeze. Complete fruit loss to date has been light, however, an increased amount of fruit going to processors instead of fresh market. Supplemental feeding increased. South and east winter pastures provided limited grazing. Native pastures only fair. Livestock good.

UTAH: Frequent periods rain, snow last week of December changed to moderate to very heavy snow, especially south past week. Temperatures averaged a few degrees above normal most areas late December, but dropped to 10° to 15° below normal past week. The frigid, snowy first week of 1974 made care of livestock, transportation, and other operations more difficult for Utah farmers and ranchers. Below zero temperatures in Enterprise potato area may have damaged some potatoes in storage pits. Major activities: Care and feeding of livestock; sorting, grading, and marketing of potatoes, apples, dry onions. Turkey plants closed last week. Sugar beet processing continued.

VIRGINIA: Temperatures above normal for previous two-week period. Extremes: 71°, 17° last week of December, and 65°, 22° first week of January. Precipitation above normal through two-week period resulted in flash flooding along the James, Rappahannock and Shenandoah Rivers. Outside farm work limited by surplus soil moisture and holiday activities. Livestock feeding increased seasonally. Calving and lambing on schedule. Preparations for burley and dark-fired tobacco marketing active for post-holiday sales. Winter grains good to excellent

WASHINGTON: West: Temperatures last week of December 2° above normal, precipitation 0.40 to 3.00

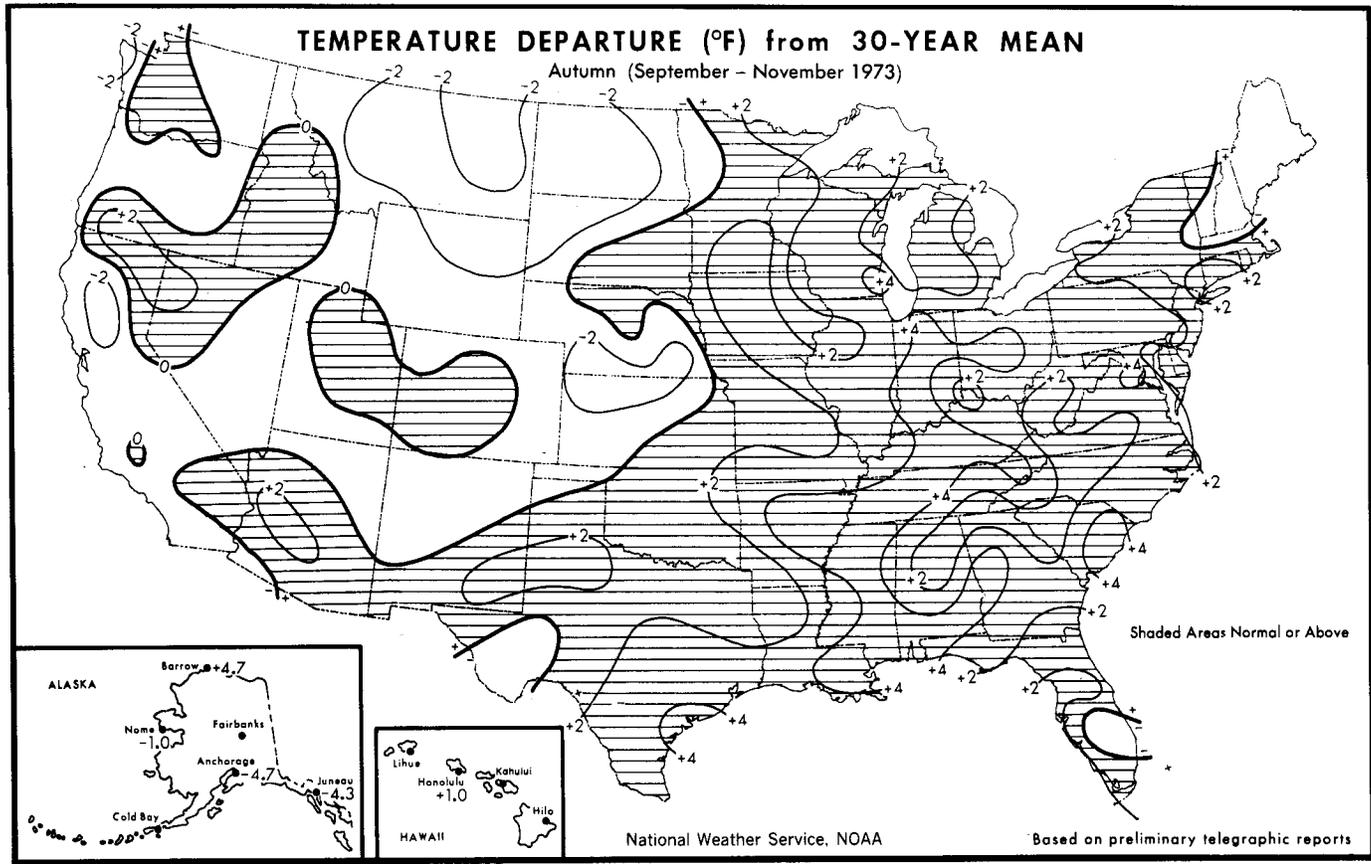
in. Past week temperatures below normal. Only local precipitation beginning of week. No injury to winter seed crops, trees and shrubs yet. Pruning and tying caneberrries. Digging of rhubarb for forcing. Feeding livestock, other routine chores. East: Temperatures last of December 2° to 5° above normal, precipitation 0.20 to 2.00 in. Snow end of week 2 to 10 in. many locations. Past week cold with highs in 20's and teens, lows in teens or lower with some stations recording 10° below zero. Snow fell many areas. Strong winds caused blizzard conditions on January 2 some locations. Cold weather slowed or stopped orchard work. Snow cover on seeded grains, no damage by cold. Calving, lambing early stages, some losses. Livestock on winter rations. Routine chores and tax preparation only activities.

WEST VIRGINIA: Continuous rain and snow with flood warnings during last week of December and temperatures above normal. Temperatures first week of January normal with highs in 30's, lows in 20's and 30's but into teens Wednesday. Rain or snow daily parts of State. Farm activity limited to necessary chores and feeding and caring for livestock.

WISCONSIN: Week of December 24 to 29 brought well above normal temperatures and daily precipitation. Temperatures turned sharply colder December 29 and averaged 15° subnormal first week in January. Lows below zero north every day, reaching to near 30° below zero 31st and January 1, 2. Coldest 41° below zero at Prentice on the 1st. Even southeast temperatures near zero many mornings. Afternoon highs stayed below zero north. Precipitation was light during this cold period, mostly less than 0.10 in. water equivalent in form of snow flurries.

WYOMING: During last week of December temperatures generally above normal, but varied with precipitation general. Temperatures past week 13° below normal to as much as 30° below normal. Extremes: 42° below zero at Big Piney and 38° at Kemmerer. Precipitation fairly general over State with amounts mostly less than 0.50 in.

Extreme cold combined with snow increased supplemental feeding of livestock. Frozen ponds and water pipes on many ranches made watering livestock difficult. No unusual death losses.



FALL WEATHER
(September 1973 through November 1973)

PRECIPITATION: The Atlantic Seaboard and the Southwest were generally below normal while the remainder of the Nation received above normal precipitation this past fall. The drought in the Pacific Northwest finally ended as good rains began in September and have continued throughout the period.

September precipitation was considerably above normal over most of the Plains States and generally normal to below normal over the eastern third of the Nation. Much of the above normal precipitation, in the southern Plains, was associated with Tropical Storm Delia, which struck near Galveston on the 3d. Lake Charles, La., received 19.96 in.

Precipitation during October was mostly above normal over the Central United States and in much of the Northwest. Large areas in the western Corn Belt and in east Texas and Arkansas received twice the normal rainfall. The Atlantic States, the extreme northern Plains, and most of the Southwest were below normal.

Most of October's precipitation fell during the first 2 weeks. Torrential rains October 8-14 of from 2 to 6 in. drenched a strip stretching from Texas and Louisiana through Minnesota.

Extremes were the rule for precipitation in November. The entire East Coast was well below normal and virtually no rain fell over most of Texas and New Mexico. Meanwhile, much of the South, the Ohio River Valley, Arizona and the entire Pacific Northwest received over twice the normal rainfall. Over 8.00 in. fell in Arkansas, western Tennessee and Kentucky, and southern Missouri. From 2.00 to 8.00 in. fell in the Pacific Northwest, helping to alleviate the drought in that area. The winter rainy season along the West Coast brought 2.00 to 25.00 in. from Santa Maria, Cal., northward.

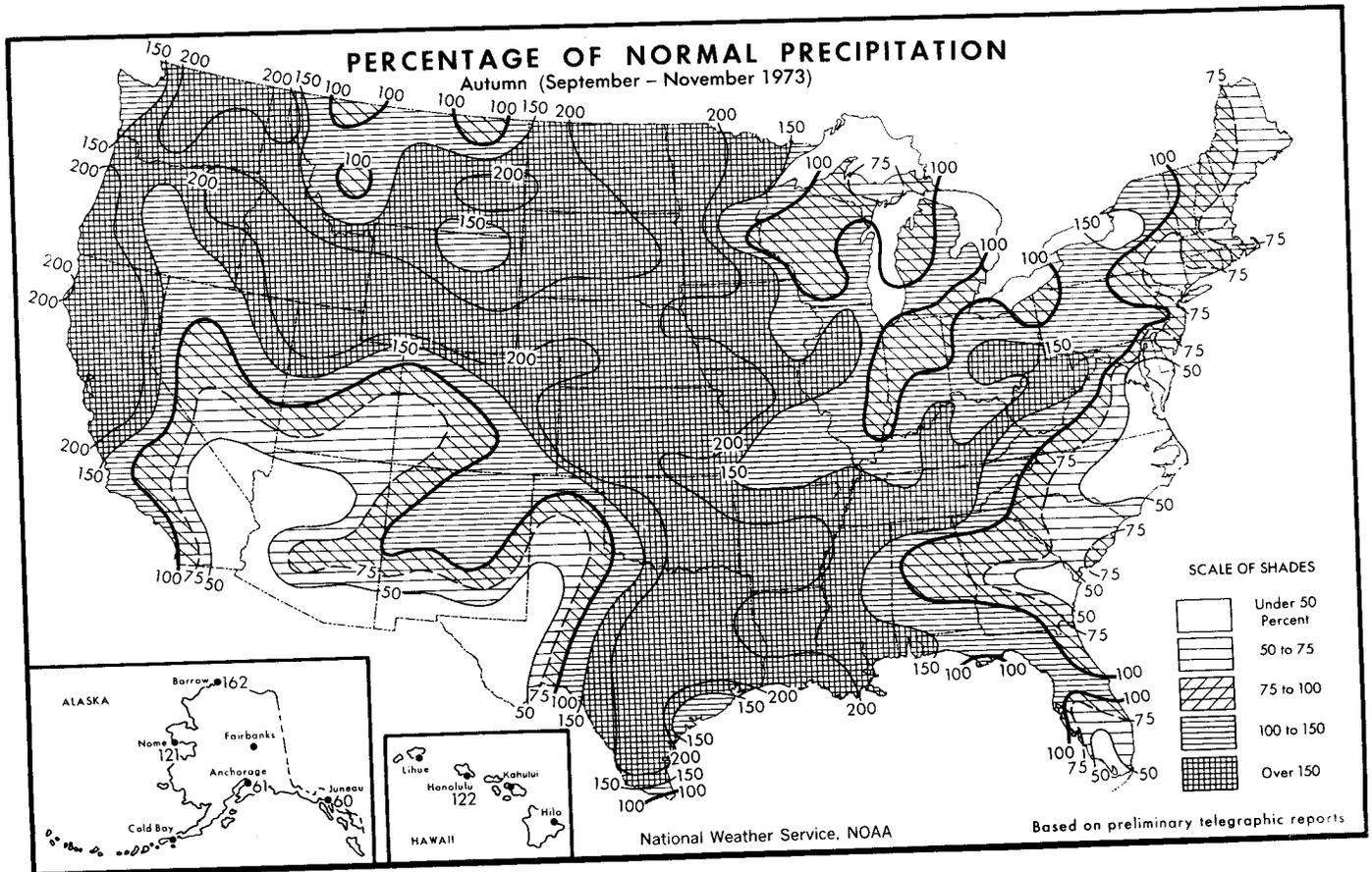
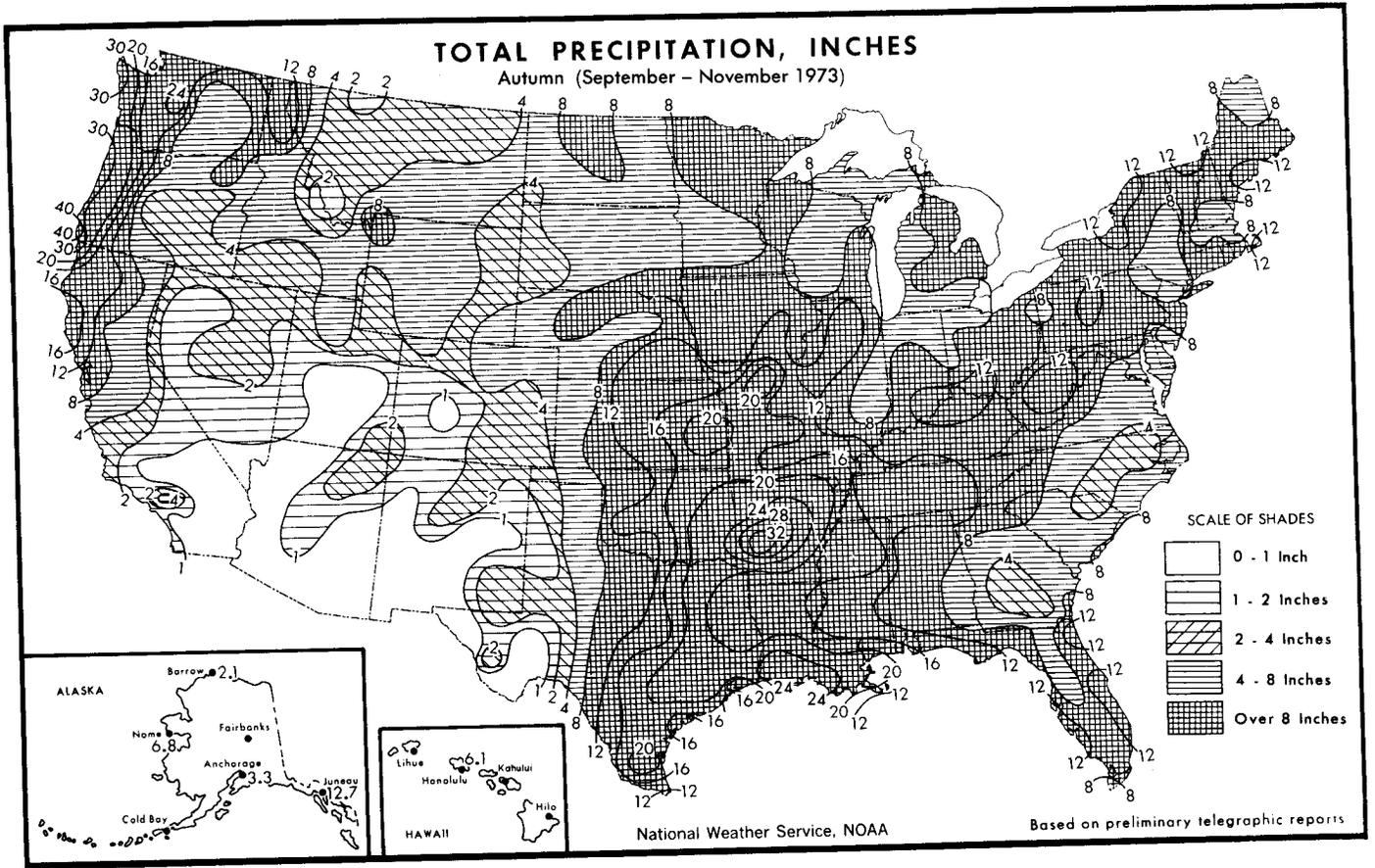
The heaviest rains in most areas fell early and late in the month while the rains along the Pacific coast were a daily nuisance. The first major snow storm of the season occurred on the 2d, dumping 7 to 10 in. over Montana, Wyoming, and Colorado.

TEMPERATURE: The eastern half of the Nation averaged warmer than normal over the fall season, but below normal over the western half.

Temperatures averaged cooler than normal during September in the West, but as is often the case, were warmer than normal over the eastern half of the United States. In the West, greatest departures occurred over the Rocky Mountains and the western Plains. Goodland and Concordia, Kans., and North Platte, Nebr., all 6° below normal. In the East, the greatest departures occurred through the Ohio River Valley, western Kentucky and Tennessee and southeastward through Georgia.

October temperatures averaged near or slightly above normal over practically the entire Nation. Most of the Corn Belt and Lower Mississippi River Valley averaged 3° above normal. Mild autumn temperatures generally prevailed throughout the month. As the month ended, cold Arctic air drove deep into the Nation bringing the season's first frost to many areas of the Corn Belt and readings in the 30's and 40's in the Southeast.

November began much colder than expected, ended unusually warm, and experienced very marked variations in between. Overall, the Nation was generally warmer than normal except for the northern Rockies and Great Plains, California, and parts of New England and Florida. It was the warmest November on record along the Texas-Louisiana coast, and one of the coldest in central Montana.





FIRST CLASS MAIL

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Heating Degree Days (Base 65° F.)

December 1973

ALA. Birmingham . . .	614	MAINE, Caribou . . .	1270	OKLA. Okla. City . . .	787
Mobile . . .	388	Portland . . .	970	Tulsa . . .	824
Montgomery . . .	506	MD. Baltimore . . .	852	OREG. Astoria . . .	611
ALASKA, Anchorage . . .	1440	MASS. Boston . . .	782	Burns U. . .	997
Barrow . . .	2186	Chatham . . .	755	Medford . . .	654
Fairbanks . . .	2124	MICH. Alpena . . .	1298	Pendleton . . .	721
Juneau . . .	1142	Detroit . . .	1119	Portland . . .	624
Nome . . .	1783	Flint . . .	1132	Salem . . .	665
ARIZ. Flagstaff . . .	987	Grand Rapids . . .	1196	PA. Allentown . . .	922
Phoenix . . .	291	Houghton Lake . . .	1296	Erie . . .	1022
Tucson . . .	390	Lansing . . .	1182	Harrisburg . . .	887
Winslow . . .	925	Marquette U. . .	1297	Philadelphia . . .	810
Yuma . . .	227	S. Ste. Marie . . .	1413	Pittsburgh . . .	978
ARK. Fort Smith . . .	764	MINN. Duluth . . .	1650	Scranton . . .	1036
Little Rock . . .	680	Internatl Falls . . .	1751	R. I. Providence . . .	819
CALIF. Bakersfield . . .	464	Minneapolis . . .	1493	S. C. Charleston . . .	428
Eureka U. . .	419	Rochester . . .	1546	Columbia . . .	477
Fresno . . .	544	St. Cloud . . .	1572	Greenville . . .	712
Los Angeles U. . .	175	MISS. Jackson . . .	486	S. DAK. Aberdeen . . .	1626
Red Bluff . . .	550	Meridian . . .	464	Huron . . .	1499
Stockton . . .	533	Vicksburg U. . .	---	Rapid City . . .	1223
San Diego . . .	205	MO. Columbia . . .	1053	Sioux Falls . . .	1481
San Francisco . . .	1029	Kansas City . . .	1076	TENN. Chattanooga . . .	722
COLO. Denver . . .	1075	St. Louis . . .	1077	Knoxville . . .	734
Grand Junction . . .	1019	Springfield . . .	933	Memphis . . .	667
Pueblo . . .	838	MONT. Billings . . .	1035	Nashville . . .	753
CONN. Bridgeport . . .	988	Glasgow . . .	1522	TEX. Abilene . . .	561
Hartford . . .	708	Great Falls . . .	1111	Amarillo . . .	813
D. C. Washington . . .	313	Havre . . .	1360	Austin . . .	387
FLA. Apalachicola . . .	144	Helena . . .	1136	Beaumont . . .	384
Pt. Myers . . .	357	Kalispell . . .	1107	Brownsville . . .	130
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Key West . . .	200	Missoula . . .	1070	Dallas . . .	---
Lakeland U. . .	93	NEBR. Grand Island . . .	1303	Del Rio . . .	362
Miami . . .	193	Lincoln . . .	1333	El Paso . . .	592
Orlando . . .	239	Norfolk . . .	1324	Fort Worth . . .	509
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GA. Atlanta . . .	561	NEV. Ely . . .	1170	Midland . . .	561
Augusta . . .	480	Las Vegas . . .	576	San Angelo . . .	476
Macon . . .	435	Reno . . .	820	San Antonio . . .	391
IDAHO, Boise . . .	817	Winnemucca . . .	881	Victoria . . .	254
Lewiston . . .	787	N. H. Concord . . .	1110	Waco . . .	460
Pocatello . . .	1089	N. J. Atlantic City . . .	779	Wichita Falls . . .	624
ILL. Cairo U. . .	853	Trenton U. . .	802	UTAH, Milford . . .	1063
Chicago . . .	1158	N. MEX. Albuquerque . . .	955	Salt Lake City . . .	975
Moline . . .	1274	Roswell . . .	710	VT. Burlington . . .	1160
Peoria . . .	1237	N. Y. Albany . . .	1136	VA. Lynchburg . . .	851
Rockford . . .	1260	Binghamton . . .	1109	Norfolk . . .	575
Springfield . . .	1140	Buffalo . . .	1107	Richmond . . .	744
IND. Evansville . . .	954	New York . . .	785	Roanoke . . .	826
Fort Wayne . . .	1166	Rochester . . .	1040	WASH. Colville . . .	1019
Indianapolis . . .	1052	Syracuse . . .	1094	Omak . . .	---
South Bend . . .	1102	N. C. Asheville . . .	772	Quillayute . . .	702
IOWA, Burlington . . .	1253	Charlotte . . .	715	Seattle-Tacoma . . .	632
Des Moines . . .	1325	Greensboro . . .	813	Spokane . . .	978
Dubuque . . .	1376	Hatteras R. . .	389	Walla Walla U. . .	717
Sioux City . . .	1343	Raleigh . . .	690	Yakima . . .	895
KANS. Concordia . . .	1179	Wilmington . . .	459	W. VA. Beckley . . .	951
Dodge City . . .	1018	N. DAK. Bismarck . . .	1709	Charleston . . .	833
Goodland . . .	1083	Fargo . . .	1698	Huntington . . .	845
Topeka . . .	1082	Williston U. . .	1608	Parkersburg U. . .	869
Wichita . . .	1021	OHIO. Akron-Canton . . .	988	WIS. Green Bay . . .	1363
KY. Lexington . . .	880	Cincinnati U. . .	964	Madison . . .	1342
Louisville . . .	860	Cleveland . . .	946	Milwaukee . . .	1218
LA. Baton Rouge . . .	382	Columbus . . .	963	WYO. Casper . . .	1175
Lake Charles . . .	385	Dayton . . .	1045	Cheyenne . . .	1099
New Orleans . . .	355	Toledo . . .	1157	Lander . . .	1210
Shreveport . . .	557	Youngstown . . .	1037	Sheridan . . .	1169

Preliminary reports from airport locations, except those marked U for urban and R for rural.
 *Estimated.