

Weekly Weather & Crop Bulletin

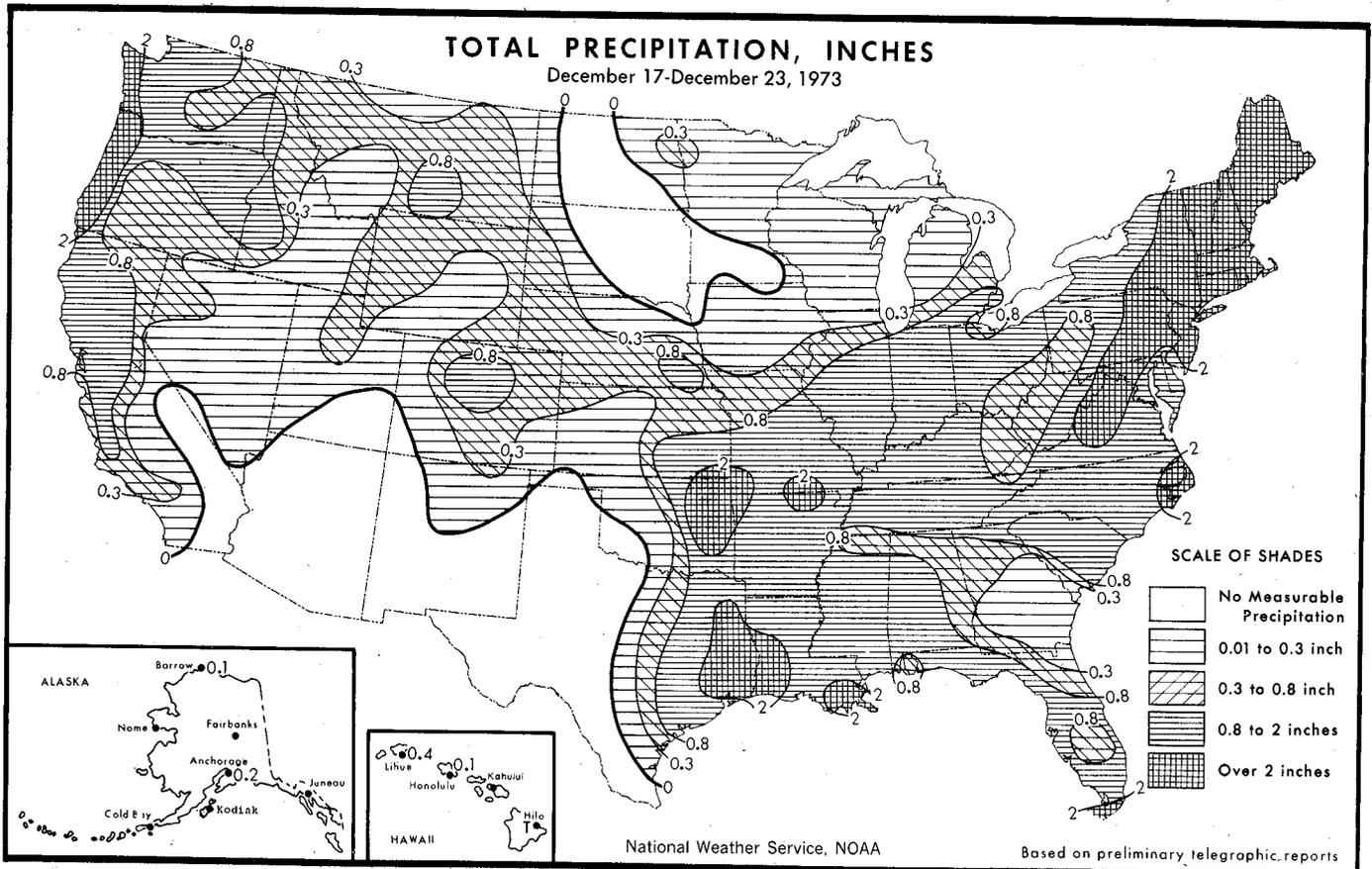
U. S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration

U. S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service

Volume 60, No. 52

Dec. 24, 1973

Washington, D. C.



NATIONAL WEATHER SUMMARY

HIGHLIGHTS: Winter took most of Nation to task with widespread snow, sleet and heavy rains. Sub-freezing temperatures occurred throughout Texas and as far south as central Florida with temperatures averaging 6° to 12° below normal from the Plains eastward.

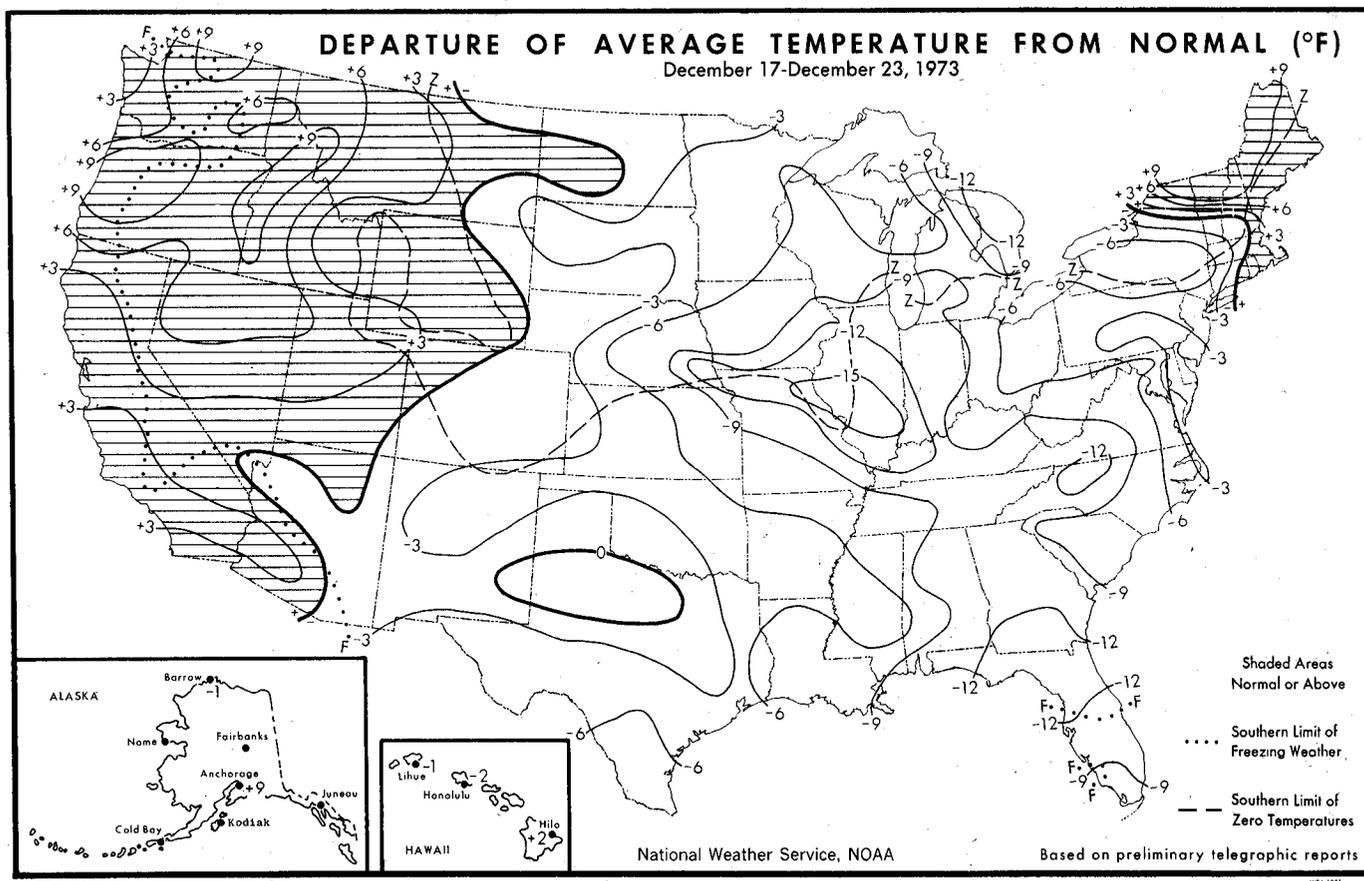
PRECIPITATION: Most significant precipitation was associated with one of three intense storm systems which played major roles in the week's weather. From 2.00 to 4.50 in. precipitation fell over New England, with heavy snow in many areas. The eastern megalopolis received 10 in. or more of snow early and late in the week. The eastern Corn Belt was blanketed with 10 to 20 in. at midweek.

Monday morning found an intense Low pressure storm system off the Carolinas bringing precipitation to most of the Atlantic coast while an extensive high pressure system covered the Nation's mid-section. With its counter-clockwise circulation, the Carolina Low brought moist air, driven by gale-

force winds, to New England and the precipitation fell as rain. As this moist air moved inland, it was cooled by the high pressure air and snow fell from New York to Tennessee. The rains caused some flash flooding along the New England coast. The only other significant precipitation was in the Pacific Northwest where a Low pressure system was moving inland over Washington.

Early Tuesday the eastern Low had moved northward over Canada, but continued to bring snow and bitter cold to Pennsylvania and New York State. By this time a 2d major storm system was strengthening over Wyoming. The system moved southward over the Texas panhandle depositing snow from Montana to the Central Plains and freezing drizzle in eastern Kansas and Missouri. (Moisture was being fed into the system from Gulf along the backside of the High pressure area which had moved eastward.)

During Wednesday the Low deepened markedly and spread snow and freezing rain north and eastward into the Great Lakes area, paralyzing portions of



the Central United States. Snowfall amounts included Lafayette, Ind., 19 in.; Springfield, Ill., 15 in.; Detroit, Mich., 10 in. Heavy rains fell along the Gulf with 1.00 to 2.00 in. falling from eastern Texas to Alabama and northward through Arkansas.

Thursday a High over the Plains strengthened bringing clear skies to the Nation's midsection. As the Low moved over the southeast, heavy rain fell over the eastern third. Heavy rains, with some flooding occurred in New England. New York City has already received over 8.00 in. of precipitation this month, a new record.

The Holiday weekend began with heavy snow warnings for the upper Appalachians and travel advisories for most Atlantic Coast States while the remainder of the Nation was clear.

Saturday the third major storm began to develop over the Rockies as a weak Low in Wyoming. The storm intensified, combining with a Low over Oklahoma. Snow and freezing rain covered a broad area of the southern Plains, and heavy rains of 1.00 in. or more fell over the lower Mississippi.

TEMPERATURE: One of the coldest weeks so far this

winter in many areas brought freezing temperatures to the Gulf. Corpus Christi, Texas, reported 18° on the 21st, a record low for December. Temperatures averaged 6° to 12° below normal throughout the southeast.

The high pressure system located over the Plains on Monday morning brought cold weather southward to the Gulf. Early morning lows included 27° at Mobile, Ala., 28° at Lake Charles, La., and 28° at San Antonio, Texas. Temperatures over the northern Rockies were moderated somewhat by warmer air moving up along the backside of the High.

Temperatures in the South warmed markedly on Tuesday and Wednesday as the Low pressure storm system over the southern Rockies and the High moved eastward bringing warm Gulf air to the area. However, as the Low moved eastward another massive High brought record breaking temperatures southward. Subzero temperatures were recorded from Nebraska-Colorado northward and all but the southern tip of Texas froze in the Nation's midsection on Thursday. Friday morning was even colder as Corpus Christi recorded 18°, a record for December. As the High moved eastward, freezing temperatures reached into central Florida. Orlando, Fla., reported 31°, Tallahassee, 20°.

Season's Greetings and New Year Wishes

NATIONAL AGRICULTURAL SUMMARY

AGRICULTURAL HIGHLIGHTS: Abnormal cold slowed winter wheat growth in the southern Great Plains, but the Texas cotton harvest continued rapidly. A hard freeze in the Texas Lower Rio Grande Valley damaged citrus and vegetables.

SMALL GRAINS: Although colder than normal temperatures limited winter wheat growth in the southern Great Plains, crop reporters continued to rate the crop in good condition in Nebraska, Kansas, and Oklahoma. Moderate precipitation from winter storms fell over eastern parts of Colorado, Kansas and Oklahoma; light amounts fell in the western parts. Only traces fell in the Texas Panhandle, where dryland wheat continued to decline and grazing was limited to irrigated fields. Snow blanketed dormant small grains in the northern Great Plains and elsewhere in the Corn Belt.

Another week of above normal temperatures and widespread precipitation from Montana to Washington and southwards into California continued to help small grains, now reported in good condition. In Washington and Oregon, recent heavy rainfall has caused some runoff and field erosion. Very little snow covers most low elevation areas of the northwest.

Rains improved small grains in most South Atlantic States. Soil moisture levels are adequate to surplus throughout the South and small grains are mostly good.

CORN: Adverse weather slowed the corn harvest wrapup in Kansas and Nebraska where less than 5% of the acreage remains unharvested. Corn harvesting is generally complete except for scattered fields remaining in the Southern States.

COTTON: Another week of rapid progress advanced the Texas cotton harvest to 90% complete compared to only 65% a year earlier and a 5-year average of 82%. Wet weather slowed the Oklahoma cotton harvest and thwarted farmer's efforts to finish picking the small amount of unharvested acreage in other Southern States.

About 1% of the cotton acreage remains for harvest in Mississippi and 2% in Arkansas. Harvest is complete in Louisiana and is nearly complete in other Southern States. In the West, cotton harvest neared completion in California and New Mexico, but continued active in Arizona.

SOYBEANS: Soybean harvesting entered the wrapup stage in Kansas, Arkansas and Mississippi with only 1 or 2% of the acreage unharvested. Wet weather delayed the Texas and Oklahoma soybean harvests with a larger proportion of the acreage left to finish. Louisiana farmers completed

their final fields and only scattered fields remain unharvested elsewhere in the South.

OTHER CROPS: Tobacco sales in Kentucky were light last week before the market closed on December 20. Farmers in the Pee Dee area of South Carolina continued to prepare tobacco beds for spring planting.

Potato digging continued as fields dried in the Delta and central coast areas of California. Potato marketing was active in Idaho.

FRUITS AND NUTS: Subfreezing temperatures for 12 hours during the evening of the 20th and the morning of the 21st damaged the Texas citrus crop, but tree damage appears minimal because of dryness. Leaf burn ranged from moderate to severe. Full extent of the damage is yet unknown, but the heaviest losses appear to be in early oranges. Valencia oranges and grapefruit appear to be less affected. Some fruit has already started to drop because of the freeze.

Florida citrus tree and fruit conditions were very good despite scattered frost which caused slight leaf burn in the coldest areas. Citrus harvesting continued active in California and Arizona.

Pecan harvesting neared completion in the South.

VEGETABLES: A hard overnight freeze December 20-21 gripped the Texas Lower Rio Grande Valley with temperatures ranging from 28° at Mercedes to 15° at Rio Grande City and San Manuel. The full extent of freeze damage to vegetable crops is not yet known. All peppers and tomatoes were frozen. Mature and young cabbage fields suffered some damage. Carrots, lettuce and onion crops are believed to have only minimal damage. In the San Antonio-Winter Garden area, the freeze killed tender vegetables, but the carrot, cauliflower and spinach harvests continued.

In Florida, another week with frost and strong winds caused little additional damage to vegetable crops, but the cold slowed all crop growth.

Lettuce harvesting was active near Yuma, Arizona and increased at Imperial, California.

PASTURES AND LIVESTOCK: Most of the northern United States entered the Christmas Holidays with a blanket of snow on the ground which limited outside work and increased livestock feeding requirements. Pastures improved in the South Atlantic Region and are rated mostly good there and in the South Central Region. Winter pastures are holding up well in the Northwest and moderate weather has helped to stretch hay supplies. Livestock are in good condition in most areas of the Country.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Dec. 23, 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 . . .	36	-11	1.0	-.1	La.Baton Rouge . . .	46	- 8	1.1	0	Youngstown	24	- 5	1.2	+.6
Mobile	44	-10	.6	-.7	Lake Charles . . .	47	- 7	2.4	+1.1	OKLA.Okla. City . .	38	- 2	.1	-.2
Montgomery	39	- 9	.8	-.3	New Orleans	47	- 8	2.3	+1.4	Tulsa	34	- 5	2.4	+2.0
ALASKA,Anchorage . .	23	+ 9	.2	0	Shreveport	43	- 6	1.8	+.7	OREG.Astoria	47	+ 4	2.8	-.4
Barrow	-14	- 1	.1	+.1	MAINE.Caribou . . .	22	+ 9	4.2	+3.6	Burns	35	+ 6	.7	+.4
Fairbanks	---	---	---	---	Portland	31	+ 7	4.0	+3.1	Medford	45	+ 8	.6	-.2
Juneau	---	---	---	---	MD.Baltimore	29	- 6	1.9	+1.2	Pendleton	44	+ 8	1.8	+1.4
Kodiak	---	---	---	---	MASS.Boston	34	+ 2	3.3	+2.5	Portland	47	+ 6	2.3	+.8
Nome	---	---	---	---	Chatham	36	---	1.2	---	Salem	52	+11	2.8	+1.1
ARIZ.Flagstaff . . .	33	- 2	T	-.4	MICH.Alpena	11	-12	.2	-.2	PA.Allentown	27	- 3	3.0	+2.3
Phoenix	54	+ 3	0	-.2	Detroit	21	- 7	1.0	+.5	Erie	24	- 4	1.0	+.4
Tucson	51	0	0	-.2	Flint	17	- 8	.6	+.2	Harrisburg	29	- 3	2.3	+1.6
Winslow	32	0	0	-.1	Grand Rapids	17	-10	.2	-.3	Philadelphia	31	- 2	1.8	+1.2
Yuma	57	+ 2	0	-.1	Houghton Lake	17	- 6	T	-.4	Pittsburgh	26	- 4	.5	-.1
ARK.Fort Smith . . .	37	- 5	2.0	+1.4	Lansing	16	-10	.7	+.3	Scranton	22	- 6	2.8	+2.3
Little Rock	38	- 4	1.1	+.2	Marquette	18	- 5	.2	-.2	R.I. Providence . . .	32	+ 1	3.5	+2.7
CALIF.Bakersfield . .	51	+ 3	.2	0	Muskegon	20	- 9	.1	-.4	S.C. Charleston . . .	43	- 7	1.3	+.6
Eureka	52	+ 3	1.6	0	S. Ste. Marie	10	-10	.2	-.3	Columbia	41	- 5	1.4	+.6
Fresno	49	+ 3	.2	-.3	MINN.Duluth	7	- 6	.1	-.2	Greenville	34	- 9	1.2	+.3
Los Angeles	63	+ 5	.3	-.3	Internatl Falls . . .	6	- 2	1	-.1	S.D. Aberdeen	12	- 4	T	-.1
Red Bluff	48	+ 2	1.9	+.9	Minneapolis	13	- 4	T	-.2	Huron	17	- 1	T	-.1
San Diego	58	+ 1	-.5	-.5	Rochester	9	- 8	T	-.2	Rapid City	24	- 3	.4	+.3
San Francisco	51	+ 2	.8	-.2	St. Cloud	11	- 4	.1	-.1	Sioux Falls	16	- 5	T	-.1
Stockton	48	+ 2	1.2	+.5	MISS.Jackson	43	- 6	1.2	-.1	TENN.Chattanooga . .	32	-10	1.2	0
COLO.Denver	31	- 1	1.8	+1.7	Meridian	44	- 4	1.7	+.5	Knoxville	31	-10	1.2	+.2
Grand Junction . . .	28	0	T	-.2	MO.Columbia	22	- 9	1.1	+.7	Memphis	36	- 6	.8	-.3
Pueblo	31	- 2	.4	+.3	Kansas City	25	-10	.4	0	Nashville	32	- 9	1.2	+.2
CONN.Bridgeport . . .	30	- 2	2.2	+1.5	St. Louis	20	-14	1.3	+.8	TEX.Abilene	46	0	T	-.3
Hartford	24	- 5	4.4	+3.6	Springfield	28	- 8	1.5	+1.0	Amarillo	38	- 1	T	-.2
D.C.Washington . . .	33	- 4	2.0	+1.4	MONT.Billings	31	+ 3	1.2	+1.1	Austin	49	- 3	.7	+.1
FLA.Apalachicola . .	44	-12	.2	-.5	Glasgow	17	0	.4	+.3	Beaumont	48	- 6	1.2	0
Daytona Beach	48	-12	.6	---	Great Falls	31	+ 4	.7	+.6	Brownsville	56	- 7	0	-.4
Ft. Myers	56	- 9	.8	+.5	Havre	24	+ 3	.2	+.1	Corpus Christi	51	- 8	.1	-.4
Jacksonville	44	-12	.2	-.3	Helena	29	+ 5	.1	0	Dallas	---	---	---	---
Key West	64	- 6	2.5	+2.1	Kalispell	32	+ 7	.4	+.1	Del Rio	48	- 4	0	-.2
Lakeland	51	-11	.4	-.1	Miles City	22	- 1	.4	+.3	El Paso	40	- 4	T	-.1
Miami	59	- 9	1.5	+1.1	Missoula	33	+10	.5	+.3	Fort Worth	47	0	.5	0
Orlando	51	-10	1.0	+.5	NEBR.Grand Island . .	18	- 8	.7	+.6	Galveston	53	- 4	1.2	+.2
Tallahassee	42	-12	1.2	+.4	Lincoln	15	-15	.9	+.7	Houston	50	- 3	1.3	+.3
Tampa	51	-11	.9	+.5	Norfolk	19	- 6	.1	-.1	Lubbock	41	0	T	-.1
W.Palm Beach	58	-10	1.0	---	N.Platte	21	- 6	.4	+.3	Midland	43	- 3	0	-.1
GA,Atlanta	34	-11	.7	-.3	Omaha	19	- 7	.2	0	San Angelo	46	- 2	0	-.2
Augusta	36	-11	T	-.8	Valentine	23	- 1	.1	0	San Antonio	47	- 6	.2	-.2
Macon	39	-10	.3	-.6	NEV.Ely	30	+ 4	.1	-.1	Victoria	52	- 5	.8	+.2
Savannah	41	-10	.1	-.6	Las Vegas	45	0	T	-.1	Waco	47	- 3	.8	+.2
HAWAII,Hilo	74	+ 2	T	-3.5	Reno	37	+ 6	.2	-.1	Wichita Falls	44	0	T	-.3
Honolulu	72	- 2	.1	-.6	Winnemucca	36	+ 6	.4	+.2	UTAH,Blanding	29	0	0	-.3
Kahului	---	---	---	---	N.H.Concord	23	- 1	3.1	+2.4	Salt Lake City	35	+ 5	.7	+.4
Lihue	71	- 1	.4	-.8	N.J.Atlantic City . . .	32	- 3	2.3	+1.6	VT.Burlington	30	+11	3.0	+2.5
IDAHO,Boise	41	+ 9	1.1	+.8	Trenton	31	- 3	2.2	+1.5	VA.Lynchburg	27	-11	2.3	+1.6
Lewiston	42	+ 7	1.3	+1.0	N.MEX.Albuquerque . .	31	- 6	T	-.1	Norfolk	39	- 3	1.3	+.7
Pocatello	28	+ 1	.2	0	Roswell	39	0	0	-.1	Richmond	32	- 7	1.5	+.8
ILL.Cairo	28	-11	1.0	+.2	N.Y.Albany	17	- 8	3.1	+2.5	Roanoke	28	-10	1.7	+1.0
Chicago	18	-10	.7	+.3	Binghamton	18	- 7	2.2	+1.6	WASH.Colville	34	- 7	.7	+.3
Moline	13	-13	.4	0	Buffalo	18	- 9	1.6	+.9	Omak	35	+10	1.0	+.6
Peoria	14	-14	.9	+.5	New York	31	- 4	2.4	+1.6	Quillayute	43	+ 2	2.1	-1.7
Rockford	15	- 9	.2	-.2	Rochester	20	- 7	1.1	+.6	Seattle-Tacoma	47	+ 6	1.3	-.2
Springfield	15	-16	1.2	+.8	Syracuse	18	- 8	1.6	+.9	Spokane	36	+ 6	1.0	+.4
IND.Evansville	23	-13	.8	+.1	N.C.Asheville	30	-10	1.5	+.8	Walla Walla	44	+ 6	1.5	+1.1
Ft. Wayne	17	-10	1.3	+.8	Charlotte	31	-11	1.4	+.6	Yakima	38	+ 7	.7	+.4
Indianapolis	20	-11	1.3	+.7	Greensboro	27	-12	1.7	+1.0	W.Va.Beckley	24	-10	.8	0
South Bend	20	- 8	1.2	+.7	Hatteras	45	- 3	3.9	+2.8	Charleston	29	- 8	.4	-.3
IOWA,Burlington . . .	16	-12	.4	+.1	Raleigh	33	- 9	1.5	+.8	Huntington	28	- 9	.4	-.3
Des Moines	16	- 8	.2	-.1	Wilmington	41	- 7	1.0	+.2	Parkersburg	29	- 6	.4	-.2
Dubuque	13	-10	.1	-.3	N.DAK.Bismarck	18	+ 1	T	-.1	WIS.Green Bay	15	- 6	T	-.3
Sioux City	18	- 6	T	-.1	Fargo	9	- 4	T	-.1	La Crosse	13	- 7	T	-.2
KANS.Concordia	25	- 6	.3	+.1	Williston	15	0	.1	0	Madison	14	- 7	T	-.3
Dodge City	31	- 3	.1	0	OHIO,Akron-Canton . .	24	- 5	.9	+.4	Milwaukee	20	- 4	.2	-.2
Goodland	28	- 2	.3	+.2	Cincinnati	25	- 8	1.0	+.4	WYO.Casper	29	+ 2	.2	+.1
Topeka	26	- 7	.6	+.3	Cleveland	27	- 3	1.2	+.7	Cheyenne	31	+ 2	.5	+.4
Wichita	29	- 6	1.1	+.9	Columbus	24	- 6	.8	+.3	Lander	25	+ 2	.3	+.4
KY,Lexington	27	- 8	1.2	+.4	Dayton	21	- 9	.8	+.3	Sheridan	26	0	.4	+.3
Louisville	28	- 8	1.2	+.5	Toledo	19	- 8	.6	+.1	P.R.San Juan	77	0	1.1	0

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: Precipitation over most of State Tuesday and Wednesday including up to 1 in. snow Wednesday evening over parts north and central. Clear and much colder Thursday and Friday, warmer over weekend. Farm activities limited to routine chores and care of livestock and poultry. Fair progress early week harvesting remaining cotton, corn and soybeans.

Only small amount of expected production still in field, harvest complete most farms. Small grains and winter grazing crops good to excellent condition despite subfreezing temperatures. These crops afforded good grazing except few fields too wet to support livestock. Cold weather necessitated feeding large amounts of hay, but roughage supplies adequate most farms.

ARIZONA: Sunny, warm weather onset of week interrupted Tuesday by dry, cold front accompanied by moderate to strong winds. Sunny, breezy, cool conditions Wednesday persisted until cold front passed through State Saturday. Very light mountain snows, generally 2 in. or less accompanied this front north, east; sprinkles elsewhere. Sunday partly cloudy, cold, few light snow showers eastern mountains.

Cotton harvest continued rapid, weather conditions good. Harvest in varying stages. Second picking, scrapping, residue disposal full swing Yuma. Sorghum harvest continued Graham, Yuma counties, yields varying greatly Yuma. Good progress sugar beets. Small grains steady growth, some planting continued. First irrigation applied on some late plantings winter wheat Cochise County. Alfalfa hay activity seasonal low; new, renovated fields good progress. Lettuce harvest Salt River Valley slow, to be completed soon. Harvest at Yuma active. Harvest other winter vegetables active, good weather.

Harvest navel oranges, sweets, tangelos, lemons continued but slower due to holiday. Grapefruit, lemon harvest continued Yuma. Ranges fair to poor. High ranges north received scattered rain, snow. Low desert ranges remain dry. Supplemental feeding for winter maintenance. Stockwater diminishing, currently adequate. Cattle, calves generally good condition, result of relatively mild winter. Sheep, lambs mostly fair. Lambing neared completion.

ARKANSAS: Temperatures mostly subnormal ranging from 3° above normal extreme southwest to 6° below normal north and northeast. Extremes: 70° Texarkana on 23rd, 2° at Gilbert on 21st. Precipitation general over State with most stations reporting 1.00 to 2.00 in. Heaviest 3.34 in. at Eldorado. Fair midweek, rain first and last of week.

Harvesting soybeans, cotton practically completed. Cotton picking about 98% complete. Only 1% or 2% of soybeans remain to be combined. Crop residue shredded and disked. Virtually all winter grains and cover crops planted and responding well to excellent growing conditions. Livestock good. Pastures continued to provide some grazing.

CALIFORNIA: Precipitation moved into the north and central portions Sunday and Monday, in north portion midweek, and over most of State Friday. Temperatures above normal most areas with morning lows remaining above freezing most central valley and coastal valley areas. Afternoon highs in 70's along south coast

several days. Skies quite cloudy most of week north and central with considerable fog in central valley.

Cool, damp weather northern half slowing fieldwork. Planting small grains continued as weather permitted. Early plantings mostly good. Some second picking still to be done on cotton. Planting alfalfa. Grape harvest complete. Pruning, tying, fertilizing, spraying vineyards. Lemon harvest continued. Navel orange harvest active. Some grapefruit rejected, lack of maturity. Tangerine harvest active, fruit good quality. Date harvest active.

Artichoke harvest seasonally slow. Broccoli, cauliflower light central coast, southern California strong; many central coast fields diverted to processors. Celery lighter south coast, expected increase, shippers return normal schedules. Salinas about complete. Carrot digging continued Kern, Riverside. Lettuce increased Imperial, at standstill Palo Verde. Potato digging continued as fields dry Delta, central coast.

Cool, damp, cloudy weather continued to retard growth range grasses. Supplemental feeding continued but declined somewhat as grass develops and as rains in higher elevations melted snows making forage accessible. Water supplies adequate, streams flowing. Livestock good. Late lambing, calving continued. Movement to market slow due to lower prices. Movement of bees to almond groves continued.

COLORADO: Mild temperatures early week east of Divide, some readings in mid to upper 60's. Pacific cold front moved through State early Tuesday and dropped snow in mountains. An Arctic front followed late Tuesday morning which dropped temperatures and caused blizzard conditions east of mountains with 2 to 12 in. new snow over much of State.

Wednesday morning temperatures plunged to below zero in many spots east of Divide. From midweek through Friday temperatures slowly moderated and fair to partly cloudy skies prevailed.

Limited farm activity especially along eastern slope and plains. West slope and southwest area generally open. Supplemental feeding of livestock necessary in areas of snowcover although most snow had cleared by weekend. Livestock remain generally good. Heavy snow over Christmas weekend will again hamper farm activity for this week.

FLORIDA: Moderate to heavy amounts of precipitation early and late week. Generally dry and cold midweek. Coldest morning 18th with below freezing temperatures and scattered frost as far south as the Everglades.

Soil moisture now adequate over most of State. Field crop harvest practically complete. Tobacco beds and some land prepared for spring planting. Recent cold weather caused damage to a large acreage of sugarcane, including mature and young plant cane. Sugarcane harvest continued as rapidly as possible. Small grains responded to improved moisture conditions but cold weather prevented optimum growth. Pastures very poor to fair, supplemental feeding general. Cattle and calves fair to good.

Additional cold, frost and wind during period caused little additional damage to vegetables except Dade County beans. Tomatoes hurt by strong winds and rain 20th. Growth slowed for all crops

but cold beneficial for some. Adverse weather and holidays slowed harvesting but most commodities will be in good volume in January. Beans will be in reduced supply for several weeks and cucumbers and squash will be very light. Citrus tree and fruit condition very good. Recent rain helped keep cold damage to minimum--slight leaf burn only in coldest areas--harvest slowed last week due to Christmas.

GEORGIA: Temperatures averaged 9° to 12° subnormal. Colder northwest Friday afternoon and southeast Saturday. Warming trend Monday through Friday. Rain-fall about 0.30 in. south to 0.80 in. north.

Soil moisture adequate to excessive. Small grains and pasture mostly good. Harvest of cotton, corn, soybeans and pecans approached completion, but slowed by rains. Livestock mostly good.

HAWAII: Favorable weather throughout State. Warm days, cool nights good for fruit setting. Vegetable growth and maturity generally slow. Irrigation becoming active again as excess moisture from recent rains used up. Pastures in good condition and improving. Forage feed adequate. Cattle good. Supplies of most vegetables adequate. Bananas and papayas in good supply. Pineapple harvest mainly for fresh market. Sugar harvest about completed.

IDAHO: Mild temperatures and above normal precipitation western section. Storm fronts moved through beginning, end of week with general precipitation all areas. Arctic air spilled over Continental Divide from Montana about midweek, lows to around 0° in upper Snake River Valley. Precipitation as rain in lower valleys with snow level remaining near 5,000 feet southwest and 4,000 feet southeast and north.

Farm activities: Mainly feeding livestock, repairing farm machinery, and working on farm records. Winter grains good condition. Livestock feed requirements reduced by moderate winter weather. Feeding areas wet and muddy. Early calving starting lower elevation areas. Potato marketing active and some sales of hay to out-of-State buyers.

ILLINOIS: Cold, snowy. Temperatures 10° to 15° below normal. A very cold spell Friday, when lows of 10° to 17° below zero were felt central part. Snow widespread over week with heaviest falls on Wednesday and Thursday when as much as 5 to 10 in. fell each day north and central. Main farm activities: Livestock care, other routine farm chores, and digging out of heavy snow cover.

INDIANA: Cold, stormy. Temperatures 4° to 9° below normal. First sub-zero temperatures December 22, ranged from 3° above at South Bend to 14° below zero at Terre Haute. Major snow storm 19th produced 4 to 19 in. snow, an all-time record 24-hour amount in central and portions north.

Rural activities seriously curbed due to snow and drifting. Precipitation heavy for period, 1.30 to 1.80 in. Rapid thawing and rain through Christmas Holiday. Virtually no outside work done last week except necessary snow removal, caring for livestock and chores.

IOWA: Cold week. Temperatures 5° subnormal northwest and 10° to 12° subnormal southeast. Coldest the 20th west and 21st east. Lows: 15° below zero at Cherokee and 14° below zero at Atlantic. Heavy snow fell over southern counties 18th and 19th with amounts to 10 in. at Red Oak and 7 in. at Osceola and Shenandoah. Snow cover end of week varied from 4 to 10 in. Ice storm began late 23rd.

KANSAS: Two storms brought cold temperatures, snow, rain. First storm Tuesday and Wednesday left up to 10 in. snow northwest and 8 in. southeast, 1 to 3 in. elsewhere. Second storm over weekend left 2 to 5 in. snow west and northcentral with generally 0.50 to 0.75 in. rain east. Considerable glazing east early week and extreme northcentral over weekend. Temperatures averaged 2° subnormal northwest to 7° subnormal northcentral and extreme west.

Cold temperatures limited wheat growth and increased care and feeding of livestock. Wheat condition and stands mostly good but many fields have limited ground cover. Surface moisture plentiful except few southcentral and western localities. Scattered late harvesting corn, sorghum, soybeans. Harvest of these crops now in wrap-up stage. More livestock moved to winter quarters. Ice and snow cover limited grazing of wheat pastures some areas.

KENTUCKY: Temperatures 5° to 15° below normal early week, rose to near normal on 19th, then dropped 20° to 25° below normal on 21st, and warmed to near normal again by 23rd. Precipitation on 19th and 20th totaled 0.50 to 0.75 in. with 4 to 8 in. snow west third and near 1 in. elsewhere.

Farm activities mostly limited to feeding and care of livestock. Tobacco markets closed 20th for holiday recess as prices steadied around 93 cents per pound. Sales light, farmers waiting for better stripping conditions.

LOUISIANA: Temperatures averaged 4° to 7° below normal. A strong Arctic air mass covered State several days midweek. Temperatures well below freezing levels as far south as coastal parishes. Temperature extremes: 73° New Orleans Wednesday and 15° Ashland Friday morning. Precipitation moderate to heavy, mostly midweek with frontal passage and again Sunday. Several points west and north recorded some sleet and snow. Weekly precipitation totals ranged from 1.00 in. to near 3.00 in. Greatest 1-day total was 2.35 in. at Lake Charles Thursday morning.

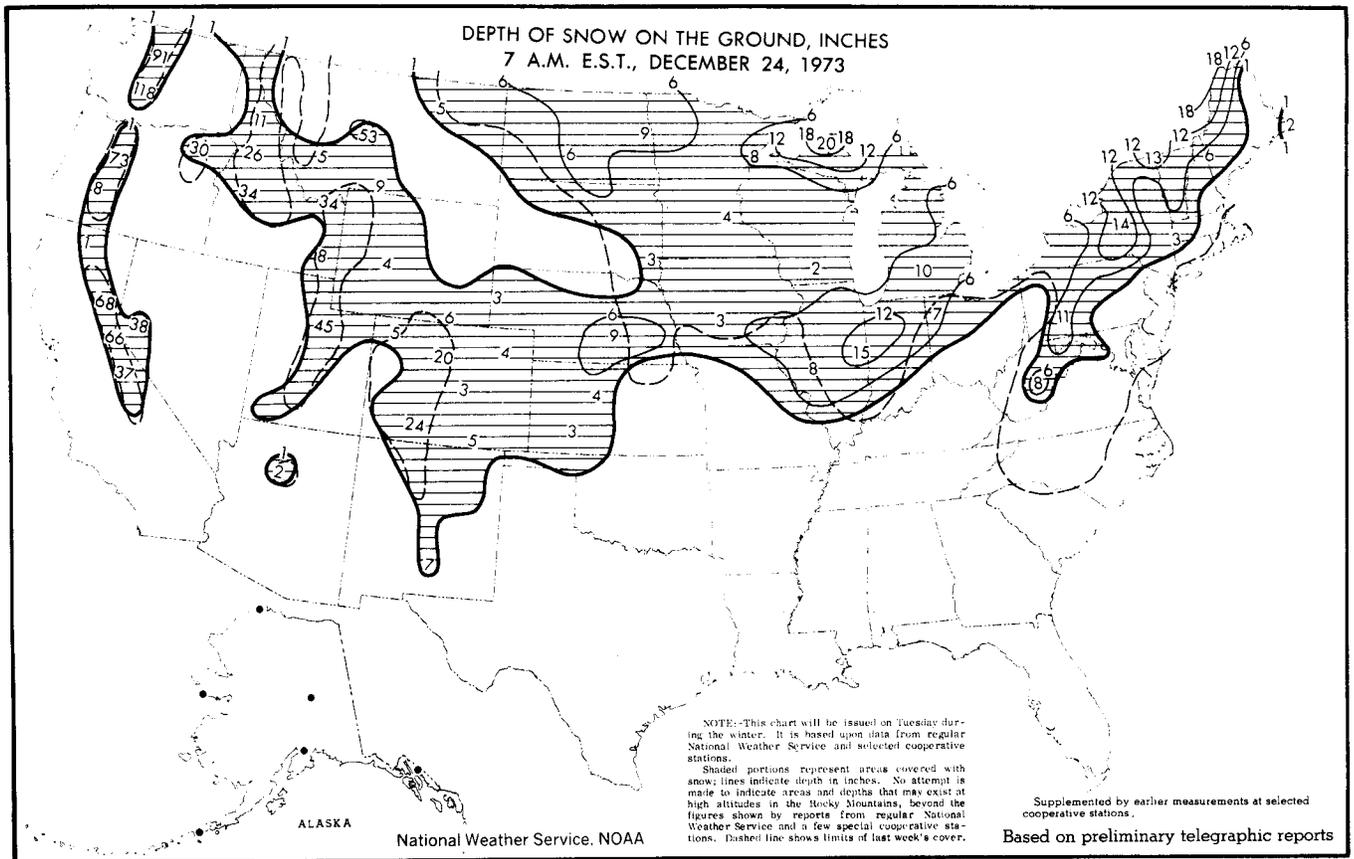
Agricultural activity consisted mainly of routine chores and care of livestock. Final harvesting of cotton and soybeans early week. Sugarcane harvest active, neared completion some areas. Small grain and fall pastures good, supplying ample grazing.

MARYLAND AND DELAWARE: Cold and wet week. Temperatures 4° to 7° below normal. High from 40° west to near 60° Eastern Shore. Lows near zero west, low to mid-teens central and east. Precipitation ranged 1.50 to 4.00 in. over two States. Livestock care and snow removal major farm activities.

MICHIGAN: Cold high pressure drifted eastward over State early week. Storm dumped 8 to 12 in. snow southeast lower and over 4 in. much of remainder southern lower peninsula. Weekly precipitation ranged from 0.60 to 1.00 in. extreme southeast lower and 0.20 to 0.60 in. much of remainder southern lower. Elsewhere amounts generally less than 0.10 in. except around 0.25 in. upper peninsula near Lake Superior and northern lower near Lake Michigan.

Temperatures 6° to 13° subnormal. Below zero minimum temperatures common northern lower and upper Monday, Tuesday mornings. Some readings around 20° below upper peninsula Monday morning. A few lows of zero to 5° below southern lower during week.

MINNESOTA: Cold week. Temperatures 3° to 6° subnormal north, 6° to 10° subnormal south. Cold-



est Thursday through Saturday with morning extremes of 20° to 25° below zero central and north. Highs in lower 30's most sections early week.

Snow early week accounted for most precipitation with 1 to 3 in. snowfalls across State. Very light snow late week. Snow depths by 23rd 4 to 10 in. north half, except near 20 in. Silver Bay vicinity along North Shore of Lake Superior; 3 to 5 in. south half. Mississippi River navigation season ended at St. Paul on December 7 and at La Crescent on December 12.

MISSISSIPPI: Cold week. Temperatures averaged 5° or more below normal. Extremes: 12°, 53°. Rainfall all sections, amounts generally more than 0.50 in. Most 24-hour rainfall was 2.10 in. Snow flurries reported many sections on 16th and 20th, but accumulations less than 1 in. Warmer over week-end with increased cloudiness. Rain moved into west late Sunday.

Soil moisture adequate to excessive. Averaged 2.5 days suitable for fieldwork. Cotton harvest 99% complete, 87% in 1972, normal 97%. Soybeans 98% harvested, 67% a year ago, normal 95%. Corn 99% picked, 92% in 1972. Pecans 91% harvested, same in 1972. Hay and roughage supplies adequate. Supply of feed grains short to adequate. Wheat and oat conditions fair to good. Pastures poor to good. Livestock fair to good.

MISSOURI: Temperatures averaged 9° to 13° sub-normal throughout State. Precipitation ranged from less than 1.00 in. northwest prairie and westcentral plains to 1.00 in. or more west and east Ozarks and parts northeast prairie. Snowfall ranged from 1 to over 12 in.

MONTANA: Temperatures normal northeast to 10° above normal western division. Pacific storm system caused widespread precipitation, totals over 1.00 in. above normal parts southcentral to 0.05 below normal central.

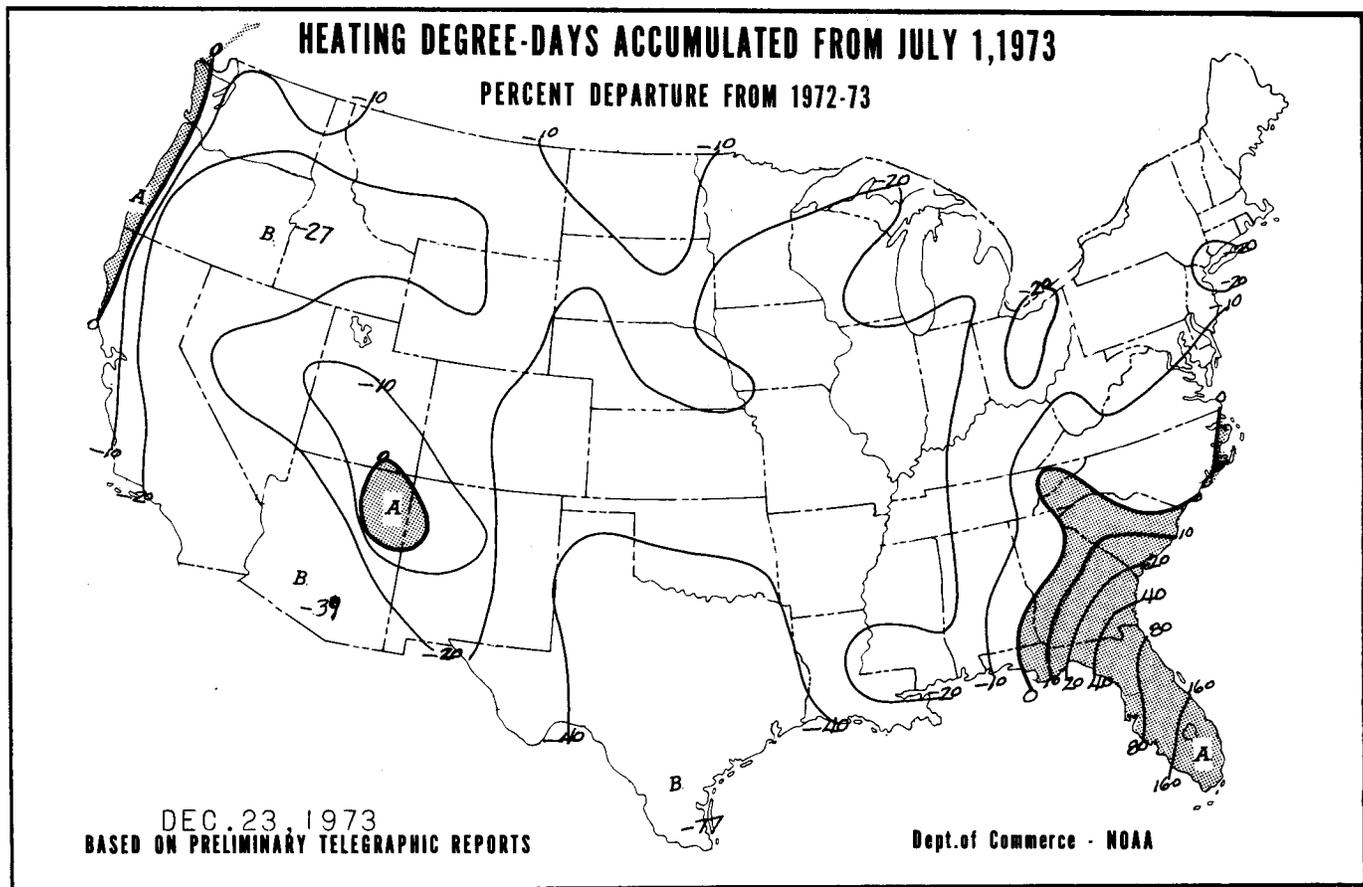
Farmers mainly caring for and feeding livestock. Winter wheat condition fair to good with only limited wind damage. Open winter permitting some livestock grazing.

NEBRASKA: Temperatures below normal with some lows down to 16° below zero. Precipitation mostly as snow of 0.50 to 0.75 in. fell over west and north portions, 0.25 in. or less southeast. Snow depths ranged up to one foot. Reports indicate less than 5% corn acreage remains for harvest. Winter wheat crop condition rated as good. Livestock generally good. About 3 days suitable for fieldwork. Main farm activities: Some corn harvesting, moving hay to feeding areas, attending farm sales, snow removal, and doing general chores.

NEVADA: Temperatures above normal. Highest 66° Hawthorne, low 9° Yucca Flat. Precipitation north both beginning, end of week. Rain south end of week. Amounts light to moderate, heaviest Verdi 0.85 in., Incline Village, Mt. Rose Sky Tavern 1.23 in. Norden received 24 in. new snow to bring Donner Pass snow pack to 68 in. Agricultural activities limited to routine chores and caring for livestock. Livestock wintering well.

NEW ENGLAND: Two vigorous storm systems swept northeastward across the region. The first one early week dumped 2.00 to 4.00 in. precipitation

(Continued on Page 13)

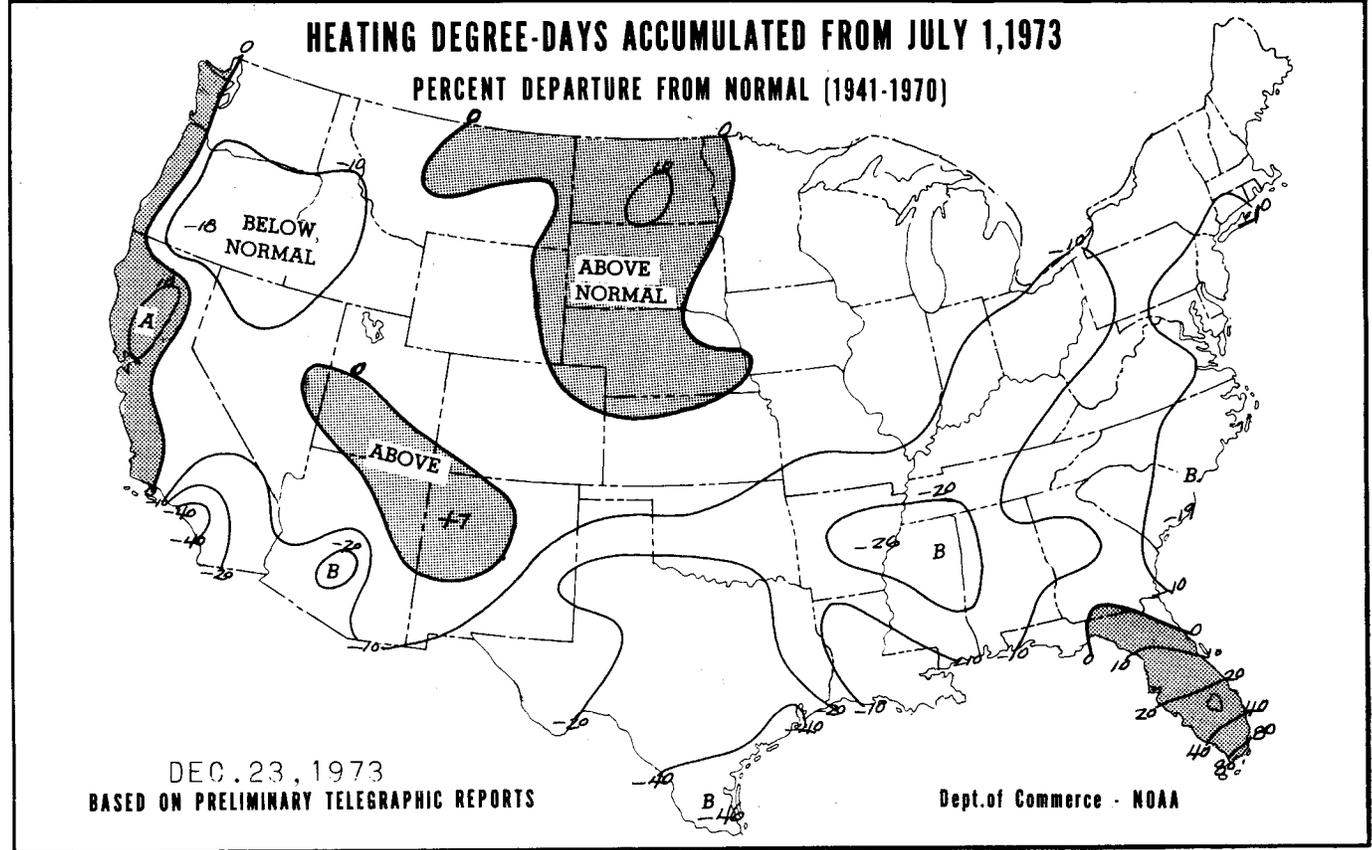
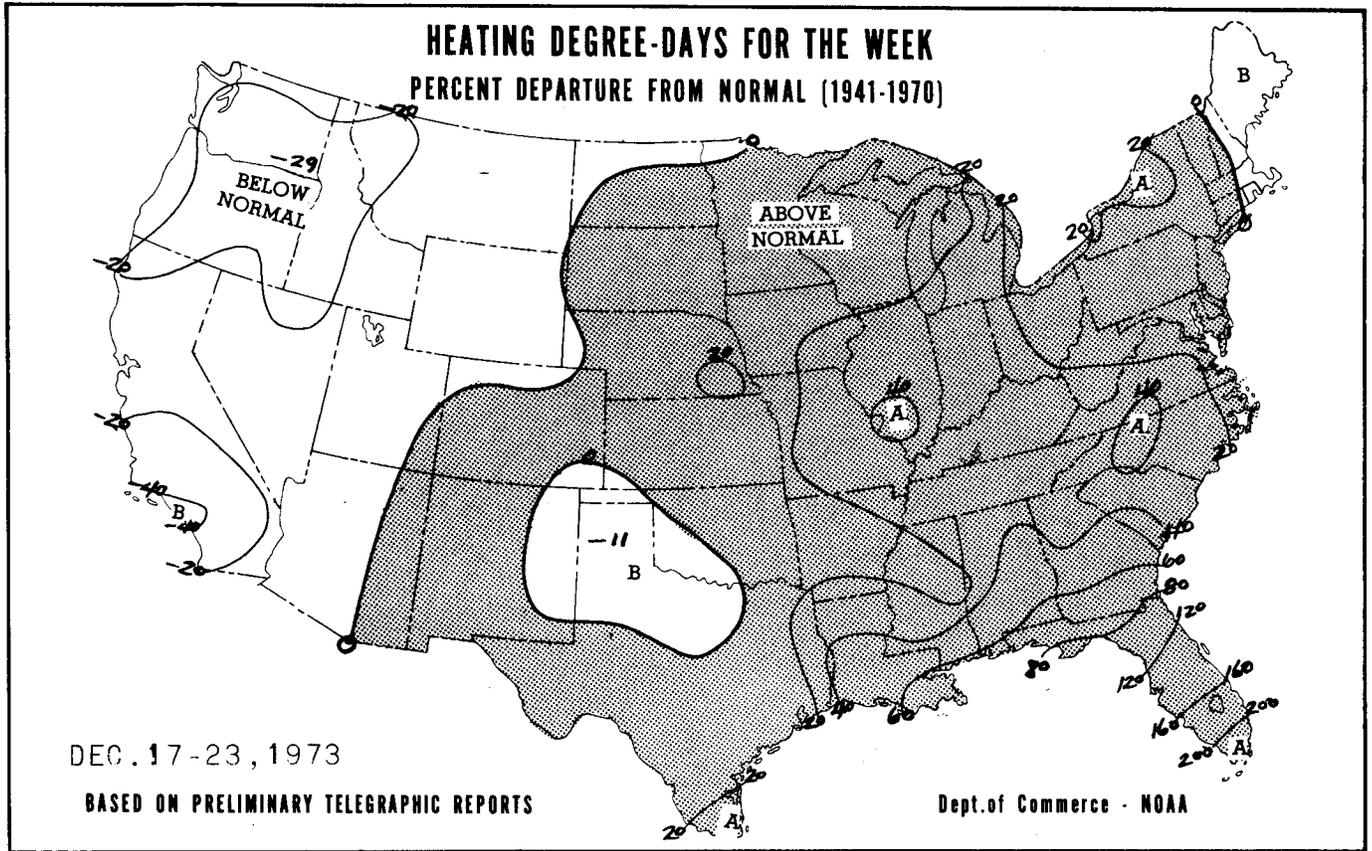


HEATING DEGREE DAYS - WHERE WE STAND!

Despite the fact that the last two weeks have been much colder than usual, heating degree-day accumulations for the season are still less than normal over most of the Nation. The only exceptions are the northern Plains, the Pacific Coast, parts of the southwest and most of Florida. The heavily populated eastern megalopolis has accumulated at least 10 percent fewer heating degree-days than normal: Washington, D.C., 20 percent; Philadelphia, Pa., 12 percent; and, Boston, Mass., 9 percent. The July through November accumulation for Washington, D.C., was only 506, the lowest on record since 1899. It appears that the accumulation through December may also be a new record.

Although the heating season is nearly half completed on the calendar, the coldest weather is still ahead. January is normally the coldest month of the year in most localities. The extended outlook in last week's Bulletin calls for normal or above normal temperatures through mid-January over most of the Nation. If the forecast verifies, the heating fuel demand would continue at a lower than usual level.

Note: Since we were unable to print the heating degree maps and tables last week, they are included in this issue following the current material. A similar procedure will be followed in our next issue which will not be released until January 8, 1974.



Heating Degree Days (Base 65°) For Week Ending Dec. 23, 1973

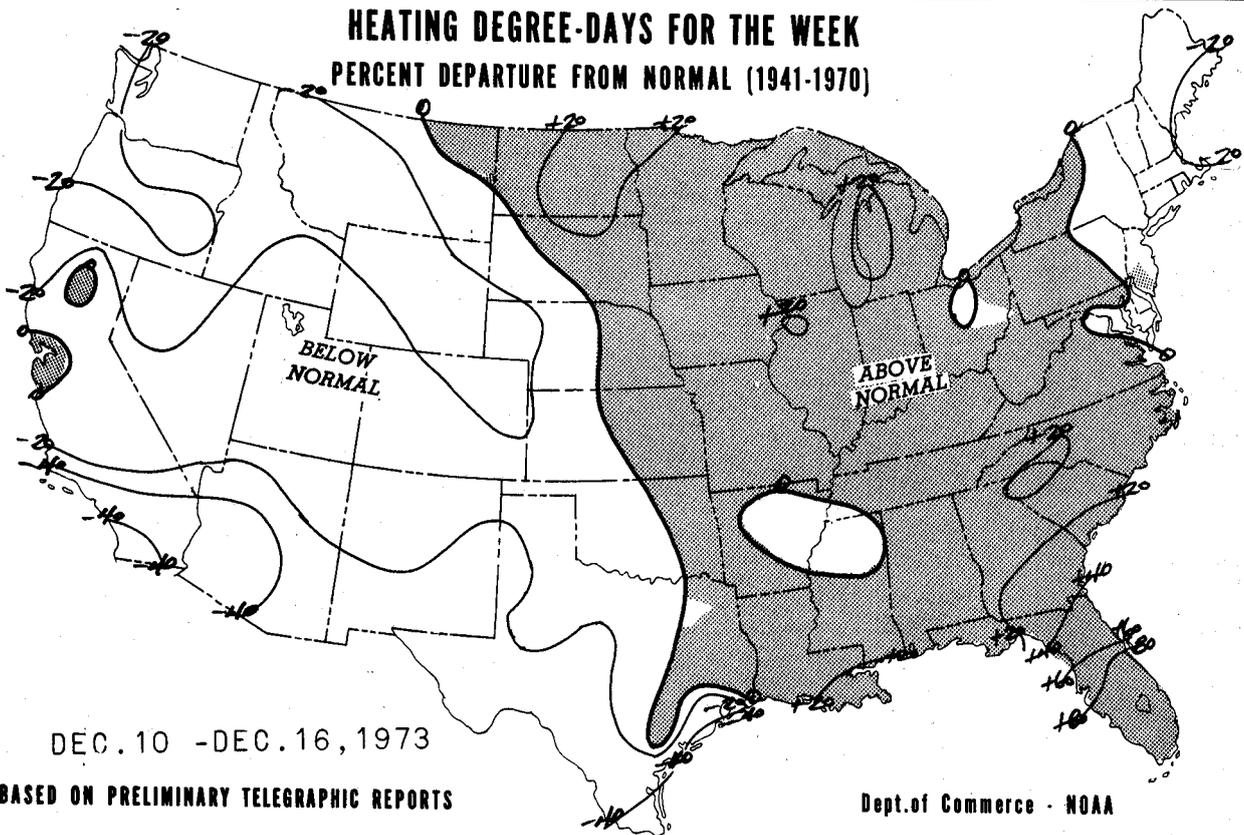
States and Stations	Weekly		Seasonal + Accumulation			States and Stations	Weekly		Seasonal + Accumulation			States and Stations	Weekly		Seasonal + Accumulation		
	TOTAL	Departure*	TOTAL	Departure*	Departure From 1972-73		TOTAL	Departure*	TOTAL	Departure*	Departure From 1972-73		TOTAL	Departure*	TOTAL	Departure*	Departure From 1972-73
ALA. Birmingham . . .	201	57	872	-108	-130	Portland . . .	235	-51	2238	-208	-471	Tulsa . . .	216	31	1021	-160	-607
Mobile . . .	142	51	451	-72	-79	MD. Baltimore . . .	250	34	1423	-86	-162	OREG. Astoria . . .	127	-31	2070	122	109
Montgomery . . .	182	63	684	-83	-31	MASS. Boston . . .	215	-20	1538	-155	-327	Burns . . .	210	-56	2495	-90	-492
ARIZ. Flagstaff . . .	224	-27	2294	-295	-662	MICH. Alpena . . .	378	76	2626	-209	-459	Medford . . .	135	-61	1431	-312	-548
Phoenix . . .	78	-15	353	-122	-191	Detroit . . .	308	43	1918	-147	-470	Pendleton . . .	148	-61	1639	-225	-605
Tucson . . .	95	1	500	-20	-322	Flint . . .	334	57	2056	-230	-448	Portland . . .	129	-44	1495	-212	-226
Winslow . . .	228	2	1650	22	21	Grand Rapids . . .	337	65	2108	-82	-455	Salem . . .	140	-32	1695	-24	-379
Yuma . . .	57	-11	271	-33	-147	Houghton Lake . . .	358	51	2591	-217	-508	PA. Allentown . . .	263	13	1651	-233	-385
ARK. Fort Smith . . .	197	25	971	-126	-568	Lansing . . .	338	63	2175	-66	-542	Erie . . .	284	23	1910	-265	-456
Little Rock . . .	188	17	821	-291	-437	Marquette . . .	327	28	2542	-190	-698	Harrisburg . . .	254	18	1469	-237	-294
CALIF. Bakersfield . . .	98	-28	659	-52	-249	Muskegon . . .	316	52	2115	-87	-313	Philadelphia . . .	236	17	1342	-177	-274
Eureka . . .	94	-25	1914	46	59	S. Ste. Marie . . .	381	56	2970	-96	-392	Pittsburgh . . .	273	23	1723	-264	-302
Fresno . . .	112	-28	859	-5	-249	MINN. Duluth . . .	409	43	3332	-1	-774	Scranton . . .	298	36	2011	-59	-383
Los Angeles . . .	37	-30	276	-213	-82	Internat Falls . . .	411	4	3410	-263	-575	R.I. Providence . . .	231	-14	1713	-142	-262
Red Bluff . . .	122	-14	955	118	-270	Minneapolis . . .	367	29	2530	-239	-728	S.C. Charleston . . .	155	40	563	-133	-50
San Diego . . .	49	-13	280	-107	-71	Rochester . . .	389	55	2595	-134	-745	Columbia . . .	166	26	673	-209	-87
San Francisco . . .	99	-13	1116	105	-28	St. Cloud . . .	376	19	2816	-156	-779	Greenville . . .	218	57	1082	7	25
Stockton . . .	116	-25	849	-35	-256	MISS. Jackson . . .	152	33	645	-108	-155	S. DAK. Aberdeen . . .	369	19	2979	93	-287
COLO. Denver . . .	239	7	1934	-93	-585	Meridian . . .	148	22	621	-207	-177	Huron . . .	336	5	2667	-6	-417
Grand Junction . . .	260	4	1815	-122	-341	MO. Columbia . . .	300	66	1565	-76	-505	Rapid City . . .	287	11	2533	85	-614
Pueblo . . .	233	4	1738	-98	-700	Kansas City . . .	276	37	1535	-112	-552	Sioux Falls . . .	339	14	2485	-136	-641
CONN. Bridgeport . . .	243	14	1339	-229	-499	St. Louis . . .	316	95	1551	13	-396	TENN. Chattanooga . . .	229	56	1112	-100	-219
Hartford . . .	286	17	1794	-244	-371	Springfield . . .	260	50	1302	-202	-576	Knoxville . . .	---	---	---	---	---
DEL. Wilmington . . .	268	47	1331	-212	-164	MONT. Billings . . .	240	-34	2418	-50	-764	Memphis . . .	201	38	827	-244	-528
D.C. Washington . . .	223	21	1062	-270	-250	Glasgow . . .	334	-11	3109	75	-443	Nashville . . .	229	51	1012	-229	-220
FLA. Apalachicola . . .	147	70	378	-29	43	Great Falls . . .	238	-38	2644	27	-540	TEX. Abilene . . .	132	-4	634	-204	-663
Daytona Beach . . .	114	65	254	1	122	Havre . . .	287	-49	3083	9	-381	Amarillo . . .	170	-21	1137	-245	-824
Ft. Myers . . .	75	47	154	30	95	Helena . . .	250	-48	2945	6	-780	Austin . . .	108	13	354	-171	-487
Jacksonville . . .	144	67	430	121	122	Kalspell . . .	229	-65	2901	-313	-570	Brownsville . . .	48	12	75	-63	-252
Key West . . .	16	14	24	22	21	Miles City . . .	299	-10	2622	-67	-612	Corpus Christi . . .	57	3	129	-109	-307
Lakeland . . .	94	59	214	34	70	Missoula . . .	222	-66	2714	-233	-608	Del Rio . . .	106	12	314	-184	-340
Miami . . .	51	37	94	41	81	NEBR. Grand Island . . .	328	53	2188	65	-448	El Paso . . .	163	14	814	-143	-174
Orlando . . .	96	54	208	23	100	Lincoln . . .	346	73	2154	121	-399	Fort Worth . . .	119	-7	599	-194	-541
Tallahassee . . .	156	66	505	-2	96	Norfolk . . .	321	26	2246	-57	-536	Galveston . . .	75	1	186	-110	-286
Tampa . . .	98	56	227	35	97	North Platte . . .	305	30	2390	72	-614	Houston . . .	85	5	245	-167	-433
W. Palm Beach . . .	59	38	106	30	92	Omaha . . .	321	36	2152	10	-462	Lubbock . . .	160	-11	905	-282	-658
GA. Atlanta . . .	216	60	910	-126	-66	Valentine . . .	---	---	---	---	---	Midland . . .	152	13	730	-132	-516
Augusta . . .	197	62	839	-26	97	NEV. Ely . . .	242	-35	2801	55	-304	Beaumont . . .	100	19	372	-88	-312
Macon . . .	174	52	660	-100	45	Las Vegas . . .	136	-9	796	-78	-327	San Angelo . . .	129	7	522	-220	-483
Savannah . . .	166	58	570	73	127	Reno . . .	193	-37	1960	-201	-601	San Antonio . . .	130	40	365	-108	-363
IDAHO. Boise . . .	167	-69	1760	-280	-652	Winemucca . . .	199	-49	2121	-256	-615	Victoria . . .	71	2	221	-115	-362
Lewiston . . .	162	-53	1773	-189	-456	N.H. Concord . . .	293	0	2464	25	-540	Waco . . .	116	3	432	-193	-595
Pocatello . . .	257	-17	2386	-76	-462	N.J. Atlantic City . . .	227	8	1442	-96	-136	Wichita Falls . . .	143	-9	656	-266	-742
ILL. Cairo . . .	261	73	1119	-129	-398	Trenton . . .	---	---	---	---	---	UTAH. Salt Lake C . . .	209	-41	1901	-170	-324
Chicago . . .	328	63	1848	-88	-518	N.MEX. Albuquerque . . .	235	27	1588	97	-89	VT. Burlington . . .	347	37	2445	-102	-532
Moline . . .	361	82	2029	-35	-404	Roswell . . .	181	-5	1084	-252	-414	VA. Lynchburg . . .	264	67	1317	-101	-104
Peoria . . .	355	86	1903	-83	-537	N.Y. Albany . . .	338	52	2235	6	-305	Norfolk . . .	182	15	907	-153	-40
Rockford . . .	349	58	2059	-178	-500	Binghamton . . .	325	36	2188	-195	-515	Richmond . . .	229	39	1179	-107	-65
Springfield . . .	338	88	1648	-154	-530	Buffalo . . .	328	58	2079	-107	-325	Roanoke . . .	253	52	1312	-128	-167
IND. Evansville . . .	295	80	1354	-185	-478	New York . . .	240	24	1281	-159	-399	WASH. Quillayute . . .	153	-21	2483	226	-30
Fort Wayne . . .	336	72	1832	-193	-439	Rochester . . .	314	46	1928	-188	-319	Seattle-Tacoma . . .	124	-51	1750	-143	-274
Indianapolis . . .	313	65	1578	-256	-429	Syracuse . . .	325	55	2065	-17	-262	Spokane . . .	201	-55	2400	-92	-275
South Bend . . .	311	44	1728	-356	-597	N.C. Asheville . . .	239	50	1357	-117	19	Walla Walla . . .	149	-51	1570	-144	-503
IOWA. Burlington . . .	344	72	1896	-92	-529	Hatteras . . .	142	14	601	-136	64	Yakima . . .	184	-57	2072	-147	-400
Des Moines . . .	345	55	1971	-194	-761	Charlotte . . .	233	69	1062	-26	-44	W.VA. Beckley . . .	289	55	1742	-212	-167
Debuque . . .	363	58	2258	-147	-640	Greensboro . . .	268	44	1295	-10	-68	Charleston . . .	254	45	1445	-104	-148
Sioux City . . .	325	24	2103	-186	-548	Raleigh . . .	224	89	997	-189	-171	Huntington . . .	267	57	1366	-181	-329
KANS. Concordia . . .	277	25	1791	-41	-512	Wilmington . . .	165	36	655	-104	-10	Parkersburg . . .	---	---	---	---	---
Dodge City . . .	238	10	1562	-102	-635	N.Dak. Bismarck . . .	395	38	3380	325	-202	WIS. Green Bay . . .	351	31	2465	-206	-493
Goodland . . .	260	10	2122	45	-586	Fargo . . .	389	12	3202	110	-410	LaCrosse . . .	366	52	2306	-119	-620
Topeka . . .	271	29	1618	-99	-492	Williston . . .	349	8	3325	-179	-471	Madison . . .	353	41	2403	-170	-551
Wichita . . .	253	32	1477	-54	-546	OHIO. Akron-Canton . . .	283	24	1668	-353	-386	Milwaukee . . .	317	21	2136	-264	-560
KY. Lexington . . .	262	49	1374	-187	-211	Cleveland . . .	263	11	1642	-320	-480	WYO. Casper . . .	253	-24	2572	-33	-618
Louisville . . .	256	43	1279	-260	-284	Columbus . . .	283	34	1583	-314	-426	Cheyenne . . .	237	-17	2495	-9	-634
LA. Baton Rouge . . .	130	39	442	-90	-69	Cincinnati . . .	280	53	1571	-83	-284	Lander . . .	279	-8	2715	-49	-683
Lake Charles . . .	125	44	406	-46	-249	Dayton . . .	306	58	1654	-186	-406	Sheridan . . .	275	-20	2681	7	-553
New Orleans . . .	123	46	415	-35	-116	Toledo . . .	323	54	1968	-120	-427						
Shreveport . . .	153	37	630	-69	-348	Youngstown . . .	288	25	1906	-184	-510						
MAINE. Caribou . . .	303	-54	3113	-180	-680	OKLA. Okla City . . .	187	5	1039	-151	-615						

* Based on 1941-70 Normals. † Accumulated from July 1, 1973

Heating Degree Days (Base 65°) For Week Ending Dec. 16, 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 . . .	153	15	671	-165	-184	Portland . . .	211	-62	2003	-157	-388	Tulsa . . .	184	12	807	-189	-640
Mobile . . .	97	12	309	-123	-125	MD. Baltimore . . .	210	3	1173	-120	-228	OREG. Astoria . . .	124	-29	1943	153	76
Montgomery . . .	124	10	502	-146	-97	MASS. Boston . . .	176	-46	1323	-135	-281	Burns . . .	221	-35	2287	-32	-502
ARIZ. Flagstaff . . .	193	-51	2070	-268	-636	MICH. Alpena . . .	313	26	2248	-285	-580	Medford . . .	149	-40	1296	-251	-540
Phoenix . . .	39	-47	275	-107	-209	Detroit . . .	279	26	1611	-189	-536	Pendleton . . .	132	-68	1491	-164	-634
Tucson . . .	57	-31	405	-21	-335	Flint . . .	277	13	1722	-287	-542	Portland . . .	128	-39	1366	-168	-257
Winslow . . .	176	-40	1422	20	-10	Grand Rapids . . .	314	54	1771	-147	-541	Salem . . .	136	-30	1555	8	-428
Yuma . . .	30	-31	214	-22	-160	Houghton Lake . . .	329	36	2233	-268	-597	PA. Allentown . . .	218	-20	1388	-246	-423
ARK. Fort Smith . . .	169	-7	774	-151	-578	Lansing . . .	304	42	1837	-129	-628	Erie . . .	262	13	1626	-288	-501
Little Rock . . .	159	-3	633	-308	-452	Marquette . . .	319	33	2215	-218	-746	Harrisburg . . .	246	21	1251	-219	-306
CALIF. Bakersfield . . .	100	-18	561	-24	-274	Muskegon . . .	307	55	1799	-139	-396	Philadelphia . . .	201	-6	1106	-194	-313
Eureka . . .	73	-39	1820	71	21	S. Ste. Marie . . .	365	55	2589	-152	-488	Pittsburgh . . .	259	19	1450	-287	-367
Fresno . . .	125	-8	747	23	-261	MINN. Duluth . . .	406	57	2923	-44	-846	Scranton . . .	261	12	1713	-95	-438
Los Angeles . . .	30	-32	239	-183	-100	Internatl Falls . . .	459	71	2999	-267	-644	R.I. Providence . . .	190	-43	1482	-128	-234
Red Bluff . . .	134	5	833	132	-277	Minneapolis . . .	350	28	2169	-262	-781	S.C. Charleston . . .	132	23	408	-173	-8
San Diego . . .	39	-17	231	-94	-99	Rochester . . .	371	54	2206	-189	-836	Columbia . . .	137	3	507	-235	-127
San Francisco . . .	110	5	1017	118	-40	St. Cloud . . .	373	35	2440	-175	-824	Greenville . . .	188	33	864	-50	-55
Stockton . . .	123	-11	733	-10	-279	MISS. Jackson . . .	121	10	493	-141	-174	S.DAK. Aberdeen . . .	399	66	2610	74	-373
COLO. Denver . . .	171	-53	1695	-100	-653	Meridian . . .	121	2	473	-229	-200	Huron . . .	362	47	2331	-11	-504
Grand Junction . . .	237	-9	1555	-126	-299	MO. Columbia . . .	230	8	1265	-142	-565	Rapid City . . .	261	-4	2246	74	-709
Pueblo . . .	194	-27	1504	-103	-722	Kansas City . . .	236	12	1259	-149	-617	Sioux Falls . . .	355	45	2146	-150	-711
CONN. Bridgeport . . .	190	-27	1096	-243	-705	St. Louis . . .	241	32	1235	-82	-487	TENN. Chattanooga . . .	193	27	883	-156	-272
Hartford . . .	221	-34	1506	-261	-392	Springfield . . .	206	6	1042	-252	-630	Knoxville . . .	193	29	883	-136	-204
DEL. Wilmington . . .	205	-5	1063	-259	-249	MONT. Billings . . .	176	-86	2178	-16	-820	Memphis . . .	153	-1	626	-282	-536
D.C. Washington . . .	183	-9	839	-291	-308	Glasgow . . .	340	13	2775	86	-510	Nashville . . .	191	20	783	-280	-270
FLA. Apalachicola . . .	73	3	231	-99	-24	Great Falls . . .	178	-85	2406	65	-603	TEX. Abilene . . .	103	-25	502	-200	-682
Daytona Beach . . .	73	24	140	-64	51	Havre . . .	290	-30	2796	40	-456	Amarillo . . .	150	-33	967	-224	-844
Ft. Myers . . .	47	22	75	-21	41	Helena . . .	215	-71	2695	54	-829	Austin . . .	76	-11	246	-184	-517
Jacksonville . . .	100	30	286	-46	41	Kalispell . . .	215	-69	2672	-248	-609	Brownsville . . .	13	-17	27	-75	-274
Key West . . .	8	8	8	8	8	Miles City . . .	270	-24	2323	-57	-684	Corpus Christi . . .	30	-17	72	-112	-326
Lakeland . . .	61	26	120	-25	18	Missoula . . .	215	-62	2492	-167	-634	Del Rio . . .	58	-29	208	-196	-371
Miami . . .	33	19	43	4	40	NEBR. Grand Island . . .	278	17	1860	12	-543	El Paso . . .	97	-46	651	-157	-205
Orlando . . .	65	30	112	-31	38	Lincoln . . .	288	29	1808	48	-513	Fort Worth . . .	103	-13	410	-187	-552
Tallahassee . . .	102	18	349	-68	28	Norfolk . . .	298	18	1925	-83	-622	Galveston . . .	33	-23	111	-121	-298
Tampa . . .	66	29	130	-20	36	North Platte . . .	250	-13	2085	42	-676	Houston . . .	50	-23	160	-172	-437
W. Palm Beach . . .	35	20	47	-8	41	Omaha . . .	303	33	1831	-26	-540	Lubbock . . .	131	-33	745	-271	-689
GA. Atlanta . . .	163	13	694	-186	-150	Valentine . . .	236	-44	2051	-124	-815	Midland . . .	106	-25	578	-145	-542
Augusta . . .	153	23	642	-88	24	NEV. Ely . . .	252	-17	2559	90	-325	Beaumont . . .	82	7	272	-107	-322
Macon . . .	129	13	481	-157	-27	Las Vegas . . .	109	-28	660	-69	-334	San Angelo . . .	84	-31	393	-227	-514
Savannah . . .	126	23	404	-131	39	Reno . . .	178	-44	1767	-164	-612	San Antonio . . .	72	-9	235	-148	-417
IDAHO. Boise . . .	174	-53	1593	-211	-664	Winnemucca . . .	183	-57	1922	-207	-626	Victoria . . .	66	4	150	-117	-372
Lewiston . . .	152	-55	1611	-136	-471	N.H. Concord . . .	243	-36	2171	25	-522	Waco . . .	97	-6	316	-196	-596
Pocatello . . .	222	-40	2134	-54	-527	N.J. Atlantic City . . .	196	-12	1215	-104	-186	Wichita Falls . . .	122	-21	513	-257	-763
ILL. Cairo . . .	194	15	858	-202	-454	Trenton . . .	193	-16	1127	-177	-303	UTAH. Salt Lake C . . .	200	-41	1692	-129	-314
Chicago . . .	286	34	1520	-151	-599	N.MEX. Albuquerque . . .	187	-13	1353	70	-129	VT. Burlington . . .	261	-31	2098	-139	-565
Moline . . .	318	54	1668	-117	-515	Roswell . . .	129	-50	901	-249	-446	VA. Lynchburg . . .	218	29	1053	-168	-208
Peoria . . .	301	46	1548	-169	-631	N.Y. Albany . . .	262	-8	1897	-46	-373	Norfolk . . .	161	3	725	-168	-90
Rockford . . .	311	35	1710	-236	-599	Binghamton . . .	271	-4	1863	-231	-573	Richmond . . .	199	18	950	-146	-146
Springfield . . .	266	28	1310	-242	-617	Buffalo . . .	277	20	1751	-165	-404	Roanoke . . .	216	23	1059	-180	-261
IND. Evansville . . .	228	22	1059	-265	-547	New York . . .	183	-21	1041	-183	-430	WASH. Quillayute . . .	143	-25	2330	247	-6
Fort Wayne . . .	286	34	1496	-265	-537	Rochester . . .	262	8	1614	-72	-638	Seattle-Tacoma . . .	125	-43	1626	-92	-295
Indianapolis . . .	267	32	1265	-321	-512	Syracuse . . .	259	3	1740	-72	-333	Spokane . . .	194	-54	2199	-37	-316
South Bend . . .	286	32	1417	-400	-677	N.C. Asheville . . .	201	17	1118	-167	-58	Walla Walla . . .	127	-64	1421	-93	-540
IOWA. Burlington . . .	297	40	1552	-164	-621	Hatteras . . .	126	6	459	-150	28	Yakima . . .	168	-63	1888	-90	-395
Des Moines . . .	310	35	1626	-249	-844	Charlotte . . .	188	31	829	-95	-125	W.VA. Beckley . . .	255	29	1453	-267	-250
Debuque . . .	339	50	1895	-205	-726	Greensboro . . .	212	34	1027	-94	-168	Charleston . . .	228	28	1191	-149	-213
Sioux City . . .	312	27	1778	-210	-617	Raleigh . . .	190	24	773	-238	-241	Huntington . . .	229	28	1099	-238	-405
KANS. Concordia . . .	260	21	1514	-66	-577	Wilmington . . .	134	12	485	-145	-64	Parkersburg . . .	231	24	1213	-154	-247
Dodge City . . .	183	-36	1324	-112	-677	N.Dak. Bismarck . . .	423	85	2985	287	-320	WIS. Green Bay . . .	340	37	2114	-237	-562
Goodland . . .	195	-47	1862	35	-623	Fargo . . .	411	53	2813	98	-449	LaCrosse . . .	352	55	1930	-181	-721
Topeka . . .	239	11	1347	-128	-560	Williston . . .	388	47	2976	-177	-540	Madison . . .	347	51	2050	-211	-640
Wichita . . .	223	12	1224	-86	-596	OHIO. Akron-Canton . . .	251	4	1385	-377	-452	Milwaukee . . .	304	22	1819	-285	-610
KY. Lexington . . .	230	25	1112	-236	-289	Cleveland . . .	240	-1	1379	-331	-517	WYO. Casper . . .	210	-59	2319	-9	-668
Louisville . . .	226	21	1023	-303	-347	Columbus . . .	242	3	1300	-348	-497	Cheyenne . . .	197	-51	2258	8	-679
LA. Baton Rouge . . .	90	6	312	-129	-103	Cincinnati . . .	247	29	1291	-136	-356	Lander . . .	230	-60	2436	-29	-738
Lake Charles . . .	80	6	281	-90	-278	Dayton . . .	265	28	1345	-247	-490	Sheridan . . .	210	-61	2406	15	-634
New Orleans . . .	88	17	292	-81	-149	Toledo . . .	294	38	1645	-174	-507						
Shreveport . . .	122	13	477	-106	-372	Youngstown . . .	267	16	1618	-209	-562						
MAINE. Caribou . . .	285	-53	2800	-136	-579	OKLA. Okla City . . .	164	-8	852	-156	-643						

HEATING DEGREE-DAYS FOR THE WEEK PERCENT DEPARTURE FROM NORMAL (1941-1970)

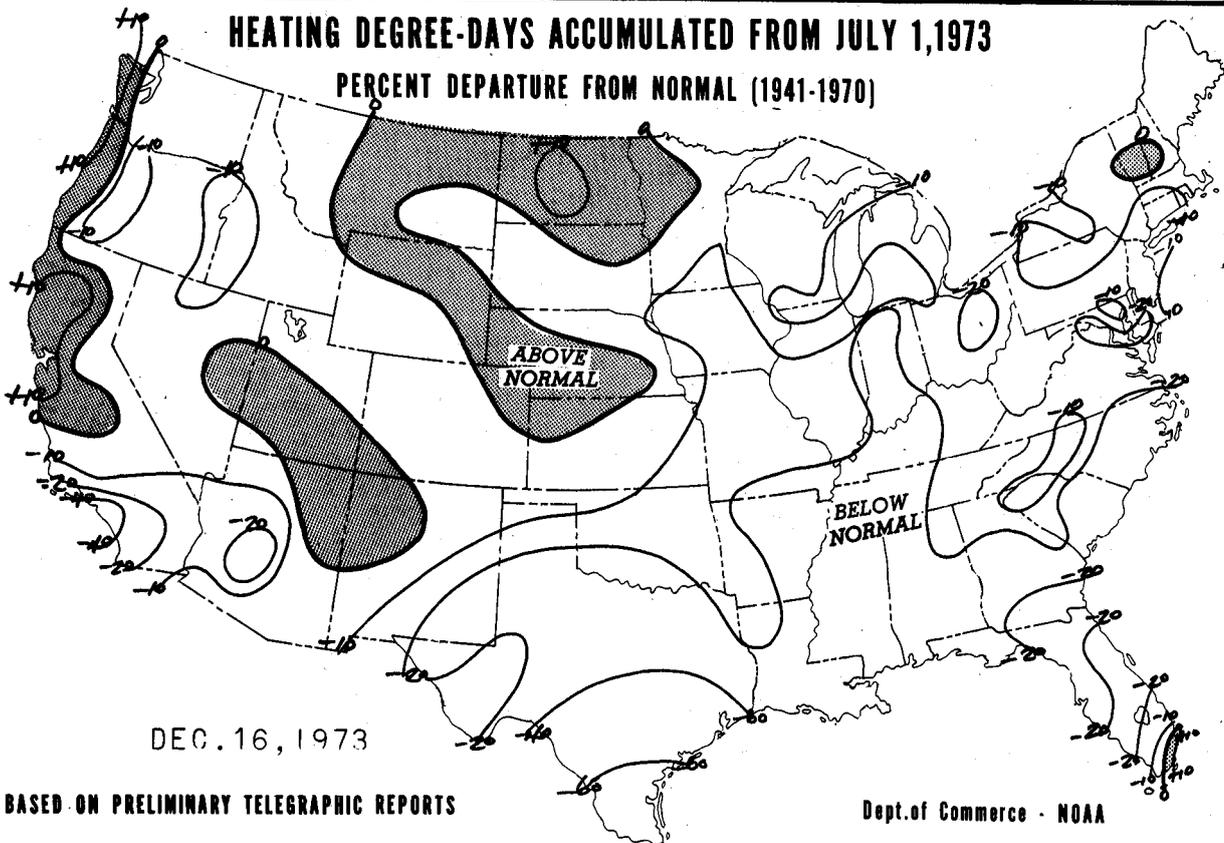


DEC. 10 - DEC. 16, 1973

BASED ON PRELIMINARY TELEGRAPHIC REPORTS

Dept. of Commerce - NOAA

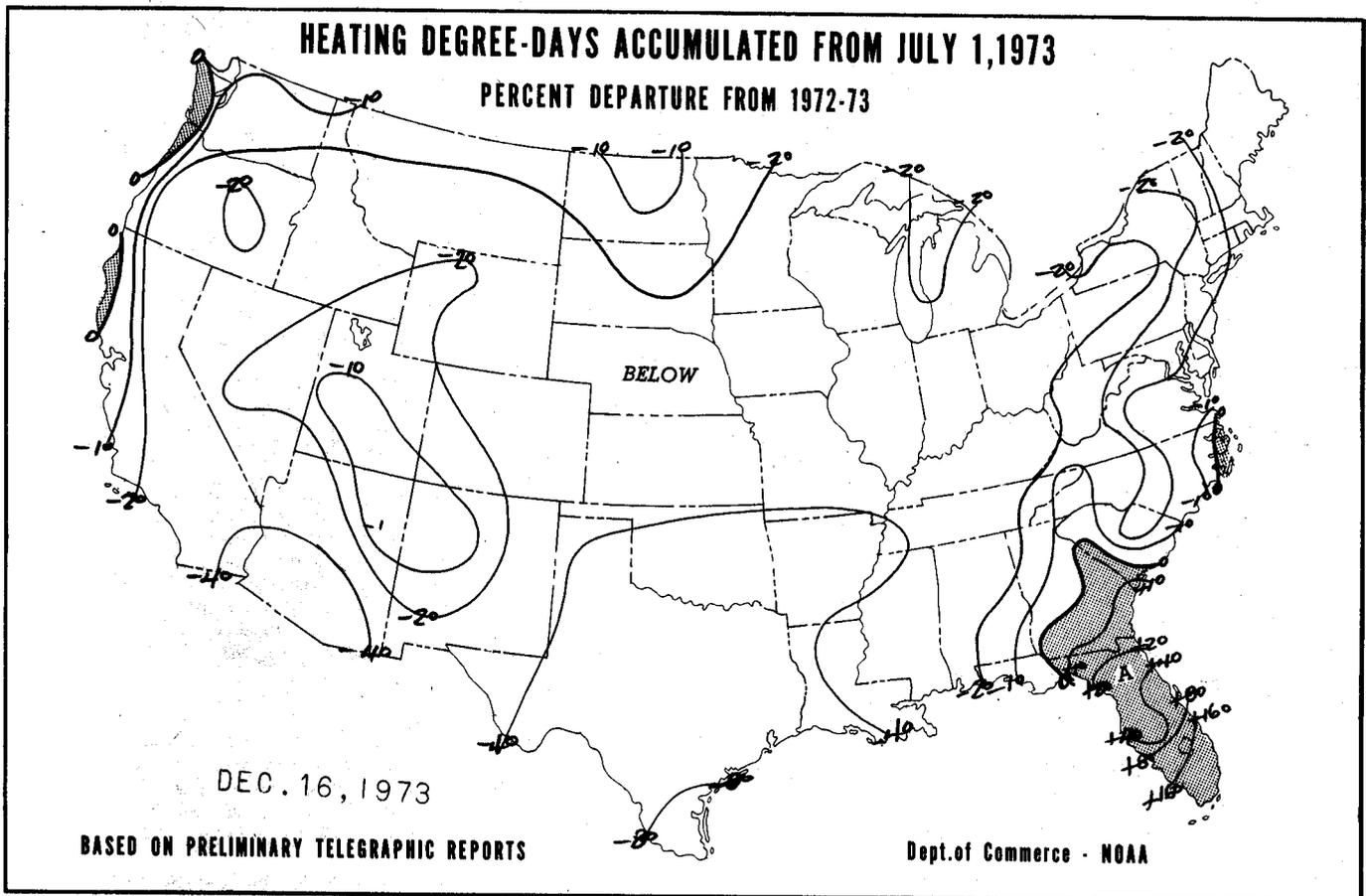
HEATING DEGREE-DAYS ACCUMULATED FROM JULY 1, 1973 PERCENT DEPARTURE FROM NORMAL (1941-1970)



DEC. 16, 1973

BASED ON PRELIMINARY TELEGRAPHIC REPORTS

Dept. of Commerce - NOAA



(Continued from Page 7)

over region, mostly as rain in coastal sections, as mixed freezing rain and sleet in areas just inland from coast and as snow in western and northern highland areas. The second storm moved through region late Thursday and Friday with precipitation amounts ranging from around 0.50 in. extreme southeast coastal sections to 2.00 to 3.00 in. west and north mostly rain. Some major flooding westcentral and north.

Temperatures varied markedly. Readings in upper 50's and even low 60's south and east coastal sections. Frigid cold settled in over area Tuesday night and Wednesday with temperatures averaging 15° or more below normal many areas. Return to more normal temperature levels late week following passage of second storm.

NEW JERSEY: Week of strong weather contrasts. Cold, snow and freezing rain early week; mild, heavy rain and flooding late week; cooler over weekend. Temperatures ranged near 60° Thursday and Friday to 10° Tuesday and Wednesday mornings. Northern sections averaged 3 in. snow on 19th. Mild temperatures and up to 3.00 in. of rain 20th and 21st melted snow and caused considerable flooding. Heaviest rainfall 3.52 in. Greenwood Lake 20th and 21st.

NEW MEXICO: Very mild daytime temperatures early week, bitter cold midweek, then warming slightly Friday and Saturday and colder again on Sunday. Snow north sections Tuesday and Wednesday and more generally on Sunday. Blizzard conditions north-east and eastcentral plains Wednesday. Weekly

moisture amounts mostly light but some snowfalls to 12 in. southern mountains Sunday. Temperatures averaged near normal for week but with extreme variations. Some daytime readings into 70's and nighttime chill below zero at a few points.

Snowfall, high winds, many areas. Moisture mostly short. Ranges mostly fair, some poor. Livestock fair to good condition, supplementary feeding continued. Wheat and rye mostly fair to good, aphid problem in a few areas. Cotton harvest neared completion. Pecan harvest continued.

NEW YORK: A week of wide extremes of temperature, flash flooding, ice and snow storms. Temperatures averaged several degrees below normal, precipitation well above normal most sections. Up to one foot of snow fell Monday, followed by very cold weather Tuesday and Wednesday. Saranac Lake 31° below zero Wednesday. Warming trend with rain and freezing rain developed Thursday. Rain became heavy Thursday night and Friday producing flash flooding in southeastern counties Friday. A turn to colder on Friday produced up to one foot of snow at Binghamton and Utica. Saturday cold, warming trend again Sunday.

NORTH CAROLINA: Rains over weekend, again on Thursday and Friday with snow at beginning of week and again on Friday produced precipitation amounts well above normal. Temperatures averaged slightly below normal, but varied from lows of 5° to 10° to highs in 70's.

Soil moisture adequate to surplus statewide. Rains improved small grain and pasture conditions. Fall harvest activities at standstill during week.

only trace amounts of crops left to be harvested. Livestock care and feeding main activities.

NORTH DAKOTA: Much below normal temperatures until brief warming end of week. Lows ranged from 23° below zero at Grand Forks and Lisbon on 20th to high of 39° on 21st at Dickinson. Precipitation above normal following general snow 16th, 17th and numerous other days with light snowfalls. Snow depths over State range from 5 to 10 in. with Bottineau reporting 13 in.

Roughage supplies short in some areas. Winter grazing restricted by snow cover. Cattle good.

OHIO: Cold, windy weather early week. Winter storm moved northeasterly across State on Thursday. Heavy snow warnings issued late Wednesday and Thursday, 8 to 10 in. snow fell some northern counties by Friday morning. Temperatures below normal early week, warming Thursday. Arctic air Friday and Saturday dropped temperatures well below normal. Readings from 2° to 10° most of State Saturday morning but warmer on Sunday.

Farm activities limited to care and feeding livestock and hauling manure.

OKLAHOMA: Temperatures subnormal all sections, ranging from 3° to 4° subnormal west to 8° to 11° subnormal east. Precipitation averages ranged from 0.01 in. southwest to 1.45 in. northeast. Snowfall of 1 to 3 in. 18th, 19th northwest. Cool nights, mild days over weekend with 0.50 to 1.00 in. rain east.

Small grains good, cold weather slowed growth. Pecan harvest continued. Adverse weather slowed soybean and cotton harvests. Pasture and range conditions 61% good or better. Livestock good condition with supplemental feeding most areas.

OREGON: Precipitation over most of State, 19th only dry day. Coast averaged over 2.00 in. North-central and northeast got more than 1.00 in. Remainder east reported 0.20 to 0.75 in. Redmond driest with 0.09 in. Temperatures averaged from 4° to 11° above normal. Highs ranged from low 40's to low 60's. Baker coolest with 44°, North Bend highest with 63°. Lows ranged in lower 30's to mid-40's west, in the 20's east.

Farm activities limited, ground still not frozen most areas. Excess moisture causing flooding, soil erosion some areas. Feed lots muddy. Feeding at normal rates. Winter pastures holding well. Livestock condition good. Willamette Valley onion exports continued. Some orchard pruning as weather permitted.

PENNSYLVANIA: Cold, wet week. Precipitation 0.50 to 1.00 in. west, 1.50 to 2.50 in. east. Heavy rainfall Thursday and Friday caused minor flooding eastern portions. Temperatures averaged upper teens north to low 30's southeast. Weekly temperatures near normal southeast, 4° to 8° below normal elsewhere.

PUERTO RICO: Rainfall averaged 0.56 in. or about 0.40 in. subnormal. Rainfall generally well distributed except parts of northwest and central-interior where little or no rain reported. Highest weekly total 2.78 in. northeast. Crop moisture conditions near normal all zones except parts of northwest, southcentral and eastcentral where too dry for optimum crop development. Temperatures averaged 75° on coast and 70° interior. Highest 90°, lowest 51°.

Sugarcane plantations planting and cultivating fall crop and preparing for coming harvest of present crop. Coffee harvesting operations about

finished with cleaning, fertilizing and cultivating operations now well underway in favorable weather. Tobacco zones planting and cultivating seedbeds under favorable weather conditions except parts of central and east where too dry. Pasture development retarded by shorter days and lack of rain in parts of south and central. Minor crop zones active planting, cultivating and harvesting but more rain needed in central zones for optimum development.

SOUTH CAROLINA: Week ended with average temperatures 3° to 7° subnormal. Rainfall heavier than usual, totaling 1.00 to 3.00 in. most areas. Precipitation fell as snow or sleet in north on 17th, with amounts up to 6 in. northcentral. Some sleet or snow fell in higher elevations on 21st. An intense winter storm developed off south Atlantic coast on 16th and moved northward up South Carolina coast on 17th. Another disturbance passed across State on 21st followed by colder weather.

Moderate to heavy rainfall throughout State stopped or slowed most farm activities. Soybean harvest nearly complete but harvest of both soybeans and few remaining acres of cotton continued when weather permitted. Farmers pruned peach trees, grapevines in the Piedmont and prepared tobacco beds in the Pee Dee area. Small grains, pastures benefited from rainfall where not excessive.

SOUTH DAKOTA: Temperatures below normal. Highs in mid-40's and low 50's. Highest 56° at Wood on Friday. Lowest 21° below zero on Thursday at Webster. Heavy snows fell and most of State blanketed. Snow cover beneficial for fall seeded grains. Livestock remain in good condition, but heavy snows have necessitated extra care and feed.

TENNESSEE: Frontal activity and associated precipitation dominated midweek preceded by fair conditions and followed by fair skies late week. Precipitation amounts ranged from 0.25 to over 1.25 in. Temperatures about 3° to 10° below normal. Farmers did routine chores.

TEXAS: Temperatures averaged 2° to 4° above normal despite cold air midweek. Most of west half including Lower Rio Grande Valley remained dry. Average rainfall increased from central Texas eastward to better than 2.50 in. northeast. Warming trend most sections ended by midweek as cold, Arctic air spread over State producing a variety of weather. Light snow fell in panhandle, strong and gusty winds kicked up dust in west Texas, thunderstorms dumped light to moderate rainfall amounts in east. Below freezing temperatures statewide including Lower Rio Grande Valley. Warmer Friday and Saturday.

Dryland wheat continued decline on high and low plains. Light snow brought temporary relief. Grazing wheat, oats high and low plains restricted mainly to irrigated fields. In southern half State, moisture adequate, satisfactory growth and grazing available most areas. Cotton harvest rapid progress high and low plains. Trailers short in most localities, ricking helped alleviate heavy gin backlogs. Land preparation underway southern half, farmers applied fertilizer as available. Soybean harvest northeast further delayed by rain. Major crops percent harvested: cotton 90, 1972 65, 5-year average 82; sorghum 100, 1972 98, 5-year average 97; soybeans 94, 1972 94; peanuts 100, 1972 99. Major crops percent planted: wheat 100, 1972 99; oats 100, 1972 100.

Lower Rio Grande Valley: Hard freeze hurt

vegetable crops night of December 20. Official low temperatures ranged from 28° at Mercedes to 15° at Rio Grande City and San Manuel. Full extent of freeze damage still unknown. All peppers and tomatoes frozen. Some damage to mature and young cabbage fields. Damage to carrots, lettuce and onion crops believed to be minimal. San Antonio-Winter Garden: Freeze killed tender vegetables. Lettuce frozen in some localities. Some light damage may have occurred to cabbage. Carrot, cauliflower and spinach harvest continued. Laredo: Cabbage and carrot harvest continued. Trans-Pecos: Carrots and cabbage left unharvested in fields because of poor markets. High Plains: Few late carrots still being dug.

Citrus crop damaged from temperatures below freezing for 12 hours. Temperatures below 26° in many large citrus areas for duration of 8 hours. Leaf burn ranges from moderate to severe. Tree damage appears minimal because of lack of moisture during the freeze. Some fruit droppage already started. Full extent of damage still unknown, but heaviest losses appear in early oranges with Valencia oranges and grapefruit damage to lesser degree.

Livestock held up well but cold weather caused shrinkage. Native grasses cured well on Edwards Plateau, south Texas and grazing adequate where pastures well managed. Recent cold weather, short moisture increased feeding most areas. Screwworm cases declined following freezes.

UTAH: Scattered areas of rain or snow early week north and west and again over weekend. Moisture amounts generally light to moderate. Average temperatures ranged from near normal to 7° above except 2° to 4° below normal Uintah Basin and few colder valleys. Most lower valleys free of snow except in northwest.

Pastures and ranges in lower valleys still accessible, snow depth light. Major agricultural activities: Sugar beet processing, hauling hay to livestock, sorting, grading, and marketing of potatoes, dry onions, and apples for storage, care and feeding of cattle and sheep. Processing of Utah's largest ever turkey crop will finish this week.

VIRGINIA: Temperatures statewide averaged 7° to 8° below normal, with high 69° and low 3° below zero. Snow on ground in mountain sections averaged 10 to 15 in. Precipitation heavy, averaged 2.35 in. statewide.

Topsoil moisture 72% surplus and 28% adequate. Winter grains good to excellent. Very little livestock grazing since snow covered most of State. Marketing of tobacco continued. Calving and lambing underway. Main farm activities: Doing routine winter chores, repairing machinery, food grinding, and digging out from snow.

WASHINGTON: West: Average temperatures 3° to 6° above normal. Precipitation averaged over 2.00 in. Some fields covered with water. Few remaining carrots being "mudded" out. Victoria rhubarb crowns being dug for early forcing. Pruning, tying fruit, caneberries active. Livestock good. Some grazing young stock but dairy herds on full feed.

East: Temperatures averaged 8° above normal. Precipitation amounts from 0.50 to 2.00 in. Pruning orchards, vineyards continued. Grain corn harvest hampered by rains. Wheat good condition. Fields mostly absorbing moisture, but some runoff causing minor erosion. Very little snow cover most areas. Barnyards muddy. Livestock good. Warm weather helping stretch hay supplies.

WEST VIRGINIA: Temperatures 5° to 8° below normal. Highs in 40's and 50's Thursday. Cold front dropped Friday's highs into 20's. Lows in teens and below Tuesday morning, then warmed through Thursday. Snowfall Saturday and Sunday tapering off Monday. Mild Tuesday and Wednesday but snow again covered State Thursday and Friday. Partly cloudy over weekend. Highs Saturday 20's and 30's, reaching 30's and 40's Sunday. Lows in teens Saturday, warming to 30's on Sunday.

Heavy feeding of livestock necessary as snow prohibited grazing. Farmers took care of stock and prepared for Christmas.

WISCONSIN: Colder than normal. Light snow fell several days early week, particularly southeast. Fair and colder on 20th, 21st. Snow southeast mostly fluffy Lake Michigan snow with up to 10 in. reported in Racine County. Temperature extremes ranged between 20° below zero northwest on Thursday and Friday mornings to 35° above southeast as week ended. Snow cover generally light at 3 to 6 in. except near 8 in. extreme southeast, east, and north. Frost depths averaged about 4 in. statewide. Warmer temperatures and rain Christmas Day greatly reduced snow depths, except in north.

WYOMING: Temperatures cool over Cheyenne and Niobrara, Upper Platte and Northeast portion of Lower Platte drainages with averages as much as 5° subnormal. Elsewhere, average temperatures were as much as 7° above normal. Extremes: 18° below zero at Torrington the 19th, 60° at Carpenter the 16th. Precipitation general east half and scattered west half. Amounts above normal over Lower Platte and Belle Fourche drainages and below normal over Green and Bear and Snake drainages. Greatest amount received 0.55 in. at Guernsey Dam on the 18th, 19th.

Livestock good. Some supplemental feeding reported during stress periods. Light snow cover allowed grazing. Pre-Christmas ranch activity slow.



FIRST CLASS MAIL

210

Total Annual Subscriptions: \$5.00 in U.S. and possessions, \$6.50 including domestic airmail, \$11.25 including foreign airmail. For December through March issues only, \$1.50, \$2.00 with domestic airmail, \$3.50 with foreign airmail. Make checks payable to Department of Commerce, NOAA.

Publication of this bulletin began in 1872 as the Weekly Weather Chronicle. It is now issued under general authority contained in the Act of January 12, 1895 (44 USC 213), 53d Cong., III. Sess. Quotation or reproduction of this material is encouraged. Please give credit to this publication and, in case of special articles, to authors.

Please send subscriptions and any questions or comments to the Editor at above address.

WORLD WEATHER AND AGRICULTURE

KOREAN RICE CROP BENEFITED FROM IDEAL WEATHER

It is expected that the 1973 Korean rice crop will total 4.4 million tons (milled), an increase of 10 percent over 1972. The crop is very good as evidenced by the fact that total acreage planted was down in 1973. The 1973 crop was planted about 10 days earlier than usual. In the northern half of the country transplanting was at least three weeks ahead of schedule. In the southern half barley harvest, plowing and rice transplanting were expedited to achieve transplanting about one week ahead of schedule.

The 1973 "summer rainy season" wasn't very rainy. There were more clear, bright, hot days than usual with temperatures averaging 1-2°C above normal. Harvest began in late September. Weather in October was good--clear, bright autumn days and only occasional light rainfall. Nearly all the crop was cut by mid-October.

SOUTH AFRICAN GRAIN CROPS GOOD

Wheat production for 1973/74 is expected to be very good if not a record in South Africa. The Orange Tree State has had very good rains and some late plantings were made. Good early rains in the Corn Triangle have caused substantial early plantings, with indications that total plantings will be heavy.

Generally favorable weather conditions have improved grazing conditions markedly, reducing the demand for supplemental feeding.

OCTOBER CROP-WEATHER IN UNITED KINGDOM

October was unsettled with alternate periods of wet and dry weather. Temperatures were generally below average and slight night frosts occurred in some areas. After some early delay in field work and the harvesting of sugar beets, a great improvement occurred at the end of the month and satisfactory progress was made. Potato harvest was made difficult by the wet fields. The incidence of blight was slight, but occasional wet rot and slug damage was observed. Sugar beet yields are good this year, but sugar content is down from last year.

RECORD PEACH PRODUCTION IN GREECE

A record peach crop was harvested in Greece, an 18 percent increase over last year. Apple and apricot production was also up from last year which was affected by adverse weather. The large increase in peach production was due mainly to new trees coming into production. Weather conditions were very good except for some sharp temperature changes during harvest.

Favorable weather conditions accounted for a 30 percent increase in the 1973 crop. The mid-January 1973 frost in Peloponese did not affect apricot trees and the March 1973 frost caused a natural thinning of the fruit. Quality and size were good.