

Weekly Weather & Crop Bulletin

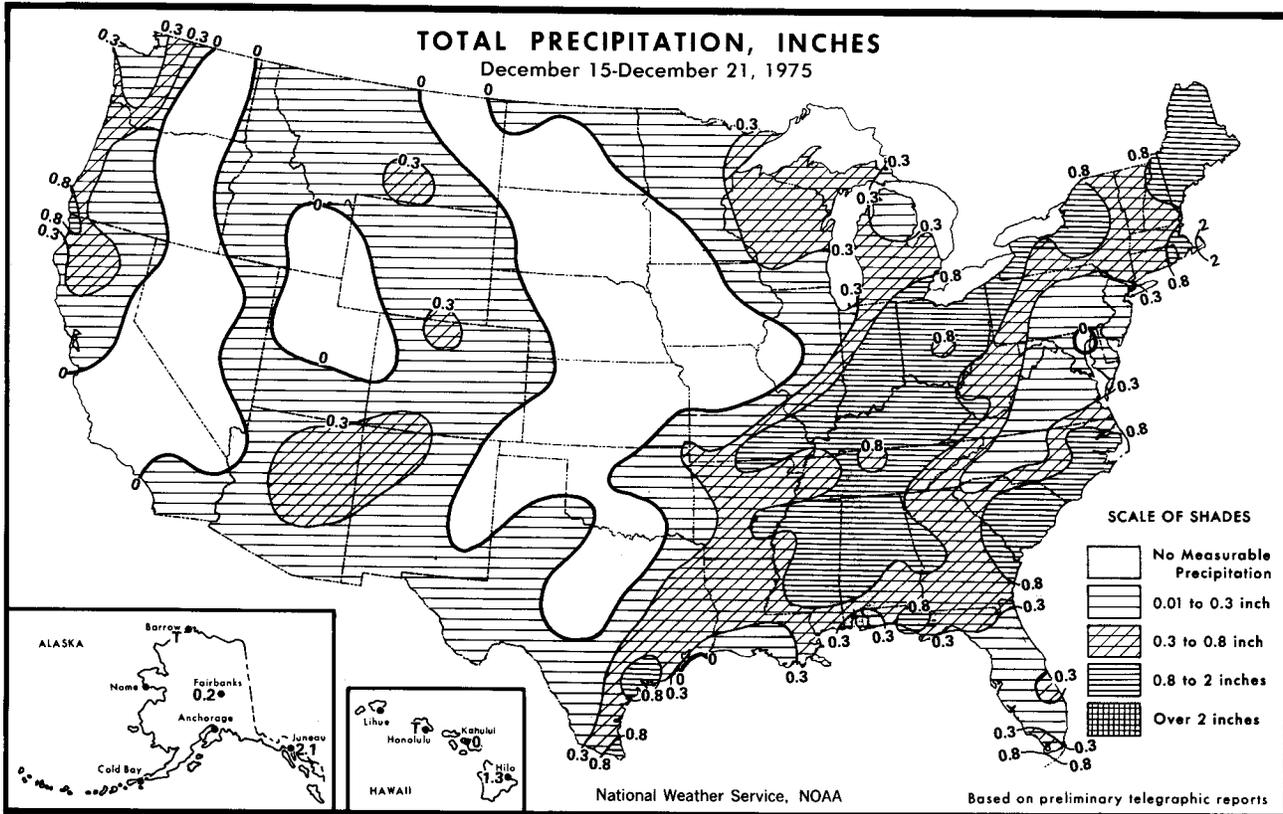
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NATIONAL WEATHER SUMMARY

For the Week of December 15-21

HIGHLIGHTS: Temperatures that averaged 10° or more below normal during the week heralded winter's arrival across much of the Nation. An arctic air mass that invaded northern U.S. pushed northeast, accompanied at times by heavy snow and brisk winds. Precipitation focused mainly on the eastern third of the Nation, along the Appalachians and lower Atlantic Coast.

The arctic air mass that invaded northern U.S. over the weekend continued to push through the Midwest and southern Plains on Monday, reaching as far south as central Texas. Amid the cold air, morning readings dropped well below zero across much of Minnesota, Nebraska, and the Dakotas. The Nation's cold spot: International Falls, Minn. -30°.

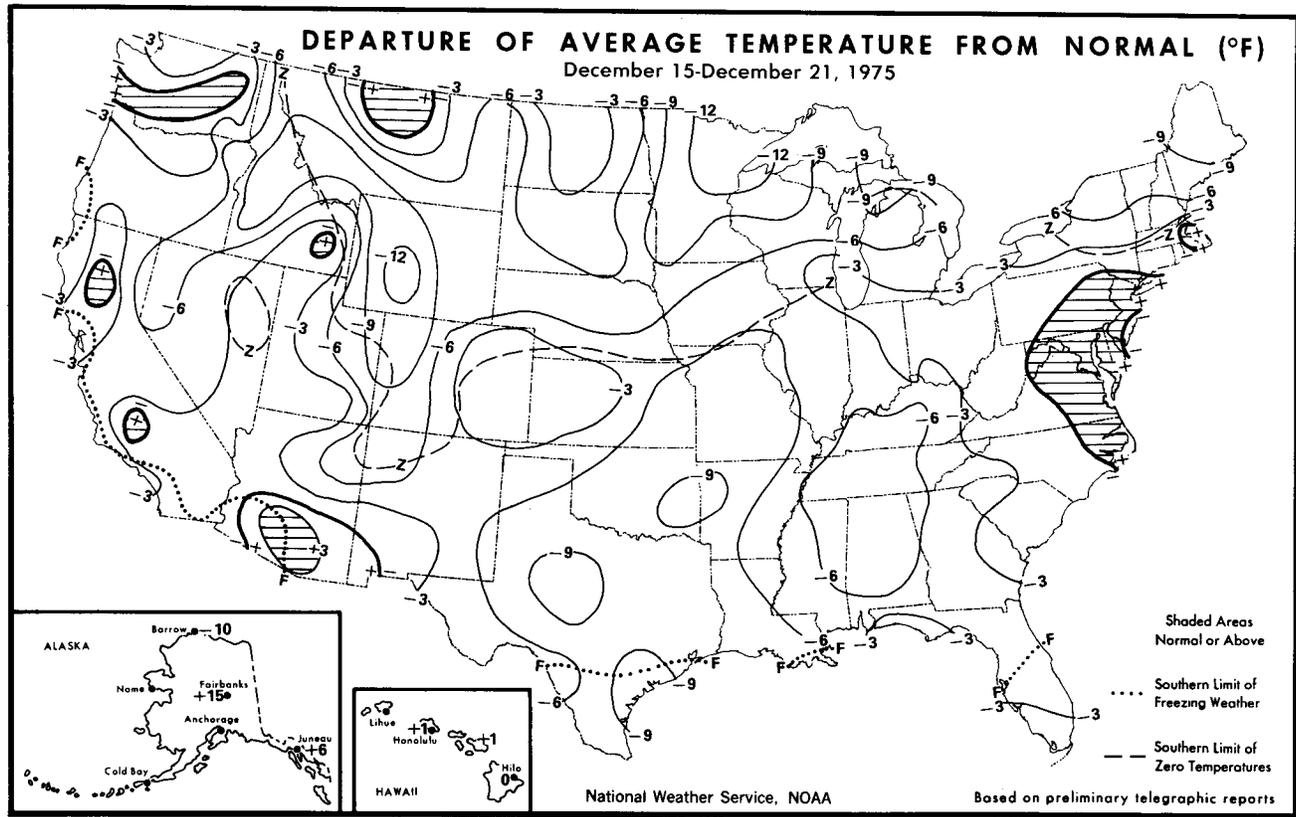
In addition to the lowest temperatures of the season, the surge of cold air also brought a

variety of precipitation to many areas. Light snow was scattered from upper Michigan into Missouri and freezing drizzle iced parts of Illinois, Wisconsin, and Oklahoma.

During the day rainy weather and wintry air traveled eastward. Precipitation stretched from eastern Texas to the lower Great Lakes, sharply dividing temperatures across the Nation. The mercury edged into the 50's and 60's in the East--where daily record highs included Boston, Mass., 66°-- and stalled in the 30's in the West.

On Tuesday the cold front swept through New England and into portions of the central and southern Atlantic Coast States. Chilly air that trailed the front put an end to the record warm readings in the East.

Associated with the cold front, scattered showers dampened much of the Gulf and Atlantic coastal regions, except southern Florida and Georgia.



Precipitation was limited across the rest of the Nation, though some snow flurries filled the air over the northern Rockies and central Plains.

Bitter cold clutched the northern tier of States from the Rockies to the Great Lakes, where brisk winds added to the chill created by below zero temperatures. An afternoon high of -7° put Williston, N.Dak., as the Nation's cold spot. The only warm air left in the Nation settled along the Gulf and central and southern Atlantic Coasts, where most readings crept into the 50's and 60's.

Even fewer traces of warm weather could be found around the Nation on Wednesday. Remnants of the warm air that covered the Nation early in the week pushed into central and southern Florida, where temperatures soared into the 70's and 80's.

Meantime blowing snow accompanied temperatures that slipped below zero from the upper Mississippi Valley through the northern Plains into the northern and central Rockies. As the day progressed a wider area complained about the intense cold. By late afternoon below freezing temperatures prevailed from the Rockies to the Great Lakes and southward into the southern Plains and lower Mississippi Valley. A high of 33° put Lubbock, Tex. at a new record low for the day.

Thursday morning brought a new storm center to life off the northern Atlantic Coast. Precipitation early in the day came as snow scattered over much of the Great Lakes region.

Once again very cold air had a firm grip on the Great Plains and Mississippi Valley. Cold weather even penetrated deep into the South, where afternoon highs scored only in the 40's along much of the Gulf Coast. Though temperatures warmed slightly through the Plains, bitter cold enveloped an area from the northern and middle Mississippi Valley into the upper Great Lakes region.

Fair weather greeted much of the Nation on Friday morning and temperatures moderated over portions of the Mississippi Valley, Great Plains, and Rocky Mountain regions. In the East, however, it was another wintry day as unseasonably cold weather held firm from the Atlantic Coast through the Ohio and lower Mississippi Valleys. Record lows turned up in parts of Louisiana, Mississippi, Georgia, and North Carolina. Freezing temperatures even slipped into central Florida, but brisk winds in most areas minimized frost damage.

In the evening a low pressure center from Canada added to the snow cover in the upper Mississippi Valley and western Great Lakes area. The snow area reached from the eastern Dakotas across the Great Lakes into the northern Appalachians.

Triggered by the low pressure center in lower Michigan, snow persisted from the upper Mississippi Valley into western New England on Saturday.

While observers noted some cooling over northern and central portions of the Plains, sunshine in the southern Plains warmed most of southern Texas about 20° into the 60's.

The slow moving storm dumped more heavy snow in the East on Sunday morning as it continued along the Ohio River Valley into West Virginia. Snow depths were building. In Maine, Caribou and Augusta each measured 13 inches of snow.

Later in the day, though, the heavy snow came to an end, when the low pressure center moved out to sea. Flurries still hovered over most of New England, the central Appalachians, lower Great Lakes, and upper Ohio Valley regions. In extreme southern New Hampshire, Hampton waded through 17 inches of snow and Merrimack measured 15 inches. However, more heavy snow seemed just around the corner for New England. At the end of the week, another storm developing off the mid-Atlantic Coast intensified and moved northward.

NATIONAL AGRICULTURAL SUMMARY

For the Week of December 15-21

HIGHLIGHTS: Subnormal temperatures throughout the Nation caused much stress on livestock and feed supplies and stopped or slowed small grain growth in most areas. Harvest of remaining row crops made rapid progress in the Southern States. By December 21, cotton harvesting in the 11 major producing States was over 90% complete.

SMALL GRAINS: Subnormal temperatures stymied small grain growth in most southern areas, while cold, dry conditions caused much concern in the Southern Great Plains. Small grain grazing was limited due to slow growth and poor stands.

Winter wheat condition was mostly unchanged in Kansas; good in the east and poor to fair in the west. Cool temperatures allowed little growth. Subsoil moisture supplies remain short in the western two-thirds of the State. In Oklahoma, cold weather lessened greenbug activity, but spraying continued. Wheat condition ranged from poor in much of the Panhandle to good and excellent in the Southwest. Light ground cover in northern areas of the State caused concern for wind damage and winterkill. Cold, dry weather slowed growth of winter wheat in Texas. Moisture stress was taking its toll and some stands were dying. Greenbug damage was reduced, but control measures were still necessary in parts of Low Plains.

Snow benefited winter wheat in Wyoming. In Montana, wheat continues in good condition and wind damage remains light.

COTTON: Another week of rapid progress advanced cotton harvest in the 11 major Southern States to 92% complete by December 21, ahead of both the 1974 and average levels.

Harvest of cotton in Texas is rapidly nearing completion with 91% finished versus 85% in 1974 and the average 80%. Harvest was active and well along on the High Plains and making excellent progress on the Low Plains, Edwards Plateau, and Trans-Pecos areas. Gins were catching up with the backlog on the High Plains. In Mississippi, cotton was 92% picked, compared with 89% in 1974 and average 96%. Cotton harvesting reached 94% complete in Alabama, while in Georgia 10% of the crop remains in the fields. Cotton harvesting in Oklahoma was the furthest advanced since the 1970 crop, with 70% already harvested, much ahead of last year's 51%.

Cotton picking was virtually complete in New Mexico, nearing completion in Arizona's Yuma and Cochise Counties, and 90% finished in central areas of Arizona. In California, picking was almost done in the San Joaquin Valley and well along in the Imperial Valley.

SOYBEANS: Soybean harvest was virtually complete in all major States except Alabama, Georgia, Mississippi, North Carolina, and Virginia. Combining made fair progress in these States during the past week.

Harvest in the Southern States was over 98% finished by December 21, on schedule with 1974 and normal. Combining reached 97% complete in both Alabama and Mississippi. Progress in Mississippi continues ahead of the 93% in 1974 and average 94%. Harvest was 89% wrapped up in North Carolina versus 94% in 1974 and the usual 90%. In Georgia, 10% of the soybeans remains in the fields, while in

Virginia only a few fields remain. Scattered fields in South Carolina were harvested.

OTHER CROPS: Harvest of the remaining 1975 corn for grain continued. In Alabama, harvest was 98% complete. Only a few fields remain in Virginia and harvest was near completion in Georgia.

Another good, but cold week favored combining of sorghum in Oklahoma, where harvest was near completion. Grain sorghum harvest was complete in Arizona.

Tobacco stripping continued in Kentucky; marketing continues in Kentucky, Tennessee, and Virginia. Markets closed the 18th and will reopen after the holidays. The Burley market was stronger although quality was slightly lower.

Sugarcane harvest was in full swing in Florida and near completion in Louisiana where several mills completed grinding. Sugarbeets made good growth in Arizona and digging started in the California San Joaquin Valley.

FRUITS AND NUTS: Cool temperatures--near freezing on the 19th--kept citrus growers alert in Florida, but caused little or no damage. However, in California, frost damaged some citrus in the lower San Joaquin Valley. Frost also burned new growth in avocado groves in colder areas of Santa Barbara County. Citrus harvest continued very active in Florida, but moisture is needed in all areas because of insufficient rainfall. Picking of California navel oranges grew more active as additional fruit reached maturity. Texas citrus harvest remains active.

Pecan harvest was nearing completion in New Mexico and in central and south central Texas. Most harvest activity was in Cross-Timbers and along the Red River in North Texas. Harvest reached 75% complete in Oklahoma and 91% in Mississippi.

VEGETABLES: Cold temperatures in Florida slowed growth and maturity and caused minor leaf burn to vegetable crops, but plant conditions remain mostly good. Fall production peaked during the week and supplies of cabbage, celery, sweet corn, cucumbers, and peppers increased. Supplies of snap beans, eggplant, escarole-endive, radishes, and squash held steady. Irrigation and planting was active. In Texas, cabbage, carrot, green pepper and lettuce harvests continued. Cabbage and carrot growth were excellent in the Lower Rio Grande Valley, but excessive weed cover slowed growth of spinach in the Coastal Bend area. Broccoli, cauliflower, celery, and lettuce were in good supply in California, while carrot digging was light and market tomato picking was about complete.

PASTURES AND LIVESTOCK: Cold and freezing temperatures halted growth of pastures and ranges in many Southern States and added stress to livestock. Poor growth of small grain pastures in the Southern Great Plains furnished short grazing. Supplemental feed requirements were increased in most areas of the Nation to help maintain condition of livestock. Livestock continue in mostly good condition, but cold temperatures caused weight losses to animals in many areas.

Season's Greetings and New Year Wishes

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Dec. 21, 1975

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 . . .	38	-7	.8	-.4	La. Baton Rouge . . .	46	-7	.2	-1.0	Youngstown . . .	26	-2	.9	+.3
Mobile . . .	48	-5	.2	-1.2	Lake Charles . . .	46	-8	T	-1.3	OKLA. Okla. City . . .	32	-7	T	-.3
Montgomery . . .	42	-6	.7	-.5	New Orleans . . .	49	-6	.4	-.8	Tulsa . . .	31	-8	.1	-.3
ALASKA. Anchorage . . .					Shreveport . . .	42	-7	.5	-.5	OREG. Astoria . . .	43	-8	.7	-1.7
Barrow . . .	23	-10	T	0	MAINE. Caribou . . .	5	-10	.9	+.3	Burns . . .	24	-3	0	-.4
Fairbanks . . .	4	+15	.2	+.1	Portland . . .	17	-8	1.1	+.2	Medford . . .	35	-2	T	-.8
Juneau . . .	33	+6	2.1	+1.1	MD. Baltimore . . .	36	+2	T	-.7	Pendleton . . .	34	-2	T	-.3
Kodiak . . .					MASS. Boston . . .	32	0	1.2	+.3	Portland . . .	40	-1	.6	-.7
Nome . . .					Chatham . . .	41	-6	2.1	-.3	Salem . . .	36	-5	.1	-1.4
ARIZ. Flagstaff . . .	26	-3	.6	+.1	MICH. Alpena . . .	16	-6	.2	-.2	PA. Allentown . . .	30	0	.1	-.7
Phoenix . . .	55	+3	.4	+.2	Detroit . . .	24	4	.8	+.3	Erie . . .	27	-1	1.5	+.9
Tucson . . .	55	+4	.2	0	Flint . . .	25	1	.5	+.1	Harrisburg . . .	33	+1	T	-.7
Winslow . . .	26	-7	.6	+.5	Grand Rapids . . .	22	5	.6	+.1	Philadelphia . . .	35	+1	.1	-.7
Yuma . . .	54	-2	.2	+.1	Houghton Lake . . .	16	6	.2	-.2	Pittsburgh . . .	28	-2	.6	0
ARK. Fort Smith . . .	31	-10	.2	-.4	Lansing . . .	22	4	.6	+.2	Scranton . . .	28	0	.1	-.5
Little Rock . . .	36	-5	.6	-.3	Marquette . . .	16	7	.3	-.1	R.I. Providence . . .	29	-1	.9	0
CALIF. Bakersfield . . .	48	+1	0	-.1	Muskegon . . .	25	3	.5	-.1	S.C. Charleston . . .	48	-1	.9	+.1
Eureka . . .	43	-5	.2	-1.3	S. Ste. Marie . . .	7	-12	.3	-.2	Columbia . . .	43	-2	1.4	+.6
Fresno . . .	42	-3	0	-.4	MINN. Duluth . . .	1	-12	.3	0	Greenville . . .	39	-3	1.2	-.8
Los Angeles . . .	54	-4	0	-.5	Internat'l Falls . . .	-5	-13	.2	0	S.D. Aberdeen . . .	10	-6	T	-.1
Red Bluff . . .	47	+1	.3	-.6	Minneapolis . . .	10	8	-.1	-.1	Huron . . .	14	-4	T	-.1
San Diego . . .	55	-1	.1	-.3	Rochester . . .	12	6	.1	-.1	Rapid City . . .	21	-5	T	-.1
San Francisco . . .	47	-2	.1	-.8	St. Cloud . . .	4	-11	.1	-.1	Sioux Falls . . .	10	-9	T	-.1
Stockton . . .	42	-3	T	-.6	MISS. Jackson . . .	44	4	1.4	+.2	TENN. Chattanooga . . .	35	-6	.7	-.5
COLO. Denver . . .	30	-2	.1	0	Meridian . . .	40	7	1.3	0	Knoxville . . .	37	-4	.6	-.4
Grand Junction . . .	18	-11	T	-.1	MO. Columbia . . .	26	6	T	-.4	Memphis . . .	36	-6	.8	-.3
Pueblo . . .	30	-3	T	-.1	Kansas City . . .	25	7	T	-.4	Nashville . . .	34	-6	.7	-.3
CONN. Bridgeport . . .	33	0	.6	-.2	St. Louis . . .	28	6	.3	-.2	TEX. Abilene . . .	36	-10	T	-.3
Hartford . . .	26	-1	.4	-.5	Springfield . . .	28	7	.1	-.5	Amarillo . . .	32	-6	T	-.2
D.C. Washington . . .	39	+3	T	-.7	MONT. Billings . . .	20	6	.4	+.3	Austin . . .	44	-8	.3	-.2
FLA. Apalachicola . . .	55	0	.2	-.6	Glasgow . . .	11	5	T	-.1	Beaumont . . .	46	-8	.3	-.8
Daytona Beach . . .	56	-3	.1	-.4	Great Falls . . .	26	0	.1	0	Brownsville . . .	53	-9	.8	+.5
Ft. Myers . . .	62	-2	.3	0	Havre . . .	20	+2	T	-.1	Corpus Christi . . .	50	-9	.3	-.1
Jacksonville . . .	51	-4	.2	-.4	Helena . . .	12	-11	.1	0	Del Rio . . .	47	-5	.2	+.1
Key West . . .	71	0	1.4	+1.0	Kalispell . . .	17	6	.2	-.2	El Paso . . .	41	-3	.2	+.1
Lakeland . . .	58	-4	.1	-.4	Miles City . . .	16	5	T	-.1	Fort Worth . . .	40	-7	T	-.4
Miami . . .	67	-1	.1	-.3	Missoula . . .	13	-11	.2	-.1	Galveston . . .	49	-8	0	-.8
Orlando . . .	58	-3	.1	-.3	NEBR. Grand Island . . .	21	5	0	-.1	Houston . . .	46	-8	.6	-.3
Tallahassee . . .	49	-4	.5	-.5	Lincoln . . .	21	6	0	-.1	Lubbock . . .	34	-7	T	-.1
Tampa . . .	57	4	.1	-.4	Norfolk . . .	17	6	T	-.2	Midland . . .	38	-7	.1	0
W. Palm Beach . . .	64	-3	.1	-.4	N. Platte . . .	20	6	T	-.1	San Angelo . . .	38	-10	T	-.1
GA. Atlanta . . .	38	-5	.8	+.2	Omaha . . .	21	4	0	-.2	San Antonio . . .	47	-6	.1	-.3
Augusta . . .	45	-1	1.2	+.4	Valentine . . .	18	6	0	-.1	Victoria . . .	46	-10	.8	+.4
Macon . . .	44	-4	.7	+.4	NEV. Ely . . .	24	2	T	-.1	Waco . . .	43	-6	.1	-.3
Savannah . . .	49	-1	1.2	+.4	Las Vegas . . .	44	1	0	-.1	Wichita Falls . . .	36	-8	0	-.3
HAWAII. Hilo . . .	72	0	1.3	-2.4	Reno . . .	26	6	0	-.3	UTAH. Blanding . . .	26	-3	.2	-.1
Honolulu . . .	74	+1	T	.8	Winnemucca . . .	26	4	0	-.2	Salt Lake City . . .	26	-4	T	-.3
Kahului . . .	73	+1	0	-.6	N.H. Concord . . .	19	5	.3	-.4	VT. Burlington . . .	13	-8	.3	-.2
Lihue . . .					N.J. Atlantic City . . .	32	-2	.2	-.7	VA. Lynchburg . . .	35	-2	.1	-.7
IDAHO. Boise . . .	21	-11	.1	-.2	Trenton . . .	35	+1	.2	-.5	Norfolk . . .	42	+1	.4	-.3
Lewiston . . .	32	-3	.1	-.2	N.MEX. Albuquerque . . .	32	4	.2	+.1	Richmond . . .	39	+1	T	-.7
Pocatello . . .	28	+2	0	-.2	Roswell . . .	35	4	T	-.1	Roanoke . . .	36	-1	T	-.7
ILL. Cairo . . .	35	5	1.0	+.1	N.Y. Albany . . .	22	3	.7	0	WASH. Colville . . .	27	0	0	-.5
Chicago . . .	25	3	T	.5	Binghamton . . .	22	2	.8	+.2	Omak . . .	21	-5	0	-.4
Moline . . .	21	5	T	.4	Buffalo . . .	23	4	1.6	+1.0	Quillayute . . .	39	-1	.3	-3.3
Peoria . . .	22	5	T	.4	New York . . .	35	0	.1	-.7	Seattle-Tacoma . . .	37	-3	.2	-1.1
Rockford . . .	20	4	T	.4	Rochester . . .	24	3	.8	+.3	Spokane . . .	26	-3	T	-.5
Springfield . . .	25	5	T	.4	Syracuse . . .	22	5	1.1	+.4	Walla Walla . . .	31	-6	T	-.4
IND. Evansville . . .	29	6	1.3	+.5	N.C. Asheville . . .	34	4	.3	-.5	Yakima . . .	31	0	T	-.3
Ft. Wayne . . .	26	2	1.3	+.8	Charlotte . . .	39	3	.4	-.4	W.Va. Beckley . . .	31	-1	.5	-.3
Indianapolis . . .	25	5	1.4	+.8	Greensboro . . .	38	1	.1	-.6	Charleston . . .	34	-1	.8	+.1
South Bend . . .	27	0	.6	0	Hatteras . . .	47	0	1.6	+.6	Huntington . . .	33	-2	.7	+.1
IOWA. Burlington . . .	21	-6	T	-.4	Raleigh . . .	39	1	.4	-.3	Parkersburg . . .	32	-2	T	-.6
Des Moines . . .	20	-4	T	-.2	Wilmington . . .	46	1	1.3	+.5	WIS. Green Bay . . .	12	-8	.4	+.1
Dubuque . . .	18	-4	T	-.4	N.DAK. Bismarck . . .	13	2	T	-.1	La Crosse . . .	15	-6	.5	+.3
Sioux City . . .	16	-7	T	-.1	Fargo . . .	6	6	1	0	Madison . . .	18	-3	T	-.4
KANS. Concordia . . .	26	3	0	-.2	Williston . . .	9	6	T	-.1	Milwaukee . . .	22	-1	.2	-.2
Dodge City . . .	30	3	T	-.1	OHIO. Akron-Canton . . .	28	0	.9	+.4	WYO. Casper . . .	20	-6	.2	+.1
Goodland . . .	29	1	.1	0	Cincinnati . . .	31	2	.9	+.3	Cheyenne . . .	23	-6	.2	+.1
Topeka . . .	25	6	0	-.4	Cleveland . . .	27	2	1.2	+.7	Lander . . .	11	-12	.1	0
Wichita . . .	28	6	T	-.3	Columbus . . .	28	2	.7	+.2	Sheridan . . .	19	-6	.1	0
KY. Lexington . . .	28	7	1.0	+.2	Dayton . . .	27	3	1.4	+.9	P.R. San Juan . . .	77	0	.2	-.9
Louisville . . .	31	-4	1.0	+.3	Toledo . . .	25	2	1.4	+.9					

Based on 1941-70 Normals

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STATE SUMMARIES OF WEATHER AND AGRICULTURE

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by SRS State offices in cooperation with the National Weather Service, NOAA.

ALABAMA: Unseasonable warmth that prevailed early week was replaced by the coldest weather of past few years. Major change occurred on 18th, when Arctic air spread rapidly south. Temperatures dropped to 8° in some northern valleys on night of 18th and a hard freeze extended to the coast. All areas received rain early week, but precipitation continues to average well below normal for December. Cotton, corn, soybean harvest almost complete: Cotton 94%; corn 98%; soybeans 97%. Small grains good condition; planting virtually complete. Livestock fair to good condition, pastures fair. Soil moisture adequate in most counties to surplus in a few low-lying counties.

ARIZONA: Dry most of week, widespread rain over weekend 0.50 to 1.00 in. at higher elevations, 0.25 to 0.50 in. at lower elevations. Northeast plateau only a trace. Temperatures slightly below normal most areas.

Cotton harvest rapid progress, slowed by rain weekend. Nearing completion Yuma and Cochise, 90% central areas. Grain sorghum practically complete. Sugarbeets making good progress maturity ahead of normal Yuma County. Seeding small grain active. Few fields alfalfa cut, many fields used sheep pasture. Lettuce harvest full swing Yuma, winding down central area. Mixed vegetable harvest, seasonal progress. Harvest navel, grapefruit, lemons Yuma, Salt River Valley. Picking tangerines, tangelos active Salt River Valley. Cattle, calves fair to good condition. Inshipments active, outshipments slow. Range forage mostly fair. Some ranchers feeding supplements.

ARKANSAS: Temperatures ranged 4 to 9° below normal. Extremes: 70 and 7°. Precipitation early week. Totals trace to 1.41 in.

Bitter cold temperatures discouraged most fieldwork. Field preparation for 1976 crops well ahead of most previous years. Harvesting 1975 crops complete. Pastures providing very little grazing. Most cattle on supplemental feed. Farm activity mostly caring for livestock and maintaining equipment.

CALIFORNIA: Light precipitation mountains and some valley areas, none southeast interior, beginning and end of period. Amounts mostly less than 0.25 in. otherwise, mostly fair. Warming by midweek with highs central valley and coastal valleys in 60s and south coast and southeast deserts near 70°. Lows central valley, coastal valleys, and 1 low southeast deserts mostly mid-20s to low 30s. Cooling south coast end of week. Weekly averages 2 to 6° below normal.

Cool weather stopped small grain growth. Weekend rain improved conditions some areas. Cotton picking almost done San Joaquin Valley, well along Imperial Valley. Some sugarbeet digging San Joaquin Valley. Fresh table grapes shipped from cold storage. Avocado, date, lemon, grapefruit and mandarin harvests normal progress. Navel orange picking more active as additional fruit reaches maturity. Some frost damage to citrus Lower San Joaquin Valley. Frost burned new growth in avocado groves colder areas Santa Barbara County. Pruning, spraying, other seasonal work active. Broccoli, cauliflower, celery, lettuce in good supply. Carrot digging light. Market tomato picking about complete. Rangelands Central Valley need rain. Supplemental feeding necessary most

areas. Predatory losses low. Turkey growers preparing next year's crop.

COLORADO: Chinook winds brought warmer temperatures eastern plains early week. Arctic front pushing southward from Rockies on 16th brought 1 to 3 in. snow east of Continental Divide. Remainder of week 18th to 20th clear and mild.

Livestock continue to forage where possible with supplemental feeding necessary.

FLORIDA: Mild to warm early week with cold Arctic air over State late week. Temperatures in the 20's on morning of 19th and in the upper 20's as far south as central portions. Temperatures averaged above normal early week and below normal late week. Rain generally 0.25 in. except more than 1.00 in. northwest and southeast coast.

Soil moisture mostly adequate west and north, short elsewhere. Soybean, pecan and cotton harvest about complete. Sugarcane harvest full swing. Tobacco plant beds being prepared. Small grains fair to good condition, rain needed. Increased pasture damage by frost. Pastures fair to poor Panhandle and north, very poor to fair central and south. Recent shower activity improved fall seeded forages. Cattle and calves mostly fair condition. Citrus groves good condition. Moisture needed all areas, light rains insufficient. Near freezing on 19th, no damage. Harvest very active. Vegetable crops suffered minor leaf-burn from passing cold front. Plant conditions mostly good, plant growth and fruit maturity slowed by cold weather. Fall production peaked during week. Crops increasing supply cabbage, celery, sweet corn, cucumbers, and peppers. Snap beans, eggplant, escarole, endive, radishes and squash steady supply. Tomato supply decreased. Quality and yields generally good most crops. Irrigation active all crops. Planting continues active.

GEORGIA: Weekly temperatures averaged 2° above normal extreme north and south and 5° above normal elsewhere. Warm, turning cooler midweek. Much colder late week. Low morning of 19th near 10° mountains to near 20° coast. Rainfall mainly 16th through morning 18th averaged 0.75 in. Few areas 1.50 in. Continued cold weekend.

Surplus soil moisture. Fieldwork limited by rain and cold weather. Corn harvest and fall land preparation nearly complete. Ten percent of pecans, soybeans and cotton remain in fields. Tobacco beds 40% complete with activity continuing. Cattle and pastures fair to good. Small grains good condition.

HAWAII: Growing conditions improving despite cool weather. Rainfall light with more sunny days. Spraying frequent to control diseases and insects.

Vegetable supplies gradually increasing. Tomato harvest heavy on Hawaii. Banana supplies adequate. Papaya supplies heavy. Airline strike curtailed shipments to mainland. Sugar grinding almost completed. Cool weather causing slow forage growth on pastures.

IDAHO: Temperatures generally 1 to 10° below normal, precipitation 0.01 to 0.25 in. below normal. Maxima mid-30's to mid-40's, minima below zero higher valleys east and south central to teens and subteens elsewhere. Precipitation

ranged trace at Aberdeen and Fairfield to 0.23 in. at Lewiston.

Cold weather continued to slow all farming activity. Calving and lambing active. Livestock in good condition.

ILLINOIS: Temperatures 3 to 6° below normal. Precipitation 0.33 in. south, less than 0.10 in. elsewhere.

Winter wheat condition 36% excellent, 62% good, 2% fair. Plowing 1976 corn and soybeans nearly 70% complete. Livestock mostly good condition. Soil moisture 11% short, 77% adequate, 12% surplus. Main activities: Livestock care, chores, machinery repair.

INDIANA: Cool and cloudy. Sunshine 30% of possible. Temperatures ranged from 4 to 66°. Daily minimum temperatures averaged 20 and 3° below normal. Daily maximum temperatures averaged 30 and 6° below normal. Precipitation 0.20 in. central and north, 0.50 in. south. Snow cover 2 to 4 in. near Lake Michigan. Soils frozen 2 to 5 in. Winter so far 15% warmer than normal.

Fieldwork nil. Activities: Chores and preparation for holidays.

IOWA: Except for a brief warming trend around 19th, cool, dry high pressure dominated the weather most of week. Temperatures 4 to 9° below normal. Precipitation from 0 to a few hundredths.

Major farm activities included care of livestock, machinery repair, other winter tasks and preparation for the Yuletide Season.

KANSAS: Below normal temperatures, little or no precipitation occurred. Temperatures ranged from 27° east central to 32° southwest, or about 1° below normal west and north central to 3 to 5° below normal elsewhere.

Wheat condition unchanged. Good in east, poor to fair in west. Cool week with little growth. Subsoil moisture supplies remain short in western two-thirds.

KENTUCKY: Cooling trend prevailed through the week bringing temperatures below normal. Late week high temperatures were averaging in 30's, lows were in the teens. Rain fell early week with a few snow flurries. Late week, precipitation total averaged around 1.00 in.

Farmers busy early in period stripping tobacco and getting on warehouse floor. Market closed 18th until after holidays. Volume heavy, quality a little lower, prices improved slightly. Some supplemental feeding livestock necessary result cold, snowy weather. Winter grains and pasture growth halted by low temperatures.

LOUISIANA: Temperatures 2 to 5° below. Warm early week, cold remainder. Temperatures extremes: 81° on 14th and 15th, 18° 19th. Light rain most areas first half of week. Greatest weekly rainfall, 0.96 in.

Sugarcane harvest near complete. Several mills completed grinding. Pastures normal. Cattle fair.

MARYLAND AND DELAWARE: Temperatures averaged 3 to 5° above normal. Highs ranged from low to mid-60's; lows, 2° western Maryland to low 20's elsewhere. Precipitation light ranging from trace to 1.05 in. Cold and snow flurries late week.

A few fields of corn for grain and soybeans were harvested. Moisture supplies adequate. Chores and repairs were major activities.

MICHIGAN: Temperatures mostly below normal except near normal extreme southwest. Averages mainly in teens and low 20's over Lower and teens or below over Upper. Near midweek temperatures had cooled to the low teens over southern Lower to below zero over Upper. Record low occurred around Lansing. Precipitation occurred mainly as snow with depths ranging from 1 to 8 in. over southern Lower and from 4 to 18 in. over Upper. Heaviest equivalent water at or over 1.00 in. across Keweenaw Peninsula and southeast Lower Peninsula.

Farmers busy scooping snow late week.

MINNESOTA: Cold week. Temperatures 6 to 12° below normal. Extremes: 40 to -36°. Most areas had 3 to 5 days with morning lows zero or colder. Other than Arrowhead area precipitation below normal. New snowfall around 1 in., except 3 to 5 in. Arrowhead. Total snow depth varies from 2 in. or less south and west, 2 to 6 in. southwest and central 8 to 15 in. northeast.

Farm routine normal wintertime chores and repairs.

MISSISSIPPI: Temperatures near normal. Extremes: 80 and 9°. Greatest 24-hour rainfall was 1.22 in. at Jackson on 16th.

Soil moisture supplies adequate to surplus. Fieldwork 2.8 days suitable. Cotton 92% harvested, 89% 1974, 96% average. Soybeans 97% harvested, 93% 1974, 94% average. Pecans 91% harvested, 93%, 1974. Pastures in mostly fair condition. Livestock in fair to good condition. Hay and roughage supplies mostly adequate, feed grain supplies short to adequate.

MISSOURI: Temperatures averaged below normal throughout, except Bootheel averaged 1° above normal. Precipitation ranged from 0.75 in. Bootheel to 1.35 in. elsewhere.

Major farm activities consist of winter care and management of livestock.

MONTANA: Cool week. Temperatures averaged 11° below normal over southwest and west as cold air became trapped in valleys. Windy conditions over north central and central held temperatures near normal most of week. Precipitation occurred early week. West and south received significant snow with little or none elsewhere. Continuous snow cover in south central and east.

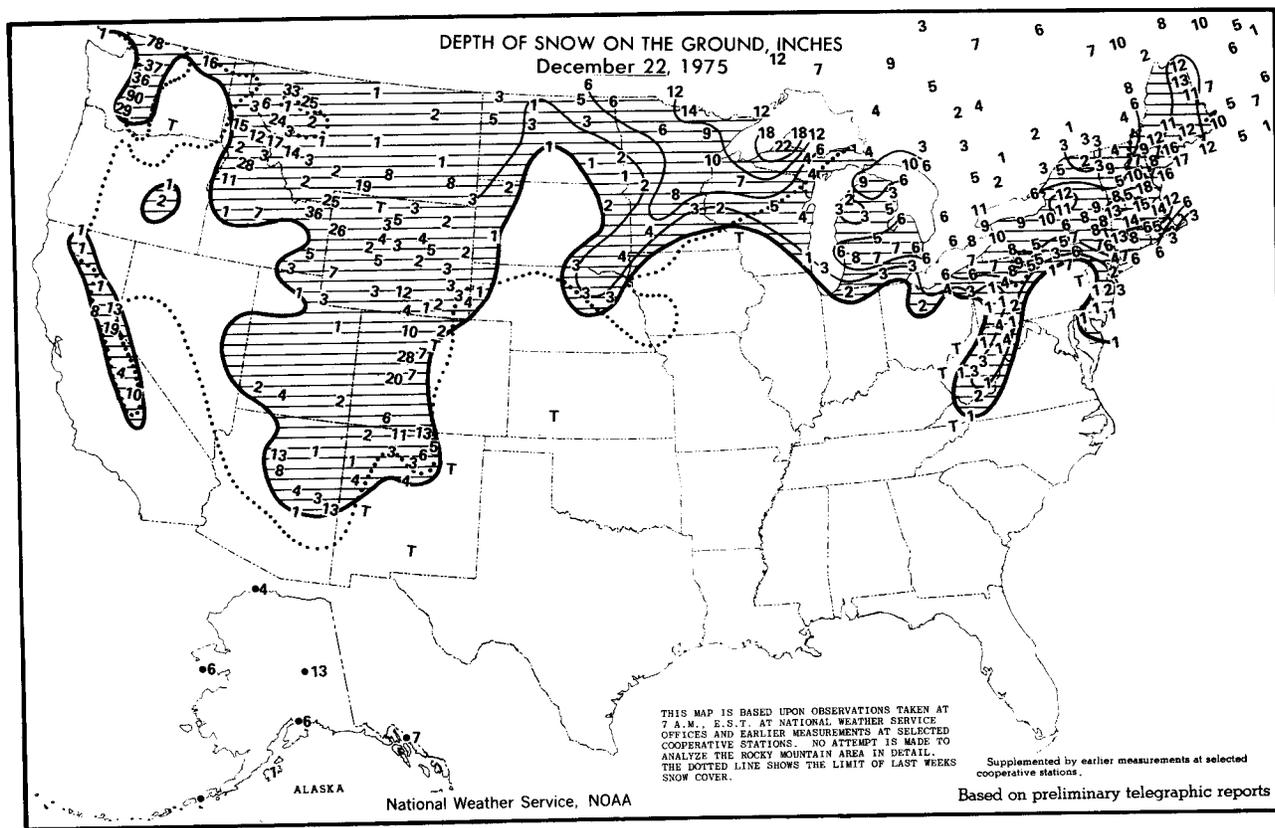
Winter wheat condition good, wind damage none to light. Livestock condition good. Grazing open to difficult. Most livestock receiving supplemental feed.

NEBRASKA: Temperature 6° below normal with warm days and cold nights. Precipitation general, heaviest in Panhandle and east with 0.20 to 0.33 in.

NEVADA: Sunny days, clear, cold nights. Only measureable precipitation 0.01 in. Ely. Temperatures averaged near normal to 6° above days, 5 to 10° below nights. Extremes: 67° Logandale, 4° below zero Ely.

Mild weather favorable to livestock. Supplemental feeding light to-date.

NEW ENGLAND: Very mild air 15th resulted in temperatures low to mid 60's across southern New England with Boston's 66° a record high. Strong cold front plunged temperatures late 16th, 17th followed by coastal storm which moved northward dropping nearly foot snow on Maine from Portland north, lesser amounts elsewhere. Even colder air followed storm dropping temperatures below



zero across northern New England and into single numbers southern New England on 20th. The 20° below zero at Portland, Maine set new record. Biggest snowstorm of new season began evening 20th continuing well into 21st.

NEW JERSEY: Temperatures 1° below normal north and 4° above normal coastal, averaging: 32° north, 37° south and 41° coastal. Extremes: 3° and 70°. Precipitation totals averaged 0.08 in. north, 0.05 in. south and 0.17 in. coastal. Snow of 1 to 3 in. fell over most areas on 21st and 22d.

Farmers caring for livestock and doing general farm chores.

NEW MEXICO: Dry most of week until light snow mountains, north and light rains lower elevations of south on 21st. Most precipitation amounts up to 0.20 in., continued dry northeast and east central plains. Temperatures mild, nights chilly, weekend storm brought general cooling. Most temperature averages 3 to 6° colder than normal.

Soil moisture condition remained short, but weekend rains should improve. Cotton harvest virtually complete; shredding stalks. Pecan harvest nearing completion. Winter wheat, barley fair to good, weekend rains beneficial. Ranges fair. Cattle and sheep good, some supplemental feeding.

NEW YORK: Week began unusually mild with temperatures in 50's and 60's. Colder 16th and moderately cold through 17th. On 19th temperatures fell below zero in the north country and over much of the upstate Region on 20th. Newcomb in the Adirondacks had -30°. Weekend snow depths ranged from 5 to 10 in.

NORTH CAROLINA: Temperatures averaged 2 to 4° above normal early week; record lows by end. Pre-

cipitation near normal; less than 0.25 in. mountains to 1.50 in. coast.

Soybean harvest 89% complete, 1974 94%, average 90%. Days suitable fieldwork averaged 2.5. Soil moisture mostly adequate to surplus. Small grains mostly good to fair; planting virtually complete. Pastures fair to good. Flue-cured tobacco beds being prepared.

NORTH DAKOTA: Temperatures 5 to 12° below normal. Extremes: 53 and -29°. Precipitation normal south-east to 0.10 in. below normal north central and central. Weekend mostly mild and dry. Snow cover ranges from trace south central to 12 in. north central.

Livestock good condition. Farm activity limited to wintertime chores. Extreme cold early week increased livestock feed requirements.

OHIO: Rain fell over entire State on 15th with amounts in excess of 1.00 in. northwest and west and 0.50 to 1.00 in. elsewhere. Colder on 16th and 17th with snow flurries mainly north. Coldest weather so far this season on 18th and below normal temperatures continued rest of week. Frequent periods of snow from 17th to 21st with generally light amounts except northeast. Chardon had 14 in. snow on 18th and several inches fell in snow belt area again on 20th.

OKLAHOMA: Temperatures averaged 1 to 3° below normal. Precipitation light to moderate. Ranged from none or a few hundredths up to 1.75 in. Weekend cool with showers western half.

Another week good, but cold weather brought sorghum and soybean harvest to near completion. Cotton harvest 70% complete, well ahead 51% year ago, and greatest advance this date since 1970 crop. Cold weather lessened greenbug activity,

but much more wheat acreage sprayed last week. Wheat condition ranges from poor much of Panhandle to fair north central to good and excellent southwest. Grazing heavy southwest. Light ground cover north cause for much concern for wind damage and winterkill. Pecan harvest 75% complete, quality only fair. Ranges being used fast as cold weather stepped up animal needs, supplemental small grain grazing short in many areas.

OREGON: Temperatures slightly below normal, with greatest departure from normal south central. Extremes: low 50's, mid 20's, west, upper 40's, near zero, east. Precipitation ranged 0.49 to 1.61 in. along coast, 0.08 to 0.79 in. western valleys, trace to 0.30 in. east.

Growers spraying grain, beginning pear tree pruning, berry pruning, overhauling equipment. Onions, potatoes being shipped. Feeding cattle. Feed supplies adequate.

PENNSYLVANIA: Cold, dry week. Mild early, turning colder midweek. Extremes: 64 and -1°. Weekly averages 2° above normal southeast, 4 to 6° below west and north. Total precipitation under 0.25 in. Southeast and central, 0.50 to over 1.00 in. west and north. General snowfall weekend except lower and middle Susquehanna Valley. Snow depths on 22d, none Susquehanna Valley, traces southeast from 6 to 15 in. northern mountains.

Farmers doing normal winter chores.

PUERTO RICO: Island average rainfall 0.69 in. Highest weekly total 2.94 in. at Pico Del Este Luquillo. Highest 24-hour total 0.83 in. at Morovis. Temperatures averaged 75° on coasts and 68° interior. Extremes: 87 and 50°.

SOUTH CAROLINA: Temperatures averaged above normal early week. High temperatures to mild 70's, lows to 40's. Lowest temperatures late week from teens to low 40's. Rainfall 0.40 in. over northwest and from 0.90 to 1.33 in. over remainder.

Seasonal lull in farm activities. Some scattered soybean harvest. Tobacco bed preparation, fumigation. Peach, apple tree pruning, planting new trees.

SOUTH DAKOTA: Temperatures averaged 1 to 3° below normal north and east, 4 to 8° below normal extreme west and south. Bitter cold early week, warming trend after midweek. Extremes: -30° Camp Crook 17th, 52° Rapid City 19th. Some light snow, greatest amount 0.24 in. at Lead.

Bitter cold caused added stress to livestock, necessitating above normal feeding for livestock to maintain current condition. The added feeding requirements are causing concern among some farmers as to a shortage of feed by spring.

TENNESSEE: Several cold fronts moved across, but precipitation was below normal. Rainfall averaged about 0.50 in. Temperatures were very close to normal warm early week and extreme cold at end.

Only farming operations were caring for livestock and moving late tobacco to auctions.

TEXAS: Cool, dry weather dominated past week, worsening already dry conditions. Precipitation near normal Lower Rio Grande Valley where slightly above 0.50 in. fell. Elsewhere, totals under 0.25 in. Temperatures below normal, varied 3 to 7° below normal southeast two-thirds, 1 to 2° northwest.

Wheat, oats, plagued by cold, dry weather continues slow growth and furnish below normal gra-

zing. Greenbug decreased, but control measures still necessary parts Low Plains. Harvest of cotton rapidly nearing completion. Seedbed preparation well along in southern half State. Wheat poor growth, furnishing short grazing throughout. Cold, dry weather and insects reduced growth rates most areas, some stands dying from moisture stress. Cotton harvest rapidly nearing completion on High Plains and making excellent progress on Low Plains, Edwards Plateau and Trans-Pecos. Gins catching up with backlogs and ginning ricks and modules on High Plains. Major crops percent harvested: Cotton 1975 91, 1974 85, average 80.

Lower Rio Grande Valley: Green peppers moving to market. Cabbage, carrots making excellent growth. Onions continue to make good progress. Lettuce cutting continues. San Antonio-Winter Garden: Cabbage, carrot harvest remains active. Spinach continues to make good growth, harvest of

early fields underway. Onions continue to make good progress. Coastal Bend: Spinach growth being held back by excessive weed growth. Cabbage making good growth. High Plains: Late carrot harvest virtually complete. Pecan harvest nearing completion south central and central. Most harvest activity Cross-Timbers and along Red River in north. Citrus harvest remains active.

Ranges, pastures continue decline because of cold, dry weather. Livestock holding up fairly well. Some loss of weight most localities, but feeding helps maintain condition. Dry pastures becoming fire hazards most areas. Wheat, oats furnishing moderate grazing on Low Plains parts east, but poor grazing elsewhere. Internal, external parasites heavy southeast.

UTAH: Significant precipitation, amounts ranging from 0.85 north central to 2.25 in. northern mountains, over most of State early week. Total amounts averaged 0.50 above normal for month, but below normal for season. Temperatures below normal, ranging from 11° below in Uintah Basin to 1° southwest.

Farmers and ranchers have fairly easy access to pastures and ranges in lower valleys as snow depth not heavy. Processing of turkey crop is drawing to a close. Marketing of potatoes, dry onions, and apples from storage continues. Sugarbeet processing at Garland also in progress.

VIRGINIA: Average temperature near normal. Mild early, unusually cold late. Extremes: 73 and 3°. Precipitation light averaging less 0.10 in.

Fieldwork: 4.5 days suitable. Topsoil moisture 86% adequate, 9% surplus, 3% short. Pastures, winter grazing crops good condition. Moving livestock to winter feeding areas. Winter calving, lambing progressing. Few fields corn, soybeans, milo to be harvested. Late seeding wheat, cover crops winding up. Some plowing, liming, fertilizing where soils permitted. Preparation, marketing burley, fire-cured, sun-cured tobacco. Catching up farm management activities, updating record books, ordering next year's supplies.

WASHINGTON: West: Temperatures and precipitation subnormal. Temperatures averaged 6° below normal.

Christmas tree harvest completed. Pruning and tying caneberries. Earlier flooded areas evaluating livestock losses. Hay short in hardest hit areas, but some being shipped in.

East: Precipitation below normal. Readings averaged 5° subnormal.

Pruning fruit trees and grapes, removing trees. Some aerial spraying wheat fields. Cattle doing well on winter pastures or stubble plus some supplemental feed.

WEST VIRGINIA: Temperatures above normal. Precipitation below normal northeast and south, normal elsewhere. Snow late week. Soil moisture adequate to short.

Fall sown grains good condition. Most cattle good condition, early calves beginning to arrive.

WISCONSIN: Light snow 15th, heavier snowfall of 3 to 6 in. north central 19th, 1 in. southeast. Temperatures very cold midweek, with below zero readings 18th most of State. Moderating temperatures in mid-30's south on 19th and through weekend.

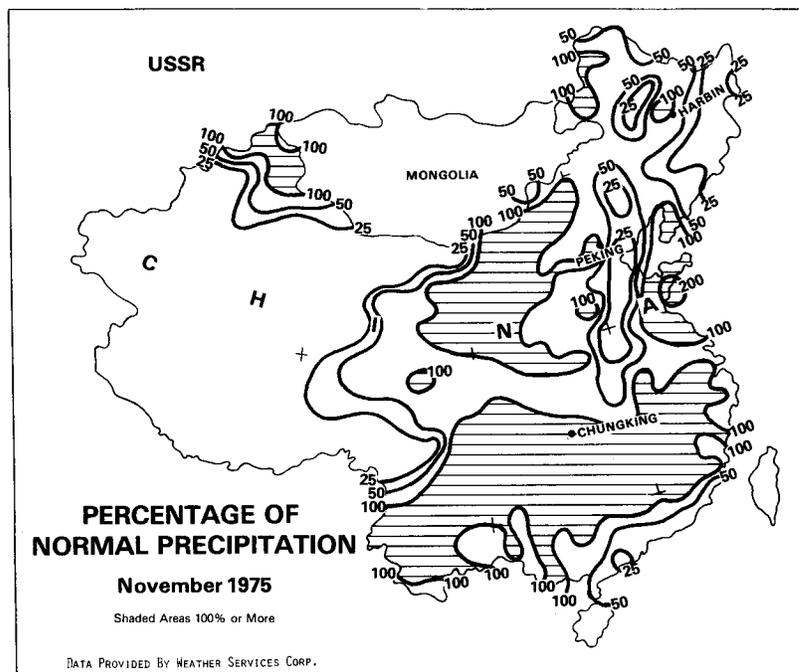
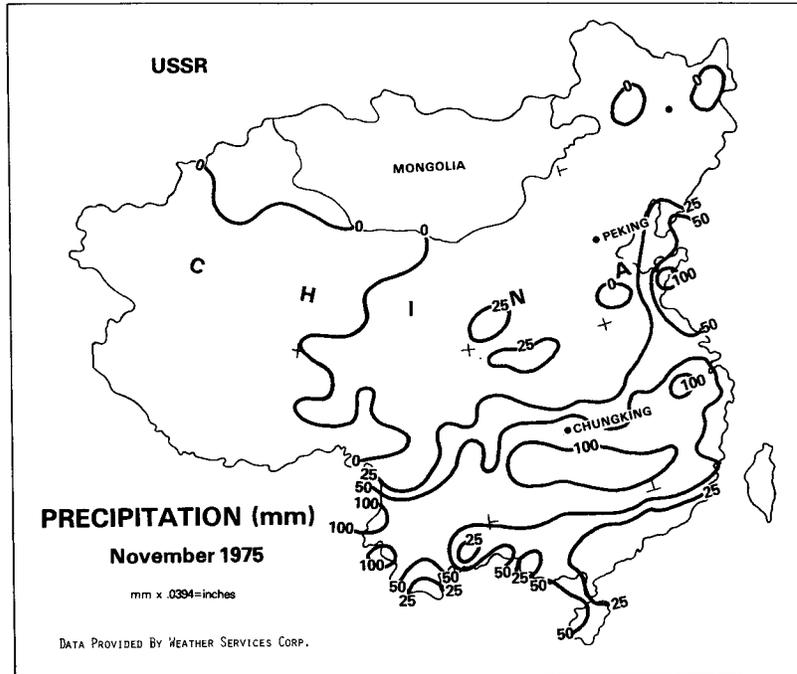
Snow depths as of 19th averaged under 2 in. with

only a trace south half. Frost depths increased with cold temperatures and lack of snow cover. Average frost depth as of 19th exceeded 5 in.

WYOMING: Temperatures averaged 7° below normal, lowest north central and southeast. Precipitation on 2 days, but most areas above average. Most precipitation eastern and central, average about 0.28 in.

Snow beneficial to winter wheat. Increased supplemental feeding of livestock with cold weather and snow cover. Hay supplies generally adequate. Livestock in good condition care and feeding livestock, machinery repair major activity.

China Precipitation



WINTER WHEAT PROSPECTS

Although farmers seeded more acreage to winter wheat this past fall than in any year since 1949, current production prospects point toward a crop 9% smaller than last season.

The U.S. Department of Agriculture's Crop Reporting Board, in its December 22d summary of winter wheat and rye seedings, estimated that over 57 million wheat acres were planted in the fall, a gain of 2% from a year earlier and second only to the record 61 million acres used in 1949. The just completed planting was the sixth consecutive yearly increase and amounted to 1.1 million acres more than in 1975.

However, winter wheat production prospects were less than optimistic over major growing areas of the Great Plains. This situation led to the expectation that the winter wheat harvest next summer may bring in only about 1.5 billion bushels, based on early December conditions. Production at this level would represent a decline of 156 million bushels from the record 1.65 billion bushels taken from fields in 1975, but still 8% more than the crop of 2 years ago.

The average yield, nationally, was put at 26 bushels per seeded acre, 3.3 bushels short of the 1975 effort. December 1 conditions indicate 87% of the seeded acreage will be harvested for grain; a year ago it was 92%.

In the past decade, changes from the December production forecast to the final estimate have averaged 57 million bushels, ranging from 2 million to 123 million bushels. In those 10 years, the December report was above the final estimate five

times by an average of 65 million and below five times by an average of 50 million bushels.

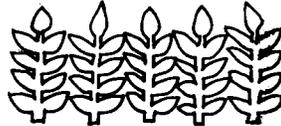
Nationally, condition of the current crop ranged from poor to excellent, depending largely on the availability of moisture supplies. Inadequate moisture during November in much of the western Great Plains caused uneven and spotty wheat stands, while in most areas of the eastern Corn Belt and Pacific Northwest the crop was thriving. Elsewhere, conditions for the crop were generally bright. Seeding was finished about on time and there was good germination and top growth. Next spring will better indicate the full impact on the Great Plains' crop.

Rye Acreage Off

The fewest acres on record were seeded to rye this fall for harvest in 1976. The Crop Reporting Board estimated that producers are using just over 3 million acres, 4% below the 1975 total and down 5% from 1974.

Most of the cutback came in the major rye States of Georgia, Texas, and Oklahoma. The Texas crop was off 28%, Georgia 15%, and Oklahoma 14%. There were acreage gains of 36% in South Dakota and 30% in Minnesota. Other States held about steady.

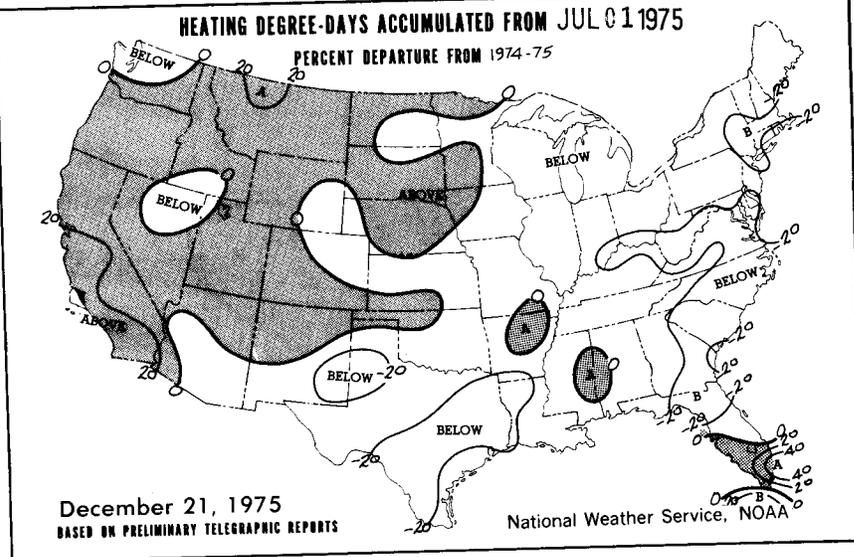
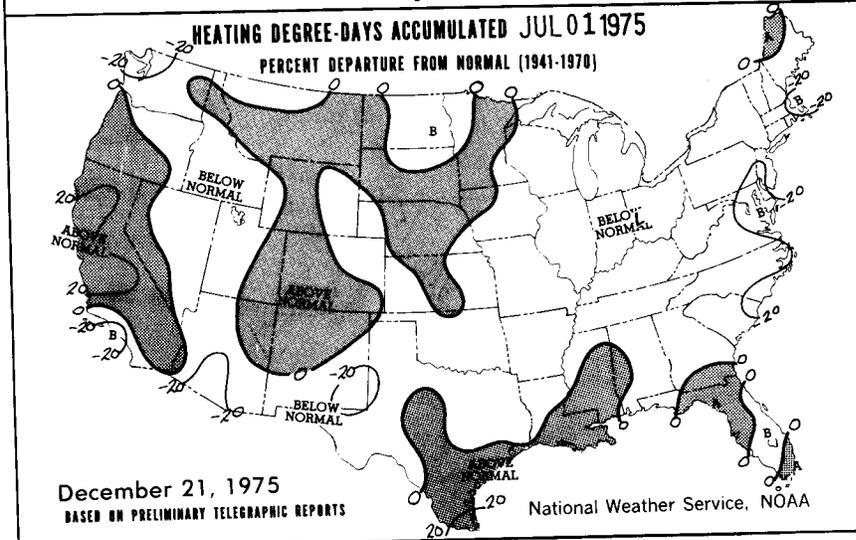
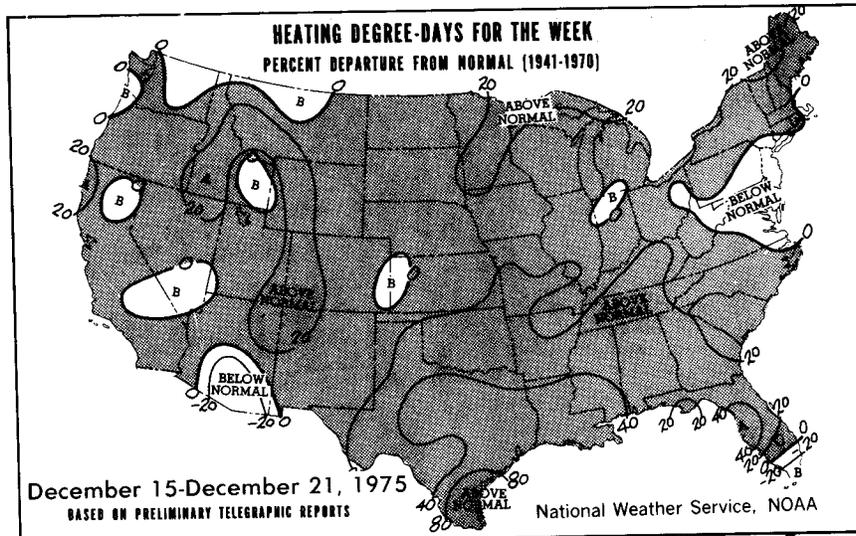
Short moisture conditions in the Great Plains also affected rye seeding. The crop encountered poor germination and growth for early seedings. Late fall rain and snow prompted some recovery. Condition of the crop December 1 in the remainder of the country was mostly good.



MAJOR WINTER WHEAT STATES

State	Acreage Seeded ^{1/}			Production	
	Crop of	Crop of	1976 as %	Crop of	Crop of
	1975	1976	1975	1975	1976 ^{2/}
	1,000 acres		Percent	1,000 bushels	
Calif.	1,060	1,060	100	61,132	49,820
Colo.	2,750	2,830	103	50,400	48,110
Idaho	990	1,010	102	36,080	39,390
Ill.	1,790	1,900	106	67,470	72,200
Ind.	1,560	1,550	99	64,500	65,100
Kans.	12,800	13,100	102	350,900	327,500
Mich.	1,030	1,000	97	38,760	37,000
Mo.	1,660	1,900	114	48,510	57,000
Mont.	3,100	3,200	103	105,000	92,800
Nebr.	3,200	3,400	106	98,240	95,200
Ohio	1,820	1,750	96	74,340	75,250
Okla.	7,400	7,550	102	160,800	113,250
Oreg.	1,150	1,200	104	52,170	52,800
S. Dak.	950	1,230	129	23,100	31,980
Texas	6,500	6,300	97	131,100	75,600
Wash.	2,850	2,940	103	134,260	123,480
U.S.	56,163	57,227	102	1,651,209	1,495,859

^{1/} Total area seeded for all purposes. ^{2/} Indicated December 1, 1975.





FIRST CLASS MAIL

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Heating Degree Days (Base 65°) For Week Ending Dec. 21, 1975

States and Stations	Weekly			Seasonal † Accumulation			States and Stations	Weekly			Seasonal † Accumulation			States and Stations	Weekly			Seasonal † Accumulation		
	TOTAL	Departure*	Departure* From 1974-75	TOTAL	Departure*	Departure* From 1974-75		TOTAL	Departure*	Departure* From 1974-75	TOTAL	Departure*	Departure* From 1974-75		TOTAL	Departure*	Departure* From 1974-75			
ALA. Birmingham . . .	188	46	899	-39	-123		Portland . . .	332	49	2248	-115	-49	Tulsa . . .	235	-54	1106	-21	-64		
Mobile . . .	124	34	479	-18	-104		MD. Baltimore . . .	201	-13	1149	-298	-231	OREG. Astoria . . .	151	-5	1900	-2	253		
Montgomery . . .	160	41	722	-11	-110		MASS. Boston . . .	231	-1	1292	-333	-400	Burns . . .	287	24	2512	4	209		
ARIZ. Flagstaff . . .	274	25	2412	-105	-117		MICH. Alpena . . .	341	43	2508	-239	-215	Medford . . .	210	16	1720	33	273		
Phoenix . . .	69	-22	339	-108	-52		Detroit . . .	283	21	1786	-202	-401	Pendleton . . .	226	20	1584	-219	163		
Tucson . . .	71	-21	423	-69	-176		Flint . . .	282	8	1815	-391	-419	Portland . . .	176	5	1501	-156	253		
Winslow . . .	270	47	1743	181	137		Grand Rapids . . .	296	27	1999	-112	-444	Salem . . .	198	28	1736	67	309		
Yuma . . .	77	11	285	1	47		Houghton Lake . . .	342	35	2501	-218	-217	PA. Allentown . . .	241	-7	1513	299	-334		
ARK. Fort Smith . . .	235	65	1100	53	86		Lansing . . .	302	31	2029	-132	-320	Erie . . .	269	12	1833	-266	-350		
Little Rock . . .	204	35	1017	45	6		Marquette . . .	345	49	2522	-124	-88	Harrisburg . . .	222	-12	1390	-248	-335		
CALIF. Bakersfield . . .	121	-3	732	37	111		Muskegon . . .	280	18	1905	-221	-325	Philadelphia . . .	207	-8	1113	-342	-268		
Eureka . . .	152	35	2014	180	251		S. Ste. Marie . . .	404	83	2868	-104	-239	Pittsburgh . . .	255	7	1753	-162	-81		
Fresno . . .	159	20	1054	230	258		St. Cloud . . .	449	87	3332	105	86	Scranton . . .	235	-3	1630	-364	-317		
Los Angeles . . .	67	2	330	-139	63		MN. Duluth . . .	449	79	3605	50	168	R.I. Providence . . .	251	9	1582	-202	-262		
Red Bluff . . .	125	-9	963	166	64		Internat Falls . . .	481	79	3650	50	168	S.C. Charleston . . .	116	3	547	-115	-251		
San Diego . . .	70	10	332	37	84		Minneapolis . . .	385	51	2410	-261	-167	Columbia . . .	151	12	726	-116	-229		
San Francisco . . .	127	17	1195	216	205		Rochester . . .	369	40	2400	-232	-259	Greenville . . .	384	63	2555	38	73		
Stockton . . .	160	21	984	141	132		MSS. Jackson . . .	169	52	731	12	-72	S. DAK. Aberdeen . . .	386	41	2590	-194	13		
COLO. Denver . . .	244	15	1937	-23	-110		Meridian . . .	171	47	854	62	49	Huron . . .	357	30	2605	28	110		
Grand Junction . . .	326	72	2029	166	229		MO. Columbia . . .	268	37	1519	-54	-255	Rapid City . . .	309	36	2403	35	143		
Pueblo . . .	247	20	1804	34	82		St. Louis . . .	283	48	1547	-30	-167	St. Paul . . .	344	63	2555	38	73		
CONN. Bridgeport . . .	222	-5	1250	-252	-289		Springfield . . .	256	49	1429	-14	-155	TENN. Chattanooga . . .	198	30	1122	-17	-101		
Hartford . . .	271	6	1626	-332	-472		MONT. Billings . . .	313	43	2458	70	178	Knoxville . . .	300	40	886	-137	-101		
DEL. Wilmington . . .	212	-7	1220	-259	-298		Great Falls . . .	379	39	3011	77	406	Memphis . . .	200	40	886	-137	-101		
D.C. Washington . . .	179	-21	927	-347	-262		Helena . . .	372	77	2983	130	285	Nashville . . .	216	40	1052	-137	-195		
FLA. Apalachicola . . .	86	11	389	4	11		Kalispell . . .	332	41	2946	-183	179	TEX. Abilene . . .	198	64	801	3	164		
Daytona Beach . . .	63	14	218	21	39		Killeen City . . .	339	54	3698	99	312	Amarillo . . .	226	38	1260	-66	-198		
Ft. Myers . . .	33	5	98	18	13		Missoula . . .	363	79	2912	49	382	Austin . . .	133	40	444	-53	-167		
Jacksonville . . .	93	18	394	7	114		NEBR. Grand Island . . .	307	36	2150	107	75	Corpus Christi . . .	80	45	164	37	-34		
Key West . . .	1	1	3	3	1		Lincoln . . .	304	35	1915	-38	74	Del Rio . . .	115	23	397	73	-139		
Lakeland . . .	60	25	179	9	5		Norfolk . . .	334	43	2279	62	132	El Paso . . .	161	14	851	-62	-191		
Miami . . .	9	-5	52	3	18		Omaha . . .	304	40	1788	-86	-304	Fort Worth . . .	178	55	586	-100	-133		
Orlando . . .	52	12	169	4	28		Valentine . . .	329	40	2523	141	221	Galveston . . .	108	47	303	26	26		
Tallahassee . . .	111	23	518	35	167		Las Vegas . . .	283	8	2630	-36	96	Houston . . .	124	46	435	47	-46		
Tampa . . .	62	20	189	9	15		Reno . . .	269	41	2143	48	111	Lubbock . . .	208	39	1006	-131	-265		
W. Palm Beach . . .	21	1	73	3	2		Winneucca . . .	269	23	2068	-237	-136	Midland . . .	184	47	783	-39	-79		
GA. Atlanta . . .	189	35	896	94	-174		N.H. Concord . . .	319	29	2474	120	-102	Beaumont . . .	128	49	437	1	-143		
Augusta . . .	141	8	687	-138	-249		N.J. Atlantic City . . .	228	-10	3191	-270	-274	San Angelo . . .	180	60	713	7	56		
Macon . . .	146	26	677	-47	-126		Trenton . . .	208	-10	1443	31	-108	San Antonio . . .	120	32	640	13	-143		
Savannah . . .	116	10	530	-81	-113		N.MEX. Albuquerque . . .	230	24	1540	109	37	Victoria . . .	116	49	346	30	-35		
IDAHO. Boise . . .	308	74	1956	-16	218		Roswell . . .	205	21	1025	-257	-286	Waco . . .	153	43	515	-77	-194		
Lewislaton . . .	227	14	1806	-94	213		N.Y. Albany . . .	301	19	1877	-289	-530	Wichita Falls . . .	192	42	797	81	-151		
Pocatello . . .	257	-13	2322	60	21		Binghamton . . .	298	13	2070	-229	-406	UTAH. Salt Lake C . . .	269	21	1875	-124	247		
ILL. Cairo . . .	223	37	1079	-115	-186		Buffalo . . .	295	28	1852	-256	-259	VT. Burlington . . .	364	58	2253	-204	-230		
Chicago . . .	273	16	1636	-223	-296		New York . . .	206	-7	1158	-219	-282	VA. Lynchburg . . .	210	15	1212	-149	-291		
Moline . . .	308	28	1763	-220	-286		Rochester . . .	289	25	1833	-205	-373	Norfolk . . .	158	-7	802	-210	-206		
Peoria . . .	297	32	1787	-121	-219		Syracuse . . .	271	36	1889	-115	-340	Richmond . . .	180	-8	981	-250	-420		
Rockford . . .	312	25	2062	-91	-117		N.C. Asheville . . .	215	26	1335	-85	-145	Roanoke . . .	205	6	1159	-223	-377		
Springfield . . .	275	27	1539	-191	-262		Hatteras . . .	128	2	559	-140	-220	WASH. Quillayute . . .	183	11	1667	-540	-311		
IND. Evansville . . .	252	39	1333	-144	-222		Charlotte . . .	143	0	762	70	37	Seattle-Tacoma . . .	197	24	1520	-323	-53		
Fort Wayne . . .	268	6	1738	-211	-333		Cincinnati . . .	236	11	1399	-189	-397	Spokane . . .	180	14	2446	28	233		
Indianapolis . . .	275	31	1617	-145	-268		Raleigh . . .	177	4	940	-196	-371	Walla Walla . . .	234	36	1528	-128	132		
South Bend . . .	264	1	1625	-381	-237		Wilmington . . .	130	3	542	-179	-302	Yakima . . .	234	-4	2047	-102	-187		
IOWA. Burlington . . .	305	37	1735	-174	-296		N.Dak. Bismarck . . .	367	16	2910	41	-202	WYO. Casper . . .	239	7	1536	-350	-483		
Des Moines . . .	313	27	1770	-111	-266		Fargo . . .	402	38	2917	-65	44	Charleston . . .	217	10	1289	-200	-448		
Pocahontas . . .	249	1	1860	-145	-185		Williston . . .	588	36	3181	139	280	Huntington . . .	219	11	1277	-210	-342		
Dubuque . . .	330	29	2188	-129	-179		OHIO. Akron-Canton . . .	254	-2	1679	-267	-280	Farkersburg . . .	228	13	1450	-72	-219		
Sioux City . . .	341	45	2221	20	70		Cleveland . . .	264	13	1726	-163	-250	WIS. Green Bay . . .	373	58	2517	61	-189		
KANS. Concordia . . .	272	23	1663	-96	-34		Columbus . . .	264	15	1576	-249	-213	Lacrosse . . .	348	38	2269	-65	82		
Dodge City . . .	243	17	1533	-65	-6		Cincinnati . . .	236	11	1399	-189	-397	Madison . . .	325	17	2180	-303	-181		
Goodland . . .	249	1	1860	-145	-185		Dayton . . .	260	15	1531	-237	-335	Milwaukee . . .	301	9	1922	-392	-318		
Topeka . . .	276	38	1547	-100	-109		Toledo . . .	281	16	1929	-81	-248	WYO. Casper . . .	239	7	1536	-350	-483		
Wichita . . .	256	37	1462	-5	4		Youngstown . . .	272	12	1842	-172	-296	Cheyenne . . .	272	20	2396	34	84		
KY. Lexington . . .	260	49	1457	42	-213		OKLA. Okla. City . . .	228	49	1057	-80	-85	Lander . . .	381	84	2706	-28	38		
Louisville . . .	235	24																		