

Weekly Weather & Crop Bulletin

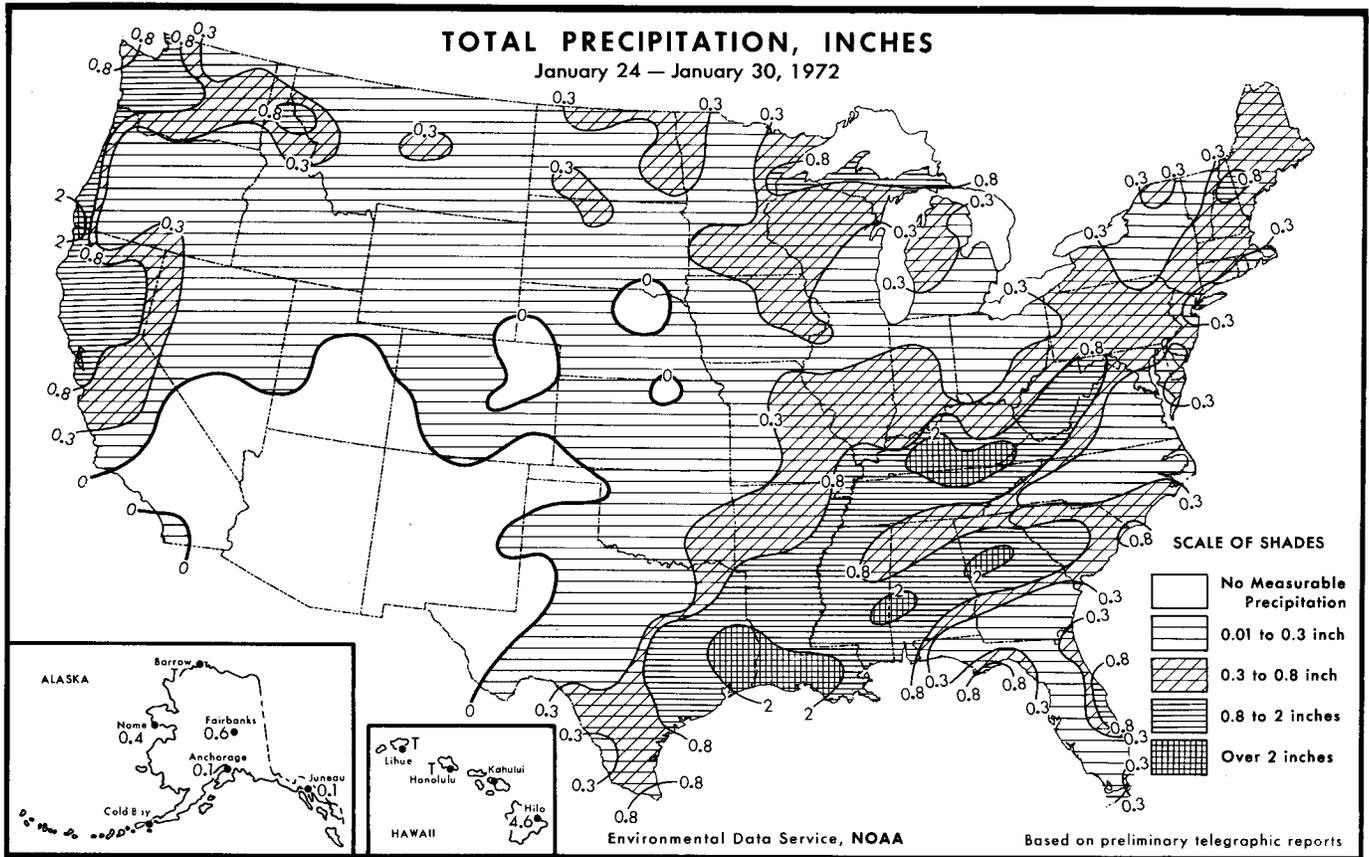
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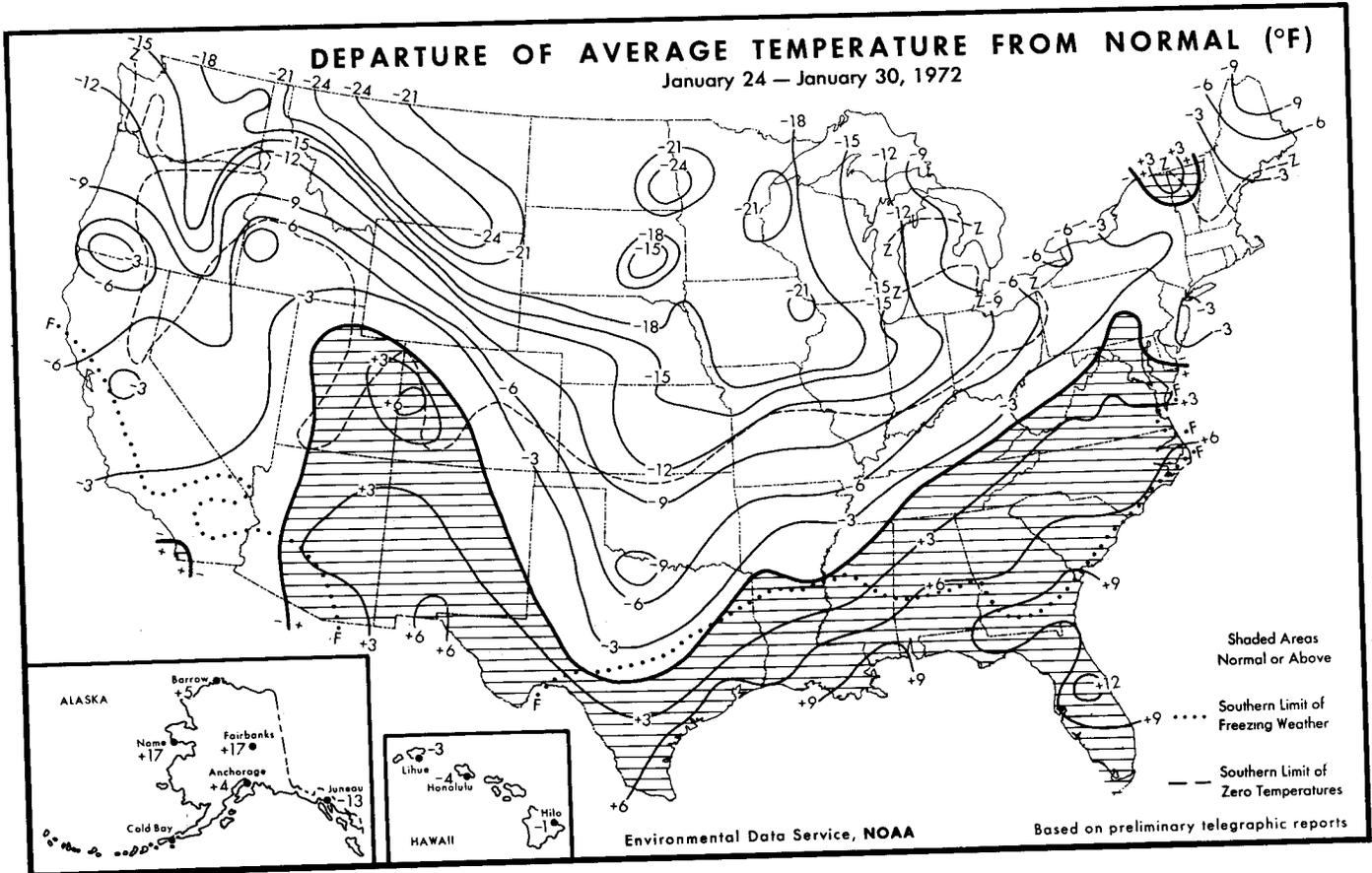
NATIONAL WEATHER SUMMARY

HIGHLIGHTS: Arctic cold spread far southward during the week. Heavy local snows occurred in Oswego County, New York. The heaviest rains occurred in Kentucky and over the lower Mississippi River Valley.

PRECIPITATION: A large winter storm swung out of the central Rocky Mountains across the Great Plains and Great Lakes to southeastern Canada early in the week. It brought stormy weather to much of the Nation. Heavy snow fell from the Northern Rocky Mountains to the nearby Great Plains accompanied by gale winds. South of the snow belt, freezing rain glazed roads, trees, wires, and other outdoor objects. Several inches of new snow accumulated in the North Central States. Winds at Worthington, Minn., gusted to 63 m.p.h. Monday afternoon. The strong winds picked up the fallen snow, piled it in deep drifts, and in some places, reduced

visibility to zero. Heavy rains soaked coastal sections in the Pacific Northwest and snow fell in the nearby hills and mountains. Cold air spilled over the Continental Divide and caused snow along the northern Pacific Coast. Five inches accumulated at Quillayutte, Wash., in 6 hours late Monday and 6 to 12 inches fell in the Seattle area. The deep snow snarled the traffic west of the Divide. The snow continued Tuesday and by Tuesday evening, Olympia, Wash., lay beneath 20 inches of snow and 12 to 18 inches covered Seattle. Paradise Ranger Station received 1 1/2 feet of new snow bringing the depth there to 22 feet.

Meanwhile, heavy snow was falling in the Great Lakes area. At Duluth, Minn., 11 inches of snow fell accompanied by strong winds which piled the snow in drifts up to 4 feet deep. Snow also began falling in the Northeast where strong winds



drifted the snow and cut the visibility to zero. White Plains, N.Y., clocked wind gusts which peaked at 76 m.p.h. and at Syracuse, N.Y., the gusts reached 70 m.p.h. Strong winds and snow continued Wednesday in the Northwest and, in the southwestern deserts where there was no snow, the winds filled the air with sand and dust.

Boonville, N.Y., received a foot of new snow Tuesday afternoon with severe blowing and drifting. At Mt. Desert Rock, Maine, the gusts reached 93 m.p.h. Blizzards continued over the central Great Plains and Great Lakes Wednesday and spread eastward Thursday. Freezing rain iced an area south of the snow belt with glaze in some accumulated at about 0.1 inch per hour. At midnight Thursday, the glaze was affecting a wide belt from the middle Mississippi River Valley to the Ohio River Valley and northeastward to southern New England. Very heavy snow squalls occurred locally in Oswego County, New York, Wednesday to Friday, and on Sunday. Some localities received 50 to 70 inches in the first period and 30 additional inches on Sunday. Rain fell from Alabama to Virginia.

Precipitation slackened somewhat over the Pacific Northwest over the weekend but light snow continued from the northern Rocky Mountains to New England and generous rains fell in the Deep South from eastern Texas to the Carolinas. Wide areas from southern California to New Mexico received no rain during the week.

TEMPERATURE A "heat wave" continued in Texas early in the week with afternoon temperatures mostly in the 70's and 80's. Bitter cold plunged southward behind a storm system which

moved from the central Rocky Mountains to the Great Lakes and into Canada. Tuesday afternoon, maximum temperatures ranged from 20° below zero at Devils Lake, N. Dak., to 84° at Ft. Myers and Palm Beach, Fla.

With a deep Low over southeastern Canada and a large High over western Canada bitter cold moved from Montana, the Dakotas, Minnesota, and Wisconsin southward to the central Great Plains. Most of Kansas remained below freezing Wednesday afternoon and on Thursday most of Oklahoma continued below freezing. A sharp contrast existed between northern and southern Texas Thursday when Abilene registered 29° and Austin 83°.

Cold air spilled over the Continental Divide into the Great Basin; subzero weather occurred in northeastern Oregon Thursday morning. Temperatures Wednesday ranged from 40° below zero at International Falls to 84° at Ft. Myers, Fla.

Most of the Nation continued cold over the weekend. The main exception was the eastern portion of the Gulf Coast and the Florida Peninsula. Maximums along the Gulf Sunday afternoon ranged from the 40's in Texas to the 70's and 80's in Florida. Typical afternoon temperatures Sunday were: Houston, Tex., 42°; New Orleans, La., 59°; Pensacola, Fla., 66°; Tampa, Fla., 78°.

Temperatures averaged above normal over the southern Rocky Mountains and the Rio Grande Valley, along the Gulf of Mexico and the middle and southern Atlantic coast. Most other areas averaged colder than normal. Most of the area from the northern Rocky Mountains to the Great Lakes averaged 10° to 20° or more colder than normal.

L. W. Dye

NATIONAL AGRICULTURAL SUMMARY

AGRICULTURAL HIGHLIGHTS: Livestock suffer from cold, stormy weather. * Texas cotton harvest near wrap-up stage. * Cold damaged fruits and vegetables in many regions of the Nation.

SMALL GRAINS: Cold weather limited winter wheat growth on the Great Plains. The crop is dormant from southern Oklahoma to the Canadian Border. Most fields in the Northern Plains are snow covered, but bare spots are noted in southwest and south-central South Dakota. Wind erosion is also noted in some uncovered areas of Nebraska and Colorado. The combination of wind and fluctuating temperatures have caused some damage to the Kansas crop. Ground cover and soil moisture are mostly adequate in Kansas and Oklahoma. Mild weather in southern Texas allowed earlier freeze-damaged oats to recover.

In the Southwest early-planted fields are growing nicely. Planting is approaching completion in Arizona. The situation is just the reverse in the Northwest, as here the crop is snow covered and dormant. However, strong winds uncovered some ridges in Washington, and winterkill could occur if no more snow is received.

In the Southeastern section of the Nation warmer temperatures benefitted small grain acreage that was set back by the midmonth cold snap. The condition of most grains declined from Georgia to Virginia during January.

COTTON: Texas cotton harvesting made good progress on the High Plains, but headway was slower on the Low Plains. Picking is nearing completion as 96 percent of the crop is out of the fields. One more week of good weather should enable most growers to finish. Picking is nearing the cleanup stage in Oklahoma. Most of the Southeastern States had over 1 inch of rain, but some cotton was picked. Some picking will continue as growers cleanup scattered fields.

OTHER CROPS: A few fields of corn and soybeans remain to be harvested from Louisiana to the Carolina's. Some Irish potatoes were planted in Louisiana and Baldwin County, Alabama. An increasing volume of "reds" was noted from Florida. Digging should be nearly complete in the Hastings area by mid-February. Shipments of the winter crop are moderate from California. Changing to sugar crops -- sugar beet digging continues in California while sugarcane harvesting is in full swing in Florida and increasing in Hawaii. Tobacco growers in Virginia and Maryland are preparing, treating, and seeding an occasional plant bed. Early-seeded plants are making good growth in Georgia.

Fruits and Nuts: The coldest week of the winter caused bud damage to fruit trees across the Northern half of the Nation. Orchardmen in eastern Washington heated some orchards with mechanical heaters to reduce bud damage. Pruning of fruit trees was extremely rapid in the Southeast quarter of the U. S. A relatively mild winter has favored pruning in Maryland.

Warm temperatures and only a trace of rain were favorable for citrus picking in Florida. However, soil moisture is becoming short and growers are stepping up their irrigation schedule. Citrus harvesting was also active in the Lower Valley of Texas and the Yuma, Arizona area. Picking of navel oranges continues in California's central district, but some fruit was graded out due to ice marks. Some frost damage is also showing in southern California.

Vegetables: Early morning ice delayed lettuce cutting in the Imperial Valley of California. Cabbages are also showing effects of the cold weather. Vegetable harvesting is also active in Arizona. Cantaloupe planting is active in the Yuma area. Lettuce growers in Cochise County, Arizona, and Dona Ana County, New Mexico, are busy planting. The early January freeze is taking its toll in Texas -- cabbage and spinach shipments are light; with spring onion stands reduced in the Winter Garden. All Florida vegetables (except melons) are available in variable quantities. Most crops are maturing earlier than normal.

The freezing cold damaged strawberry plants in western Washington. In Louisiana strawberries are in need of colder temperatures as plants are too advanced for so early in the season. Cole crops are making a good recovery in Alabama after being set back by the cold weather.

PASTURES AND LIVESTOCK: Cold temperatures, snow and strong winds made it an uncomfortable week for livestock over much of the Nation. The bitter cold forced livestock producers to put cattle on heavy feed rations to maintain body heat. Supplies of hay and grain are generally ample, but shortages are occurring in local areas. Getting water to livestock was a major problem as many waterpipes were frozen. Caring for new born animals was given top priority on many farms during the cold week.

Steve J. Pscodna
Agricultural Statistician

Temperature and Precipitation Data for the Week Ending Midnight, L.s.t., JANUARY 30, 1972

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	51	+ 4	1.2	0	New Orleans	65	+10	2.0	+1.1	OKLA. Okla. City	29	- 8	.1	-.2
Mobile	63	+ 9	1.3	+ .3	Shreveport	50	+ 2	1.4	+ .4	Tulsa	28	- 8	.1	-.3
Montgomery	57	+ 8	1.2	+ .3	MAINE. Caribou	0	-11	.3	-.2	OREG. Astoria	31	-10	1.4	-1.3
ALASKA. Anchorage	18	+ 4	.1	-.1	Portland	20	- 2	.6	-.4	Burns	10	-15	.3	-.1
Barrow	-13	+ 5	T	0	MD. Baltimore	36	0	.4	-.4	Medford	33	- 3	T	-.7
Fairbanks	7	+17	.6	+ .4	MASS. Boston	30	0	.4	-.5	Pendleton	16	-16	.1	-.2
Juneau	12	-13	.1	-.8	Nantucket	29	---	.1	---	Portland	27	-12	.2	-1.0
Nome	22	+17	.4	+ .2	MICH. Alpena	12	- 7	.2	-.2	Salem	30	- 9	.2	-1.2
ARIZ. Flagstaff	28	+ 1	0	-.4	Detroit	17	- 9	.2	-.3	PA. Allentown	28	- 1	.5	-.3
Phoenix	53	+ 3	0	-.2	Flint	15	- 7	.2	-.2	Erie	20	- 5	.4	-.2
Tucson	52	+ 2	0	-.2	Grand Rapids	13	-11	.4	0	Harrisburg	32	+ 1	.3	-.4
Winslow	37	+ 5	0	-.1	Houghton Lake	9	-10	.3	0	Philadelphia	32	- 1	.4	-.4
Yuma	53	- 1	0	-.1	Lansing	14	-10	.3	-.1	Pittsburgh	25	- 4	.4	-.3
ARK. Fort Smith	35	- 5	.3	-.4	Marquette	6	-13	.8	+ .3	Scranton	24	- 3	.5	0
Little Rock	40	- 1	.4	-.8	Muskegon	14	-12	.6	+ .1	R.I. Providence	27	- 2	.2	-.7
CALIF. Bakersfield	45	- 3	T	-.2	S. Ste. Marie	7	- 8	1.9	+1.5	S.C. Charleston	58	+ 7	.5	-.1
Eureka	40	- 8	1.5	0	MINN. Duluth	-13	-22	.9	+ .6	Columbia	55	+ 7	1.5	+ .8
Fresno	43	- 4	.3	-.2	Internat'l Falls	-16	-19	.3	+ .1	Greenville	48	+ 3	.3	-.6
Los Angeles	55	- 1	0	-.6	Minneapolis	8	-21	.4	+ .3	S. DAK. Aberdeen	9	-20	.2	0
Red Bluff	39	- 7	1.0	0	Rochester	- 6	-19	.4	+ .2	Huron	3	-14	T	-.1
San Diego	56	+ 1	.1	-.4	St. Cloud	-10	-19	.2	+ .1	Rapid City	2	-19	.1	0
San Francisco	44	- 5	.9	-.1	MISS. Jackson	52	+ 3	1.8	+ .6	Sioux Falls	3	-17	.1	0
Stockton	43	- 3	.5	-.1	Meridian	53	+ 4	2.6	+1.5	TENN. Chattanooga	47	+ 4	.6	-.6
COLO. Denver	25	- 3	T	-.2	MO. Columbia	20	-11	.4	0	Knoxville	45	+ 3	1.2	+ .1
Grand Junction	34	+ 7	T	-.2	Kansas City	17	-15	.2	-.1	Memphis	39	- 3	1.1	-.3
Pueblo	24	- 7	T	-.1	St. Louis	22	-10	.4	0	Nashville	40	0	1.5	+ .2
CONN. Bridgeport	30	0	.2	-.7	Springfield	27	- 7	.2	-.2	TEX. Abilene	40	- 5	T	-.2
Hartford	26	- 1	.6	-.3	MONT. Billings	- 3	-25	T	-.1	Amarillo	34	- 3	.1	-.1
D.C. Washington	38	+ 1	.3	-.4	Glasgow	-10	-18	.1	-.1	Austin	51	0	1.1	+ .6
FLA. Apalachicola	63	+ 7	1.0	+ .3	Great Falls	- 3	-24	.2	+ .1	Beaumont	60	+ 6	2.9	+2.0
Ft. Myers	73	+ 9	T	-.4	Havre	- 9	-21	.2	+ .1	Brownsville	70	+ 8	1.0	+ .7
Jacksonville	65	+ 8	.7	+ .1	Helena	- 6	-24	.3	+ .2	Corpus Christi	65	+ 7	.8	+ .4
Key West	77	+ 7	T	-.3	Kalispell	- 4	-24	.2	-.1	Dallas	42	- 4	.3	-.2
Lakeland	71	+ 8	T	-.3	Miles City	- 6	-22	.3	+ .2	Del Rio	58	+ 5	.4	+ .2
Miami	74	+ 7	.5	+ .1	Missoula	5	-14	.4	+ .2	El Paso	51	+ 7	0	-.1
Orlando	73	+12	.1	-.3	NEBR. Grand Island	8	-14	T	-.1	Fort Worth	42	- 4	.2	-.3
Tallahassee	65	+11	.6	-.2	Lincoln	10	-15	.1	-.1	Galveston	62	+ 7	1.3	+ .5
Tampa	70	+ 9	.1	-.4	Norfolk	1	-18	T	-.2	Houston	59	+ 7	1.9	+1.1
GA. Atlanta	50	+ 5	2.2	+1.1	North Platte	14	-10	T	-.1	Lubbock	39	- 1	T	-.1
Augusta	55	+ 7	1.3	+ .6	Omaha	4	-17	.1	-.1	Midland	45	0	T	-.2
Macon	56	+ 6	1.0	+ .2	Valentine	- 1	-21	T	-.1	San Angelo	45	- 3	.1	-.1
Savannah	62	+10	.3	-.3	NEV. Ely	20	- 3	.2	0	San Angelo	54	+ 2	.8	+ .4
HAWAII. Hilo	70	- 1	4.6	+2.3	Las Vegas	42	- 2	0	-.2	San Antonio	60	+ 4	1.5	+1.1
Honolulu	68	- 4	T	-1.0	Reno	27	- 4	.4	+ .2	Victoria	45	- 4	.9	+ .4
Kahului	70	- 2	.3	-.8	Winnemucca	21	- 7	T	-.2	Waco	45	- 4	.9	+ .4
Lihue	68	- 3	T	-1.4	N. H. Concord	20	- 2	.6	-.1	Wichita Falls	34	-10	.1	-.2
IDAHO. Boise	26	- 3	.1	-.3	N. J. Atlantic City	31	- 4	.4	-.4	UTAH. Blanding	30	+ 2	T	-.3
Lewiston	20	-11	.1	-.2	Trenton	32	- 1	.3	-.5	Salt Lake City	29	+ 2	.3	0
Pocatello	19	- 4	.1	-.2	N. MEX. Albuquerque	39	+ 3	0	-.1	VT. Burlington	20	+ 4	.2	-.2
ILL. Cairo	31	- 7	1.7	+ .6	Roswell	41	+ 2	T	-.1	VA. Lynchburg	41	+ 3	.3	-.4
Chicago	11	-15	.2	-.2	N. Y. Albany	20	- 3	.3	-.3	Norfolk	47	+ 5	.2	-.6
Moline	3	-19	.4	0	Binghamton	19	- 5	.3	-.2	Richmond	42	+ 3	.1	-.7
Peoria	7	-19	.2	-.2	Buffalo	18	- 6	.4	-.2	Roanoke	43	+ 5	.5	-.2
Rockford	3	-19	.3	-.1	New York	31	- 3	.3	-.5	WASH. Colville	7	-17	.3	-.1
Springfield	14	-14	.3	-.1	Rochester	21	- 4	.3	-.3	Omak	4	-18	.2	-.1
IND. Evansville	27	- 7	.7	-.3	Syracuse	22	- 2	.2	-.5	Quillayute	25	-14	.8	-2.6
Fort Wayne	15	-12	.2	-.4	N. C. Asheville	44	+ 4	.1	-.6	Seattle-Tacoma	25	-14	1.0	-.3
Indianapolis	18	-12	.4	-.3	Charlotte	47	+ 4	.3	-.5	Spokane	6	-19	.6	+ .1
South Bend	14	-12	.3	-.2	Greensboro	45	+ 5	.1	-.7	Walla Walla	---	---	---	---
IOWA. Burlington	5	-19	.2	-.2	Hatteras	54	+ 7	.3	-.5	Yakima	13	-15	.5	+ .2
Des Moines	0	-20	.1	-.2	Raleigh	46	+ 4	T	-.8	W. VA. Beckley	36	+ 2	1.0	+ .1
Dubuque	2	-21	.3	-.1	Wilmington	54	+ 6	.5	-.1	Charleston	36	- 1	.9	-.1
Sioux City	3	-16	T	-.2	N. DAK. Bismarck	-11	-20	.3	+ .2	Huntington	33	- 4	.7	-.2
KANS. Concordia	13	-15	T	-.2	Fargo	-19	-25	.6	+ .5	Parkersburg	32	- 3	.5	-.3
Dodge City	21	-11	T	-.2	Williston	12	-19	.1	0	WIS. Green Bay	1	-15	.3	0
Goodland	20	- 8	T	-.1	OHIO. Akron-Canton	20	- 8	.2	-.4	La Crosse	2	-18	.3	0
Topeka	15	-14	.2	0	Cincinnati	25	- 6	.3	-.6	Madison	1	-16	.2	-.1
Wichita	19	-13	T	-.2	Cleveland	21	- 7	.2	-.4	Milwaukee	4	-16	.3	-.1
KY. Lexington	31	- 4	.6	-.5	Columbus	23	- 7	.2	-.6	WYO. Casper	7	-16	.1	-.1
Louisville	31	- 4	.9	-.1	Dayton	20	- 9	.1	-.7	Cheyenne	16	- 9	T	-.1
LA. Baton Rouge	61	+ 7	2.3	-1.2	Toledo	15	-11	.2	-.3	Lander	11	- 8	T	-.1
Lake Charles	59	+ 5	3.8	+2.8	Youngstown	21	- 6	.3	-.4	Sheridan	4	-24	T	-1.1
										P. R. San Juan	77	+ 2	1.1	0

* Departures are from 30-year means (1931-60). Based on preliminary reports

CONDENSED STATE SUMMARIES

These summaries provide brief descriptions of condition and activities important on a national scale. Detailed reports of crop and weather conditions during the growing season are contained in State issues of Weekly Weather and Crop Bulletins published by field offices of the Statistical Reporting Service, U.S.D.A. in cooperation with NOAA Climatologists

ALABAMA: Light showers and colder early in period becoming much warmer and partly cloudy by Thursday. Light rain all sections Friday with colder weather extreme north. Rain and much lower temperatures spread southward over all sections over weekend until clearing and much colder Sunday night. Average temperatures much above seasonal normals. Rainfall moderate to heavy. Limited fieldwork early period, but most fields still too wet to support heavy machinery. Few farmers able to resume harvest cotton, corn, and soybeans. Other activities included caring for livestock, taking soil samples, pruning fruit trees, and making plans for coming year. Soil moisture adequate to surplus and farmers getting little behind schedule due wet fields. Warm weather beneficial to small grains. Cole crops made good recovery from earlier cold weather. Planting Irish potatoes continued Baldwin County. Livestock remain fair to good. Heavy supplemental feeding continues and supplies stored feed getting short several areas.

ARIZONA: No snow at any station. Temperatures were above normal much of State but clear nights allowed minimum temperatures to fall below freezing in colder sections Salt River Valley on 5 nights and in Yuma area on 4 nights. No precipitation anywhere in State. Planting small grains nearing completion. Early planted fields up to good stands. Emergence later-planted fields satisfactory. Shredding, plowing cotton made good progress, nearing completion. Land preparation underway for 1972 crop. Planting safflower nearing completion Salt River Valley, Pima-Pinal Counties. Fall-planted sugar beets good condition. Cantaloupe planting full swing Yuma. Emergence early plantings satisfactory. Lettuce, cabbage, broccoli, carrots, and romaine harvest continued. Harvest miscellaneous vegetables active Salt River Valley. Lettuce planting underway Cochise County. Grapefruit, lemons, navel and sweet orange harvest continued Yuma. Groves generally good condition. Ranges remain fair to good providing near normal amounts feed. Stockwater adequate, limited supplemental feeding continues. Livestock remain fair to good.

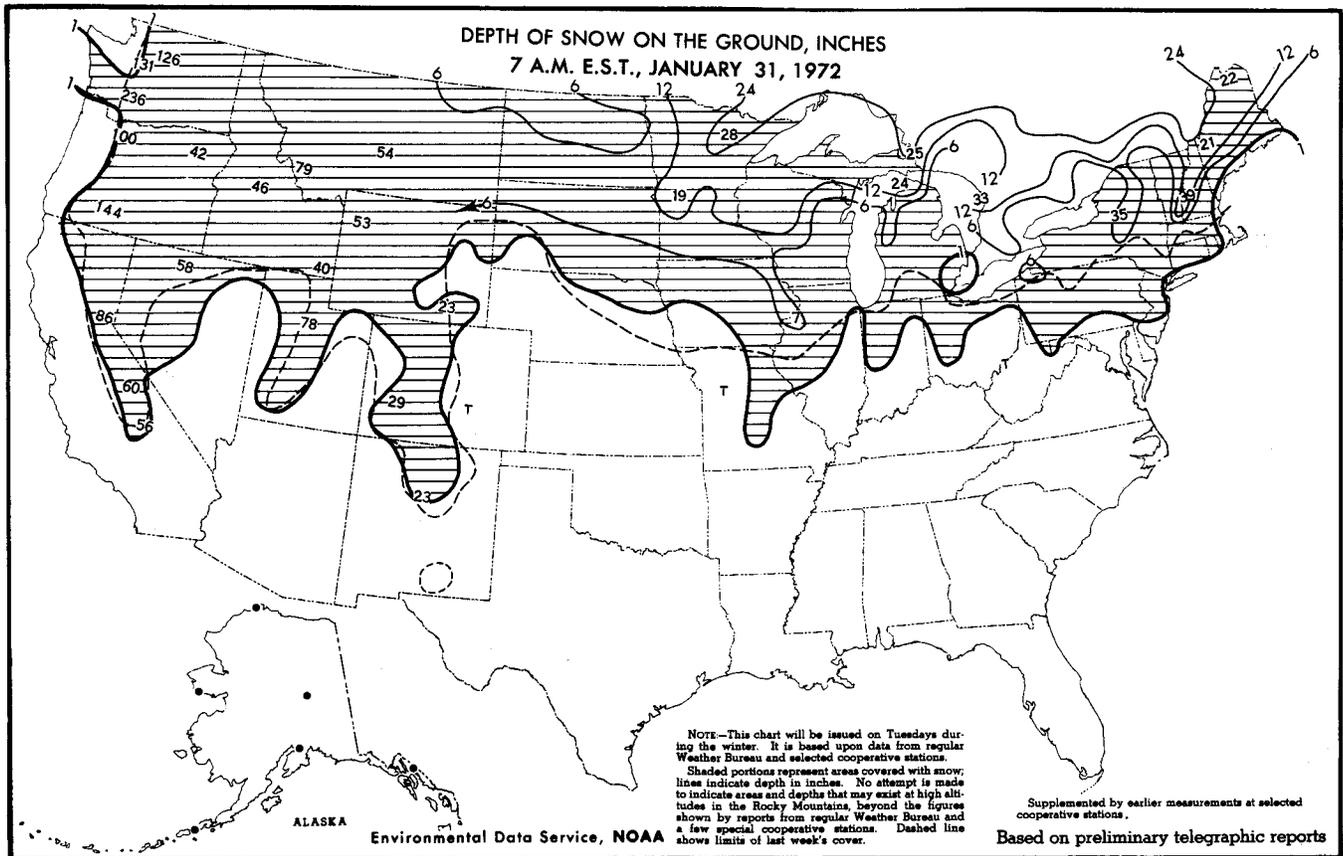
ARKANSAS: Pronounced cooling trend moved over Arkansas through week followed by milder on Sunday. Average temperatures in range 0° to 10° below normal with greatest departure in central and north-central portions. Lowest reading, 30° at Mountain Home. Highest 82° at El Dorado. Precipitation heaviest in southwest and south-central portions with Camden reporting 2.39 inches, El Dorado 1.39 inches and Texarkana 1.38 inches. Elsewhere precipitation in range from 0.25 inch to near 1.00 inch with smallest amounts west-central and northwest portions. Wet fields continue to limit fieldwork. Limited land preparation light soils. Cold temperatures slowing growth winter grains. Some grazing permitted winter grains where ground frozen. Most livestock good condition, being fed normal winter rations. Machinery repairs or farm accounts and livestock care major activities.

CALIFORNIA: Average temperatures mostly 2° to 6° below normal, greatest negative departures northern

coastal drainage, Colorado River Valley. Precipitation most days north, 4.00 inches or more central Sierra, north coast; 0.50 inch to 1.00 inch central valley. Widespread light snow down to low elevations 26th and 27th northern half. Additional planting wheat and barley; early-planted small grains fair to good condition. Warm weather needed for growth and development. Land preparation for spring planting underway. Some alfalfa fields south being pastured and cut for dehydration. Digging sugar beets continues. Winter operations continue under good weather. Some cultivation started. Harvest navel oranges central district continues. Some fruit graded out due ice marks. Southern California picking continues with some frost damage showing. Fruit sizes still below normal. Coachella frost damage to grapefruit starting to show. Rainfall beneficial northern California; southern California very dry. Cold weather slowed grass growth. Supplemental feeding maintains livestock--good condition. Milk and egg production normal. Asparagus harvest slow south. Artichoke harvest very limited. Broccoli supplies light. Cabbage active Imperial Valley, heads showing effects cold weather; Coachella Valley supplies declining. Carrot harvest active Desert Valleys. Cauliflower harvest underway Imperial Valley, limited Bay area. Southern California celery harvest active with good market. Lettuce harvest increasing Imperial Valley, delayed by morning ice. Winter potato movement moderate southern California.

COLORADO: Warm all areas early in week. Cold wave east of mountains at midweek and colder in west over weekend. Light to moderate snow central and northern mountains and northwest. Little or no precipitation other areas. Continuing periods of high winds several areas. Fall-seeded grains good to excellent. Strong winds many areas caused light to moderate soil blowing. Soil moisture supplies remain generally adequate except local areas eastern plains, Arkansas Valley and San Luis Valley. Range and pastures fair. Livestock utilizing small grain fields eastern plains. Cold temperatures hard on livestock. Supplemental feeding heavy most areas. Hay supplies short local areas. Livestock condition good, but some weight loss evident past week. Early calving continuing southern areas.

FLORIDA: Temperatures rebounded from the lows of previous week and averaged 8° above normal continuing trend of well above normal temperatures started early in December. Weekly highs were in the 80's throughout the State except portions of Panhandle and extreme north Florida. This continued hot weather makes this one of the warmest Januarys in history and follows the warmest December in 40 years. Precipitation fell as scattered showers throughout the week and in advance of the new frontal system in north and west Florida on the weekend. Precipitation averaged 0.25 to 0.75 inch in most locations except 0.50 to 1.00 inch in north and west Florida. Widespread fog during the early and middle portions of week blanketed most of State during early morning hours. Mild weather provided good growth small grains and young sugarcane. Sugarcane harvest full swing. Pastures providing ample forage. Most livestock good. Citrus condi-



tion good. Soil moisture low, more rain needed. Irrigation increasing. New growth and some bloom becoming general. All Florida grown commodities except melons available variable quantity. Mostly good quality. Red potatoes increasing volume. Melons progressing rapidly, earliest expected by mid-March. Most vegetables maturing earlier than normal. Mosaic virus spread by aphids infestation reducing yields many winter vegetables lower east coast area. Spring planting active, advancing northward. Hastings potatoes near completion by February 10. Central areas up to stand, earliest blooming.

GEORGIA: Continued unusually warm most of week. Brief cool spells early in week and again at end of period with freezing in north and central on Wednesday and Monday mornings. Lowest temperatures in the south were in high 30's and low 40's. Averages ranged from 3° above normal northwest to 10° above normal extreme south. Extremes: 79° at several places and 15° at Blairsville. Mostly sunny first half week becoming cloudy Friday with rain most areas Saturday and Sunday. Totals mostly 0.50 to 1.50 inches north and central with a few over 2.00 inches. Amounts generally less than 0.50 inch southern 1/3 State. Soil moisture mostly excessive. Cold damage from midmonth freeze became apparent small grains and winter pastures central and north. Winter grains and home gardens also suffered considerable cold kill. One or 2 days suitable for cotton picking. Tobacco plants in beds made good growth.

HAWAII: Cool and cloudy with moderate to heavy rain first half of week. Low temperatures retarding maturity. Crop progress fair to good.

Harvesting sugarcane increasing. Pineapple harvesting light. Supplies vegetables and fruit adequate despite west coast shipping tie-up. Pastures making good improvement. More rain needed usually dry areas. Cattle fair to good.

IDAHO: Temperatures above normal early in week lowered to normal or below by end. Averages for the week lowered to as much as 18° below normal north of the Salmon River. Precipitation first half of week mostly in the form of rain and much above normal, except normal or less scattered stations east. Small snow depth increases central mountains. Caring for livestock difficult with cold and snowstorms prevalent. Country roads mostly open.

ILLINOIS: Cold week. Temperatures averaged 10° below normal and ranged downward from 70's in south on Monday to 14° below 0° at Rockford on Saturday. Storms Wednesday and Thursday left up to 7 inches of snow in north and 1/4 to 1/2 inch of ice on trees and roads in the south. Precipitation exceeded 1 inch in extreme south. Partly cloudy and cold over weekend. Small grains and legumes good condition. Snow protected plants from severe cold in most areas. Livestock generally good condition. Severe cold in some areas made livestock uncomfortable. No unusual health problems for this time of year. Soil moisture adequate most areas. Main activities routine livestock chores and machinery maintenance.

INDIANA: Cold week. Temperatures averaged 12° below normal in north, 8° below normal in south. Extremely warm on 24th reaching 71° at Evansville but temperatures dropped to -6° on 29th and 31st

in central areas. Up to 3 inches of snow in central and north at midweek when ice up to 1/2 inch glazed south. Partly cloudy. Snow removal and usual chores were major farm activities. Over-wintering crops were generally protected from extreme cold by snow cover.

IOWA: A very cold and relatively dry week. Temperatures averaged near zero, about 20° sub-normal. Coldest on 28th with minima to -24° at Sanborn. Precipitation moderate eastern counties, elsewhere light. Snow cover variable from 1 inch southwest to around 8 inches in a few localities in north-central, central, and east-central districts.

KANSAS: Very cold. Weekly mean temperatures averaged 8° to 16° below normal. Mild early in week but arctic cold air surges brought much colder weather by midweek. Coldest daytime weather of season 27th with maxima 2° to 22°. Minima mostly -10° to 5° above zero 28th. Warming trend late in week pushed maxima into 40's. No significant precipitation western 2/3, generally 0.10 to 0.40 inch elsewhere. Severe temperatures caused considerable stress on livestock and materially increased supplemental feeding. Some increased losses newborn calves, pigs, and lambs. Wheat growth limited by low midweek temperatures. Light wind damage and possibly some loss from fluctuating winter temperatures. Ground cover and moisture supplies mostly adequate. Some land preparation early week and late harvesting on frozen ground late week. Other activities included fertilizing, repairing, fence building and book-keeping.

KENTUCKY: Temperatures 2° to 7° below normal. Precipitation less than 0.50 inch several locations extreme north and east, but generally 0.60 inch in north to near 3 inches in portions of south. Temperatures 20° to 26° above normal on 24th, maxima in 70's. Below normal balance, afternoon temperatures freezing or below in north 25th and 27th, and in most sections 28th through 30th. Rain on 24th. Sleet and freezing rain most of State on 27th and 28th. Damage to power lines and trees due to ice in many sections, ice remaining through 30th. In Jackson, Purchase in west power outages in counties of McCracken, Carlisle, Graves, and Marshall, news reports indicate power off in some sections 27th to 30th. Sunny first 3 days, cloudy balance. Little agricultural activity. Freezing rain and sleet caused stress to unprotected livestock. Supplemental feeding heavy, ample feed supply available all areas.

LOUISIANA: Temperatures averaged near normal north and central, 4° to 9° above normal south. Very warm first of week, briefly cooler, then warm again. Much colder air moved into State Friday but did not reach southeast until Sunday. Temperature extremes both at Shreveport, 84° January 24 and 28° January 31. Precipitation Friday through Sunday most areas. Weekly totals 1.00 to 2.00 inches north and central, 1.00 to nearly 4.00 inches south with heaviest amounts southwest and south-central. Greatest 1-day total, 2.70 inches Lake Charles Sunday morning. Fieldwork limited by excessive moisture. Some scrapping cotton and soybeans, topdressing pastures, disking light soils. Winter pastures recovering from earlier freezes, but excessive moisture and lack of nitrogen limiting growth. Strawberry plants too advanced for so early in season, cold dry weather needed. Some early Irish potatoes planted. Livestock mostly fair. Good where receiving supplemental feeding.

MARYLAND AND DELAWARE: Temperatures above normal first 2 days but normal to below normal remainder of week, averaged near normal. Extremes mostly 50's and low 60's, teens and 20's except 3° to 20° in north and west. Snow over northern half 27th to 28th totaled up to 2.5 inches in east and to 5.5 inches in west. Weekly precipitation on as many as 5 days totaled 0.50 to 1.00 inch. Farmers busy with livestock chores and preparation for next year's crop season. Open winter favored orchard pruning and related work. Some bud damage with fluctuating temperatures, but too early to assess effect. Seeding tobacco beds started.

MICHIGAN: Near normal early, unseasonably cold remainder of week with snow and lake snow. Temperature averages: 14° below normal west to 7° below normal east Upper Peninsula, 7° to 10° below normal Lower Peninsula. Precipitation: 0.50 inch to near 2.00 inches shore line areas of Lakes Superior and Michigan, generally less than 0.30 inch elsewhere.

MINNESOTA: Bitter cold week with temperatures averaging from 22° below normal in east to 16° below normal in west. Mean temperature across State averaged -8°. Extremes 23°, -40°. Generally three to six inches of snow across State of which most fell on 24th. Greatest amount near Lake Superior which averaged from 8 to 10 inches. Blizzard conditions existed on 24th across most of State blocking many roads at times.

MISSISSIPPI: One or 2 days with rain and weekly totals mostly 0.25 to 0.75 inch. Warm then cooler. Extremes: 84° Yazoo City 24th; 23° 26th and 27th several places. Over weekend: 2 or 3 days with rain totaling under 0.50 inch in far north to over 1.00 inch elsewhere and some over 2.00 inches parts of central Mississippi. Collins reported 2.26 inches Sunday morning. Temperatures turned cooler with freezing extending into northern coastal division this morning. Three days suitable for fieldwork and farmers used them for plowing, chiseling, disking, and stalk shredding. Combines and pickers moving again in few unharvested cotton and soybean fields. Pasture condition generally fair. Livestock mostly good.

MISSOURI: A strong surge of cold arctic air pushed over State early in week and it remained cold until a slight warming trend began on Saturday. Temperatures averaged from 15° below normal north, to 5° below normal southeast. Precipitation near end of week fell as snow north, sleet central, and freezing rain and rain south. Amounts averaged from 0.25 inch north, to over an inch in southeast.

MONTANA: Extremely cold week statewide with light to moderate snow. Temperatures averaged 14° to 25° below normal. Coldest Cut Bank -38° on 27th. Strong winds again caused extensive drifting of snow cover. Storm warning weekend, but temperatures remained below freezing. Winter wheat generally good condition under protective snow cover with light wind damage. Most range livestock fair to good and receiving some type supplemental feed. Cold and blowing snow increased livestock energy requirements. Hay shortages some areas. Range livestock shrinkage above normal; death losses average.

NEBRASKA: Very cold with frequent snow flurries. Subzero temperatures limited farm activity to general chores and livestock care. Frozen water supplies and hard to start motors common problems. Snow cover in northeast limited stock

field grazing. Supplemental feeding necessary many areas. Wind erosion western areas continue to be minor problem where limited ground cover. Calving, lambing and farrowing underway with relatively few reports death losses.

NEVADA: Cold week. Temperatures at all stations below normal ranging from 4° below normal in extreme south to 7° below normal in north. General light to moderate precipitation north, trace to none in south. Local snow Thursday and Friday, 3 to 7 inches. Heavy snow ground cover remains. Livestock fair to good condition with death losses about normal. Calving and lambing underway with no significant death losses due weather conditions. Feed and water supplies adequate most areas with supplemental feeding main source feed.

NEW ENGLAND: Real midwinter weather returned by Wednesday. Weekly means mostly 1° to 5° below normal. Even colder in northern Maine, with Caribou reporting -27° on 28th. Precipitation light, mostly less than 0.50 inch.

NEW JERSEY: Mild at start of week turning sharply colder Tuesday and remaining cold for remainder of week. Maximum temperatures in upper 50's Monday and early Tuesday and mostly in the 30's rest of week. A low reading of 6° at Pomona Saturday morning. Some light rain Monday and Tuesday and a general snowfall Thursday night and early Friday. Water equivalent precipitation for week averaged 0.30 inch in all divisions of State. Station totals varied from 0.10 inch at Millville to 0.40 inch at Cape May Court House. Snowfall ranged from 1 to 4 inches with heaviest in central counties.

NEW MEXICO: Traces of precipitation midweek mostly in south and east. Temperatures cooler north but continue to average above normal with 5° above normal southwest. Warm, then cooling with highest temperatures Wednesday and lowest temperatures in south on Tuesday and in north on Sunday. Moisture mostly adequate. Winter wheat excellent. Heavy pasturing. Cotton harvest completed. Planting lettuce and onions Dona Ana County. Ranges fair condition. Livestock good. Supplemental feeding continues.

NEW YORK: Passage of severe storm on 25th divided week into mild beginning and much colder latter half. Maximum mid-40's to low 50's on 24th and 25th dropping to low 20's southeast and teens elsewhere on 26th. Continuous sub-freezing temperatures through 30th. Minimums zero to 10° daily latter half of week except near -5° southern tier on 29th. Precipitation mostly light rain early week followed by light snow and snow flurries daily after 25th. Very heavy snow squalls locally in Oswego County with 50 to 70 inches from 26th through 28th and additional 30 inches on 30th. Weekly snow falls total 3 to 7 inches elsewhere Upstate and 1 to 2 inches Long Island. Winds up to 70 miles per hour in storm of 25th caused extensive property damage throughout State.

NORTH CAROLINA: Temperatures averaged above normal and remained above freezing most areas except mornings of 26th and 27th. Rain somewhere in State every day except 26th but amounts light and scattered totaling 0.10 to 1.00 inch, mostly 0.30 inch or less. Soil moisture decreased to mostly adequate. Small grains sustained undetermined freeze damage January 16 and 17. Condition decreased. Wheat,

oats, barley mostly fair; rye mostly good. Pasture condition mostly fair. Feed grains, hay and roughage generally adequate. Limited late harvest corn, soybeans, sorghum grains. Farmers busy fruit tree pruning.

NORTH DAKOTA: Coldest week of winter. Temperatures below zero from Monday night until Saturday. Extremes 29° at Bismarck and -38° at Bottineau. Temperatures averaged 14° to 22° below normal. Snowstorm Monday with strong winds, blowing snow, and low visibility. Precipitation light to 0.63 inch. Snow cover 3 to 9 inches. Cold and general snow cover increasing feed consumption all livestock. Livestock good condition, and unusual death loss. Hay supplies ample, some insects in stored grain.

OHIO: Cold relatively dry week. Minimum temperatures were generally 5° to 10° below normal. Maximum temperatures on 24th reached low 70's in southeast. For rest of week, maximum temperatures generally 5° to 10° below normal. Most of State had 1 to 3 inches snow on 27th. Fieldwork requiring frozen ground made some progress as temperatures dropped. Snow cover evident most areas. Farm activities include feeding livestock and general farm machinery and building maintenance.

OKLAHOMA: Temperatures averaged 5° to 10° below normal. Precipitation varied from trace in Panhandle to 0.70 inch southeast. Most areas received some ice or snow during week. Cotton harvest nearing cleanup stage most areas. Harvest of sorghum grain, guar, soybeans, pecans continues isolated localities. Cold weather necessitated heavier supplemental feeding. Some weight loss occurred, but most livestock fair to good condition. Range feed diminishing, but small grain pastures still furnishing adequate feed most areas. Wheat dormant, except few southern areas. Crop remains generally good condition. Soil moisture rated 87% adequate, additional moisture would be beneficial to small grains several western areas.

OREGON: Varied wintry week averaged temperatures 1° to 7° below normal. Mild wet days first of week changed sharply to cold windy days and light snow entire State last half of week. Minima -17° to -1° eastern 2/3 of State, 15° to 31° west, maxima 37° to 54°. Precipitation 5 to 7 days totaled 0.30 to 0.80 inch northeast quadrant, northern Willamette Valley; remainder of state 1.50 to 3.00 inches except 4.30 to 7.00 inches south coast and central Cascades. Outside farmwork slowed by cold inclement weather. Inside repair work and attending farm meetings main activities. Livestock feeding heavy.

PENNSYLVANIA: Coldest week since last February and first week since early December with below normal temperatures statewide. Mild early in week, becoming much colder midweek and continuing below normal through weekend. Temperatures in 40's and 50's Monday, maxima below freezing most areas by Wednesday. Statewide snowfall Thursday night and Friday gave first measurable amounts of season to southeast corner. Depths across State quite uniform with generally 2 to 4 inches. Little melting over weekend. Light precipitation, mostly rain, early in period, together with snow later in week produced total amounts of 0.25 to 0.50 inch most areas except 0.50 to 0.70 inch western mountains.

PUERTO RICO: A dry cool week. Rainfall averaged 0.41 inch or 0.33 inch below normal. The eastern interior divisions received the most rainfall with the highest weekly total of about 2.00 inches centered over the eastern mountains. The other Island divisions averaged less than 0.50 inch during the week with the south coast receiving generally little or no rain. Crop moisture conditions are near normal islandwide but more rain is needed in the south where storage is very low. Temperatures averaged 74° to 75° on the coasts and about 69° in the interior divisions with an average departure of nearly 2° below normal. Highest maximum temperature 87°. Lowest minimum temperature 48°. 1972 sugarcane harvesting well underway with generally favorable weather islandwide for cutting and transporting cane to mills. Some delays occurred north due local showers. Coffee plantations report good weather for all operations. Coffee harvesting ending eastern interior. Tobacco plantations good progress harvesting growing curing. Rain showers interior delayed some field operations. Pastures fair south where more rain needed.

SOUTH CAROLINA: Light rain at beginning of week. Amounts 0.25 to 0.50 inch except slightly greater along coast. Raining again as week ending. Temperatures averaged about 7° below normal. Extremes: 25° to 73°. Generally good week for farm activity. Excessive moisture some areas. Preparing land for spring planting major activity. Pruning, topping peach trees continues all areas. Some soybean and cotton fields remain to be harvested.

SOUTH DAKOTA: Very cold week. Weekly temperatures averaged from 14° to 20° below normal. Extremes ranged from 38° below zero near Marcus on the 28th to 40° at Philip on 30th. The maximum temperatures remained below zero 3 days in a row, 25th through 27th, most areas of State. Precipitation fell as light snow scattered through week with totals ranging from trace to about 0.25 inch. Snow cover end of week ranged from trace portions southwest to 15 inches north-central. Cold weather and some blowing snow prevailed through most of week. By the weekend, conditions moderated somewhat. Supplemental feeding livestock general over State. Condition livestock remains normal. Winter-seeded wheat and rye fields southwest and south-central areas need snow cover. Feeding and caring livestock main farm activities.

TENNESSEE: Temperatures above normal on 24th, but normal to below normal rest of week. Some daily averages decreased more than 25° beginning to end of period. Weekly averages 4° below normal west half to as much as 6° above normal in parts of east. Precipitation rain showers; amounts generally 0.50 to 1.00 inch except locally near 2.00 inches on Cumberland Plateau. Farm activity at seasonal low; with care of livestock major outside activity. Farm planning for 1972 and record keeping are other major farm activities. Small grains good condition.

TEXAS: Precipitation was general over eastern half of State throughout week. Heavy rains of 1.00 to 3.00 inches and more fell in south-central, southern, and southeast Texas Saturday. Simmons in Live Oak County caught 5.00 inches within 24 hours. Light amounts fell in southwest Texas over weekend. Temperatures were unseasonably warm first of week, but turned

much colder the latter half. Mild weather allowed freeze-damaged oats to recover southern half State. Cotton harvest High Plains good progress and nearing completion. Harvest on Low Plains progressing slower. Cotton harvested 96% this year, 100% last year. Wheat growth reduced by cold weather, but furnishing adequate grazing. Pre-plant irrigation underway lower Rio Grande Valley. Lower Valley winter vegetable harvest continues active. Moderate supplies cabbage, lettuce, light shipments carrots, broccoli, beets, spinach, greens. Winter vegetables, spring onions good progress Lower Valley. Planting spring vegetables continues with early fields up to stand and making good progress. Winter Garden moderate supplies carrots. Cabbage, spinach shipments continue relatively light due early January freeze. Spring onions making fair recovery from January freeze in Winter Garden, but stands reduced. Citrus harvest continues active Lower Valley.

UTAH: Scattered areas light to moderate snow northwest, heaviest over and near mountains. Little or no precipitation elsewhere. Temperatures averaged 2° to 16° above normal for week, but dropped well below normal northwest portion over weekend. Extreme cold still limits activity farmers and ranchers to essential operations. Early February may see start of farm flock lambing, a sign of spring. Care and feeding of cattle and sheep on winter ranges, feedlots and valley farms continue major activities. Turkey poults for 1972 flocks being placed in all producing areas. Sugar beet processing continues. Sorting, grading, and marketing potatoes, dry onions, and apples from storage continue. Potatoes moving out of storage mostly for processing.

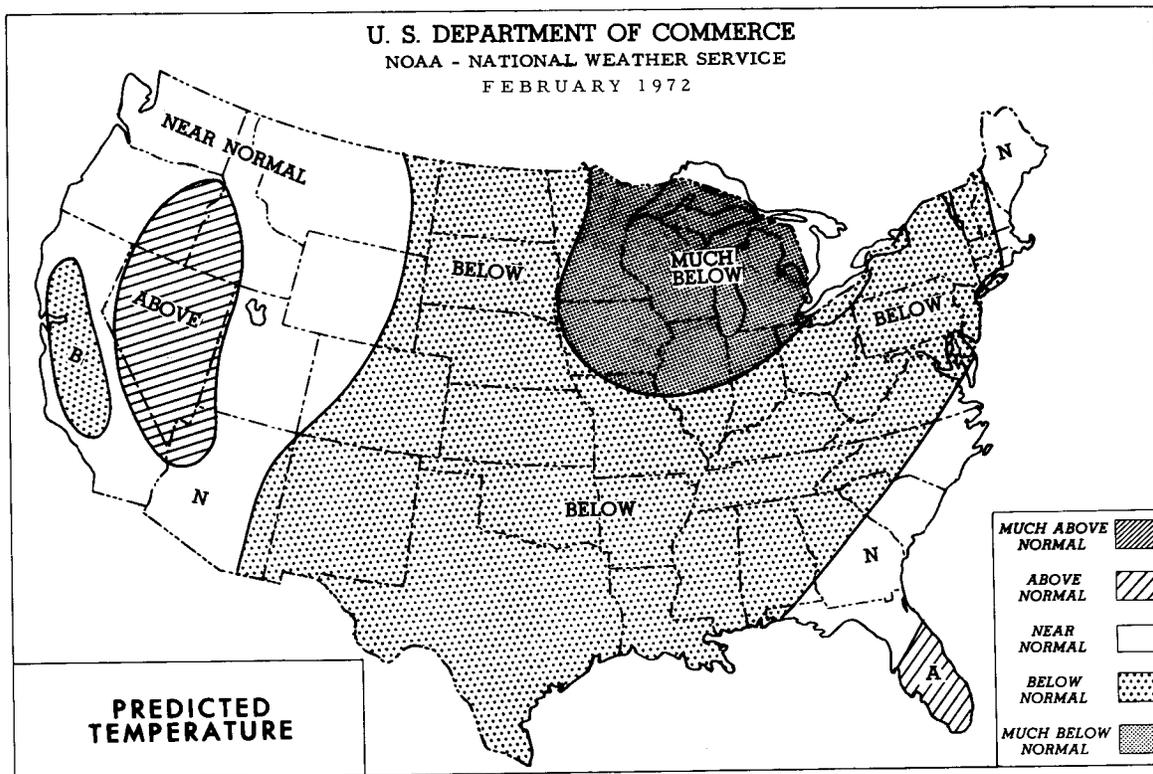
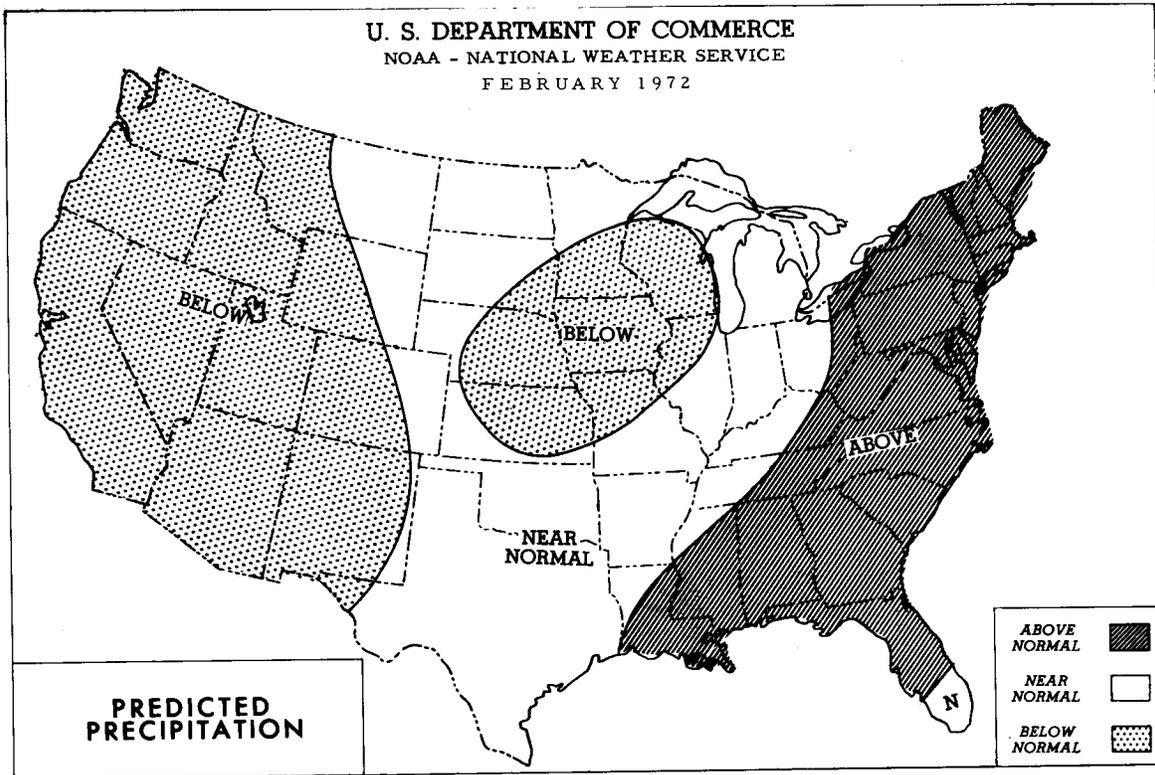
VIRGINIA: Temperatures above normal first half and below normal second half. Rain second half. Generally heavy southwest and light southeast. Calves and lambs good condition. Hay used up and grazing down seasonally. Topsoil moisture 60% adequate and 40% surplus. Plowing and disking limited. Some lime and fertilizer spread. Burning from earlier cold noted barley fields. Few corn stalks cut. Fruit tree pruning active. Tobacco growers prepared, treated, and seeded an occasional plant bed. Marketed dark-fired tobacco.

WEST VIRGINIA: An invasion of arctic air brought cold and snow early in week and the cold persisted. Up to 1 foot of snow fell in some valleys and this was further complicated by strong winds. Most farmwork at standstill. Heavy supplemental feeding livestock. Some temperature damage to strawberries and raspberries occurred western Washington. Low temperatures eastern Washington required some orchard heating and some bud damage to peaches and nectarines. Strong winds bared many wheat field ridges and cold temperatures may cause winter kill unless some additional snow cover occurs. Hay supplies adequate if winter feeding period not prolonged.

WEST VIRGINIA: Warm weather with light rain showers through January 25 with temperatures in 70's many areas. Below normal temperatures and much colder weather from midweek on. Northern counties had up to 4 inches snow January 27 and 28, followed by subfreezing temperatures. Cold weather limited most farm-

(Continued on back page)

AVERAGE MONTHLY WEATHER OUTLOOK



The above prognostic charts show the expected categories of average temperature and total precipitation for the period indicated. They were extracted from the Extended Forecast Division's publication "Average Monthly Weather Outlook" which contains additional information necessary for complete interpretation.



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Questions and comments are invited; please send to Editor in Agricultural Climatology Service Office, address above.

(WEST VIRGINIA continued from page 9)

work to general maintenance and livestock care. Livestock remains in relatively good condition due heavy supplemental feeding.

WISCONSIN: A cold and windy winter week. Temperatures remained below zero most areas most of time. Blizzard conditions across the north late Monday and early Tuesday. Many roads closed several days by 5 to 10-foot drifts. Freezing rain in south with same storm. Light snow again in most areas Thursday. Snow cover getting quite deep across northern 1/3 of State where depths average 24 to 30 inches. Only 2 to 6 inches cover ground in south. Livestock generally doing good through freezing water pipes continue to be problem during cold windy weather.

WYOMING: Windy early week, very cold from Monday on. Much of State received light to moderate snows, heavy in northwest mountains. South Pass City reported the most moisture with 2.61 inches. Temperatures averaged 2° below normal extreme southwest to 22° below along north. Temperature extremes were 54° at Torrington and -28° at Cody and Sheridan. Subzero temperatures and high winds caused stress to livestock. Feeding hay and concentrates to livestock general. Farm flock lambing has begun. Supplies feed and stockwater adequate.