

reported one-half to one inch. Light snow fell further inland.

Early Tuesday temperatures chilled towns far into the South; Orlando, Fla., dipped to a record-tying 35°.

On Wednesday, a cold front across the northern Rockies brought rain to the coastal areas and snow inland; San Francisco tallied .66 inch of rain, and the central Idaho mountains scored up to 10 inches of snow.

Low pressure over Oklahoma set off rain to the south and east and snow to the north, however, moisture was mostly light. Hail pelted Grenada, north central Mississippi, and Memphis.

A complex system of cold fronts across the Rockies made for a rainy Thursday along the West Coast, and carried snow to mountain sections. One-half to one inch dampened a large part of California; more than a foot of snow blanketed southeastern Idaho.

Freezing rain and snow spanned the Nation's northern tier from Idaho to Minnesota. Showers dotted the Great Lakes Region and portions of the Southeast.

On Friday, the cold fronts pushed eastward sending snow from western Kansas northeastward and heavy rain from Texas northeastward to Missouri and eastward to Mississippi.

The unsettled weather in the South developed into severe storms. Heavy hail and four tornadoes battered west central and central Texas. Southern Louisiana reeled under heavy thunderstorms, hail, and a tornado. Baton Rouge notched 2 inches of rain, New Orleans---3 inches, and Breaux Bridge in the south central part of the State---nearly 5 inches. One to 2 inches of rain covered McComb, and Biloxi, southern Mississippi, and Fort Riley, eastern Kansas.

Severe storms assaulted the midlands and Deep South on Saturday.

Blizzard conditions ranged from the central Plains to Minnesota. However, the worst weather stretched from Mississippi to the Florida Panhandle. Up to a half-foot of water and sometimes more fell over points in Alabama and Florida. Especially hard hit were Pensacola, Fla., and Mobile, Ala., where a deluge of rain, high winds, tornadoes, and flooding were reported.

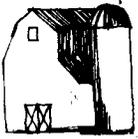
Two-inch rains fell from the middle Mississippi Valley through the Tennessee Valley. The rain, melting snow, and ice-jammed waterways created flooding in those regions.

On Sunday, rain persisted in the South and edged northward into the Carolinas.

The 24-hour totals rose to double figures at some points; Pensacola and Lake Toxaway, southwestern North Carolina, noted 10 inches, and Jocassee, in the South Carolina mountains collected 9 inches.

Meantime wintry weather bore down on the northern Plains and Midwest. In western Iowa, Pisgah and Ida Grove gathered 10 inches of snow which drifted on gusts of 50 mph. The combination of moisture, snowmelt, and ice-clogged rivers continued to flood the Midwest and Ohio Valley. The South's persistent heavy rains and saturated soils also forced overflow.

In the Pacific Northwest, up to three-quarters inch of rain fell. Warming temperatures and rain threatened the mountains of eastern Washington, where unstable snowpack produced avalanche warnings. Light snow dusted other high elevations of the Northwest.



National Agricultural Summary

February 26 - March 4

HIGHLIGHTS: Above-normal temperatures in many parts of the Nation melted snowcover, particularly in the central Plains and the Corn Belt. A late-week storm brought additional snow to parts of the northern Plains. Rains saturated fields in parts of the South and the West Coast. The rains and melting snows held land preparation to a minimum. In the South, plowing ranged from 16 to 29 percent complete---almost equal to last year but well behind average. Northern farmers fertilized and hauled some manure, but generally very little fieldwork was accomplished. Winter wheat rated fair to good throughout most major production areas. Early winter wheat entered the jointing stage across the South. Moderating temperatures improved pasture growth, but soggy fields prevented grazing in many areas. Deciduous orchard maintenance extended northward into Virginia and throughout the Pacific Northwest. The citrus harvests were active in Florida, Texas, Arizona, and California. Vegetable activity centered in southern areas, however, some greens were harvested as far north as South Carolina.

SMALL GRAINS: Winter wheat rated fair to good, but with some poor ratings in the southern States. Snowcover receded substantially in the Great Plains and was almost nonexistent in the Corn Belt. Pacific Northwest wheat also lost some of its snowcover.

Kansas wheat remained dormant, but condition was about average. The crop had very little wind damage but needed some moisture. Texas winter wheat responded to higher temperatures making rapid growth in areas with adequate soil moisture. Parts of the northern High and Low Plains needed additional precipitation. Farmers topdressed stands in the Blacklands and sprayed for insect control in some localities. Oklahoma wheat rated fair to good with grazing active. Wheat was greening but showed little or no growth. Nebraska wheat rated fair to good and received new snowcover in the south and south central areas. Corn Belt wheat lay mostly dormant and showed limited winter damage. California rains delayed late seedings, but earlier plantings showed good growth. Arizona planting was completed with early seedings in the jointing stage. Oregon wheat rated fair with winter damage not as severe as originally expected. Washington wheat fields were muddy, but farmers were able to fertilize some stands. Winterkill ranged from only minor to as much as 50 percent in some fields.

OTHER CROPS: Texas cotton planting moved ahead in the lower Rio Grande Valley. Wet and cold weather delayed planting in the Coastal Bend and Upper Gulf Coast. Land preparation for cotton seeding lagged far behind schedule in the Blacklands and south central areas but on schedule in the High and Low Plains. Arizona farmers prepared land for cotton seeding while finishing the 1978 picking and disposing of crop residue. Rainy weather stalled preplant cotton activity in California.

Several States began planting the 1979 corn crop including Mississippi and Texas at 1 percent.

Texas sorghum planting stood at 1 percent---the same as last year and slightly behind the 6 percent average.

Growers in several States tapped trees for maple sirup including Virginia, Ohio, Michigan, and the New England States.

Irish potato planting got underway in many areas of the Nation, including Texas, Oregon, Mississippi, the Carolinas, and Virginia.

FRUITS AND NUTS: Deciduous fruit producers pruned and sprayed trees where weather conditions permitted. This included the Pacific Northwest and parts of the South. Rains delayed seasonal orchard activity in California.

Florida citrus groves rated excellent with an abundance of new growth and bloom buds, some of which opened. Irrigation activities were limited. The early and mid-season orange harvests slowed, while Arizona growers harvested Valencias, lemons, and grapefruit. Producers also pruned freeze-damaged wood and thinned healthy trees. California growers picked grapefruit, lemons, Navels and tangelos.

VEGETABLES: Vegetable activities centered mostly in the extreme southern areas of the Nation, but some greens were harvested in the Atlantic Coastal States. Florida vegetable crops rated fair to very good. Early in the week, strong winds slowed growth and burned foliage. However, plants recovered rapidly under ideal weather later in the week. Vegetable shipments increased 24 percent from the previous week with cauliflower, chinese cabbage, potatoes, and tomatoes leading the increase. Strawberries rated mostly good with bloom and fruit set increasing. Watermelons rated fair to good with the stage of development varying from just emerging to runners up to 3 feet long. Texas growers harvested cabbage, carrots, lettuce, and spinach. Planting of melons, cabbage, onions, and potatoes advanced where field and weather conditions permitted. A full volume of lettuce moved from the Yuma area in Arizona. California artichoke and asparagus harvests remained light but increasing. The central coast broccoli harvest was fairly heavy, and cauliflower volume increased. Lettuce harvest slowed seasonally in the Imperial Valley where strikes still disrupted picking. A light volume of strawberries moved from the south coast.

PASTURES AND LIVESTOCK: Grasses began greening as far north as the southern Corn Belt. Growth was limited in most areas of the Nation because of either low temperatures or extremely wet fields. Most livestock producers reported cattle on full feed with supplies adequate to last until spring pasture is available. Only a few areas reported a shortage of hay and other roughages including some parts of the South and some of the Mountain States. Texas rangeland began greening, but growth was short. Warm temperatures in California improved grassland growth. Cattle rated fair to good throughout the Nation. Calving and lambing were active with no unusual losses reported. Muddy conditions caused some difficulties in feeding and caring for livestock and moving herds to new ranges.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., March 4, 1979

States and Stations	Temperature OF		Precipitation Inches		States and Stations	Temperature OF		Precipitation Inches		States and Stations	Temperature OF		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA. Birmingham . . .	53	+ 4	4.2	+ 2.8	LA. Baton Rouge . . .	57	+ 1	2.5	+ 1.3	Youngstown . . .	38	+ 8	.4	-.2
Mobile . . .	58	+ 2	5.7	+ 4.2	Lake Charles . . .	57	0	.6	-.4	OKLA. Okla. City . . .	43	- 1	.7	+.3
Montgomery . . .	57	+ 4	2.4	+ 1.1	New Orleans . . .	60	+ 2	1.0	-.3	Tulsa . . .	44	0	1.2	+.7
ALASKA. Anchorage . . .	20	0	T	-.2	Shreveport . . .	52	- 1	.7	-.2	OREG. Astoria . . .	44	0	3.8	+ 2.1
Barrow . . .	--	--	--	--	MAINE. Caribou . . .	25	+ 8	2.1	+ 1.6	Burns . . .	31	- 3	.5	+.2
Fairbanks . . .	- 7	- 10	T	-.1	Portland . . .	33	+ 7	2.2	+ 1.4	Medford . . .	43	- 3	.6	+.2
Juneau . . .	24	- 6	1.1	+ .3	MD. Baltimore . . .	44	+ 6	.4	-.4	Pendleton . . .	40	- 3	.3	+.0
Kodiak . . .	27	+ 4	1.4	+ .3	MASS. Boston . . .	37	+ 4	2.1	+ 1.2	Portland . . .	46	+ 2	1.5	+.6
Nome . . .	11	+ 6	0	-.2	Chatham . . .	38	--	3.0	--	Salem . . .	46	+ 2	1.5	+.4
ARIZ. Flagstaff . . .	27	- 5	.3	-.1	MICH. Alpena . . .	30	+ 9	.7	+ .3	PA. Allentown . . .	39	+ 6	.9	+.1
Phoenix . . .	57	0	.3	+ .1	Detroit . . .	36	+ 6	.3	-.2	Erie . . .	35	+ 7	.9	+ .3
Tucson . . .	52	- 3	.1	-.1	Flint . . .	34	+ 7	.2	-.2	Harrisburg . . .	41	+ 5	.8	+.1
Winslow . . .	41	- 1	T	-.1	Grand Rapids . . .	32	+ 4	1.4	+ 1.0	Philadelphia . . .	42	+ 5	1.1	+ .3
Yuma . . .	59	- 2	.1	0	Houghton Lake . . .	29	+ 8	1.0	+ .6	Pittsburgh . . .	39	+ 7	.4	-.3
ARK. Fort Smith . . .	44	- 2	1.1	+ .3	Lansing . . .	33	+ 6	.3	-.1	Scranton . . .	37	+ 7	5.5	0
Little Rock . . .	47	+ 1	1.3	+ .2	Marquette . . .	27	+ 10	1.9	+ 1.3	R.I. Providence . . .	37	+ 5	2.2	+ 1.3
CALIF. Bakersfield . . .	51	- 4	.3	+ .1	Muskegon . . .	30	+ 3	1.8	+ 1.4	S.C. Charleston . . .	55	+ 2	T	- 1.0
Eureka . . .	48	0	1.6	+ .4	S. Ste. Marie . . .	26	+ 8	1.7	+ 1.3	Columbia . . .	52	+ 2	.1	-.9
Fresno . . .	52	0	.8	+ .4	MINN. Duluth . . .	22	+ 5	1.0	+ .7	Greenville . . .	51	+ 4	1.7	+ .5
Los Angeles . . .	55	- 3	0	-.6	Internatl Falls . . .	22	+ 9	.5	+ .3	S.D. Aberdeen . . .	17	- 3	T	-.1
Red Bluff . . .	50	- 2	.6	-.1	Minneapolis . . .	28	+ 7	.8	+ .5	Huron . . .	22	0	T	-.2
San Diego . . .	57	0	.7	+ .3	Rochester . . .	25	+ 4	.6	+ .3	Rapid City . . .	25	- 3	T	-.2
San Francisco . . .	51	- 1	.7	0	St. Cloud . . .	27	+ 9	.7	+ .5	Sioux Falls . . .	26	+ 2	.5	+.2
Stockton . . .	52	+ 1	.8	+ .3	MISS. Jackson . . .	52	0	3.7	+ 2.4	TENN. Chattanooga . . .	51	+ 6	3.3	+ 2.0
COLO. Denver . . .	36	+ 2	.5	+ .3	Meridian . . .	53	+ 1	7.4	+ 6.0	Knoxville . . .	50	+ 5	2.4	+ 1.2
Grand Junction . . .	31	- 6	.1	-.1	MO. Columbia . . .	38	+ 1	.8	+ .3	Memphis . . .	48	+ 1	3.1	+ 2.0
Pueblo . . .	38	+ 1	.1	0	Kansas City . . .	37	+ 1	.8	+ .4	Nashville . . .	47	+ 3	.7	-.4
CONN. Bridgeport . . .	38	+ 5	1.4	+ .6	St. Louis . . .	36	- 2	.8	+ .2	TEX. Abilene . . .	52	+ 1	.3	+.1
Hartford . . .	36	+ 6	1.0	+ .2	Springfield . . .	39	- 1	1.0	+ .4	Amarillo . . .	42	0	.2	+.1
D.C. Washington . . .	45	+ 5	.1	-.6	MONT. Billings . . .	25	- 4	.4	+ .2	Austin . . .	55	- 1	.1	-.5
FLA. Apalachicola . . .	56	- 2	.8	-.3	Glasgow . . .	8	- 11	.2	+ .1	Beaumont . . .	57	0	.6	-.3
Daytona Beach . . .	61	0	T	-.8	Great Falls . . .	25	- 3	.3	+ .1	Brownsville . . .	64	- 1	T	-.4
Ft. Myers . . .	67	+ 1	0	-.7	Havre . . .	11	- 10	.2	+ .1	Corpus Christi . . .	63	+ 1	T	-.3
Jacksonville . . .	58	0	.1	-.8	Helena . . .	26	- 2	.1	0	Del Rio . . .	59	0	T	-.2
Key West . . .	72	- 1	T	-.4	Kalispell . . .	27	0	.1	-.1	El Paso . . .	48	- 3	.1	0
Lakeland . . .	--	--	--	--	Miles City . . .	15	- 10	.2	+ .1	Fort Worth . . .	49	- 2	1.0	+ .4
Miami . . .	66	- 3	0	-.4	Missoula . . .	29	- 1	T	-.1	Galveston . . .	57	- 1	.2	-.4
Orlando . . .	61	- 2	.1	-.7	NEBR. Grand Island . . .	29	- 2	1.6	+ 1.4	Houston . . .	57	- 1	.3	-.4
Tallahassee . . .	55	- 2	.6	-.8	Lincoln . . .	33	+ 2	1.4	+ 1.1	Lubbock . . .	49	+ 4	T	-.2
Tampa . . .	63	0	T	-.9	Norfolk . . .	27	0	1.0	+ .8	Midland . . .	51	+ 1	.2	+ .1
W. Palm Beach . . .	65	- 3	T	-.7	N. Platte . . .	30	0	.2	+ .1	San Angelo . . .	51	- 2	.4	+ .3
GA. Atlanta . . .	55	+ 8	1.9	+ .6	Omaha . . .	30	+ 1	.1	+ .8	San Antonio . . .	60	+ 3	.4	0
Augusta . . .	53	+ 2	.2	-.9	Valentine . . .	24	- 3	1.1	0	Victoria . . .	58	- 1	.1	-.4
Macon . . .	55	+ 2	.4	-.8	NEV. Ely . . .	29	- 1	.2	0	Waco . . .	51	- 2	1.1	+ .6
Savannah . . .	56	+ 2	.2	-.7	Las Vegas . . .	51	- 1	.1	0	Wichita Falls . . .	46	- 2	.4	+.1
HAWAII. Hilo . . .	72	+ 1	3.4	0	Reno . . .	39	0	T	-.2	UTAH. Blanding . . .	33	- 2	1.1	+ .9
Honolulu . . .	73	0	T	-.7	Winnemucca . . .	33	- 3	.9	+ .7	Salt Lake City . . .	36	0	.2	-.1
Kahului . . .	--	--	--	--	N.H. Concord . . .	35	+ 9	1.2	+ .6	VT. Burlington . . .	32	+ 9	.5	+ .1
Lihue . . .	72	+ 1	T	- 1.1	N.J. Atlantic City . . .	42	+ 5	.6	-.4	VA. Lynchburg . . .	44	+ 3	.2	-.6
IDAHO. Boise . . .	37	- 1	.3	0	Trenton . . .	42	+ 6	1.1	+ .3	Norfolk . . .	45	+ 1	.1	-.7
Lewiston . . .	40	- 1	.2	0	N.MEX. Albuquerque . . .	44	+ 2	T	-.1	Richmond . . .	46	+ 4	T	-.8
Pocatello . . .	29	- 3	.4	+ .2	Roswell . . .	45	- 1	0	-.1	Roanoke . . .	43	+ 2	1.0	+ .2
ILL. Cairo . . .	42	- 1	1.4	+ .4	N.Y. Albany . . .	35	+ 8	1.0	+ .4	WASH. Colville . . .	33	- 1	.5	+ .2
Chicago . . .	33	+ 2	1.5	+ 1.0	Binghamton . . .	35	+ 9	.6	0	Omak . . .	36	+ 2	T	-.2
Moline . . .	30	0	.6	+ .2	Buffalo . . .	36	+ 9	.9	+ .3	Quillayute . . .	43	+ 1	5.7	+ 3.0
Peoria . . .	33	+ 2	1.1	+ .7	New York . . .	39	+ 3	1.2	+ .4	Seattle-Tacoma . . .	44	+ 1	1.3	+ .4
Rockford . . .	29	+ 1	1.1	+ .7	Rochester . . .	36	+ 8	.9	+ .3	Spokane . . .	34	- 1	.6	+ .2
Springfield . . .	35	+ 1	.9	+ .4	Syracuse . . .	36	+ 8	1.4	+ .7	Walla Walla . . .	42	- 1	.6	+ .3
IND. Evansville . . .	42	+ 3	1.7	+ .7	N.C. Asheville . . .	47	+ 5	3.8	+ 2.8	Yakima . . .	38	- 1	.1	0
Ft. Wayne . . .	35	+ 4	.5	-.1	Charlotte . . .	50	+ 4	.3	-.8	W.VA. Beckley . . .	41	+ 6	.7	-.2
Indianapolis . . .	36	+ 2	.6	-.1	Greensboro . . .	47	+ 4	.3	-.6	Charleston . . .	45	+ 6	.9	0
South Bend . . .	34	+ 4	1.4	+ .9	Hatteras . . .	48	+ 1	1.2	+ .2	Huntington . . .	47	+ 8	.5	-.3
IOWA. Burlington . . .	33	+ 2	.8	+ .4	Raleigh . . .	50	+ 5	T	-.8	Parkersburg . . .	44	+ 6	.4	+.4
Des Moines . . .	30	+ 2	.9	+ .5	Wilmington . . .	52	+ 2	T	-.9	WISC. Green Bay . . .	26	+ 4	1.5	+ 1.2
Dubuque . . .	29	+ 3	.5	0	N.DAK. Bismarck . . .	10	- 8	.1	0	La Crosse . . .	32	+ 8	.1	-.2
Sioux City . . .	27	0	.9	+ .6	Fargo . . .	16	0	.4	+ .3	Madison . . .	29	+ 5	.5	+.2
KANS. Concordia . . .	36	+ 2	.7	+ .4	Williston . . .	11	- 7	.2	+ .1	Milwaukee . . .	30	+ 4	1.4	+ 1.0
Dodge City . . .	39	+ 2	.2	0	OHIO. Akron-Canton . . .	38	+ 7	.5	-.1	WYO. Casper . . .	31	+ 3	T	-.1
Goodland . . .	36	+ 3	.5	+ .4	Cincinnati . . .	41	+ 5	.5	-.4	Cheyenne . . .	34	+ 4	.1	-.1
Topeka . . .	37	0	1.0	+ .7	Cleveland . . .	40	+ 9	1.5	+ .9	Lander . . .	26	- 2	T	-.2
Wichita . . .	41	+ 2	1.3	+ 1.0	Columbus . . .	40	+ 6	.4	-.3	Sheridan . . .	21	- 7	.1	-.1
KY. Lexington . . .	44	+ 5	.4	-.6	Dayton . . .	39	+ 5	.4	-.2	P.R. San Juan . . .	77	+ 1	.1	-.4
Louisville . . .	44	+ 5	.5	-.5	Toledo . . .	36	+ 6	.5	0					

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 ESCS State offices in cooperation with the National Weather Service.

ALABAMA: Temperatures 2° above normal; highs in 70's most days. Heavy thunderstorms during weekend, record rains central and southwest. Amounts near 8.00 in.

Fieldwork: 2.0 days suitable. Soil moisture mostly surplus. Normal livestock and poultry care, preparation for spring main activities. Plowing 29% complete, most progress southern areas. Fieldwork behind; potato growers well behind land preparation. Pastures short, poor condition. Wheat and livestock condition fair.

ARIZONA: Cold front caused showers. Rainfall varied 0.01 in. to 1.01 in. Most areas received 0.10 to 0.40 in. Temperatures 5° below normal.

Land preparations underway new cotton crop. Final picking, residue disposal winding down. Land preparations early corn, grain sorghum well advanced. Small grains, good progress, planting virtually complete. Early plantings mostly jointing. Sugarbeets central, western good development. Late harvest Cochise County completed. Alfalfa haying gaining momentum western areas, sheep pastured some fields. Lettuce harvest full volume Yuma. Lettuce, central area, growing well. Most fields weeded, thinned. Mixed vegetable harvest full volume. Immature mixed vegetables all stages, excellent progress. Planting cantaloups, watermelons full swing. Harvest Valencia oranges, lemons, grapefruit active. Pruning freeze damaged wood underway. Hedging, thinning healthy trees. Ranges, pastures marked improvement. Soil moisture adequate, stock tanks are mostly full. Ranchers having problems with road conditions. Calving well underway. Most cattle, calves excellent condition. Sheep movement off winter pastures underway.

ARKANSAS: Temperatures little below normal, but highly variable on daily basis. Precipitation above normal to heavy. Lowest temperature 16°; highest 75°.

Wheat growth becoming evident; limited top dressing in southwest. Fescue pastures greening; limited nitrogen top dressing in south. Cattle good condition; still on full feed.

CALIFORNIA: Several fronts moved through bringing additional rain, with snow in mountains. Heaviest amounts in the northern half with one mountain station reporting over 3.50 in. Amounts at lower elevations up to 0.90 in. South reported up to 0.70 in. from storm at end of period. Temperatures below normal with much below normal readings at higher elevations in northern half.

Late planting small grains delayed by wet fields. Planting continued Imperial Valley. Sacramento Valley planting virtually complete. Fields show flood damage. Central coast, south desert, San Joaquin, Sacramento Valley good growth. Alfalfa good growth Sacramento, San Joaquin Valleys. Baling, cutting, active desert areas. Sugarbeet planting underway Sacramento, San Joaquin Valleys. San Joaquin, Imperial Valley good growth. Preplant cotton work stalled rain San Joaquin Valley. Cotton planting begun Riverside County. Rains delay seasonal orchard activities. Harvest continued avocados, grapefruit, lemons, Navel oranges, and tangelos. Date packing continued. Artichoke, asparagus harvest light but increasing. Broccoli harvest fairly heavy, cauliflower increasing

central coast. Lettuce harvest started Palo Verde Valley slowing seasonally Imperial Valley where harvest still disrupted by strike. Light strawberry harvest south coast. Ranges showed growth warmer temperatures. Supplemental feeding declining. Calving beginning northern areas. Some concern cold wet weather affect survival rate.

COLORADO: Moderate to heavy precipitation 27th, 28th, 2d and 3d. Snow of 12 to 24 in. fell over San Juan mountains, 12 in. snow in central mountains; portions of Denver area received 6 in. Temperatures 3 to 5° above normal east but remained below normal in mountains and western slope.

FLORIDA: High pressure dominated through 1st with no significant rainfall. On 2d, a slow moving cold front approached western Panhandle and moved slowly to eastern Panhandle by 4th. Generally under 1.00 in. in Panhandle. No significant rainfall recorded Peninsula. Highs ranged from mostly 60's north to upper 70's and low 80's south; lows ranged from 40's north to 60's central, south.

Sugarcane harvest nearing completion. Fieldwork active Peninsula, at standstill in west. Early corn being planted north, central. Land preparation active for peanuts, soybeans. Small grains mostly good condition, some damage from excessive moisture in Panhandle. Winter annual pastures providing bulk of available grazing in Panhandle, north. Heavy rain several westernmost counties some left low lying pastures under water; supplemental feeding necessary. Central pastures beginning to green; some liming and fertilizing. Southern pastures fair to good. Cattle condition fair to good. Citrus grove condition excellent. Abundance of new growth and bloom buds, some open flowers. Limited irrigation. Early and mid-orange harvest slowing. Overall vegetable crop condition fair to very good. Strong winds early in week slowed growth, burned tender foliage. Plant recovery rapid as near ideal weather prevailed remainder of week. Shipments up 24% from previous week. Cauliflower, chinese cabbage, potato, tomato shipments up considerably. Supplies cabbage, celery, sweet corn, cucumbers, eggplant, escarole, peppers increased. Snap beans, carrots, parsley, squash held steady. Shipments lettuce, okra, radishes, strawberries decreased. Planting continued active. Light fruit scarring evident some crops. Strawberry plant condition mostly good. Bloom, fruit set good most fields, increasing. Volume increase expected next several weeks. Watermelon crop condition fair to good. Stage of development variable, from just emerging to runners up to three feet. Stands irregular early plantings, more uniform later plantings. Planting continued active some areas.

GEORGIA: Temperatures mid-40's north to mid-50's south. Heavy rains over much of north and west weekend. Many sections of north reported 4.00 in. or more rain during weekend.

Soil moisture surplus. Some flooding northwest area 4th. Fieldwork delayed. Pasture condition ranged from poor in north and central to fair in east and southwest. Livestock condition fair. Tobacco plants good. Small grains fair to good.

HAWAII: Weather improved but still wet some sections, mainly Island of Hawaii. Cloudburst 25th.

Continuous wet weather volcano area slowing crop progress. Elsewhere crops making gradual recovery from previous week rainstorm. Replanting, road repairing, other restoration work, major farm activities. Further damage to agriculture revealed. Macadamia nut on ground, some young as well as mature trees lost from washouts. Cattle losses also reported. Vegetable, banana supplies light. Papayas phytophthora disease continuing, post harvest disease occurring on some fruits, not serious. Supplies down, expected to increase with better weather. Pastures fair to good. Pineapple harvesting slow. More sugar mills gradually grinding.

IDAHO: Temperatures and precipitation a little above normal. Precipitation heaviest north and east.

Fields too wet or snow covered; field activities limited. Caring for livestock, potato marketing and pruning fruit trees southwest. Calving and lambing gaining momentum. Weather conditions generally favorable for newborn.

ILLINOIS: Temperatures 1 to 3° above normal north, 1 to 2° below normal south. Maximum temperatures 40's north, 60's south. Precipitation ranged from 0.50 to 1.75 in., flooding in some areas. Snow depths in north 1 to 13 in.

Soil moisture adequate to surplus. Winter wheat mostly good condition, limited winter damage. Livestock fair to good condition. Feed requirements high, gains minimal, feeding conditions difficult in open areas. Grain, livestock movement improving north, slowed south. Major activities: Machinery repair, livestock care.

INDIANA: Warmer, cloudy and wet. Temperatures 3° above normal and ranged from 12 to 63°. Precipitation 0.70 in. south, 0.70 central, and 0.80 in. north. Snowcover melted except 2 in. near Lake Michigan. Soils thawed except freeze depths near 6 in. north 3d. Percent sunshine 52% northeast, 32% central, 37% southwest. Some heavy thunder storms 3d, extensive lowland flooding statewide on weekend due to rain and heavy snow melt.

Activities limited by snow early in period, muddy field conditions later. Some manure hauled. Tobacco bed preparation starting south. Otherwise, caring for livestock, and usual chores.

IOWA: First milder-than-normal week closed with crippling blizzard over northwest half on 3d to 4th. Snow of 7 to 10 in. fell over northwest and some west central areas, which was whipped into 10 ft. drifts. Rain and other forms of precipitation preceded snow and also fell moderately to heavy over southeast half ending with light snow or frozen precipitation. Snowcover decreased 3 to 6 in. over southeast half. Rainfall and partial snow melt caused some minor lowland flooding on streams in south central and southwest.

KANSAS: Substantial precipitation 2d, 0.75 to 1.50 in. central and east, traces or few hundredths extreme southwest, and 0.25 to 0.50 in. elsewhere over west. Snows 2 to 4 in. with considerable blowing west and north central. Temperatures 35° north central to 43° southeast, 4° above normal northwest to 1 to 3° above normal elsewhere.

Livestock received major consideration. Hay and forage supplies still of concern combined with problems caused by muddy lots and pastures. Some calving and lambing problems. Fieldwork lagged. Barley seeded 0%, last year 0%, average 8%. Oats seeded 0%, last year 0%, average 13%. Wheat still dormant, condition average. Little wind damage. Moisture still needed.

KENTUCKY: Cool but warming to well above normal by end of week. Temperatures 5 to 10° above normal. Rainfall ranged from less than 0.25 in. some northeast areas to over 2.50 in. extreme west.

Soils saturated. Flooding on low-lying and river bottom areas. Little or no fieldwork, but a few signs of spring appearing. Lexington burley market only one remaining open. Livestock fair to good condition. Hay supplies ample, except local shortages where dry last summer.

LOUISIANA: Temperatures 2° below to 2° above normal. Extremes: 79 and 27°. Rains mid and late week.

Fieldwork: 1.4 days suitable. Soil moisture surplus. Small grains fair. Pastures below average. Cattle fair, supplemental feeding.

MARYLAND & DELAWARE: Temperatures 3° above normal. Highs in upper 40's and lows in 30's. Precipitation heavy with most stations reporting 1.00 to 3.00 in. rain. Weekend variable cloudiness with a brief shower 4th.

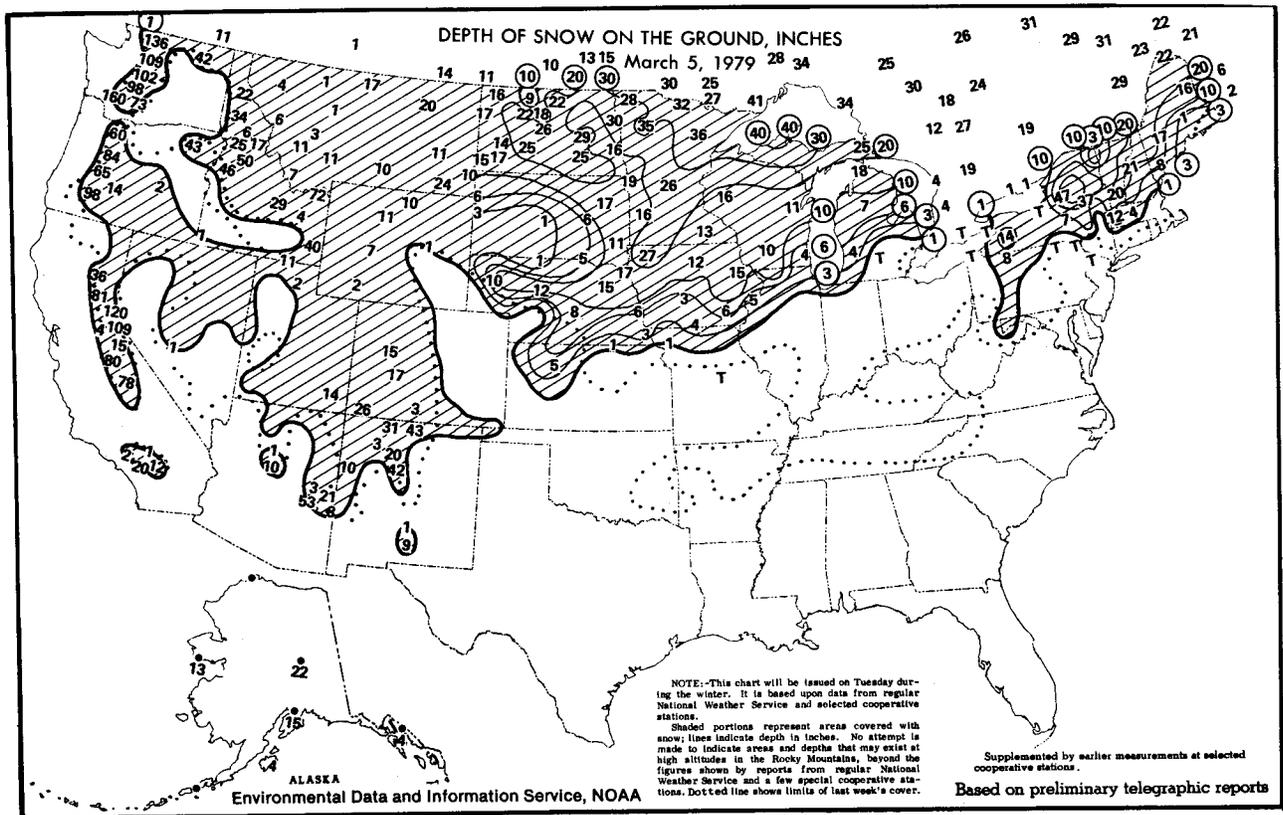
MICHIGAN: Temperatures varied over Lower from 2° above normal to 9° above normal; over Upper 7 to 40° above normal. Mean temperatures varied mostly from near 30° to mid-30's over Lower and mainly in mid-20's over Upper. Minimum temperatures generally subzero to teens. Maximum temperatures near 60° southeast Lower setting a new record and reached 40's and 50's in many other areas. Precipitation reached near 1.75 in. western Lower and near 0.20 in. Thumb area. Over Upper precipitation varied between about 1.20 in. to near 1.80 in. Most precipitation fell as rain in Lower and snow with some freezing rain in Upper. Main farm activities included feeding livestock and tapping trees for maple sirup.

MINNESOTA: Temperatures 7° above normal, except near normal along west border. Extremes: 38 and -3°. Precipitation 0.25 in. above normal except 0.50 to 1.00 in. above normal east central and northeast. Precipitation totaled 0.40 to 0.70 in. except 0.70 to 1.42 in. east central and northeast, locally less than 0.15 in. west central and extreme southeast. Some rain changing to snow south and east late week, with local blizzard conditions parts of southwest and extreme south. Snowfall 6 to 10 in. southwest through north central and northeast, less than 3 in. northwest and southeast. Snow depth 12 to 20 in. south and west, 20 to 37 in. elsewhere.

MISSISSIPPI: Temperatures 1 to 6° below normal. Extremes: 21 and 76°. Rain early week; clear midweek; severe weather, heavy rainfall-late week.

Soil moisture surplus to excessive. Fieldwork: 0.6 days suitable. Fields generally too wet for land preparation except in southern areas some land worked and corn planting underway where dry enough. Winter grazing improved by warmer weather and farmers applied fertilizer where fields would hold up equipment. Livestock requiring feed most areas. Acreage plowed 16%, 15% 1978, 23% average. Corn 1% planted. Irish potatoes 10% planted, 24% 1978. Winter wheat fair to poor condition, few fields beginning jointing stage. Hay and roughage supplies and feed grain supplies rated short to adequate. Pasture mostly poor condition, livestock fair condition.

MISSOURI: Temperatures to 6° below normal. Precipitation light to moderate southwest, moderate to heavy west central plains, west Ozarks and northwest prairie, very heavy east Ozarks and Bootheel



with 1.00 to 3.78 in. melted precipitation, and total snowfall 7 to 24 in.

Topsoil moisture short to adequate. Winter wheat mostly in fair to good condition. Supplies of hay and other roughages mostly adequate. Livestock losses due to unfavorable weather normal to moderate for cattle and hogs. General condition of livestock mostly fair.

MONTANA: Temperatures below normal. East and part of north central temperatures 10° below normal. Precipitation light in west and north central and heavy across southwest and south central areas.

Winter wheat condition good. Snowcover light to good. Livestock fair to good condition. Calving and lambing active.

NEBRASKA: Temperatures normal except Panhandle where averages 5° above normal. Precipitation western third less than 0.10 in.; eastern two-thirds up to 1.00 to 1.50 in. Weekend storm dumped 4 to 10 in. snow southeast and south central areas. High winds caused considerable drifting.

Winter wheat condition fair to good. Hay and feed supplies normal or better. Calving becoming active. Some high baby pig death losses in a few localities. Lambing started west.

NEVADA: Weak storm produced light precipitation early week. Temperatures near normal. Extremes: 70 and -10°.

Livestock wintering well. Mild weather favorable for calving and lambing.

NEW ENGLAND: Snow, sleet and freezing rain moved northeastward 26th and 27th. Precipitation totaled 0.50 to 2.00 in., higher amounts east and south. Sunny weather midweek. Light rain and snow, cloudy, drizzle at weekend.

Maple sirup producers set taps; otherwise, routine farm chores.

NEW JERSEY: Temperatures 3° below normal, averaging 38° north, 41° south and 40° coastal. Extremes: 23 and 64°. Precipitations slightly above normal, averaging 0.92 in. north, 1.03 in. south and 1.13 in. coastal, because of heavy rains 25th to 26th.

Farmers caring for livestock and tending to other winter chores.

NEW MEXICO: Mild and dry through midweek. Minor storm 2d and 3d with slight amounts of rain and snow. Considerable colder weekend especially east.

Land preparation and irrigation active. Wheat and barley good. Spring lettuce growing. Livestock fair. Calving, lambing and shearing in progress.

NEW YORK: Temperatures in 30's; 3 to 10° above normal. Precipitation ranging from near 0.50 in. north to 1.25 in. south; above normal south and west but near normal north.

NORTH CAROLINA: Temperatures mountains 5° above normal; elsewhere 2° above normal. Precipitation heavy; southern coastal plains 0.25 to 0.50 in., elsewhere 1.00 to 2.50 in.

Fieldwork: 1.3 days suitable. Soil moisture surplus. Condition of small grains and Irish potatoes fair to good. Pastures and tobacco plantbeds mostly fair. Supplies of hay, roughage and feed grains adequate. Irish potato plantings just underway.

NORTH DAKOTA: Few thawing temperatures west, but mostly below freezing. Temperatures 2 to 6° below normal. Extremes: -18 and 44°. Precipitation light except central and east central where

near 0.50 in. Frost depth deeper than 6 ft. scattered areas. Little change in snow depth. Average 20 in. with portion extreme southeast averaging less than 10 in.

Snow accumulation farmyards and feedlots making livestock feeding difficult. Marketing of grain continued slow due to bad roads, inadequate mass transportation.

OHIO: Temperatures 6° warmer than normal. Extremes: 73 and 7°. Amounts greater than in. few locations south and northeast.

Soil temperatures north half little change; south bare soil temperatures range from average lows in mid-30's to average highs in low 40's. Maple sirup ran heavy in central and south. Freezing temperatures needed to improve yield in north. Wheat not yet broken dormancy but orchard grass greening, along Ohio River. Extremes: 73 and 7°. Precipitation 0.40 in.; 0.40 in. below normal. Amounts greater than in. few locations south and northeast.

OKLAHOMA: Temperatures 5° below normal southeast to normal central and southwest. Maximum temperatures ranged low 20's Panhandle to mid-40's southeast. Thunderstorms late week provided precipitation. Precipitation 0.25 in. Panhandle to slightly over 1.00 in. north central and southeast.

Wheat fair to good condition, grazing active. Some areas cattle removed from wheat pasture. Wheat greening but little growth. Native pasture rated fair to poor with few providing adequate forage. Cattle fair condition; calving active. Hay supplies short but should be sufficient if open spring occurs. Fieldwork: 4.3 days suitable.

OREGON: Temperatures near normal. Maximum temperatures ranged in upper 40's to upper 50's. Minimum temperatures dropped into upper 20's and lower 30's in west and ranged from upper teens to upper 20's east. Precipitation above normal. Rainfall 2.00 to 3.00 in. range along coast; 1.00 to 1.50 in. rain in Willamette Valley. Remainder of State precipitation 0.25 to 0.50 in. range.

Soil moisture ranged from surplus in Willamette Valley to adequate in northeast. Most fields too wet for fieldwork. Hermiston area farmers preparing ground for potatoes. Winter wheat looks fair and damage not as severe as earlier expected. Pruning and spraying of orchards and berries continued as weather permitted. Feeding of livestock heavy, but supplies adequate.

PENNSYLVANIA: Temperatures 3 to 6° above normal. Extremes: 63 and 4°. Third consecutive week with above normal precipitation that ranged from 0.25 in. or less southeast to 2.00 in. west central mountains. Heavy rains of 0.50 to 1.00 in. Considerable snow melt with snow cover confined to few northern higher elevations. Normal winter chores.

PUERTO RICO: Island average rainfall 0.14 in. or 0.44 in. below normal. Temperatures averaged about 75° on coasts and 69° interior. Extremes: 89 and 50°.

SOUTH CAROLINA: Early rather cool temperatures rose steadily to average warmer than usual. General rains last half week, heaviest rainfall up-State 3d and 4th.

Spraying fruit trees, grape vines; feeding livestock; harvesting greens among major activities. Wet fields continue to slow preplant activities. Growth of tobacco plants delayed one or two weeks.

SOUTH DAKOTA: Temperatures improved; 4 to 8° below normal North; above normal South. Averages 15 to 28°. Extremes: -18 and 55°. Weekend storm clipped southeast with blizzard conditions and 0.20 to 0.45 in. precipitation; elsewhere 0.15 in. or less.

TENNESSEE: Fair early week; light rainfall mid-week. Fair weather again until 3d when heavy showers spread over State. Amounts averaged 1.00 to 2.00 in. Temperatures lows 30's and highs 60's.

Soil moisture surplus. Pastures and small grains fair. Cattle good condition. Main activities limited to general chores and care of livestock.

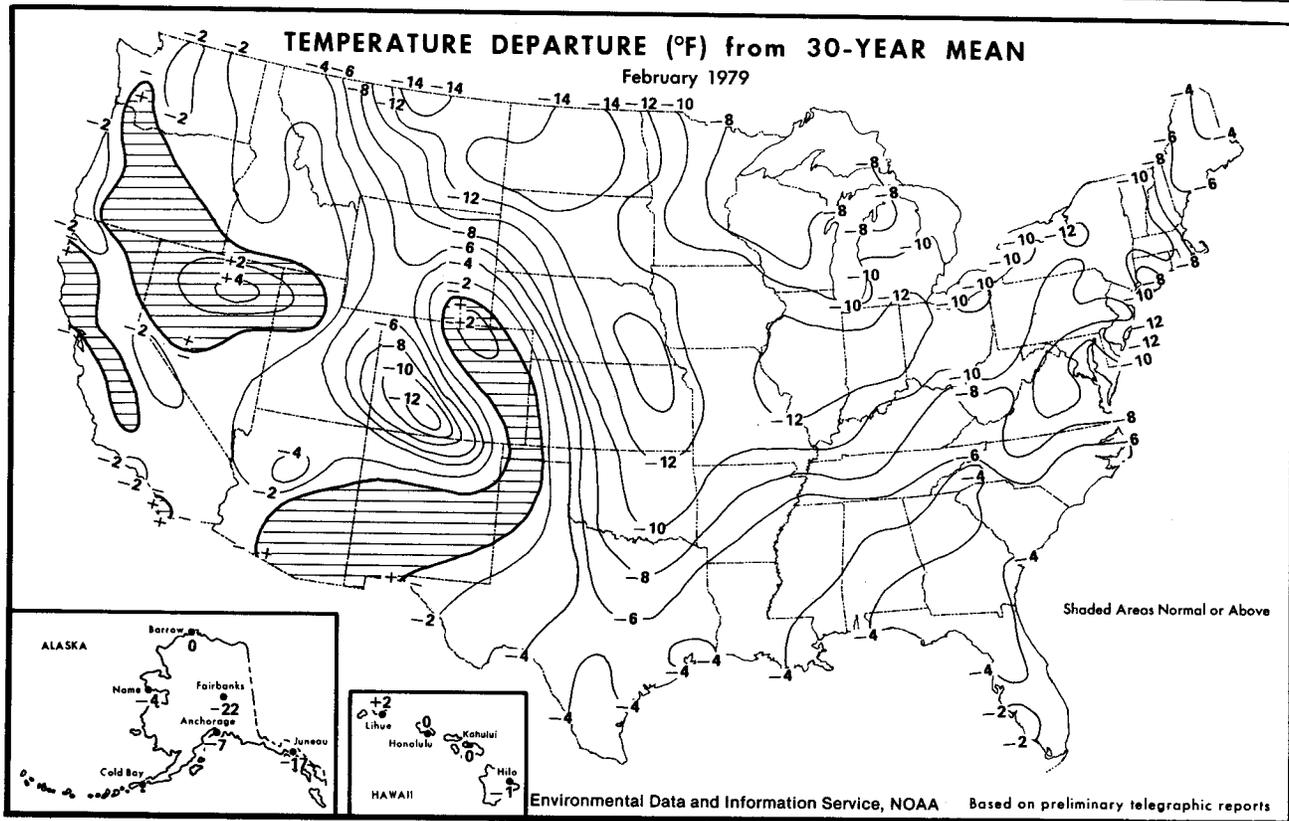
TEXAS: Cold front middle of week, triggered scattered thunderstorms with a few being severe. Polar cold front toward end of week. Rainfall below normal south Texas, above normal west central Texas, near normal rest of State. Temperatures 2° below normal Trans-Pecos region, near normal upper Gulf Coast, 2 to 6° above normal rest of State.

Planting cotton, corn, sorghum underway lower Rio Grande Valley. Scattered fields corn and sorghum planted south Texas, Coastal Bend, upper Gulf Coast. Land preparation far behind schedule Blacklands, south central Texas because wet fields. Where moisture adequate, wheat, oats responded well to warm weather, stands greening up. Cotton planting moving ahead lower Rio Grande Valley, farmers ready to plant Coastal Bend, upper Gulf Coast but fields still too cold and wet. Blacklands, south central Texas fields wet, land preparation far behind schedule. Land preparation normal on High, Low Plains. Sorghum planting making normal progress lower Rio Grande Valley. Some fields planted Coastal Bend, upper Gulf Coast but most fields still too wet. Land preparation continued far behind schedule south central Texas, Blacklands because of wet fields. Farmers able to prepare seedbeds normal pace High, Low Plains where moisture generally adequate. Wheat responding warmer weather, making rapid growth most areas where moisture adequate. Parts northern High and Low Plains short of moisture growth rates good but more moisture needed soon. Farmers topdressing stands in Blacklands, spraying control winter grain mites some localities. Greenbugs not been problem thus far. Oats responded well warmer weather, sunshine but many late seeded stands frozen out along northern border from Low Plains to east Texas. Few farmers planting for late spring grazing. Stands south, south central Texas showing good growth but fields too wet to graze. Flax stands that survived winter making good growth south Texas. Corn planted 1%, 0% 1978, 2% average. Sorghum planted 1%, 1% 1978, 6% average.

Harvesting cabbage, carrots, lettuce, spinach continued. Melon planting active. Cabbage, onion, potato planting, as well as land preparation for sweetpotato and watermelon advanced. Planting delayed by cold, wet weather some areas.

Although pastures and ranges remain short overall, conditions improved with recent warmer weather. Some winter annuals begun to green up, small grain growth resumed. Supplemental feeding remained at heavy pace most areas. Lambing and kidding continued on Edwards Plateau. Livestock remained fair to good condition depending upon amount supplemental feeding.

UTAH: Few widely scattered showers rain or snow middle of period. Amounts light to moderate except locally heavy south central and northern



February Weather Summary

HIGHLIGHTS: Much of California and the Pacific Northwest recorded above-normal precipitation during the month of February. Percentages ranged up to 150 percent above totals expected this time of year. The northern Plains also exceeded normal precipitation; amounts well above an inch brought parts of this area past 300 percent of normal. Precipitation was generally heavier than the average from New Mexico eastward to the Atlantic and from East Texas northeastward to Pennsylvania. Flooding occurred in the Deep South and in the mid-Atlantic area. Temperatures averaged colder than normal over most of the Nation. The northern and central Plains dropped 12 to 15 degrees colder than normal. Only the West Coast and Plateau averaged near expected temperatures for February.

As the month of February began, a blast of cold air moved from western Canada to envelop the Rockies and Plains. Sub-zero temperatures were felt in the Plains as far south as Oklahoma. Spotty snowcover over most of the winter wheat area afforded some protection. A storm system moved into southern California and spread heavy rain along the coast with lesser amounts, in the form of snow, hitting the Plateau and central Rockies. A low pressure system formed in the Gulf of Mexico and spread precipitation northward and eastward to cover most of the area east of the Mississippi River.

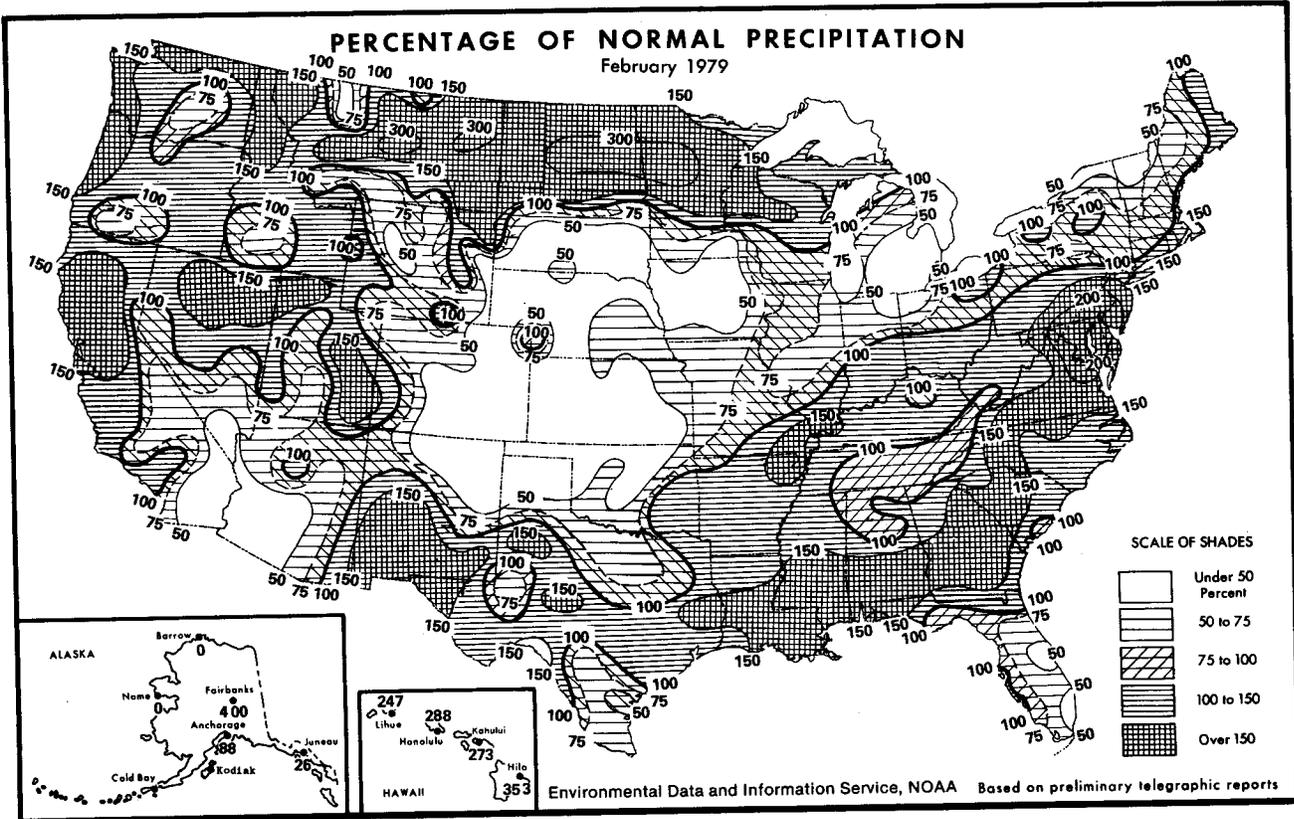
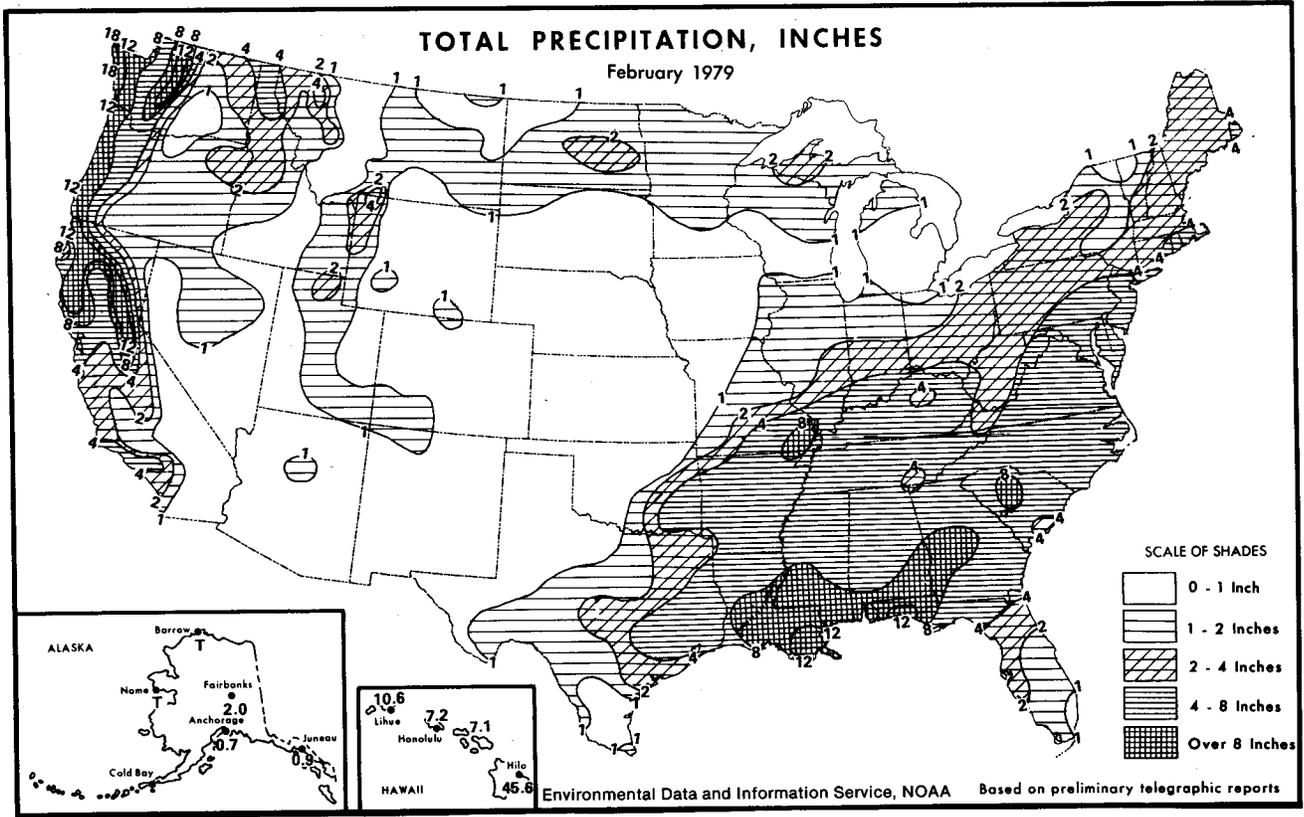
Early in the week of Feb. 5-11, another surge of cold air pushed southward into the Plains. The average temperature for the week was 21 degrees colder than normal in parts of the central Plains. The coldest minimum temperature in this area plummeted to -20° in northern Missouri and southern Iowa. Freezing temperatures reached into northern Florida. Another storm system formed in the Gulf of Mexico, but this time stayed to the south and caused heavy rain from southern Louisiana to

central Georgia and moderate rain or freezing rain into the mid-Atlantic States. Some heavy rain---snow in the mountains---fell in the Pacific Northwest.

The mid-month week of Feb. 12-18 brought precipitation to nearly all of the Nation. Heavy rain or snow fell in the West with moderate amounts in the South and mid-Atlantic areas. Temperatures were warmer than normal in the West but colder east of the Rockies. Departures from normal plunged as much as 27 degrees in New York State. At week's end, heavy snow began to fall in Georgia and moved northward.

Early in the week of Feb. 19-25, a low pressure system moved northward along the East Coast and left a heavy snowcover from Georgia to southern New England. Amounts ranged from 3 to 5 inches in Georgia to 20 to 25 inches in parts of the mid-Atlantic area. Subsequent warm rain depleted most of the snowcover. Again, precipitation fell in most of the Nation during the week. Heaviest amounts dampened Washington State, northern California, and the Southeast. Temperatures averaged near or slightly above normal in much of the Nation, but the northern Plains showed 12 to 15 degrees colder than normal.

During the last days of the month, Feb. 26-28, a strong low pressure system caused rain from the Carolinas to New England stretching as far west as the Ohio Valley. Local flooding occurred in some mid-Atlantic areas. In the West, some heavy rain fell from central California northward. Snow fell in the Plateau and northern Rockies. Thunderstorms broke out in the South, and hail was recorded at several places along the lower Mississippi River. Cold air moved all the way to northern Florida but was rapidly replaced by another warming trend. Moderately cold air dominated the northern tier of States where 17° chilled Aberdeen, S. Dak., Grand Forks, N. Dak., and Caribou, Maine.



Temperature and Precipitation Data for February 1979

States and Stations	Temperature Of		Precipitation Inches		States and Stations	Temperature Of		Precipitation Inches		States and Stations	Temperature Of		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA. Birmingham	44	-3	4.8	-.5	LA. Baton Rouge	50	-4	10.9	+6.1	Youngstown	17	-10	2.0	-.4
Mobile	51	-3	9.1	+4.3	Lake Charles	50	-5	6.5	+2.0	OKLA. Okla. City	32	-9	.6	-.7
Montgomery	48	-3	7.7	+3.4	New Orleans	53	-3	12.0	+7.2	Tulsa	30	-11	.8	-.9
ALASKA. Anchorage	11	-7	.7	-.1	Shreveport	47	-4	5.0	+1.3	OREG. Astoria	42	-2	11.8	+4.0
Barrow	-19	0	T	-.2	MAINE. Caribou	10	-3	2.2	+ .1	Burns	31	0	1.7	+ .5
Fairbanks	-25	-22	T	-.2	Portland	16	-7	3.5	0	Medford	42	+1	1.5	+ .7
Juneau	11	-17	.9	-2.5	MD. Baltimore	26	-9	7.2	+4.4	Pendleton	38	-1	1.7	+ .6
Kodiak	-	-	-	-	MASS. Boston	23	-7	3.5	0	Portland	43	0	6.5	+2.4
Nome	-	-	-	-	Chatham	24	-7	5.7	+2.0	Salem	43	0	7.2	+2.5
ARIZ. Flagstaff	26	-5	1.7	+ .8	MICH. Alpena	9	-9	1.1	-.3	PA. Allentown	21	-8	4.5	+1.7
Phoenix	56	+1	.1	-.5	Detroit	17	-10	.6	-1.2	Erie	14	-11	2.2	+ .1
Tucson	54	0	.4	-.3	Flint	13	-11	.3	-1.3	Harrisburg	23	-9	4.7	+2.3
Winslow	38	-1	.2	-.2	Grand Rapids	15	-10	.6	-.9	Philadelphia	23	-11	6.4	+3.8
Yuma	58	-1	T	-.3	Houghton Lake	10	-8	.6	-.6	Pittsburgh	18	-11	3.1	+ .7
ARK. Fort Smith	34	-9	4.6	+1.4	Lansing	13	-11	.6	-1.0	Scranton	16	-12	2.4	+ .4
Little Rock	36	-7	5.5	+1.1	Marquette	8	-6	2.0	+ .3	R.I. Providence	20	-9	4.1	+ .6
CALIF. Bakersfield	52	0	1.4	+ .4	Muskegon	14	-11	.9	-.9	S.C. Charleston	47	-4	3.0	-.3
Eureka	48	0	6.3	+1.1	S. Ste. Marie	5	-10	1.9	+ .4	Columbia	43	-5	8.1	+4.4
Fresno	51	+1	2.5	+ .8	MINN. Duluth	5	-7	1.9	+1.0	Greenville	39	-5	6.1	+1.7
Los Angeles	55	-3	3.1	+ .3	Internatl Falls	-1	-8	1.0	+ .3	S.D. Aberdeen	3	-12	.7	+ .1
Red Bluff	50	0	6.9	+3.7	Minneapolis	10	-7	1.4	+ .6	Huron	6	-12	.3	-.5
San Diego	57	0	.9	-.6	Rochester	6	-11	.3	-.4	Rapid City	17	-9	.3	-.3
San Francisco	50	-1	5.9	+2.9	St. Cloud	5	-8	1.7	+ .9	Sioux Falls	8	-11	.4	-.6
Stockton	51	+2	3.5	+1.4	MISS. Jackson	46	-4	8.4	+3.8	TENN. Chattanooga	39	-4	3.9	-1.3
COLO. Denver	34	+1	.4	-.3	Meridian	46	-4	7.5	+2.6	Knoxville	37	-6	4.2	-.5
Grand Junction	24	-10	.6	0	MO. Columbia	23	-11	1.4	-.4	Memphis	39	-5	5.7	+1.0
Pueblo	34	-1	.1	-.2	Kansas City	21	-11	.8	-.5	Nashville	33	-8	4.0	-.4
CONN. Bridgeport	25	-6	3.7	+1.0	St. Louis	23	-12	1.5	-.6	TEX. Abilene	45	-3	1.1	+ .1
Hartford	18	-9	2.8	-.4	Springfield	27	-10	1.7	-.5	Amarillo	40	-3	.3	-.3
D.C. Washington	28	-9	5.6	+3.1	MONT. Billings	19	-8	.6	0	Austin	49	-4	3.5	+ .4
FLA. Apalachicola	51	-5	2.1	-1.7	Glasgow	2	-13	.7	+ .2	Beaumont	52	-4	4.2	0
Daytona Beach	57	-3	1.9	-1.0	Great Falls	19	-8	.6	-.4	Brownsville	60	-3	1.1	-.4
Ft. Myers	64	-1	2.0	0	Havre	3	-15	1.0	+ .6	Corpus Christi	57	-3	.8	-1.2
Jacksonville	52	-4	3.8	+ .2	Helena	20	-5	.7	+ .3	Del Rio	52	-4	1.6	+ .6
Key West	69	-3	1.0	-.5	Kalispell	23	-2	1.6	+ .6	El Paso	47	-1	.7	+ .3
Lakeland	62	0	1.3	-1.2	Miles City	8	-14	1.1	+ .6	Fort Worth	42	-7	1.5	-.9
Miami	65	-3	.6	-1.4	Missoula	26	-1	1.0	+ .3	Galveston	52	-4	2.8	+ .1
Orlando	58	-4	1.5	-1.5	NEBR. Grand Island	14	-14	.4	-.4	Houston	52	-3	5.2	+1.7
Tallahassee	50	-5	4.1	-.7	Lincoln	13	-15	.5	-.4	Lubbock	42	-1	.9	+ .4
Tampa	59	-3	2.9	0	Norfolk	11	-13	.4	-.4	Midland	45	-3	.3	-.3
W. Palm Beach	64	-2	.8	-1.8	N. Platte	17	-11	.1	-.4	San Angelo	47	-3	1.8	+1.0
GA. Atlanta	42	-3	5.7	+1.3	Omaha	14	-12	.4	-.6	San Antonio	52	-3	1.4	-.7
Augusta	44	-4	7.3	+3.5	Valentine	13	-12	.3	-.2	Victoria	53	-4	2.3	0
Macon	46	-4	8.5	+4.1	NEV. Ely	27	-1	.6	0	Waco	44	-7	2.0	-.4
Savannah	49	-3	4.1	+1.2	Las Vegas	48	-1	.1	-.2	Wichita Falls	38	-8	.7	-.5
HAWAII. Hilo	70	-1	45.6	+32.7	Reno	37	0	.8	-.1	UTAH. Blanding	29	-4	1.7	+ .8
Honolulu	72	0	7.2	+4.7	Winnemucca	36	+2	1.2	+ .4	Salt Lake City	33	0	1.1	-.1
Kahului	72	0	7.1	+4.5	N.H. Concord	15	-8	2.3	-.2	VT. Burlington	8	-11	.6	-1.1
Lihue	73	+2	10.6	+6.3	N.J. Atlantic City	22	-12	5.8	+2.4	VA. Lynchburg	28	-10	5.0	+2.2
IDAHO. Boise	34	-2	1.2	0	Trenton	24	-9	4.6	+1.9	Norfolk	33	-8	5.0	+1.7
Lewiston	36	-2	1.1	+ .2	N. MEX. Albuquerque	41	+1	.6	+ .2	Richmond	29	-10	6.0	+3.0
Pocatello	28	-1	1.2	+ .4	Roswell	44	+1	.4	0	Roanoke	29	-9	5.4	+2.3
ILL. Cairo	30	-10	4.8	+1.0	N.Y. Albany	14	-10	1.7	-.4	WASH. Colville	28	-3	3.2	+1.8
Chicago	17	-10	1.1	-.5	Binghamton	14	-9	1.7	-.5	Omak	29	-1	1.4	+ .3
Moline	13	-13	1.0	-.3	Buffalo	15	-9	2.0	-.6	Quillayute	40	-1	19.1	+7.1
Peoria	15	-13	1.4	-.1	New York	23	-10	4.3	+1.2	Seattle-Tacoma	42	0	5.3	+1.1
Rockford	13	-11	1.2	-.1	Rochester	14	-11	2.4	0	Spokane	29	-3	2.2	+ .5
Springfield	17	-13	1.1	-.7	Syracuse	13	-12	2.5	-.3	Walla Walla	40	0	1.9	+ .5
IND. Evansville	25	-11	4.8	+1.5	N.C. Asheville	36	-3	5.1	+1.5	Yakima	33	-3	.5	-.3
Ft. Wayne	15	-13	1.0	-.1	Charlotte	38	-6	7.6	+3.8	W.VA. Beckley	27	-6	2.5	-.8
Indianapolis	19	-12	2.9	+ .5	Greensboro	33	-8	5.0	+1.6	Charleston	28	-9	3.8	+ .7
South Bend	16	-10	1.5	-.4	Hatteras	41	-5	4.7	+ .5	Huntington	29	-7	4.3	+1.4
IOWA. Burlington	16	-11	1.0	-.4	Raleigh	37	-5	5.6	+2.3	Parkersburg	24	-11	3.1	+ .3
Des Moines	14	-10	.5	-.6	Wilmington	43	-5	4.2	+ .8	WISC. Green Bay	9	-9	1.2	+ .2
Dubuque	11	-11	1.1	-.2	N. DAK. Bismarck	-1	-15	1.2	+ .8	La Crosse	13	-7	.7	-.2
Sioux City	9	-14	.4	-.5	Fargo	2	-13	1.8	+1.4	Madison	12	-8	.9	-.1
KANS. Concordia	19	-13	.1	-.8	Williston	2	-12	.8	+ .3	Milwaukee	15	-8	1.0	-.1
Dodge City	29	-6	.1	-.5	OHIO. Akron-Canton	17	-11	2.1	-.1	WYO. Casper	24	-3	.4	-.1
Goodland	31	-1	.1	-.3	Cincinnati	21	-12	3.8	+ .8	Cheyenne	32	+3	.1	-.4
Topeka	19	-14	.6	-.4	Cleveland	19	-9	2.7	+ .5	Lander	20	-6	.1	-.6
Wichita	24	-12	2.2	-.8	Columbus	19	-11	2.9	+ .6	Sheridan	16	-10	.4	-.4
KY. Lexington	27	-8	2.9	-.5	Dayton	19	-11	2.9	+ .7	P.R. San Juan	79	+3	1.8	-.7
Louisville	28	-8	4.5	+1.0	Toledo	15	-12	.7	-1.1					

Based on 1941-70 normals

Heating Degree Days (Base 65° F.)

February 1979

ALA. Birmingham	584	MAINE, Caribou	1527	OKLA. Okla. City	932
Mobile	189	Portland	1380	Tulsa	972
Montgomery	179	MD. Baltimore	1100	OREG. Astoria	641
ALASKA, Anchorage	88	MASS. Boston	1169	Burns U.	940
Barrow	1515	Chatham	1156	Medford	639
Fairbanks	2533	MICH. Alpena	1576	Pendleton	757
Juneau	1505	Detroit	1355	Portland	615
Nome	1847	Flint	1453	Salem	619
ARIZ. Flagstaff	1089	Grand Rapids	1393	PA. Allentown	1241
Phoenix	254	Houghton Lake	1530	Erie	1424
Tucson	311	Lansing	1452	Harrisburg	1182
Winslow	757	Marquette U	1626	Philadelphia	1170
Yuma	174	S. Ste. Marie	1673	Pittsburgh	1311
ARK. Fort Smith	869	MINN. Duluth	1679	Scranton	1370
Little Rock	794	Internatl Falls	1837	R. I. Providence	1261
CALIF. Bakersfield	352	Minneapolis	1537	S. C. Charleston	505
Eureka U.	467	Rochester	1658	Columbia	613
Fresno	372	St. Cloud	1677	Greenville	715
Los Angeles U	274	MISS. Jackson	531	S. DAK. Aberdeen	750
Red Bluff	418	Meridian	536	Huron	1647
Stockton	384	Vicksburg U	--	Rapid City	1348
San Diego	219	MO. Columbia	1167	Sioux Falls	1607
San Francisco	406	Kansas City	1230	TENN. Chattanooga	725
COLO. Denver	854	St. Louis	1167	Knoxville	786
Grand Junction	1153	Springfield	1048	Memphis	734
Pueblo	849	MONT. Billings	1286	Nashville	877
CONN. Bridgeport	1126	Glasgow	1781	TEX. Abilene	567
Hartford	1310	Great Falls	1292	Amarillo	697
D. C. Washington	1019	Havre	1728	Austin	460
FLA. Apalachicola	394	Helena	1250	Beaumont	360
Ft. Myers	100	Kalispell	1168	Brownsville	203
Jacksonville	371	Miles City	1589	Corpus Christi	256
Key West	22	Missoula	1096	Dallas	--
Daytona Beach	242	NEBR. Grand Island	1431	Del Rio	363
Miami	82	Lincoln	1454	El Paso	495
Orlando	214	Norfolk	1506	Fort Worth	635
W. Palm Beach	118	North Platte	1335	Galveston U.	361
Tallahassee	424	Omaha	1435	Houston	376
Tampa	191	Valentine	1446	Lubbock	640
GA. Atlanta	646	NEV. Ely	1072	Midland	546
Augusta	820	Las Vegas	458	San Angelo	510
Macon	541	Reno	781	San Antonio	356
Savannah	448	Winnemucca	809	Victoria	352
IDAHO, Boise	855	N. H. Concord	1392	Waco	570
Lewiston	808	N. J. Atlantic City	1208	Wichita Falls	750
Pocatello	1034	Trenton U	1155	UTAH, Milford	993
ILL. Cairo U.	965	N. MEX. Albuquerque	665	Salt Lake City	902
Chicago	1345	Roswell	592	VT. Burlington	1610
Moline	1445	N. Y. Albany	1414	VA. Lynchburg	1033
Peoria	1403	Binghamton	1437	Norfolk	879
Rockford	1458	Buffalo	1400	Richmond	1011
Springfield	1336	New York	1173	Roanoke	992
IND. Evansville	1125	Rochester	1432	WASH. Colville	1025
Fort Wayne	1401	Syracuse	1457	Omak	--
Indianapolis	1288	N. C. Asheville	810	Quillayute	703
South Bend	1356	Charlotte	750	Seattle-Tacoma	630
IOWA, Burlington	1395	Greensboro	893	Spokane	1011
Des Moines	1433	Hatteras R.	663	Walla Walla U.	693
Dubuque	1511	Raleigh	792	Yakima	901
Sioux City	1560	Wilmington	606	W. VA. Beckley	1070
KANS. Concordia	1294	N. DAK. Bismarck	1837	Charleston	1031
Dodge City	1013	Fargo	1863	Huntington	1014
Goodland	936	Williston U	1774	Parkersburg U.	1128
Topeka	1276	OHIO, Akron-Canton	1348	WIS. Green Bay	1564
Wichita	1143	Cincinnati U.	1216	Madison	1489
KY. Lexington	1061	Cleveland	1281	Milwaukee	1391
Louisville	1030	Columbus	1271	WYO. Casper	1153
LA. Baton Rouge	418	Dayton	1281	Cheyenne	933
Lake Charles	406	Toledo	1390	Lander	1248
New Orleans	347	Youngstown	1332	Sheridan	1376
Shreveport	517				

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

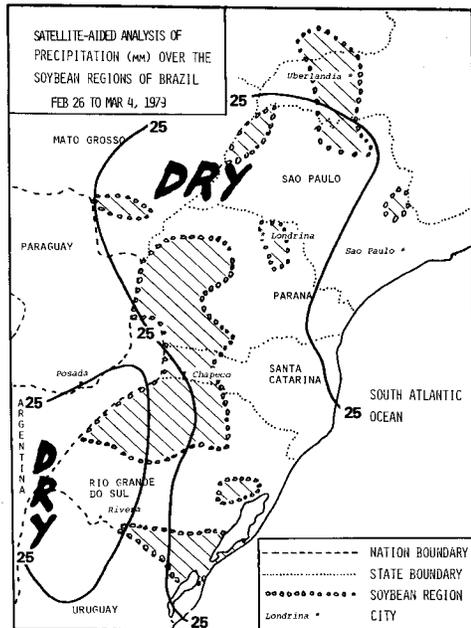
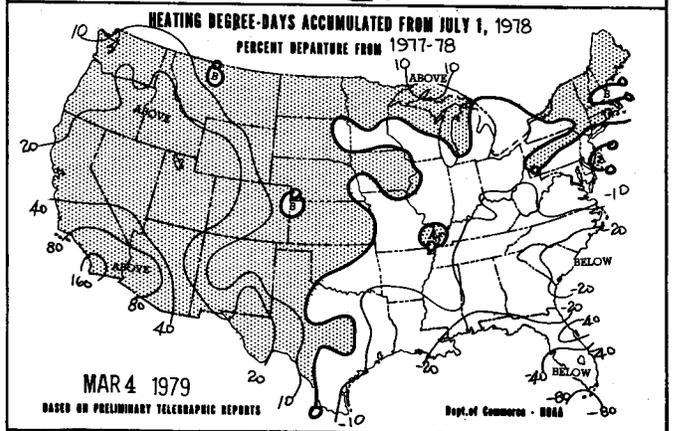
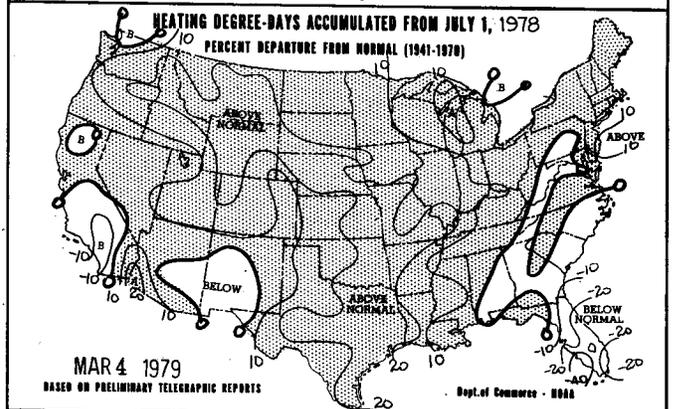
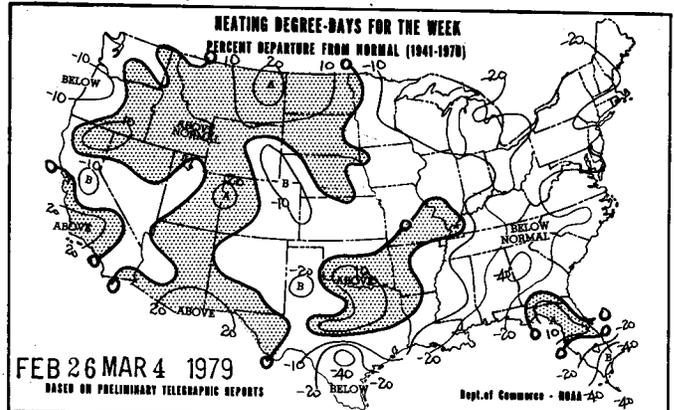
(continued from page 9)

INDIA. Rainfall over India continued seasonally light with scattered rains of 10 to 15 mm over the far northern States and the southern third of the country.

AFRICA. Rainfall continued over the northern wheat-growing areas in Morocco and Tunisia, but amounts were generally lighter than the previous two weeks. Overall, soil moisture in these areas should be much better than usual. However, South Africa's rainfall diminished again over the Maize Triangle after some reasonable rains the previous week. The maize crop already has been seriously reduced by the drought, and the crop continues to deteriorate.

EUROPE. Precipitation fell very lightly across most of western and eastern Europe. The major exceptions were France, Belgium, and the Netherlands where 10 to 30 mm fell. Amounts in other areas were generally less than 5 mm. A general snowcover continues over the northern portions of eastern Europe, but depths are steadily dropping. Southern Europe is snow-free except in the mountain areas.

SOUTH AMERICA. In comparison to the weather of the past three weeks, moisture was generally light over the major corn and soybean areas of Brazil. Except for southern portions of Rio Grande do Sul, where 15 to 20 mm fell, amounts failed to reach 10 mm. This should have provided good harvesting conditions in the northern areas, and the warmth and sunshine should help later southern area fields recover from the effects of the dryness in January. This week USDA reduced its forecast for the Brazilian soybean crop with a new estimate of 10.5 to 11.5 million metric tons but the potential recovery because of the rains remains an important question. With the rainfall amounts already received, soil moisture should be adequate to carry the crop through to maturity, although late-planted fields would benefit from one or two more good rains during the pod filling period.



HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING MAR. 4, 1979.

STATES AND STATIONS	WEEKLY			SEASONAL ACCUMULATION +			STATES AND STATIONS	WEEKLY			SEASONAL ACCUMULATION +							
	TOTAL	DEPARTURE*	DEPARTURE FROM 1977-78	TOTAL	DEPARTURE*	DEPARTURE FROM 1977-78		TOTAL	DEPARTURE*	DEPARTURE FROM 1977-78	TOTAL	DEPARTURE*	DEPARTURE FROM 1977-78					
ALA. BIRMINGHAM...	80	34	2435	52	514	514	MAINE CARIBOU...	278	56	7154	110	129	OKLA. OKLAHOMA CITY...	152	44	5620	225	249
MOBILE...	57	32	1468	162	387	387	PORTLAND...	226	49	5679	213	41	TULSA...	152	44	5620	598	15
MONTGOMERY...	57	32	1774	162	387	387	MD. BALTIMORE...	149	42	3737	39	223	OREG. ASTORIA...	143	44	3911	49	49
ARIZ. FLAGSTAFF...	253	22	5389	258	1115	1115	MASS. BOSTON...	193	29	4399	224	214	BURNS...	156	44	3911	49	49
PHOENIX...	17	17	1295	44	504	504	MICH. ALPENA...	200	5	6123	15	225	DEFORD...	156	44	3911	49	49
TUCSON...	17	17	1566	97	504	504	FLINT...	200	5	6123	15	225	PENLEYTON...	156	44	3911	49	49
WINSLON...	16	16	1917	199	541	541	GRAND RAPIDS...	200	5	6123	15	225	PORTLAND...	156	44	3911	49	49
YUMA...	16	16	1098	199	541	541	HOUGHTON LAKE...	200	5	6123	15	225	SALEM...	156	44	3911	49	49
ARK. FORT SMITH...	142	48	3422	630	65	65	LANSING...	200	5	6123	15	225	PA. ALLENTOWN...	177	44	3911	175	175
LITTLE ROCK...	132	48	3128	328	63	63	MARQUETTE...	200	5	6123	15	225	ERIE...	177	44	3911	175	175
CALIF. BAKERSFIELD...	91	48	1610	187	637	637	MUSKOGON...	200	5	6123	15	225	HARRISBURG...	177	44	3911	175	175
EUREKA...	114	48	3291	209	533	533	S. STE. MARIE...	200	5	6123	15	225	PHILADELPHIA...	177	44	3911	175	175
FRESNO...	104	48	2051	65	508	508	MINN. DULUTH...	208	40	7743	55	148	PIATTSBURGH...	196	44	5215	434	80
LOS ANGELES...	104	48	1157	101	555	555	INTERNATL FALLS...	208	40	7743	55	148	SCRANTON...	196	44	4720	315	46
RED BLUFF...	104	48	1983	101	555	555	MINNEAPOLIS...	208	40	7743	55	148	R.I. PROVIDENCE...	196	44	4720	315	46
SAN DIEGO...	104	48	2924	101	555	555	ROCHESTER...	208	40	7743	55	148	S.C. CHARLESTON...	74	17	1682	141	431
SAN FRANCISCO...	92	1	1821	101	555	555	ST. CLOUD...	208	40	7743	55	148	COLUMBIA...	74	17	2056	148	738
STOCKTON...	84	1	2211	26	613	613	MISS. JACKSON...	91	12	2184	224	413	GREENVILLE...	101	29	2718	105	291
COLO. DENVER...	198	19	4940	526	551	551	MERIDIAN...	83	12	2241	198	202	S. DAK. ABERDEEN...	339	24	7542	939	17
GRAND JUNCTION...	234	48	5417	997	1432	1432	MO. COLUMBIA...	189	10	4587	569	128	HURON...	300	1	7162	975	17
PUEBLO...	184	13	4894	744	504	504	KANSAS CITY...	199	10	4587	569	128	RAPID CITY...	274	19	6443	1034	179
CONN. BRIDGEPORT...	83	38	4110	111	88	88	ST. LOUIS...	199	10	4587	569	128	STOUX FALLS...	70	70	6938	913	19
HARTFORD...	200	48	5218	410	306	306	SPRINGFIELD...	181	10	4587	569	128	TENN. CHATTANOOGA...	100	38	2873	11	488
DEL. WILMINGTON...	162	36	4007	190	408	408	MONT. BILLINGS...	276	27	6701	1375	312	KNOXVILLE...	106	38	3038	185	414
D.C. WASHINGTON...	136	38	3270	85	234	234	GLASGOW...	276	27	6701	1375	312	MEMPHIS...	118	19	3125	134	196
FLA. APALACHICOLA...	57	1219	31	467	467	GREAT FALLS...	276	27	6701	1375	312	NASHVILLE...	118	19	3125	134	196	
DAVONA BEACH...	16	227	210	481	481	HAYRE...	276	27	6701	1375	312	TEXAS. ABILENE...	89	13	2551	353	99	
FORT MYERS...	16	194	383	251	383	HELENA...	276	27	6701	1375	312	AMARILLO...	89	13	3824	24	145	
JACKSONVILLE...	16	156	1357	198	251	251	KALISPELL...	276	27	6701	1375	312	AUSTIN...	89	13	1915	40	27
KEY WEST...	2	2	39	179	179	HELENA...	276	27	6701	1375	312	BEAUMONT...	89	13	1485	16	169	
LAKELAND...	1	1	494	110	358	358	MILES CITY...	276	27	6701	1375	312	BROWNSVILLE...	89	13	1676	17	148
MIAMI...	1	1	146	110	358	358	MISSOULA...	276	27	6701	1375	312	CORPUS CHRISTI...	89	13	1010	23	153
ORLANDO...	1	1	439	110	358	358	NEBR. GRAND ISLAND...	249	21	6142	504	504	DEL RIO...	89	13	1010	23	153
TALLAHASSEE...	1	1	439	110	358	358	LINCOLN...	249	21	6142	504	504	EL PASO...	89	13	1010	23	153
TAMPA...	1	1	439	110	358	358	NORFOLK...	249	21	6142	504	504	FORT WORTH...	89	13	1010	23	153
NEST PALM BEACH...	1	1	439	110	358	358	NORTH PLATE...	249	21	6142	504	504	GALVESTON...	89	13	1010	23	153
GA. ATLANTA...	73	132	2420	132	566	566	OHAMA...	249	21	6142	504	504	HOUSTON...	89	13	1010	23	153
AUGUSTA...	89	132	1919	110	469	469	VALENTINE...	249	21	6142	504	504	LUBBOCK...	89	13	1010	23	153
Macon...	89	132	1567	110	469	469	NEV. ELY...	246	21	6017	483	1125	MIDLAND...	89	13	1010	23	153
SAVANNAH...	70	110	1567	110	469	469	LAS VEGAS...	246	21	6017	483	1125	SAN ANGELO...	89	13	1010	23	153
IDAHO. BOISE...	195	9	5055	683	1188	1188	RENO...	246	21	6017	483	1125	SAN ANTONIO...	89	13	1010	23	153
LEHISTON...	145	9	4915	764	1430	1430	MINNEAPOLIS...	246	21	6017	483	1125	VICTORIA...	89	13	1010	23	153
POCATELLO...	145	9	5975	764	1430	1430	N. H. CONCORD...	208	62	5919	418	183	NACO...	89	13	1010	23	153
ILL. CAIRO...	159	108	3911	753	24	24	N. J. ATLANTIC CITY...	167	32	4182	404	98	NICHITA FALLS...	135	6	3080	644	56
CHICAGO...	199	108	5417	65	65	TRENTON...	163	38	3950	147	239	UTAH. SALT LAKE CITY...	198	3	4655	144	1108	
MOBILE...	199	108	5417	65	65	N. MEX. ALBUQUERQUE...	144	12	3364	82	195	VT. BURLINGTON...	231	66	6298	422	84	
SPRINGFIELD...	211	108	5076	696	184	184	ROSWELL...	144	12	3364	82	195	VA. LYNCHBURG...	143	28	3220	241	224
IND. EVANSVILLE...	161	42	5076	597	311	311	N. Y. ALBANY...	200	59	5509	366	231	NORFOLK...	143	28	3220	241	224
FORT WAYNE...	161	42	5076	597	311	311	BINGHAMTON...	200	59	5509	366	231	RICHMOND...	143	28	3220	241	224
INDIANAPOLIS...	161	42	5076	597	311	311	NEW YORK...	200	59	5509	366	231	ROANOKE...	143	28	3220	241	224
SOUTH BEND...	161	42	5076	597	311	311	ROCHESTER...	200	59	5509	366	231	WASH. GUILLAYUTE...	143	28	3220	241	224
IOWA. BURLINGTON...	132	57	5755	947	124	124	SYRACUSE...	195	66	5355	390	13	SEATTLE-TACOMA...	143	28	3220	241	224
DES MOINES...	132	57	5755	947	124	124	N. C. ASHEVILLE...	129	34	3263	81	533	SPOKANE...	143	28	3220	241	224
DUBUQUE...	132	57	5755	947	124	124	CHARLOTTE...	129	34	3263	81	533	HALLA HALLA...	143	28	3220	241	224
STOUX CITY...	132	57	5755	947	124	124	GREENSBORO...	129	34	3263	81	533	YAKIMA...	143	28	3220	241	224
KANS. CONCORDIA...	214	10	5230	842	108	108	HATTERAS...	119	31	2977	95	620	W. VA. BECKLEY...	143	28	3220	241	224
DODGE CITY...	178	10	4672	744	211	211	RALEIGH...	119	31	2977	95	620	CHARLESTON...	143	28	3220	241	224
GOODLAND...	178	10	5071	980	215	215	WILMINGTON...	92	13	1901	135	557	HUNTINGTON...	143	28	3220	241	224
TOPERA...	178	10	5071	980	215	215	N. DAK. BISHARCK...	383	54	7945	1073	278	PARKERSBURG...	143	28	3220	241	224
NICHITA...	168	10	4582	835	221	221	FARGO...	383	54	7945	1073	278	WIS. GREEN BAY...	143	28	3220	241	224
KY. LEXINGTON...	146	40	4092	347	439	439	HILLISTON...	377	51	8030	1091	120	LACROSSE...	143	28	3220	241	224
LOUISVILLE...	145	39	3875	185	439	439	OHIO. AKRON-CANTON...	187	49	4992	519	561	MADISON...	143	28	3220	241	224
LA. BATON ROUGE...	57	10	1588	122	306	306	CINCINNATI...	177	49	4697	469	389	WYOM. CASPER...	143	28	3220	241	224
LAKE CHARLES...	54	9	1573	265	429	429	CLEVELAND...	177	49	4697	469	389	CHEYENNE...	143	28	3220	241	224
NEW ORLEANS...	40	21	1325	45	429	429	COLUMBUS...	177	49	4697	469	389	LANDER...	143	28	3220	241	224
SHREVEPORT...	91	3	2200	345	454	454	DAYTON...	177	49	4697	469	389	SHERIDAN...	143	28	3220	241	224

BASED ON 1941-70 NORMALS.

+ ACCUMULATION FROM JULY 1, 1978.



FIRST CLASS MAIL

