

WEEKLY WEATHER AND CROP BULLETIN

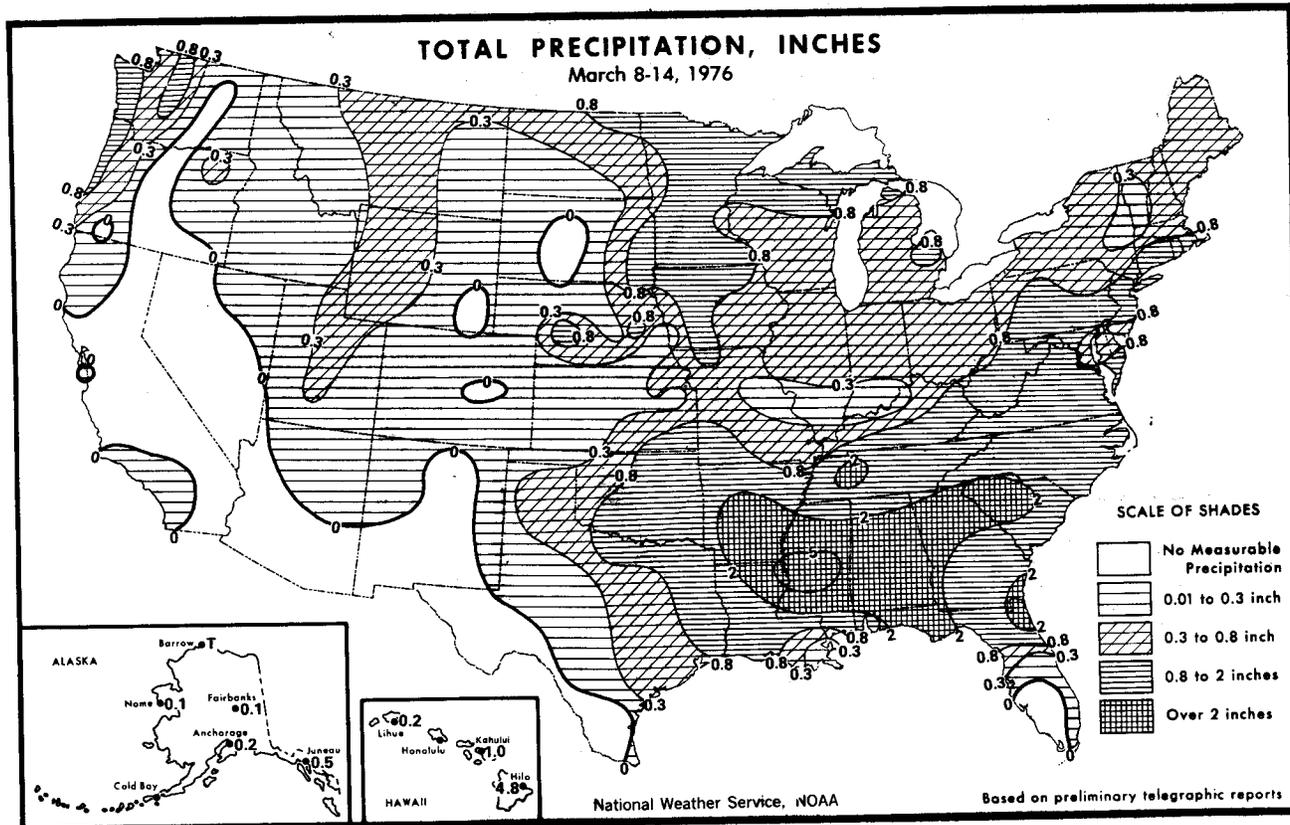
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National Weather Summary

For the week of March 8-14

HIGHLIGHTS: Heavy precipitation fell in the mid-South during the week. Some areas in Mississippi reported in excess of 5 inches of rain. Most of this was accompanied by thunderstorms and several tornadoes were reported. From the southeastern Plains to the southern Mississippi Valley, east to the Atlantic Coast and north to southern New England over 1 inch of precipitation was totaled during the week. Lighter amounts of rain or snow fell over most of the rest of the Country. Precipitation over the winter wheat country, western Kansas and Oklahoma and the Texas Panhandle, was spotty and only light amounts were recorded. Average temperature departures from normal were moderate over most of the Country.

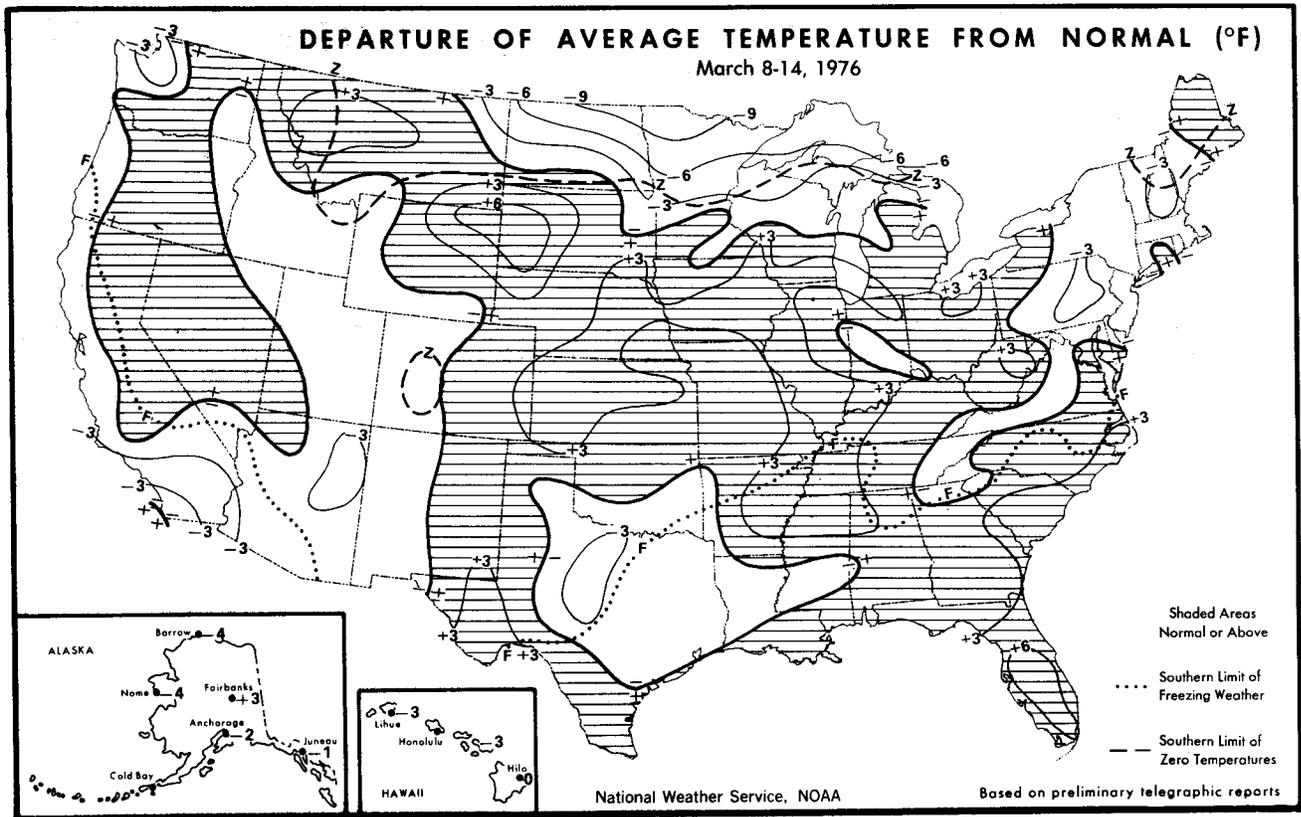
A variety of widespread precipitation highlighted the national weather map at the beginning of the week. In the colder northern air, snow fell on Monday morning from southeast Colorado across

northern Kansas into southern Nebraska and portions of the Texas Panhandle.

Around midday thunderstorms came to life along the central Gulf Coast, focusing heaviest rains on southwest and central Mississippi where Jackson measured 2 1/2 inches. Responsible for the deluge was a low pressure center over central Louisiana that moved slowly northeastward producing rain and drizzle from southeast Kansas and northeast Oklahoma into the lower half of the Mississippi Valley. Many showers and thunderstorms then cut a path to the southern half of the Atlantic Coast.

Rising rivers testified to the storm activity in Arkansas and southern Oklahoma. Three tornadoes erupted when thunderstorms passed through southeast Texas. One twister that struck south of Houston caused extensive damage and several injuries.

Meantime, mostly clear skies favored the western U.S., except Pacific coastal areas. A few rain-showers with snow turned up in higher elevations



over northern California and southwest Oregon.

Lazily moving northward, the coastal storm system trailed wet weather across the Atlantic Coast States on Tuesday. Rain persisted from southern Missouri and northern Arkansas into the Carolinas and north along the Coast.

Inclement conditions at midday included snow from the Washington, D.C. area northward into New York and the central Appalachians. Southward, rainfall extended from Virginia through the Carolinas; a few showers and thundershowers appeared over Georgia, Florida, Tennessee, and Kentucky.

During the day, the storm center advanced through the Carolinas, piling heavy snow over portions of Maryland, Virginia, Delaware, and Pennsylvania. By evening, significant snowfall blanketed a number of major eastern cities: Baltimore, Md., 8 inches; Providence, R.I., 7 inches; and Philadelphia, Pa., 6 inches.

Only flurries remained in New York, Pennsylvania, and southern New England on Wednesday when the storm finally moved out to sea.

As the coastal system departed, however, another storm was brewing in the central Rockies. Forecasters put portions of Wyoming and Colorado on the lookout for severe weather.

Most precipitation on Wednesday occurred as snow over the Great Lakes region and rain from the lower lakes into Ohio and middle Mississippi Valleys. Daytime temperatures in the mid-30's prevailed along the mid-Atlantic Coast into southern New England.

Gathering strength overnight, the low pressure over Montana shifted southeastward. Light snow drifted into North Dakota. In the Northeast, a cold front carried rain and snow showers from New Hampshire and Vermont across New York and from Pennsylvania into Ohio and West Virginia.

Gusty winds, falling temperatures, and snow accompanied Thursday's winter storm as it moved into northeast North Dakota. Snowfall encompassed northern sections of the Rockies and the Plains into the upper Great Lakes region. Thunderstorms --some locally heavy--along with showers developed during the day from central Texas northward into the central Plains and middle Mississippi Valley.

As the day progressed, wind gusts to 50 mph created blizzard conditions in North Dakota where drifting and blowing snow sharply lowered visibilities and temperatures.

The dangerous March snowstorm was trampling the upper midwest early Friday. Blizzard warnings were posted in Minnesota and Wisconsin during the day and into Michigan by night. Wind gusted to 60 mph in eastern Nebraska and blowing dust was reported from southwest Kansas into eastern Nebraska. The storm, moving eastward, produced thunderstorms and some tornado activity in Illinois and Indiana. Scattered showers and some thunderstorms continued from Mississippi to the Carolinas. Freeze warnings were posted for northern Arkansas and much of Oklahoma.

By Saturday morning, the heavy snow had moved into New England as skies began to clear over Wisconsin. Flooding was reported from the Mississippi Valley through the Southeast due to heavy thunderstorms. Freeze warnings were posted for the mountains of western Maryland and North Carolina as the cold air replaced the unseasonable warm air that had prevailed.

As one storm moved out of the Nation in the East, another moved into the Pacific Northwest on Sunday, repeating the earlier cycle. The rapidly moving system reached the Colorado mountains late in the day and began to repeat the snow and high wind occurrences. Periodic rain and showers continued throughout most of the Gulf Coast region.

National Agricultural Summary

For the week of March 8-14

HIGHLIGHTS: Recent rains in the central and southern Great Plains boosted winter wheat prospects, but the crop still needs more precipitation. Rains in the Corn Belt and the Southeast slowed plowing, however, land preparation generally is ahead of normal. Low temperatures endangered fruit blooms although only minimal freeze damage resulted. Rangelands and pastures greened in many areas, providing limited new grazing.

SMALL GRAINS: The winter wheat growth rate increased responding to varying levels of precipitation throughout major production areas. Light rains fell in the western portions of the Southern Great Plains with greater amounts farther east in the Plains.

In Kansas, wheat responded to the limited moisture in western areas, but more rain is badly needed. Wind erosion caused light damage in the western third of the State. Cutworm infestations were spotted across Kansas; greenbugs were restricted to central and south central areas; some winterkill was observed.

In Oklahoma, wheat was poor to fair in the Panhandle and north central areas where only light rain fell. Elsewhere, the condition was fair to good. Greenbug populations were heavy in west central and north central areas and rains hampered spray applications. A small acreage of wheat advanced to the jointing stage as recent rains increased the growth rate.

In Texas, light precipitation revived some dryland wheat and the crop in the High and Low Plains showed moderate improvement. From the Low Plains to East Texas, moderate to heavy rains produced good growth. Early wheat stands were in the joint to early boot stage in south and south central areas. Greenbug problems required control measures in most localities.

In the Mountain States, Colorado, Wyoming, and Montana, limited wind damage occurred. Precipitation provided little benefit because some of the crop remained dormant. The New Mexico dryland wheat was poor but irrigated stands were fair to good. In Arizona some of the crop was heading.

Washington winter wheat made slow growth and sustained only minimal winter damage. Winter wheat was good in the East North Central and South Atlantic States.

OTHER CROPS: Rain interrupted corn planting in the Southern States. The crop was 6% planted in Mississippi to 10% in Louisiana. In Texas, corn planting was 10% complete, compared with 28% last year and the 14% average. Early stands in the Lower Rio Grande Valley made good growth. Very little acreage was planted from South Carolina to Florida.

In Texas, the sorghum crop was 25 percent planted. Last year and normally 22% is planted by this time. Early stands made excellent growth in the Lower Rio Grande Valley, Coastal Bend, and the Upper Gulf Coast. Rain stopped planting temporarily in the Blacklands and south central Texas.

The Texas cotton crop was 5% planted which put it on the same schedule as last year and ahead of the three year average of 1%. Early stands grew well in the Lower Rio Grande Valley and Coastal Bend. Elsewhere, planting moisture was adequate but growers were waiting for higher soil temperatures. In Arizona, seedbed preparation

continued and only a few cotton fields were planted. A few cotton fields were planted in the California desert areas.

Tobacco transplanting was underway in Florida, Georgia, and South Carolina. In Virginia, Tennessee, and Kentucky growers seeded plant beds.

Sugarcane harvest neared completion in Florida. Louisiana sugarcane was growing very well. In Arizona sugarbeets made satisfactory growth but disease caused some problems. In Washington growers were seeding sugarbeets.

VEGETABLES: Shipments of vegetables from Florida gained 6%. Good growing conditions helped increase supplies of cabbage, snap beans, radishes, and potatoes. Supplies of celery, Chinese cabbage, carrots, cucumbers, eggplant, escarole, lettuce, squash, and strawberries were steady. Shipments of sweet corn, green peppers, and tomatoes declined. Stepped-up spray programs controlled diseases. Spring crop plantings were almost complete. Watermelon vines measured up to three feet. In the Charleston-Beaufort area of South Carolina, growers set tomatoes, planted cucumbers and snap beans, and cultivated cabbage.

In Texas, onions were harvested in the Lower Rio Grande Valley and San Antonio-Winter Garden. Onions were planted in East Texas, Trans-Pecos and High Plains. Watermelon and other melon crop planting was finished, except in Central Texas where field condition caused delays.

Lettuce harvest produced seasonal volume from Arizona. In California, land preparation and some tomato planting began in northern areas. Summer vegetable planting advanced in southern areas. Winter vegetable harvest wound down while spring vegetable production gained momentum. Light volume of strawberries moved out of Louisiana. Early vegetable seeding began in New Jersey.

FRUITS AND NUTS: Orchardists pruned fruit trees in northern production areas. Very little freeze damage occurred to fruit blooms, except there was some "thinning." Peaches bloomed across the South. In Texas, some peach trees shed petals. Texas pecans began budding but most trees remained dormant. In Utah, apricots and plums in full bloom were thinned by recent frost. In California, heating equipment and wind machines were used in orchards to protect trees in various bloom stages. Grape buds swelled.

In Arizona, lemon harvest was nearly complete in the Yuma Valley and winding down in the Salt River Valley. Only a few grapefruit were moving to market. Florida citrus groves were good to excellent and irrigation supplemented inadequate rainfall. Trees bloomed and orange harvest slowed.

PASTURE AND LIVESTOCK: Pastures greened in the South Atlantic and South Central States, but cold weather slowed growth in some areas, resulting in some overgrazing. New Mexico and Arizona rangelands were good. In the Pacific Coast States, grasslands improved but California needs more rain. Elsewhere pastures were dormant. Calving and lambing were 60% complete in southern areas and 25% in northern localities. A major storm created difficult conditions for newborn animals but no unusual losses were encountered. Livestock were in fair to good condition but needed supplemental hay and feed.

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

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 . . .	55	+3	2.6	+1.2	La. Baton Rouge . . .	60	+2	.8	-.4	Youngstown . . .	35	+2	.5	-.2
Mobile . . .	60	+2	1.5	-.1	Lake Charles . . .	59	0	1.0	+ .1	OKLA. Okla. City . . .	47	+1	1.2	+ .8
Montgomery . . .	56	+1	2.6	+1.2	New Orleans . . .	61	+2	.2	-1.1	Tulsa . . .	47	+1	1.7	+1.2
ALASKA Anchorage . . .	20	-2	.2	+ .1	Shreveport . . .	53	-2	1.6	+ .7	OREG. Astoria . . .	44	0	1.4	-.2
Barrow . . .	-21	-4	T	0	MAINE Caribou . . .	23	-2	.6	+ .1	Burns . . .	36	+1	T	-.2
Fairbanks . . .	10	+3	.1	0	Portland . . .	28	-2	.7	-.1	Medford . . .	44	0	T	-.4
Juneau . . .	30	-1	.5	-.3	MD. Baltimore . . .	41	0	.6	-.2	Pendleton . . .	43	0	.3	+ .1
Kodiak . . .	-	-	-	-	MASS. Boston . . .	35	-1	.7	-.2	Portland . . .	45	0	.8	-.1
Nome . . .	2	-4	.1	-.1	Chatham . . .	33	-	1.4	-	Salem . . .	43	-2	1.4	-.7
ARIZ. Flagstaff . . .	33	0	.1	-.3	MICH. Alpena . . .	24	0	.6	+ .2	PA. Allentown . . .	33	-3	1.4	+ .6
Phoenix . . .	57	-2	T	-.2	Detroit . . .	35	+2	.4	-.1	Erie . . .	32	+1	1.6	0
Tucson . . .	55	-1	0	-.1	Flint . . .	32	+2	.8	+ .4	Harrisburg . . .	36	-3	1.1	+ .4
Winslow . . .	40	-3	.1	0	Grand Rapids . . .	31	0	.7	+ .2	Philadelphia . . .	38	-2	1.5	+ .7
Yuma . . .	59	-4	0	-.1	Houghton Lake . . .	25	+1	.5	+ .1	Pittsburgh . . .	36	0	.9	+ .1
ARK. Fort Smith . . .	47	-1	1.6	+ .8	Lansing . . .	31	0	.7	+ .2	Scranton . . .	32	-2	.5	-.1
Little Rock . . .	52	+4	2.4	+1.3	Marquette . . .	22	-3	1.1	+ .7	R.I. Providence . . .	33	-2	1.3	+ .4
CALIF. Bakersfield . . .	58	+2	0	-.2	Muskegon . . .	32	+1	.7	+ .2	S.C. Charleston . . .	60	+5	1.1	0
Eureka . . .	46	-2	.1	-1.1	S. Ste. Marie . . .	15	-7	.8	+ .4	Columbia . . .	57	+4	2.0	+ .9
Fresno . . .	53	0	0	-.4	MINN. Duluth . . .	16	-5	1.2	+ .8	Greenville . . .	48	-1	2.2	+1.0
Los Angeles . . .	54	-5	.2	-.3	Internat'l Falls . . .	9	-9	1.1	+ .9	S.D. Aberdeen . . .	25	+1	.2	0
Red Bluff . . .	53	+1	T	-.6	Minneapolis . . .	26	+1	.6	+ .2	Huron . . .	26	0	.3	+ .1
San Diego . . .	58	0	T	-.4	Rochester . . .	25	0	1.0	+ .6	Rapid City . . .	38	+9	.1	-.1
San Francisco . . .	51	-2	T	-.6	St. Cloud . . .	20	-3	.8	+ .5	Sioux Falls . . .	30	+3	1.0	+ .7
Stockton . . .	52	0	0	-.5	MISS. Jackson . . .	55	0	5.5	+4.2	TENN. Chattanooga . . .	48	-0	1.2	+ .1
COLO. Denver . . .	37	+2	.1	-.2	Meridian . . .	54	-1	3.7	+2.3	Knoxville . . .	46	-2	1.7	+ .6
Grand Junction . . .	38	-2	.1	0	MO. Columbia . . .	41	+2	.1	-.4	Memphis . . .	53	+4	1.7	+ .6
Pueblo . . .	39	+1	T	-.1	Kansas City . . .	41	+2	.4	-.1	Nashville . . .	49	+2	1.2	0
CONN. Bridgeport . . .	35	-1	1.8	+1.0	St. Louis . . .	44	+3	.3	-.3	TEX. Abilene . . .	50	-3	.1	-.1
Hartford . . .	34	0	.9	+ .1	Springfield . . .	44	+2	.8	+ .2	Amarillo . . .	44	0	.6	+ .5
D.C. Washington . . .	44	+1	.6	-.2	MONT. Billings . . .	31	0	.5	+ .3	Austin . . .	56	-2	.3	-.1
FLA. Apalachicola . . .	61	+1	2.7	+1.6	Glasgow . . .	24	+2	.1	0	Beaumont . . .	58	-1	1.1	+ .4
Daytona Beach . . .	67	+4	.9	+ .1	Great Falls . . .	32	+3	.3	+ .1	Brownsville . . .	68	+1	.1	0
Ft. Myers . . .	73	+5	0	-.7	Havre . . .	26	+2	.4	+ .3	Corpus Christi . . .	65	+1	T	-.2
Jacksonville . . .	63	+3	2.1	+1.3	Helena . . .	32	+3	.1	0	Dallas . . .	-	-	T	-.1
Key West . . .	78	+4	0	-.3	Kalispell . . .	32	+3	.1	-.1	Del Rio . . .	64	+3	.2	-.1
Lakeland . . .	72	+7	0	-1.0	Miles City . . .	30	+2	.2	+ .1	El Paso . . .	51	-2	.7	-.1
Miami . . .	77	+6	.1	-.3	Missoula . . .	36	+4	.1	0	Fort Worth . . .	51	-2	.6	+ .1
Orlando . . .	71	+6	.1	-.7	NEBR. Grand Island . . .	36	+3	.2	0	Galveston . . .	60	-0	.5	-.1
Tallahassee . . .	61	+2	1.8	+ .4	Lincoln . . .	35	+1	.1	-.2	Houston . . .	57	-2	.5	-.1
Tampa . . .	71	+6	.3	-.6	Norfolk . . .	34	+4	.4	+ .1	Lubbock . . .	49	+2	T	0
W. Palm Beach . . .	74	+5	.2	-.6	N. Platte . . .	33	+1	1.7	+1.5	Midland . . .	55	+2	T	-.1
GA. Atlanta . . .	52	+2	2.6	+1.3	Omaha . . .	35	+3	.2	-.1	San Angelo . . .	52	-3	.1	-.1
Augusta . . .	58	+5	1.5	+ .4	Valentine . . .	30	+1	T	-.1	San Antonio . . .	59	0	.2	-.1
Macon . . .	57	+2	2.0	+ .8	NEV. Ely . . .	33	+1	T	-.2	Victoria . . .	60	-1	.7	+ .3
Savannah . . .	60	+3	1.1	0	Las Vegas . . .	52	-1	0	-.1	Waco . . .	54	-2	.5	0
HAWAII. Hilo . . .	71	0	4.8	+1.7	Reno . . .	40	+1	0	-.2	Wichita Falls . . .	49	-3	.9	+ .6
Honolulu . . .	-	-	-	-	Winnemucca . . .	38	+1	0	-.2	UTAH. Blanding . . .	35	-2	.1	-.1
Kahului . . .	69	-3	1.0	+ .3	N.H. Concord . . .	26	-4	.3	-.3	Salt Lake City . . .	36	-2	.6	+ .2
Lihue . . .	69	-3	.2	-.9	N.J. Atlantic City . . .	38	-1	.6	-.4	VT. Burlington . . .	26	-1	.3	-.1
IDAHO. Boise . . .	38	-2	.3	+ .1	Trenton . . .	37	-2	.9	0	VA. Lynchburg . . .	48	+1	1.3	+ .5
Lewiston . . .	41	-1	.1	-.1	N.MEX. Albuquerque . . .	42	-2	T	-.1	Norfolk . . .	43	-1	1.1	+ .3
Pocatello . . .	32	-2	.2	0	Roswell . . .	50	+2	0	-.1	Richmond . . .	45	0	1.3	+ .5
ILL. Cairo . . .	50	+4	.4	-.7	N.Y. Albany . . .	30	-1	.1	-.5	Ronoke . . .	44	0	1.5	+ .7
Chicago . . .	37	+2	.7	+ .1	Binghamton . . .	26	-3	.3	-.3	WASH. Colville . . .	36	0	T	-.2
Moline . . .	37	+4	.7	+ .2	Buffalo . . .	31	+1	.5	-.1	Osak . . .	38	+1	T	-.3
Peoria . . .	38	+3	.7	+ .1	New York . . .	38	-1	1.1	+ .2	Quillayute . . .	40	-2	1.2	-1.3
Rockford . . .	34	+2	.4	-.1	Rochester . . .	31	0	.4	-.2	Seattle-Tacoma . . .	40	-4	.4	-.5
Springfield . . .	40	+3	.5	0	Syracuse . . .	30	-1	.4	-.3	Spokane . . .	36	0	.1	-.3
IND. Evansville . . .	46	+4	.2	-.9	N.C. Asheville . . .	45	+1	1.3	+ .2	Walla Walla . . .	45	0	.1	-.2
Ft. Wayne . . .	37	+3	.4	-.2	Charlotte . . .	48	-1	1.2	+ .1	Yakima . . .	41	0	.1	0
Indianapolis . . .	38	0	.5	-.3	Greensboro . . .	47	+1	1.1	+ .3	W. Va. Beckley . . .	40	+2	1.0	0
South Bend . . .	36	+3	.6	0	Hatteras . . .	54	+5	.8	+ .1	Charleston . . .	44	+1	1.2	+ .3
IOWA. Burlington . . .	38	+3	.6	+ .1	Raleigh . . .	49	+2	1.1	+ .3	Huntington . . .	44	+2	.9	0
Des Moines . . .	35	+4	.4	-.1	Wilmingon . . .	56	+3	1.4	+ .4	Parkersburg . . .	42	+1	.7	-.1
Dubuque . . .	33	+3	.6	0	N.DAK. Bismarck . . .	22	0	.2	+ .1	WIS. Green Bay . . .	25	-1	.6	+ .2
Sioux City . . .	31	0	.6	+ .3	Fargo . . .	15	-6	.6	+ .5	La Crosse . . .	28	0	.6	+ .2
KANS. Concordia . . .	40	+3	.1	-.3	Williston . . .	17	-4	.3	+ .2	Madison . . .	32	+4	.6	+ .2
Dodge City . . .	43	+4	T	-.2	OHIO. Akron-Canton . . .	36	+2	.4	-.3	Milwaukee . . .	34	+5	.5	0
Goodland . . .	38	+4	T	-.2	Cincinnati . . .	39	-1	.5	-.4	WYO. Casper . . .	31	+2	.1	-.1
Topeka . . .	43	+4	.2	-.2	Cleveland . . .	39	+5	.4	-.3	Cheyenne . . .	28	-2	T	-.2
Wichita . . .	44	+2	.8	+ .4	Columbus . . .	39	+2	.3	-.5	Lander . . .	31	+1	.3	+ .1
KV. Lexington . . .	43	+1	.6	-.5	Dayton . . .	39	+2	.5	-.2	Sheridan . . .	32	+3	.2	0
Louisville . . .	45	+3	.3	-.9	Toledo . . .	35	+1	.7	+ .1	P.R. San Juan . . .	77	+1	.5	+ .1

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State Summaries of Weather and Agriculture

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

ALABAMA: Variable temperatures and abundant rainfall. Temperatures near normal. Rainfall 1.00 in. or more.

Fieldwork ahead of schedule. Corn planting south delayed by rain wet grounds. Irish potato planting Sand Mountain area. Peaches full bloom. Small grains fair to good. Pastures fair, supplying limited grazing. Livestock fair.

ARIZONA: Scattered light showers central mountains, 5 in. snowfall higher elevations. Temperatures 1 to 6° below normal.

Field preparations for cotton continue, some planting. Planting wheat complete. Established fields accelerated growth, head development. Insect problems southern areas. Barley fields advanced maturity. Sugarbeets satisfactory progress. Disease symptoms persist. Lettuce harvest seasonal volume west. Lemon harvest virtually complete Yuma winding down Salt River Valley. Few grapefruit moving. Ranges low midelevations good condition. Water supplies normal. Cattle, calves improving. Shipments slaughter lambs increasing.

ARKANSAS: Ample rainfall near normal temperatures. Rainfall ranged from 0.89 to 4.79 in. Temperatures showed considerable variation, but means near normal. Extremes: 80 and 25°.

Fieldwork slowed due to rains. Winter pastures and small grains made excellent growth. Winter feeding of livestock decreased. No freeze damage to peaches.

CALIFORNIA: Scattered light precipitation on 8th northern mountains and north coast on 9th and 10th south coast and in extreme northwest coast over weekend. Warming most areas by weekend. Highs mostly 60's central valley, inland coastal valleys, and south coast, and 70's low southeast deserts. Lows near 32° beginning of week sections central valley and at times in coastal valleys, otherwise above freezing low valleys. Averages near normal or slightly below most areas.

Small grains need moisture but most growing well at present. Early fields heading out southern half State. Cotton planting started desert. Baling alfalfa continues desert, some green chop San Joaquin Valley. Some orchard heater, wind machine use, orchards, central valley. Deciduous trees various stages bloom. Fungicide, herbicide applications, discing, spraying continues. Grape buds swelling, bloom expected soon. Increased drop navels. Lemon harvest activity continues. Main vegetable activities north--ground preparation, some tomato planting. Activities south--summer vegetable planting. Winter vegetables winding down, spring vegetables gaining momentum. Rangeland improved. More rain needed. Supplemental feeding high, forage short. Cattle losing weight, stock water short.

COLORADO: Temperatures near normal beginning week. Moved up to 50's and 60's Plains, 30° and 40° mountains midweek. Fast moving cold front 11th dumped 12 in. snow mountains, 2 in. lower elevations. Strong winds in excess of 70 mph lashed eastern portion of State evening of 11th and on 12th. Temperatures dropped 20° below normal. Weekend temperatures returned to normal.

Except for early week fieldwork. Farm activities slow during storm period. No major problems

from storm. Limited damage to winter wheat from wind. Precipitation of little benefit to crops.

FLORIDA: Mild. Few showers, thundershowers. Temperatures above normal. Rainfall light to moderate 0.25 to 0.50 in. isolated areas 1.00 in.

Soil moisture mostly adequate south, west, short north, central. Scattered showers beneficial many areas. Corn, tobacco being planted. Land preparation active. Small grains good. Sugarcane harvest nearing completion. Young cane good. Grazing conditions improving western, central areas. Pastures greening up, putting on new growth many areas. Pastures in south poor, moisture short. Cattle and calves fair. Supplemental feeding continues. Citrus tree condition very good to excellent. Rain needed. Irrigation continues. Open bloom all areas. Orange harvest continues to slow. Vegetable harvest gained 6%. Good growing conditions. Supplies increased for cabbage, snap beans, radishes and potatoes. Crops holding steady celery, chinese cabbage, carrots, cucumbers, eggplant, escarole, lettuce, squash and strawberries. Crops declining in shipments were sweet corn, green peppers and tomatoes. Some disease, controlled with spray programs. Plantings spring crops complete. Watermelons good, vines to three feet long.

GEORGIA: Temperatures 50° extreme north to mid-60's extreme south, 2° above average north and 4 to 6° above south. Rainfall 1.00 to 2.00 in. north and west, less than 0.50 in. elsewhere. March 13th and 14th cool north mild south and rainy most sections.

Soil moisture short south to surplus north. Land preparation ahead average. Some corn planted south. Small grains good topdressing complete north, 50% north. Pastures cattle fair to good, some pasture overgrazed. Tobacco plants good condition transplanting underway.

HAWAII: Weather wet cool and cloudy. Temperatures dropped to mid-50's slowing crop progress. Rains heavier on island of Hawaii and Maui.

Spraying frequent to control insect and disease. Vegetable supplies light. Banana, papaya, pineapple harvesting light. Sugar harvest getting active. Cool weather slowing grass growth high elevation.

IDAHO: Precipitation below normal. Many areas received no measurable amount. Temperatures near to slightly below normal north, 4 to 7° below normal southwest and 5 to 14° below normal southeast. Extremes: 59° to below zero.

ILLINOIS: Temperatures mostly 3 to 5° above normal cooler southwest. Precipitation less than 0.25 in. south, 0.75 in. north; heaviest after midweek severe storms north.

Winter wheat mostly good, some greening; other small grains and legumes good. Livestock satisfactory. Soil moisture mostly adequate. Main activities: repairs, buying supplies, fertilizing, plowing, discing, seeding clover.

INDIANA: Damaging high winds 12th west central north. Rainfall 0.30 to 0.70 in. most in north.

Temperatures above normal ranged from 16° weekend southeast to 67° southwest on 12th.

Spring work slowed. Disking, fertilizing and seeding oats main activities. Some plowing on sandy soils or sod. Greening up continues.

IOWA: Temperatures normal to 3° above normal. Rains 11th followed by light snow strong northwest winds Friday. Precipitation 0.25 in. southwest to 1.50 in. north central.

Farm activities livestock care, readying equipment for spring fieldwork.

KANSAS: Moisture ranging from 0.10 in. west central and northwest to over 0.90 in. southeast. Temperatures from 40° northwest to 46° southeast or from 2° to 4° above normal east and south to 6° above normal northwest. Strong, gusty winds 45 to 60 mph occurred Friday, blowing dust reducing visibility to from 2 to 5 mi. locally west.

Wheat benefited from limited moisture greened up in west. More moisture badly needed. Wind erosion western third. Damage to wheat light. Cutworms across State, greenbugs central and south central areas. Soil-borne mosaic in central and south central. Some winterkill.

KENTUCKY: Near normal temperatures through midweek turning colder late week. Precipitation recorded somewhere every day except 14th totaling 0.25 in. north central to more than 1.00 in. east.

Plowing ahead of normal. More pasture renovation than last year. Tobacco markets closed. Tobacco bed preparation and seeding active. Vegetative growth slowed by cool nights. Some "burning" of early growth but freeze losses limited mainly to fruit thinning. Cattle on supplemental feed, getting little spring grazing.

LOUISIANA: Temperatures 3° above normal. Cooler mid and late week. Extremes: 84 and 34°. Showers beginning and end of week; 2.00 to 3.00 in. north and central.

Soil moisture surplus extreme north and delta, adequate elsewhere. Days favorable for fieldwork: 1.0 north, 4.5 south, 2.8 statewide. Main activities: Opening drainage ditches, seedbed preparation, routine chores. Rice under 5% planted. Seedbed preparation continued. Corn less than 10% planted. Sugarcane growth fair to excellent. Weed control active. Topshaving continued. Strawberry harvest light. Irish potato stands good. Sweetpotato seed bedding continued. Small grains good. Pasture feed average. Cattle fair.

MARYLAND & DELAWARE: Temperatures near normal. Extremes: Low 80's to low 20's. Precipitation 0.43 to 1.54 in. Storm on 9th left snow most areas, melted next day.

Farmers topdressing, plowing, and spreading fertilizer and lime. Snow delayed operations a day or so. Cattle in good condition plenty of feed.

MICHIGAN: Temperatures near normal over Lower but 1 to 7° below normal over Upper. Cold through midweek warming weekend. Precipitation above normal averaging 0.62 in. over Lower and 1.20 in. over Upper. Major winter storm 11th, 12th brought heavy snow to Upper freezing rain and snow northern Lower and rain over southern Lower.

Many farms center of Lower Peninsula without power. Generators handled milking and other necessary activities. Feeding livestock, pruning fruit trees and farm chores main farm activities.

MINNESOTA: Cold with heavy snow. Temperatures 5 to 10° below normal north, near normal to 4° below south. Precipitation: 0.50 in. to 0.90 in. above the 0.30 in. normal north and 0.30 to 0.70 in. above the 0.40 in. normal south. New snow 7 to 19 in. north half with 1 to 3 in. south.

Livestock mostly good condition. Feed supplies adequate.

MISSISSIPPI: Temperatures 1 to 4° subnormal except coastal 2° above normal. Extremes: 87 and 29°. Greatest 24-hour rainfall 2.67 in. on 9th.

Soil moisture surplus to excessive north, adequate to surplus south. Fieldwork: 1.0 day suitable. Plowing 43% completed. Corn 6% and Irish potatoes 69% planted. Winter wheat 29% and oats 28% jointing. Winter wheat and oats fair to good. Livestock fair. Hay and roughage supplies short to adequate. Feed grain supplies short.

MISSOURI: Temperatures 1° above normal northwest prairie to 4° above bootheel, normal elsewhere. Precipitation 0.25 in. to 0.50 in. except for 1.00 in. or more west Ozarks.

Major farm activity livestock care.

MONTANA: Mild through 10th when storm caused colder temperatures, snow and strong winds. Snow ended 12th with scattered light amounts over weekend. Temperatures near normal to 3° above normal.

Winter wheat fair to good, mostly fair major growing areas. Soil moisture adequate except central and north central where short. Wind damage to winter wheat heavy sections of north central, moderate elsewhere. Some winter wheat starting to green. Calf and lamb loss due to weather normal. Nearly 25% calving and lambing complete. Shearing 25% done. Nearly all livestock on supplemental feed.

NEBRASKA: Temperatures above normal first half below normal later. Snow central and east greatest depth northeast. Strong winds accompanied storm.

Fieldwork started. Fieldwork: 2.0 days suitable. Topsoil moisture short 35%, adequate 64%, and surplus 1%. Subsoil moisture short 89%. Winter wheat fair. Some wind erosion high winds drier areas. Alfalfa and wild hay fair. Pasture and range short. Some cattle grazing stalk fields. Weather favorable for spring calving.

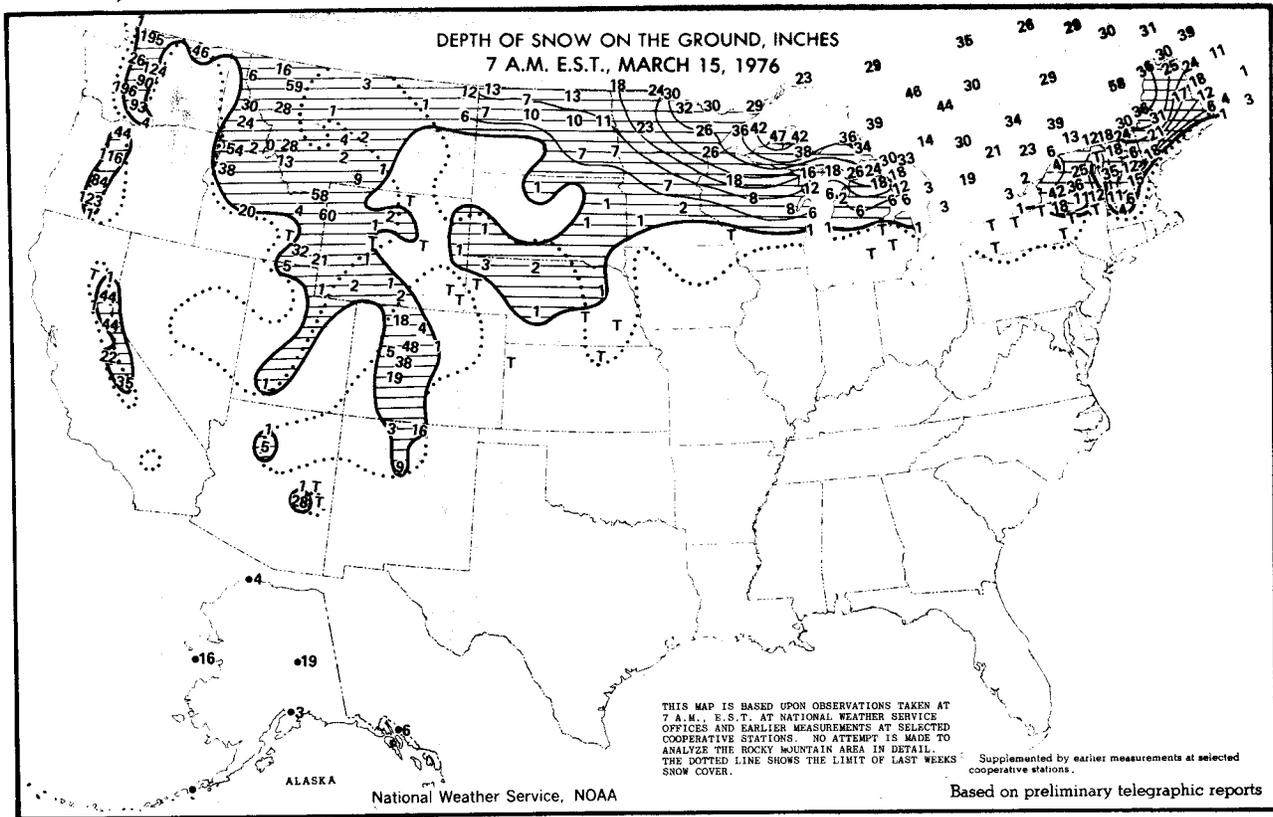
NEVADA: Precipitation Mountain City 0.26 in. Ely, trace. Temperatures near normal ranging -5 to 73°.

Livestock wintered well. Calving and lambing underway. Weather favorable for newly born animals.

NEW ENGLAND: Stormy 9th, southern areas 6 to 9 in. snow accumulated. Second unsettled period 10th and 11th. North and central 1 to 3 in. snow, western Mass., 4 in. Third and wettest period 12th and 13th. Snow changed to rain except northern Maine, 3 to 5 in. snow north. Temperatures fluctuated considerably, generally below normal, below zero readings northern Maine 8th.

NEW JERSEY: Temperatures 3° below normal. Extremes: 12 and 72°. Rainfall 1.37 in. north, 1.27 in. central and 0.82 in. south. Soil moisture, percent field capacity, close to 100%. Snow several days. Greatest weekly total 8.0 in., 5 to 7 in. other locations.

Fruit pruning, soil preparation and vegetable seeding continue as soil conditions permit.



NEW MEXICO: Shower activity mountains and north-east plains 8th and again mountains 11th, 12th. Amounts light and insignificant. Cooling Friday warming again weekend. Temperatures 2 to 6° above normal.

Soil moisture short all areas. Dryland wheat poor, irrigated wheat fair in east, good elsewhere. Durum wheat good. Barley good condition. Planting, irrigating, pruning continued with open weather. Ranges fair. Calving and lambing 60% complete. Shearing well advanced. Livestock fair.

NEW YORK: Temperatures near normal. Precipitation heavy St. Lawrence Valley, Adirondacks, extreme southeast, elsewhere near to below normal. Storm on 9th brought 4 in. snow extreme southeast. Elsewhere rapidly moving weather systems caused higher temperatures and frequent precipitation.

NORTH CAROLINA: Temperatures near normal west, 3 to 5° above normal east. Precipitation 1.00 in. Days suitable fieldwork: 3.2 soil moisture adequate. Small grains good. Pastures, tobacco plant beds, Irish potatoes fair to good. Irish potato planting half finished. Major farm activities: Land preparation, lime spreading, fertilizing, Irish potato planting.

NORTH DAKOTA: Temperatures 18° below normal north central to 1° below normal southwest. Extremes: 49 to -20°. Precipitation above normal 0.40 in. east central and north central to 0.02 in. west central. Scattered snow showers normal temperatures weekend.

Precipitation beneficial for fall sown crops, hay and moisture for spring planting. Storm conditions accompanying snow made calving and lambing difficult.

OHIO: Precipitation somewhere every day 9th to 13th. Snow 1 to 2 in. southeast 9th and 1 in. of snow northeast 13th. Windy 12th to 14th. Highs 40's north and central lower 50's south. Warming to 50's and 60's on 12th then colder again on 13th and 14th.

Plowing stopped by wet fields. Other field activities limited by return of colder weather.

OKLAHOMA: Temperatures 3° below normal to 2° above normal. Precipitation 0.46 in. Panhandle to 2.96 in. southeast. Weekend mild with few showers southeast.

Small percent wheat acreage jointing. Growth rate increased since recent rains. Panhandle and north central condition mostly poor to fair, only light amounts of rain. Condition elsewhere good to fair. Greenbugs heavy west central and north central, weather hampering spraying. Cattle coming off fields as jointing near. Topsoil moisture adequate nearly three-fourths State. Spring small grain seeding near complete. Loss of fruit to freeze moderate east and southern areas. Seedbed preparation continues slower pace. Ranges showing new growth but too short to provide much grazing. Cattle condition improved. Marketing active.

OREGON: Temperatures 2° below normal. Extremes: 60's, 20's west; 60's, 5° east. Precipitation along coast 0.05 to 0.33 in., 0.06 to 0.24 in. west, 0.20 in. or less east.

Fall seeded wheat fair to good. Fertilizing, plowing continuing as weather permits. Pruning orchards, training berries. Potatoes moving from storage. Livestock good, feed supplies adequate. Western pastures showing new growth. Calving and lambing continuing.

PENNSYLVANIA: Temperatures seasonable 3° above normal parts of west to 4° below normal east. Extremes: 8 and 65°. Precipitation beginning and midweek 0.30 in. most northern tier counties to 1.00 in. or more south central and southeast, elsewhere 0.50 to 0.75 in. Early week storm dumped from traces snow northwest to 6.00 to 8.00 in. southern tier and eastern counties.

Return to more normal weather caused return to routine winter chores.

PUERTO RICO: Rainfall 0.43 in. or 0.14 in. below normal. Temperatures 74° on coasts and 68° interior. Means 76°, 58°. Extremes: 91 and 54°.

SOUTH CAROLINA: Temperatures few degrees above normal. Cooler early week, warmer weekend. Rainfall above normal most areas.

Farm activities: land preparation, corn planting scattered areas, fertilizing small grains, preparing tobacco land, transplanting tobacco, orchard maintenance. Peach crop in full bloom. Charleston-Beaufort area: setting tomato plants, planting cucumbers, snap beans, cultivating and side dressing cabbage.

SOUTH DAKOTA: Temperatures 0 to 5° below normal east, up to 9° above average west. Extremes: 66 and 1°. Eastern half received up to 1.00 in. moisture from rain and snow. Strong north winds caused near blizzard conditions 12th. Little moisture received west.

Calving and lambing continuing with normal results. Caring for livestock and planning for spring field work main farm activities.

TENNESSEE: Rain showers some thundershowers totaled 1.00 to 1.50 in. first two days. Considerable sunshine remainder of week. Temperatures near normal.

Rains halted tobacco seeding, plowing, and other fieldwork. Cooler, more normal temperatures slowed early pasture and small grain growth. Warmer drying weather needed for spring plowing and crop development. Pastures fair to good furnishing some feed. Cattle good condition.

TEXAS: Eastern half received above normal rainfall. Panhandle received above normal rainfall midweek. Panhandle temperatures 20's first week into midteens weekend. Lower Rio Grande Valley upper 80's weekend.

Wheat, oats good response recent rains grazing improved Low Plains southward. Early stands late joint, early boot stage south, south central. Greenbugs problem many localities. Planting cotton, corn, sorghum excellent progress southern areas before stopped by rain. Early stands peanuts, rice seeded but general planting activity several weeks away. Wheat: Continues moderate improvement High Low Plains where precipitation revived crop prospects. Good growth shown from Low Plains through East Texas following moderate to heavy rains. Greenbugs continue problem control measures necessary most localities. Oats: Good response to rains from Low Plains to South central Texas. Early stands beginning joint south central southeast improved grazing evident most southern areas. Cotton: Planting 5% complete on schedule last year. Three-year average 1%. Early stands good growth Lower Rio Grande Valley, Coastal Bend. Blacklands southward adequate planting moisture seeding start as soil temperature field conditions permit. Sorghum: Planting 25%. Last year 22%. Three-year average 22%. Early stands excellent growth Coastal Bend, Upper Gulf Coast Lower Rio Grande Valley, rain Blacklands South Central stopped

planting. Corn: Planting 10% complete, 28% last year, three-year average 14%. Planting from southern Blacklands to Lower Rio Grande Valley early stands good growth.

Lower Rio Grande Valley: Onion harvest continues. Cabbage and carrots light volume. Coastal Bend: Watermelon and cucumber planting complete. San Antonio-Winter Garden: Potatoes satisfactory growth. Watermelon, honeydew melons and cantaloupe planting completed. Some carrot and onion harvesting underway. Spinach and kale harvest is approaching completion. Central Texas: Watermelon and tomato planting will begin as field conditions permit. East Texas: Cabbage planting well underway some early fields up. Trans-Pecos: Planting of onions, lettuce, and cabbage complete. High Plains: Planting onions and potatoes active. Peach: Trees continue to bloom. Freezing temperatures northern areas caused moderate damage in scattered locations. Some trees East Texas shedding pedals. Pecan: Trees southern areas beginning to bud, but most trees remain dormant.

Rains over much of eastern and central revived pastures. Grazing showing improvement on wheat and oat stands Low Plains to Southeast. Goat shearing nearing completion. Sheep and lamb making progress.

UTAH: Scattered rain or snow latter part of period. Accumulated moisture light to moderate. Temperatures extremely variable much below normal ranging from 2 to 12° below south and 6 to 18° below north.

Spring plowing, ditch cleaning, orchard pruning continues lower valleys southern sections. Range calves dropping fast. Some lambs from range flocks. Apricots and plums in full bloom, though "thinned" by recent spring frost. Placing turkey poults in full swing. Potatoes and apple marketing from storage completed.

VIRGINIA: Temperatures slightly above normal. Extremes: 70's, 22°. First major snowfall, north and west more than 10 in., melted quickly. Rainfall 1.25 in.

Fieldwork: 2.5 days suitable. Topsoil moisture adequate to surplus. Snow and rain hampered fieldwork. Caring and feeding livestock, calving and lambing good. Feed and livestock situation good to excellent. Spreading lime and fertilizer. Tobacco plant bed seeding. Eastern Shore potato seeding progressing rapidly; some near completion. No extensive damage to fruit by cold weather. Pruning and spraying orchard. Plowing and disking active.

WASHINGTON: West: Temperatures 2 to 4° sub-normal. Precipitation 0.20 to 1.67 in. subnormal. Raspberry growers trellising new canes, applying herbicides. Strawberry growers hoeing fields. Harvesting forced rhubarb. Cabbage fields fertilized and cultivated. Lambing winding down. East: Readings near normal. Precipitation subnormal. Pruning tree fruits and grapes and renewing orchards. Other farm activities: plowing, disking, harrowing, spraying, fertilizing, seeding sugarbeets, peas, potatoes, spring wheat. Transplanting mint. Winter wheat making slow growth. Winter damage minimal. Local hay supplies short from recent cold weather. Calving and lambing continued without serious losses.

WEST VIRGINIA: Temperatures above normal. Precipitation above normal central, normal elsewhere.

Fieldwork: 2.9 days suitable. Soil moisture adequate. Small grains good. Farm activities: feeding and care of livestock.

WISCONSIN: Scattered light snow and flurries until 11th when powerful winter storm brought variety of weather conditions. Heavy snow high winds created blizzard conditions north. Snow, sleet, and freezing rain central, mostly rain south. Excess of 12 in. snow extreme north where severe drifting snarled local transportation. Storm abated 12th and much colder air moved in. Temperatures reached 50's south on 12th but dropped to teens by late evening. Frost depths as of 12th averaged 7 in., decline of 3 in. from two weeks earlier. Snow depths averaged 7 in., mostly confined to

northern half of State.

WYOMING: Temperatures near normal. Precipitation below normal most locations. Highest readings 60° east to near 40° northwest, lowest -10° to -15° northwest 0 to 10° elsewhere. Most locations over 0.10 in. precipitation.

Major activities: calving, shed lambing increasing, feeding livestock, some shearing, preparations for planting. Livestock good, few deaths due to weather; feed supplies adequate. Winter wheat prospects good but some blowing; mostly dormant. Moisture supply adequate.

WATER SUPPLY OUTLOOK FOR THE WESTERN UNITED STATES
Issued as of March 1, 1976

The table below shows the runoff forecast in percent of the 15-year (1958-72) average. The forecasts are for the remainder of the water year (October thru September), except for the full water year for the Sacramento and San Joaquin Basins; April 1 to September 30, 1976, for the Missouri, Yellowstone, and North Platte Basins; November 1, 1975, to June 30, 1976, for the Little Colorado Basin; and March 1 to June 30, 1976, for the Gila Basin. The publication "Water Supply Outlook for the Western United States," issued as of March 1, 1976, contains the complete water supply forecasts for about 375 stations in the Western United States.

River	Station	Forecast 1,000 Acre-feet	Percent 15-year average
Columbia	Grand Coulee, WA	75,100	104
Columbia	The Dalles, OR	122,000	108
Snake	Lower Granite, WA	24,700	111
Sacramento	Red Bluff, CA	5,100	57
San Joaquin	Big Creek, CA	600	46
Weber	Gateway, UT	357	106
Jordan	Utah Lake, UT	358	111
Truckee	Lake Tahoe-Farad	144	45
Colorado	Lake Powell infl.	8,345	100
Green	Green River, UT	3,360	100
San Juan	Bluff, UT	1,170	104
Little Colo.	Woodruff, AZ	6.1	71
Gila	Solomon, AZ	73	72
Rio Grande	San Marcial, NM	437	109
Arkansas	Pueblo, CO	256	70
Missouri	Ft. Peck, MT	5,510	116
Yellowstone	Sidney, MT	8,610	123
North Platte	Glendo, WY	776	94

Office of Hydrology
National Weather Service

World Agricultural Weather Summary

(February 1-March 15)

HIGHLIGHTS: Cold, dry weather hurt poorly developed winter grain in the southern part of European USSR. March precipitation eased the prolonged dry spell in much of U.S. Great Plains wheat region. Dry weather continued to stress crops in parts of central and southeast Asia.

WEATHER: In contrast to a relatively mild and wet January in European USSR, February and early March were cold and dry. Temperatures were mostly 7 to 11 degrees below normal while precipitation was mostly under 50 percent of normal. Heavier than usual precipitation occurred in the Asian sector. Elsewhere in Eastern Europe temperatures ranged near normal in the north to well below in the south. Precipitation was light, indeed next to nothing in many places. Farther east, Turkey received about normal precipitation of 1 to 2 inches.

Temperatures were more seasonal in western Europe but precipitation was very light--often only 25 to 50 percent of normal--except for some mountain areas, Sicily and Greece. Substantial rains fell in Algeria, parts of Morocco, and coastal West Africa but little or none in the Sahel.

February was one of the mildest ever in the USA. In early March, soaking precipitation fell at last in the central and southern Great Plains.

February precipitation was above normal in most of northern PRC trending to below normal in the south. Temperatures were above normal especially in the north. Rainfall was about seasonal in the Philippines except somewhat less than usual in northeast Luzon and Mindanao.

Although this is a dry time of year for much of Asia, the current dry spell has been exceptionally widespread and prolonged. It affects an area from the Red Sea to the South China Sea. Many places received little or no precipitation this winter. Western portions of Pakistan, several northern states of India, and Iran have done better.

In the Southern hemisphere, New Zealand and Australia continued to receive unusually heavy rainfall. Only portions of Victoria and the

desert area of Western Australia were on the dry side. Frequency and intensity of rain in South Africa diminished after weeks of wet weather and flooding.

Argentina reported mostly above normal rainfall in the important central region and near normal in the north. Brazil was wet in the northeast with 4 to 18 inches of rain while relatively dry in the south. Guyana reported places with record rainfall in February and generous amounts extended into Venezuela and adjacent Caribbean areas.

CROPS: Much USSR winter wheat went dormant before adequate growth and development due to the 1975 drought. Cold weather in February intimidated this vulnerable crop still more, particularly in the south where snow cover was sparse. There will be considerable replanting to other grains. Meanwhile, snow has continued to pile up in the spring wheat region enhancing soil moisture prospects.

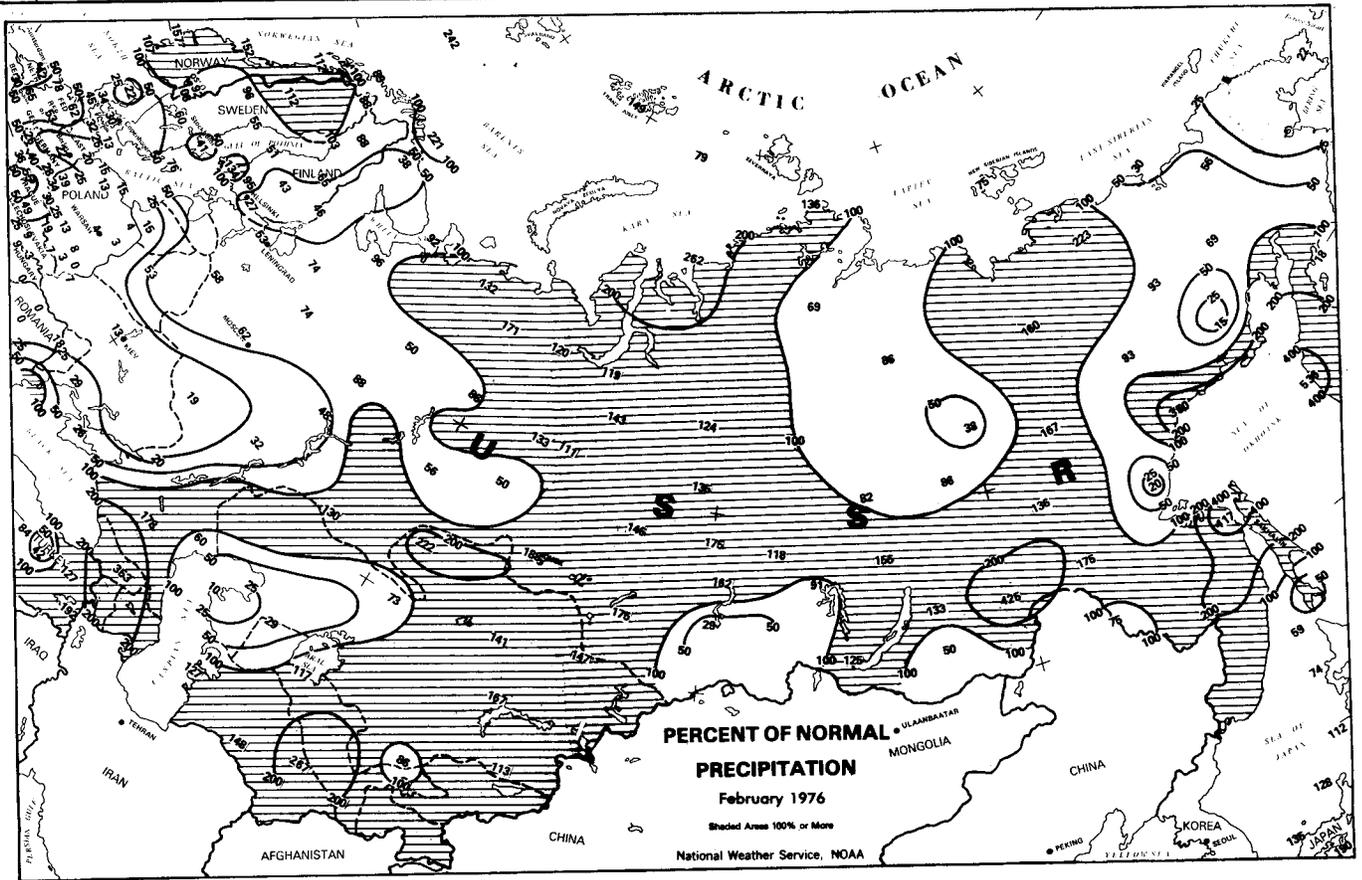
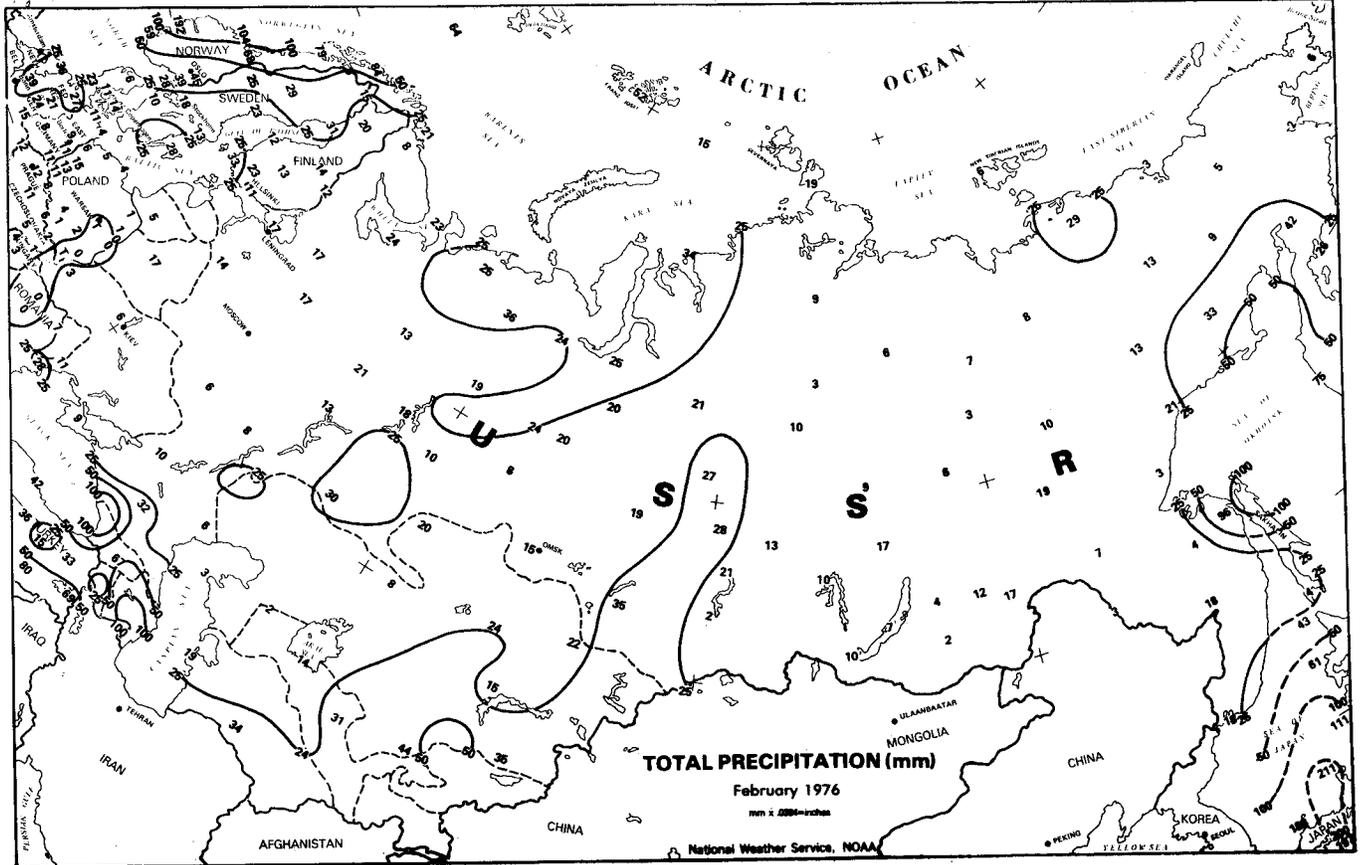
The extremely dry late winter weather in most of Eastern and Western Europe was probably of more benefit than harm. Certainly livestock had almost unrestricted access to pastures and caused less damage to firmer-than-usual turf.

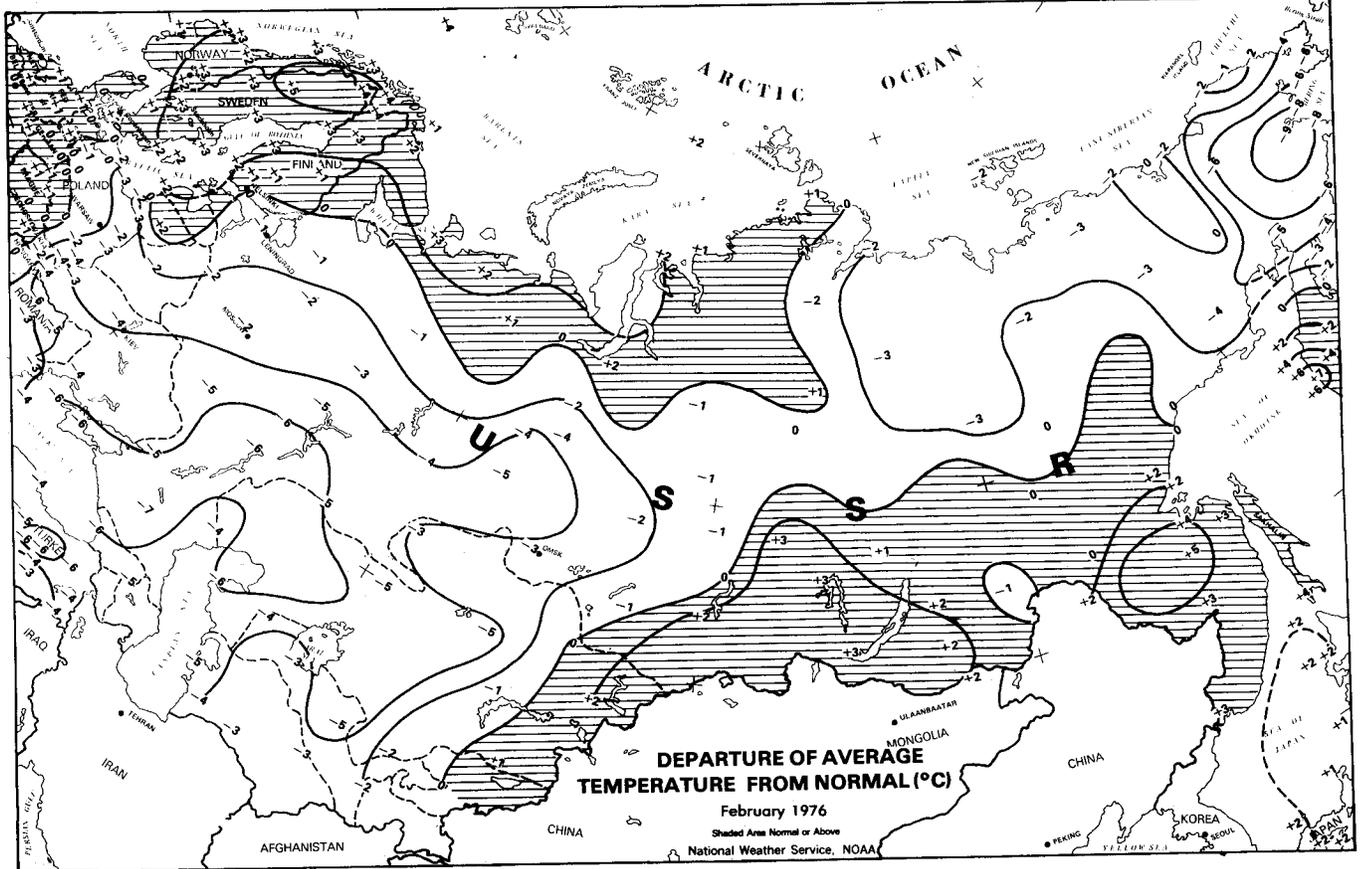
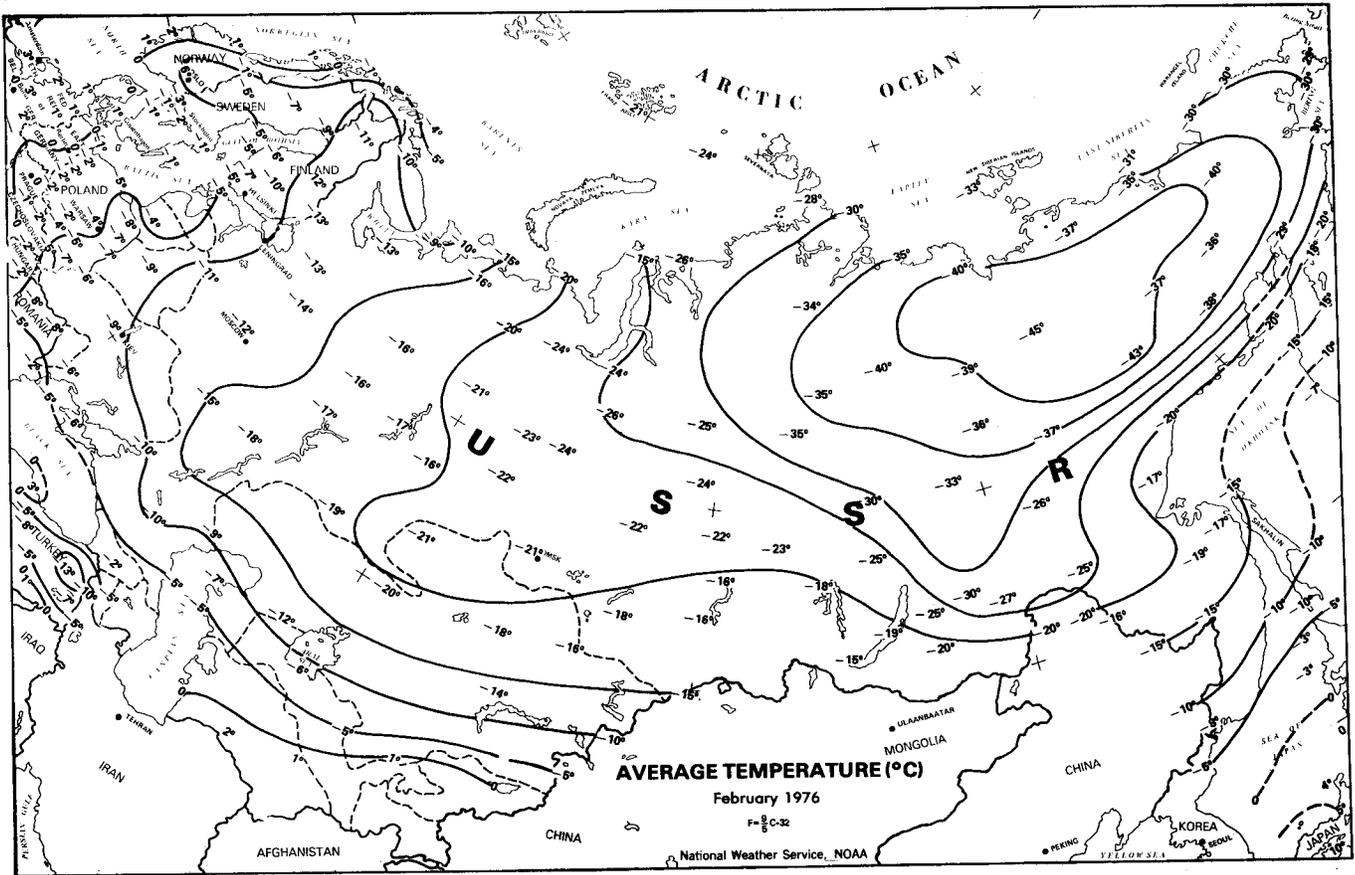
Winter grains in Turkey and Mediterranean North Africa were aided by good precipitation. However, drought continued to lower crop prospects in a belt of countries from Israel to Indo-China with particular stress in southern Israel, Jordan, Iraq, Saudi Arabia, India, Sri Lanka, Burma, Thailand, Singapore, and Malaysia.

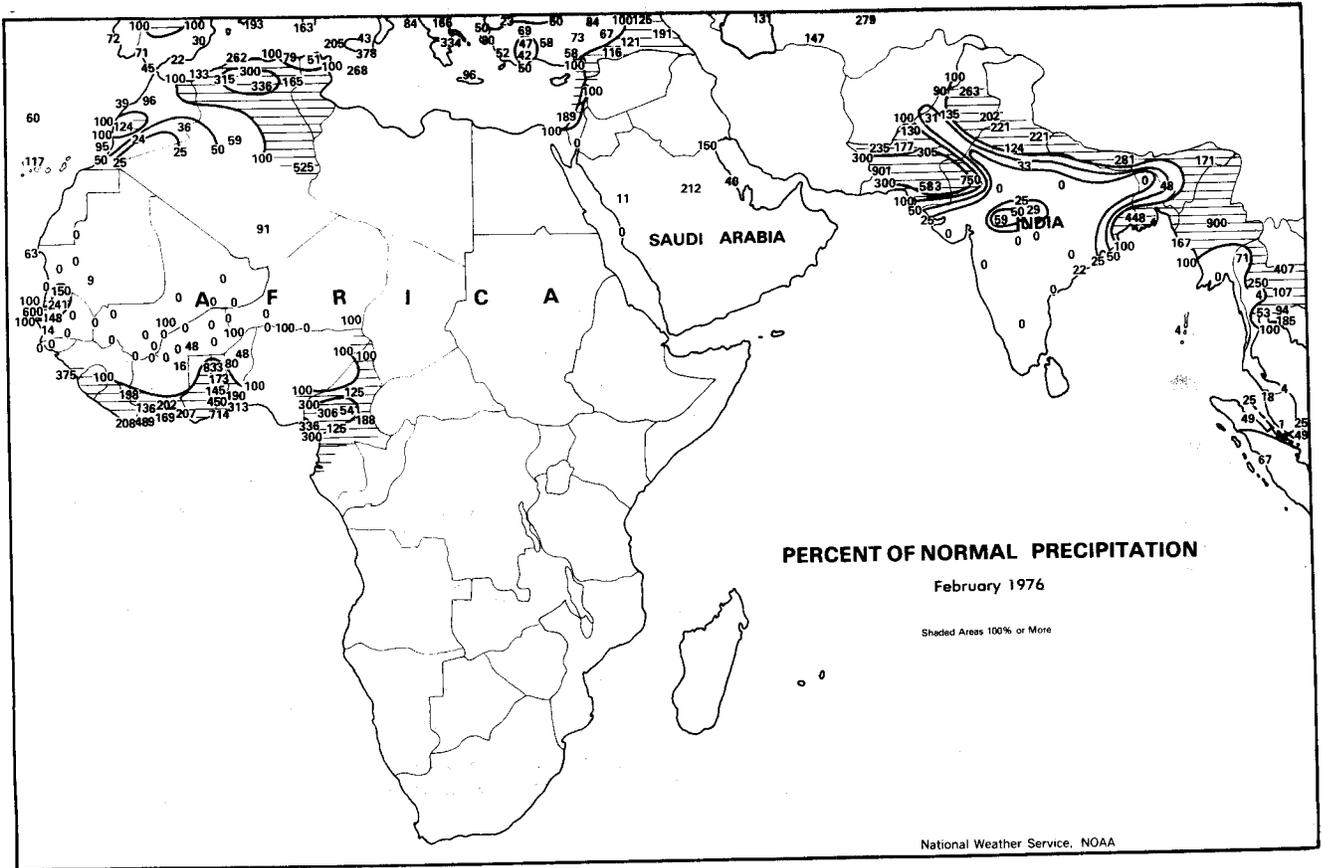
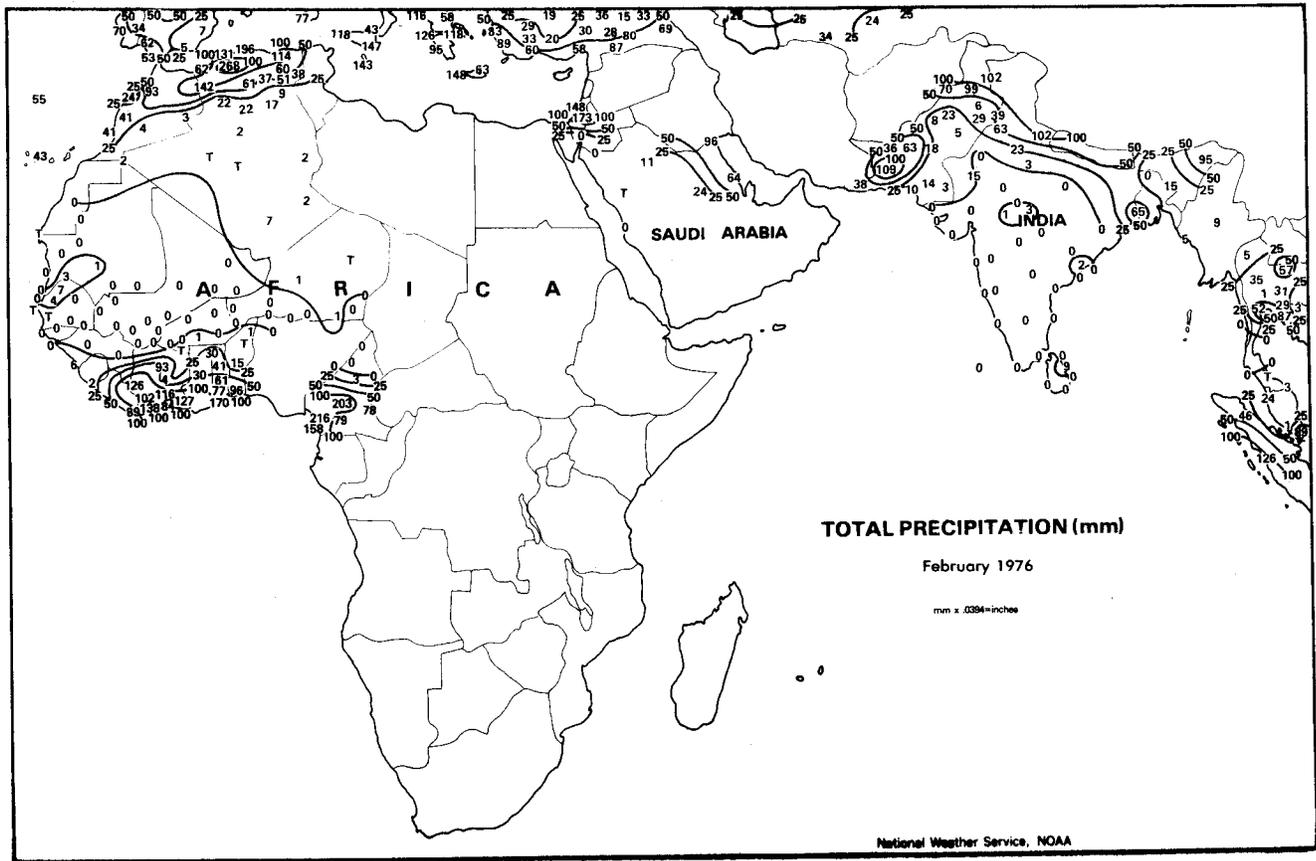
In the PRC, much of the winter wheat area received 1 to 2 inches of precipitation which was more than customary, yet needed after a rather dry winter.

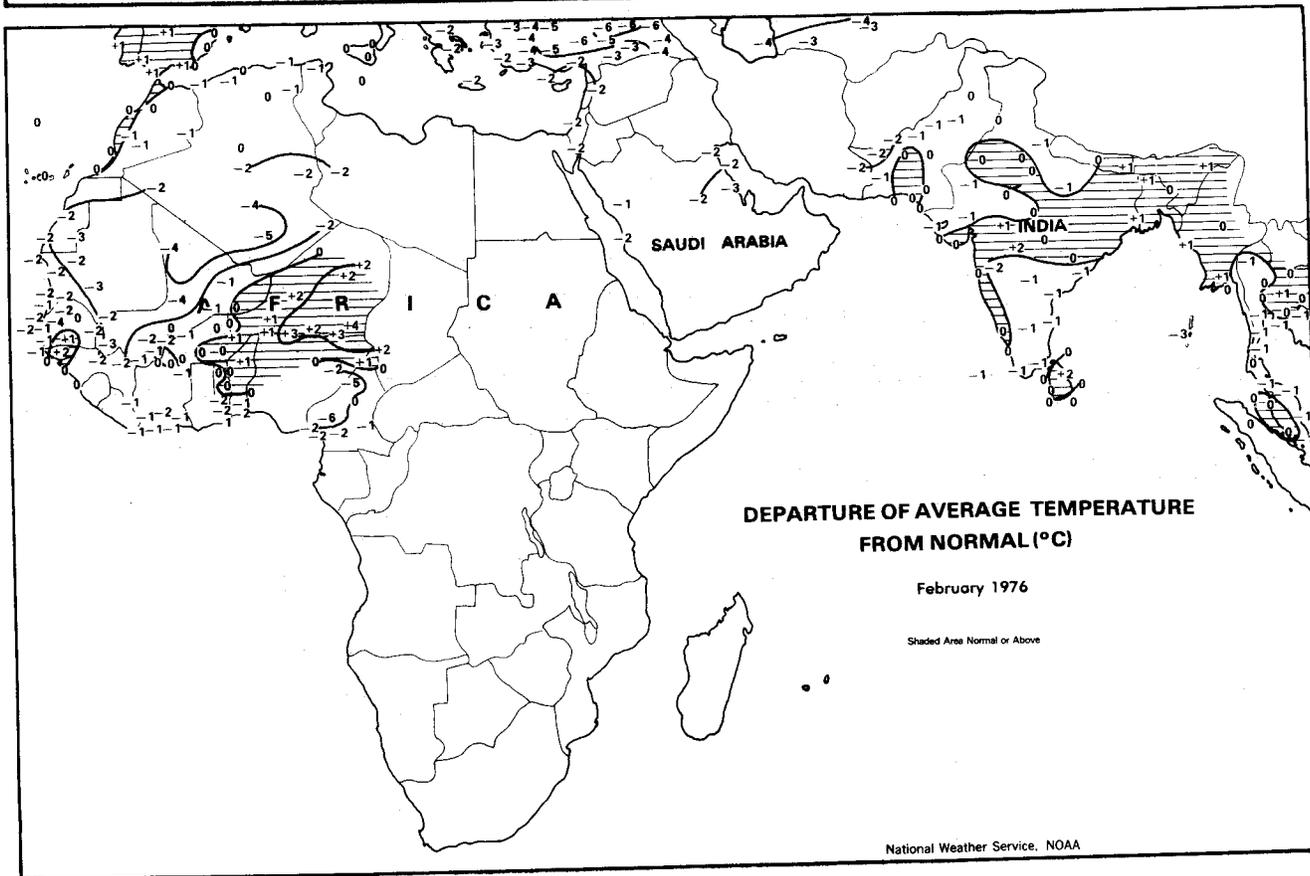
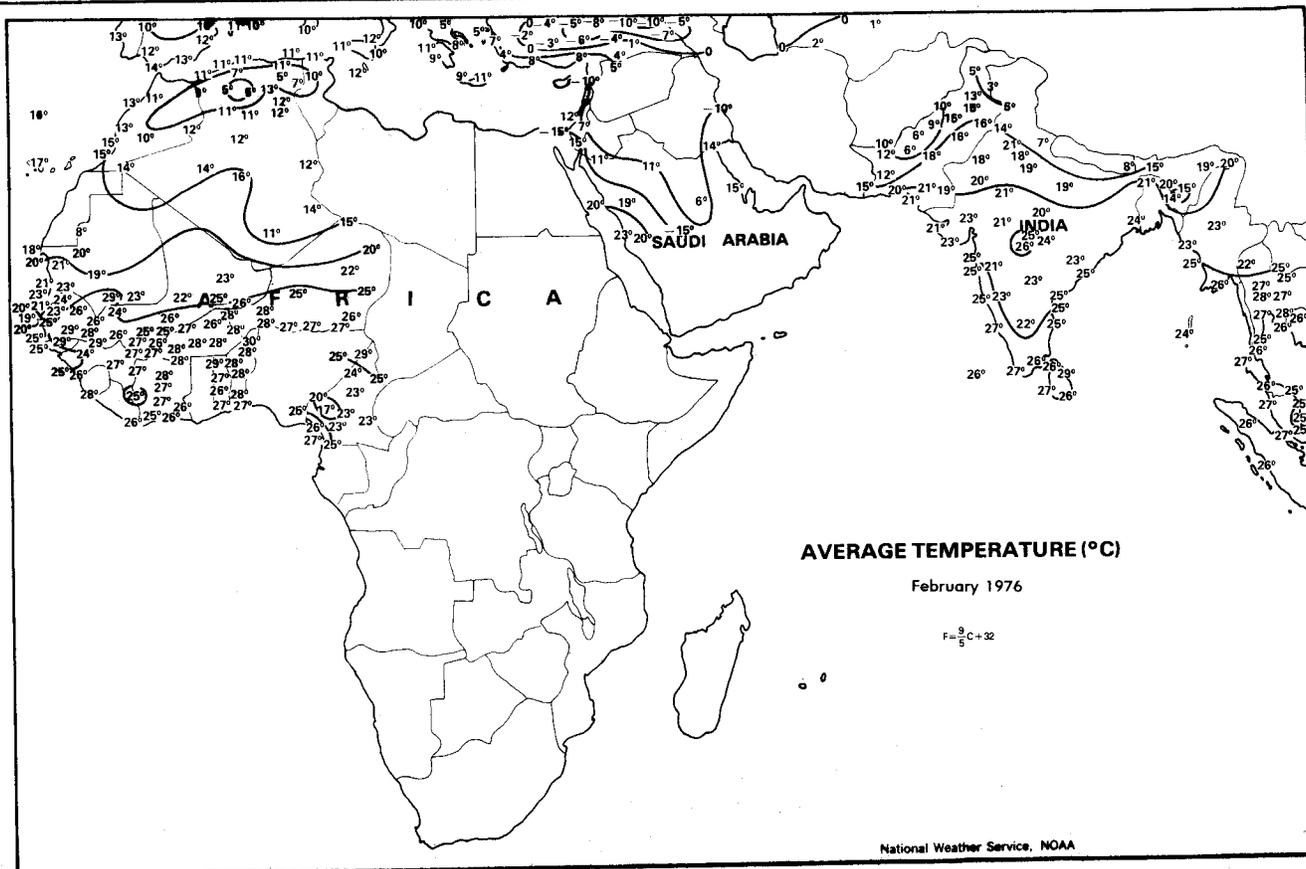
Widespread precipitation in much of the U.S. Great Plains in early March was timely for deteriorating wheat and forage and improved soil moisture to start spring crops.

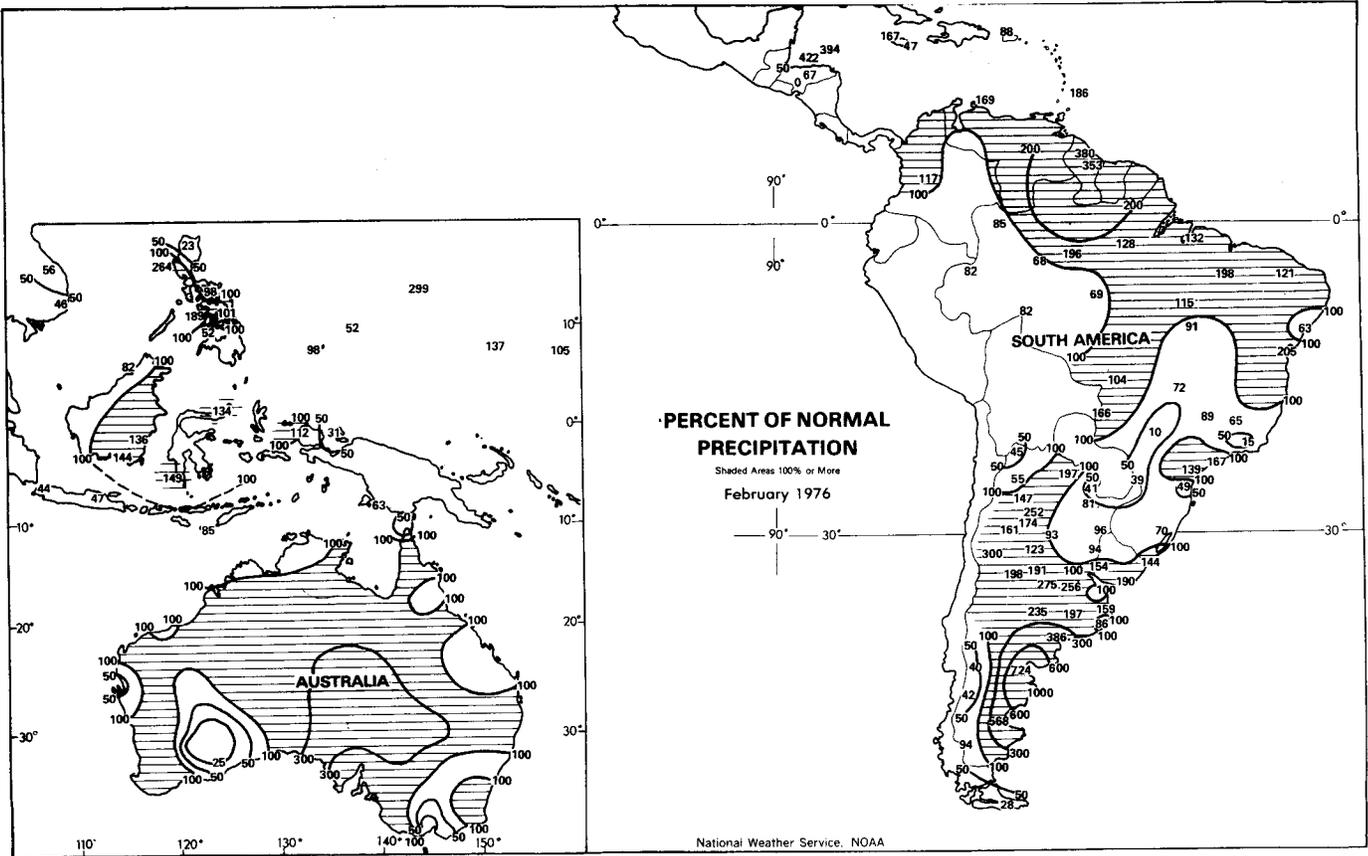
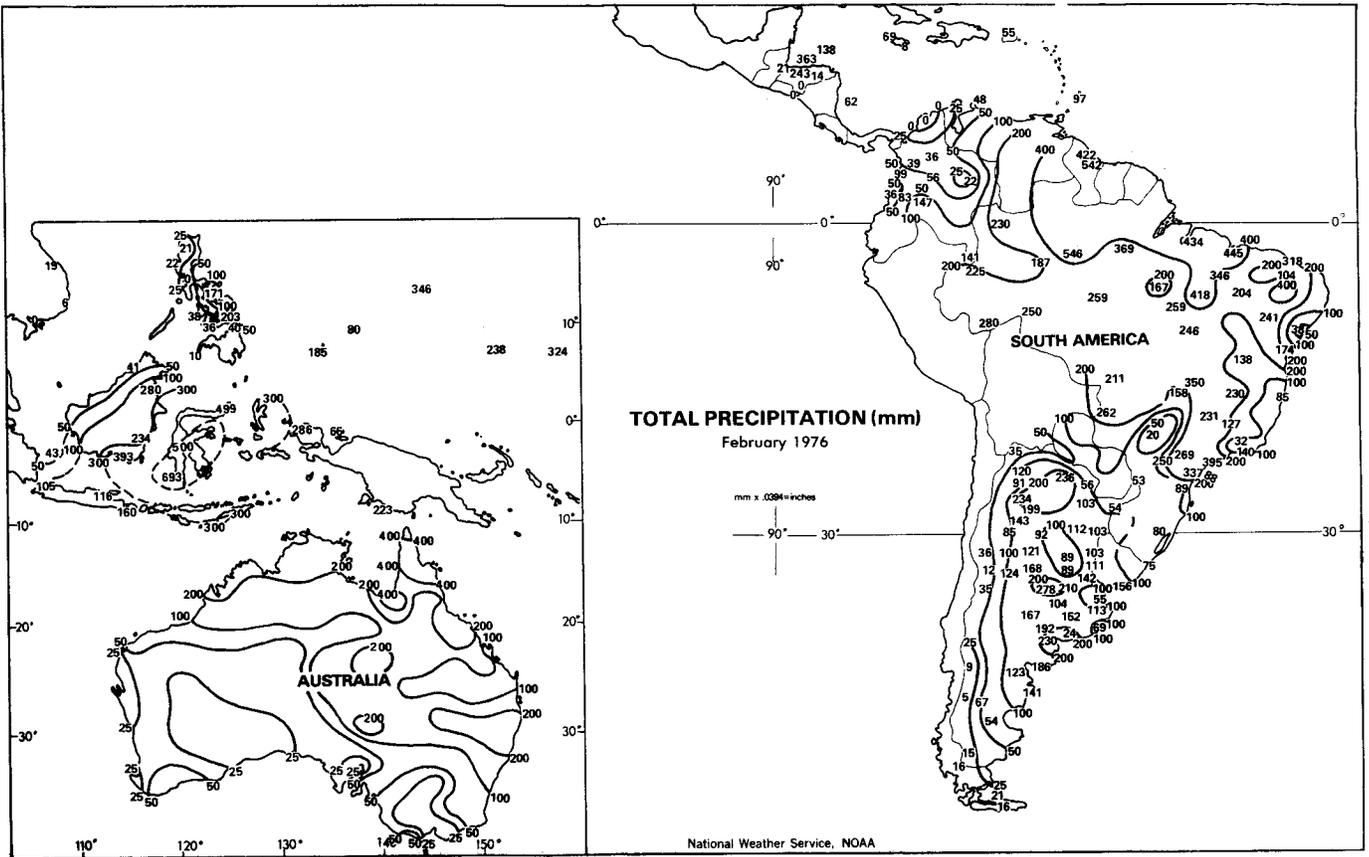
Many crops were reaching maturity and harvest in the Southern Hemisphere where rains at times were a mixed blessing. However, the moisture set the stage for the approaching period to plant fall grains.

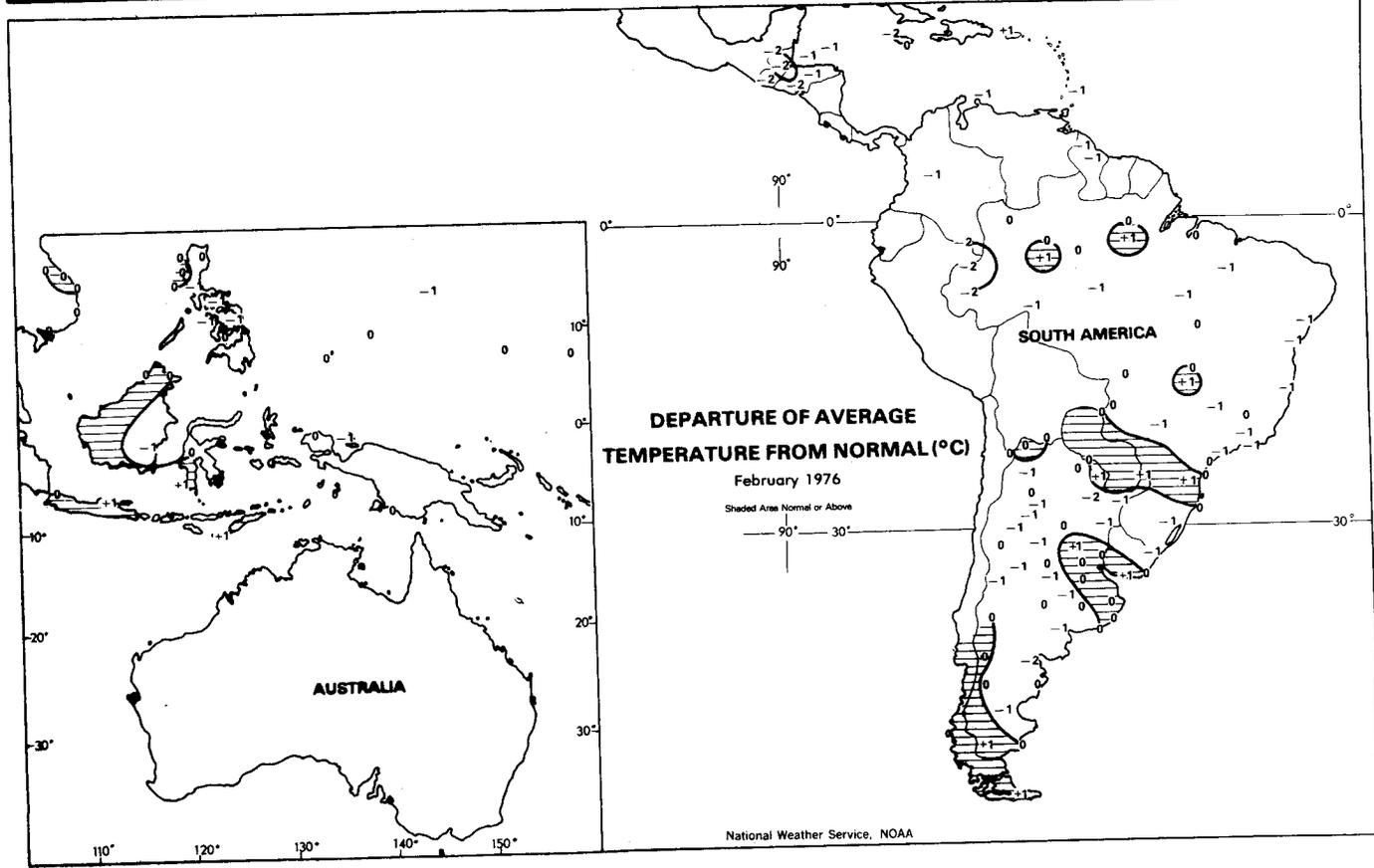
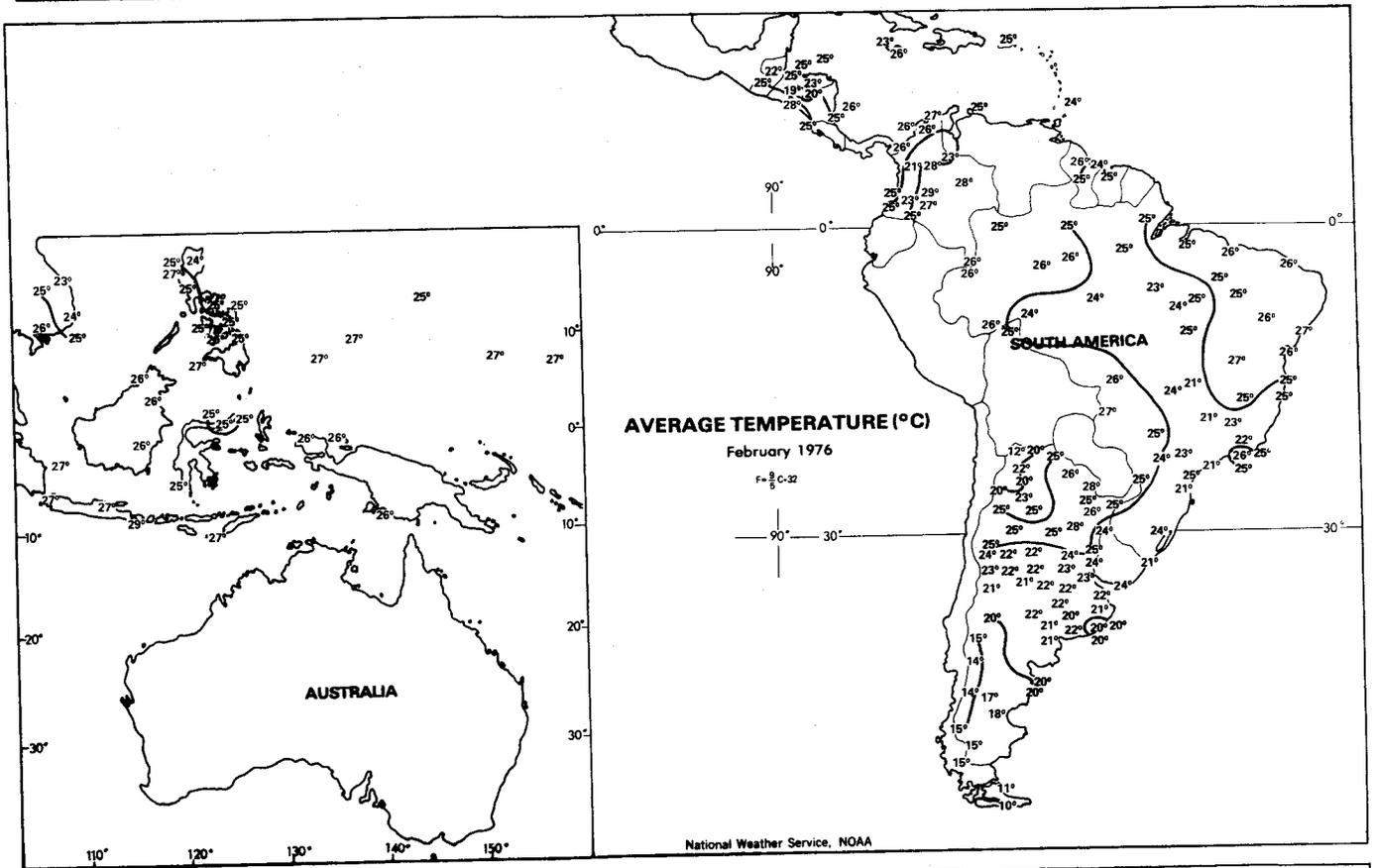




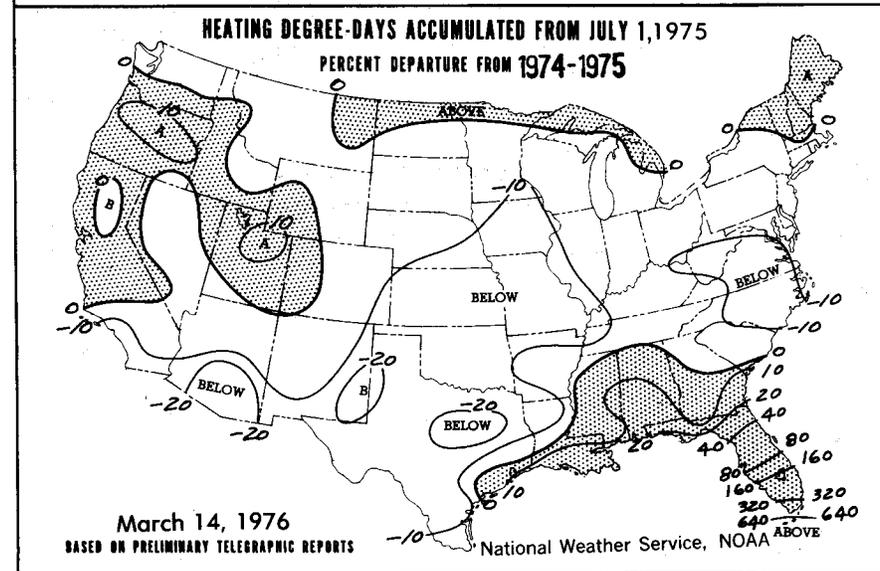
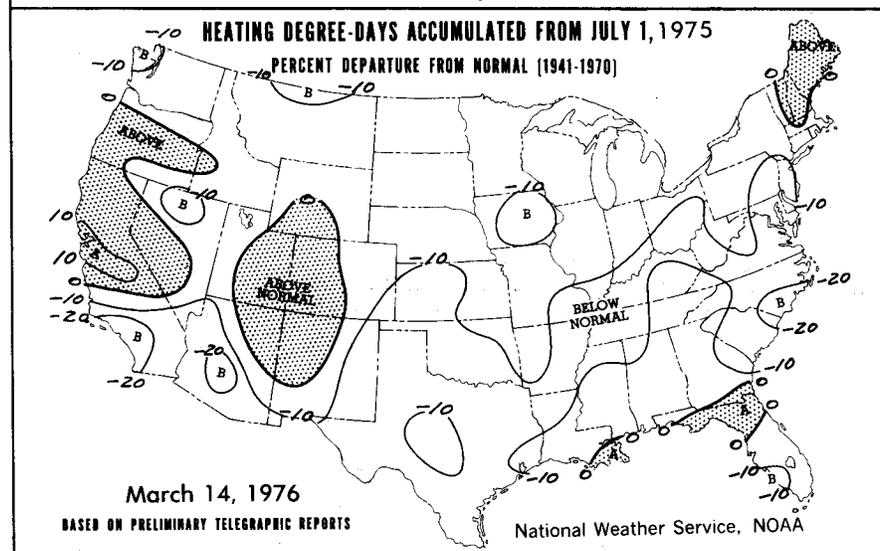
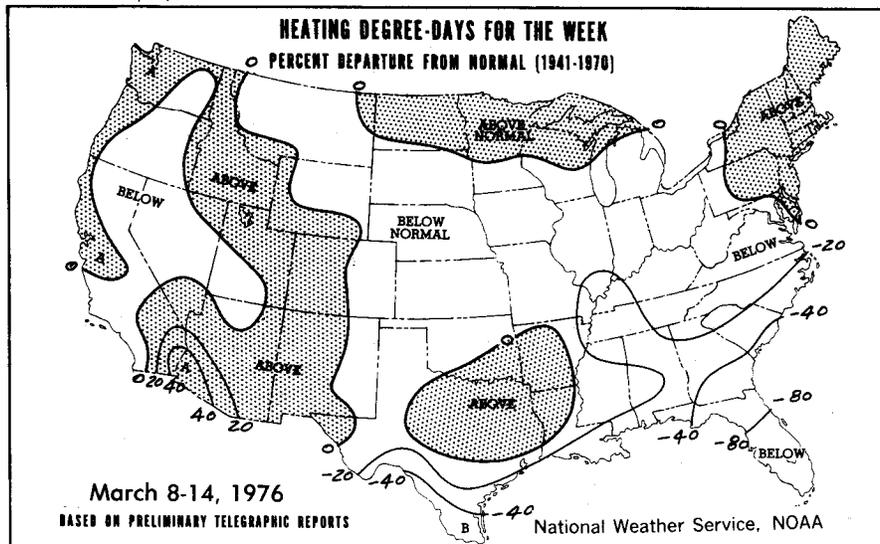








P-18



HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING MAR. 14, 1976.

STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +			STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +			STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +		
	TOTAL	DEPARTURE*	TOTAL	DEPARTURE*	DEPARTURE FROM 1974-75		TOTAL	DEPARTURE*	TOTAL	DEPARTURE*	DEPARTURE FROM 1974-75		TOTAL	DEPARTURE*	TOTAL	DEPARTURE*	DEPARTURE FROM 1974-75
ALA. BIRMINGHAM.....	649	30	23325	220	1289	MAINE CARIBOU.....	34	37	7772	286	204	YOUNGSTOWN.....	209	14	4805	347	237
MOBILE.....	628	100	13325	220	1289	PORTLAND.....	34	11	5764	39	245	OKLA. OKLAHOMA CITY.....	123	10	2742	482	538
MONTGOMERY.....	628	100	2009	220	1289	MD. BALTIMORE.....	167	1	3382	561	159	TULSA.....	228	10	2896	328	446
ARIZ. FLAGSTAFF.....	223	100	5254	199	129	MASS. BOSTON.....	208		4031	435	226	OREG. ASTORIA.....	145		3697	88	224
PHOENIX.....	633	100	1024	388	129	MICH. ALPENA.....	128		6315	238	112	BURNS.....	145		3697	88	224
TUCSON.....	633	100	4059	81	129	DETROIT.....	128		5505	238	112	REDFORD.....	145		3697	88	224
WINSLON.....	633	100	859	81	129	FLINT.....	128		5505	238	112	PENDLETON.....	145		3697	88	224
YUMA.....	633	100	859	81	129	GRAND RAPIDS.....	128		5505	238	112	PORTLAND.....	145		3697	88	224
ARK. FORT SMITH.....	125	186	2844	121	295	HOUGHTON LAKE.....	128		5505	238	112	SALEM.....	145		3697	88	224
LITTLE ROCK.....	137	186	2540	434	118	LANSING.....	128		5505	238	112	PA. ALLENTOWN.....	223		4320	430	210
CALIF. BAKERSFIELD.....	53	11	178	103	24	MARQUETTE.....	128		5505	238	112	ERIE.....	145		3697	88	224
FRESNO.....	53	11	2555	224	24	MUSKOGON.....	128		5505	238	112	HARRISBURG.....	145		3697	88	224
LOS ANGELES.....	53	11	936	115	115	S. STE. MARIE.....	128		5505	238	112	PHILADELPHIA.....	145		3697	88	224
RED BLUFF.....	53	11	2361	149	160	MINN. DULUTH.....	128		5505	238	112	PITTSBURGH.....	145		3697	88	224
SAN DIEGO.....	53	11	2492	167	20	INTERNAT. FALLS.....	128		5505	238	112	SCRANTON.....	145		3697	88	224
SAN FRANCISCO.....	53	11	2430	113	20	MINNEAPOLIS.....	128		5505	238	112	S. I. PROVIDENCE.....	224		4508	199	13
STOCKTON.....	53	11	2430	113	20	ROCHESTER.....	128		5505	238	112	S. C. CHARLESTON.....	44		666	270	24
COLO. DENVER.....	192	15	4481	230	325	ST. CLOUD.....	128		5505	238	112	COLUMBIA.....	44		666	270	24
GRAND JUNCTION.....	190	15	4943	265	126	MISS. JACKSON.....	73		1916	162	99	GREENVILLE.....	44		666	270	24
PUEBLO.....	180	15	4328	93	106	MO. COLUMBIA.....	14		12181	20	306	S. DAK. ABERDEEN.....	279		6401	615	130
CONN. BRIDGEPORT.....	216	15	3977	314	113	KANSAS CITY.....	14		3906	373	718	HURON.....	279		6401	615	130
HARTFORD.....	216	15	4727	399	196	SPRINGFIELD.....	14		4042	373	718	SIoux FALLS.....	279		6401	615	130
DEL. WILMINGTON.....	182	5	3659	415	174	MT. BILLINGS.....	238		5522	145	279	TENN. CHATTANOOGA.....	14		3009	52	144
D. C. WASHINGTON.....	142	10	2900	677	256	GREENSBORO.....	1		5793	145	279	KNOXVILLE.....	14		3009	52	144
FLA. APALACHICOLA.....	27	19	1276	20	340	HAVRE.....	1		6093	115	0	MEMPHIS.....	14		3009	52	144
DAYTONA BEACH.....	27	19	807	20	283	HELENA.....	1		6229	134	142	NASHVILLE.....	14		3009	52	144
FORT MYERS.....	27	19	399	20	283	KALISPELL.....	1		6229	134	142	TEXAS. ABILENE.....	11		200	233	445
JACKSONVILLE.....	27	19	1291	20	283	MILES CITY.....	1		6229	134	142	AMARILLO.....	11		200	233	445
KEY WEST.....	27	19	308	20	283	MISSOULA.....	1		6229	134	142	AUSTIN.....	11		200	233	445
LAKELAND.....	27	19	308	20	283	NEBR. GRAND ISLAND.....	20		5065	212	54	BROWNSVILLE.....	11		200	233	445
MIAMI.....	27	19	308	20	283	LINCOLN.....	20		5065	212	54	CORPUS CHRISTI.....	11		200	233	445
ORLANDO.....	27	19	308	20	283	NORFOLK.....	20		5065	212	54	DEL RIO.....	11		200	233	445
TALLAHASSEE.....	27	19	308	20	283	NORTH PLATTE.....	20		5065	212	54	EL PASO.....	11		200	233	445
TAMPA.....	27	19	308	20	283	OMAHA.....	20		5065	212	54	FORT WORTH.....	11		200	233	445
WEST PALM BEACH.....	27	19	308	20	283	VALENTINE.....	20		5065	212	54	GALVESTON.....	11		200	233	445
GA. ATLANTA.....	90	21	2444	250	42	NEV. ELY.....	22		5747	103	40	HOUSTON.....	11		200	233	445
AUGUSTA.....	90	21	1957	196	378	LAS VEGAS.....	11		2061	103	40	LUBBOCK.....	11		200	233	445
Macon.....	90	21	1854	139	196	RENO.....	11		4766	103	40	MIDLAND.....	11		200	233	445
SAVANNAH.....	90	21	1564	105	87	WINNEBUCCA.....	10		4500	75	478	SAN ANTONIO.....	11		200	233	445
IDAHO. BOISE.....	187	1	4461	39	326	N. H. CONCORD.....	272		6270	417	156	VICTORIA.....	11		200	233	445
LEWISTON.....	187	1	4039	33	285	N. J. ATLANTIC CITY.....	188		3960	79	100	WACO.....	11		200	233	445
POCATELLO.....	187	1	5419	105	87	TRENTON.....	12		3439	425	157	NICHITA FALLS.....	103		2165	428	518
ILL. CHICAGO.....	105		2899	461	404	N. MEX. ALBUQUERQUE.....	17		3785	129	163	UTAH. SALT LAKE CITY.....	200		4728	55	443
SPRINGFIELD.....	105		4980	511	404	ROSELLE.....	17		3542	716	622	VT. BURLINGTON.....	272		6113	152	177
IND. EVANSVILLE.....	130		3566	386	612	N. Y. ALBANY.....	2		6006	34	37	VA. LYNCHBURG.....	152		3226	33	34
FORT WAYNE.....	130		4281	378	587	BINGHAMTON.....	2		6006	34	37	NORFOLK.....	152		3226	33	34
INDIANAPOLIS.....	130		4539	680	256	BUFFALO.....	2		6006	34	37	RICHMOND.....	152		3226	33	34
SOUTH BEND.....	130		4539	680	256	NEW YORK.....	2		6006	34	37	ROANOKE.....	152		3226	33	34
IOWA. BURLINGTON.....	90		4633	486	612	ROCHESTER.....	2		6006	34	37	WASH. QUILLAYUTE.....	74		337	55	29
DES MOINES.....	90		4789	486	587	SYRACUSE.....	2		6006	34	37	SEATTLE-TACOMA.....	74		337	55	29
DUBUQUE.....	90		5574	559	463	N. C. ASHEVILLE.....	2		3387	163	25	SPOKANE.....	74		337	55	29
SIoux CITY.....	90		5574	559	463	CHARLOTTE.....	2		2514	491	263	HALLA HALLA.....	74		337	55	29
KANS. CONCORDIA.....	73		4949	486	570	GREENSBORO.....	1		1864	411	452	VARINA.....	74		337	55	29
BODGE CITY.....	73		4949	486	570	HATTERAS.....	1		1864	411	452	VA. BECKLEY.....	74		337	55	29
GOODLAND.....	73		4949	486	570	WILMINGTON.....	1		1864	411	452	CHARLESTON.....	74		337	55	29
TOPEKA.....	73		4949	486	570	N. DAK. BISHARCK.....	4		6738	568	570	HUNTINGTON.....	74		337	55	29
NICHITA.....	73		4949	486	570	FARGO.....	3		7269	443	174	PARKERSBURG.....	74		337	55	29
KY. LEXINGTON.....	133		3715	272	131	OHIO. AKRON-CANTON.....	13		4442	574	262	WIS. GREEN BAY.....	12		337	55	29
LOUISVILLE.....	133		3302	624	325	CINCINNATI.....	13		4442	574	262	LACROSSE.....	12		337	55	29
LA. BATON ROUGE.....	147		1473	74	171	CLEVELAND.....	11		4254	458	168	LANIER.....	12		337	55	29
LAKE CHARLES.....	147		1473	74	171	COLUMBUS.....	11		4254	458	168	HILMAUKEE.....	12		337	55	29
NEW ORLEANS.....	147		1473	74	171	DAYTON.....	11		4254	458	168	WYO. CASPER.....	12		337	55	29
SHREVEPORT.....	147		1473	74	171	TOLEDO.....	11		4254	458	168	CHEYENNE.....	12		337	55	29

* BASED ON 1941-70 NORMALS.

+ ACCUMULATION FROM JULY 1, 1975.

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