

# Weekly Weather & Crop Bulletin

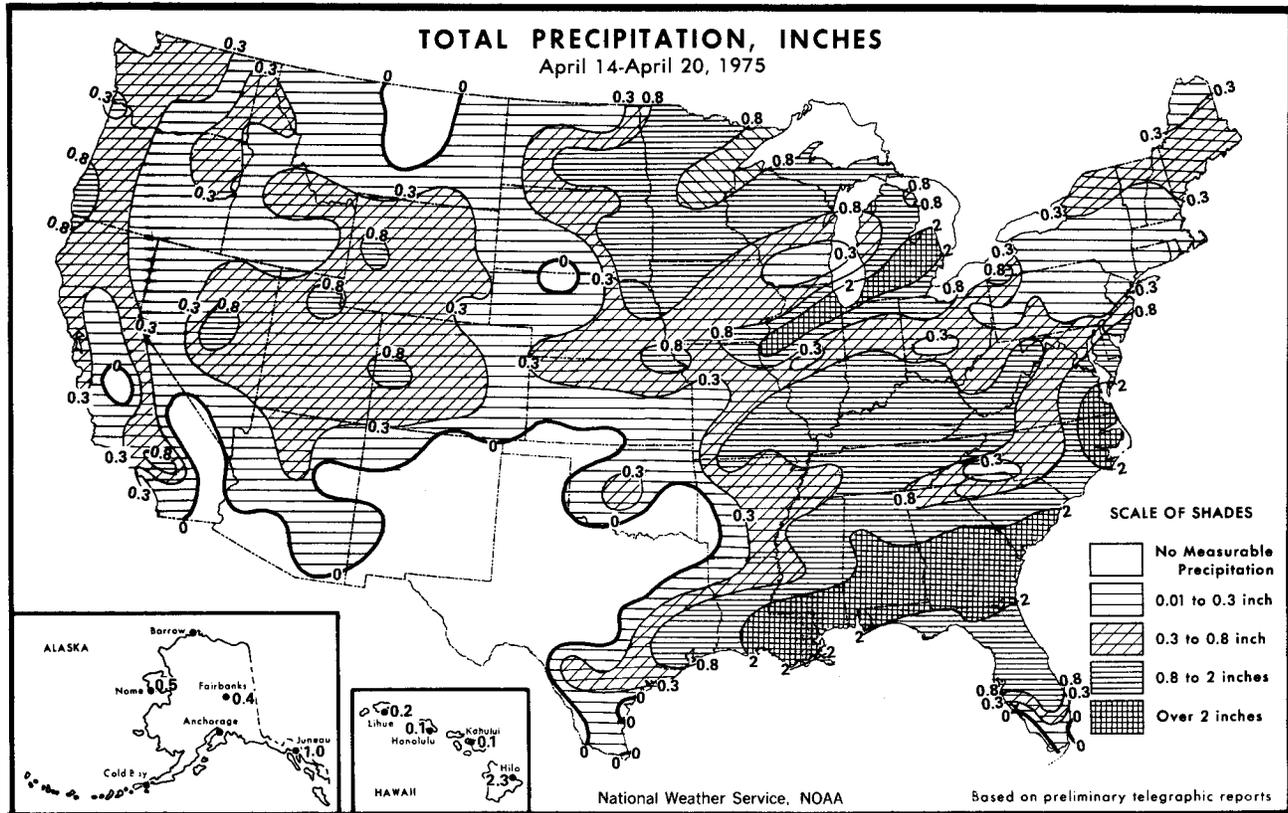
U. S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration

U. S. DEPARTMENT OF AGRICULTURE  
Statistical Reporting Service

Volume 62, No. 16

April 22, 1975

Washington, D. C.



## NATIONAL WEATHER SUMMARY

For the Week of April 14-20

**HIGHLIGHTS:** Most of the Nation is still averaging below normal temperature. The south central Plains began to warm in the early and latter part of the week and averaged slightly above normal. Heavy rain fell on the already flooded Gulf Coast early in the week and later in the vicinity of southern Lake Michigan.

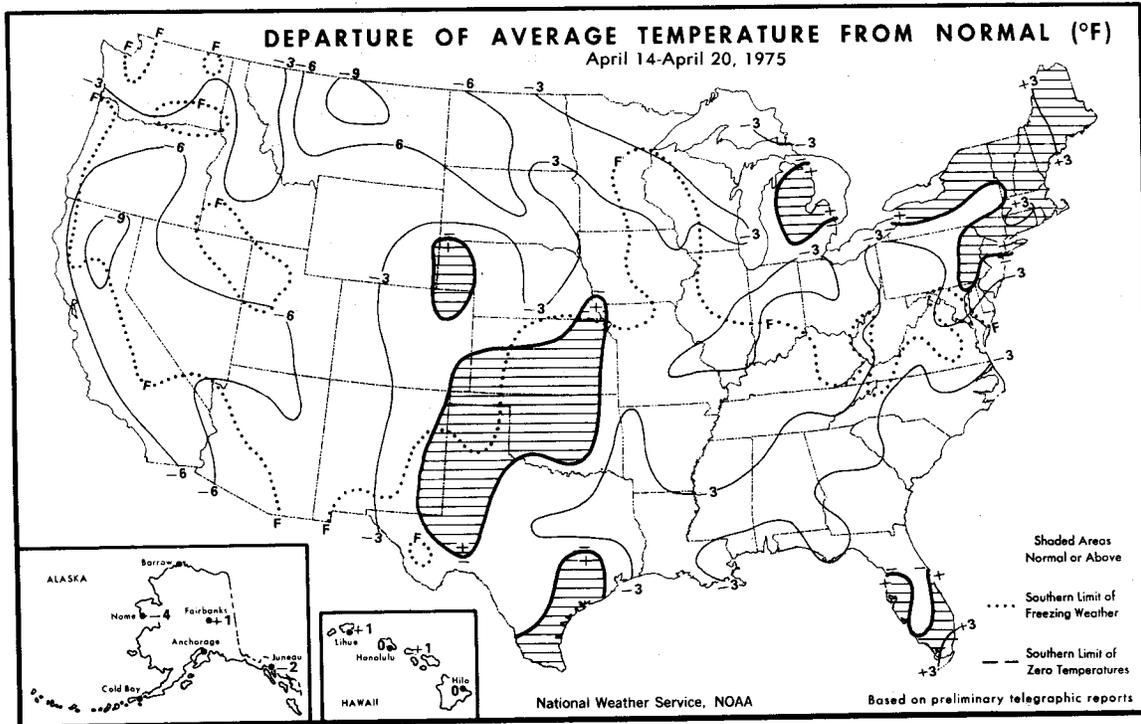
**PRECIPITATION:** On Monday a front moved slowly through the South causing heavy rain and thunderstorms from Louisiana to South Carolina. Flooding increased on the already swollen rivers in southern Alabama and Georgia. At least four tornadoes touched down in northwestern Florida. Warm air flowed northward from the Gulf of Mexico and spread rain all the way to the eastern Dakotas. Showers of rain or snow fell in the Great Basin and northern Rockies.

Tuesday saw snow in the Southwest and thunder-

storms in the Southeast. Locally heavy snow fell in the mountains of central and southern California early in the day. Rain and showers dampened the Pacific Northwest. The frontal wave in the South developed into a low center and deepened as it moved off the East Coast near Cape Hatteras. The heavy rain and thunderstorms continued around the low as it moved northeastward.

The northward flow into the Plains continued to warm the southern and central portions and caused light rain and drizzle in Minnesota and Nebraska. Occasional snow was reported in northern California and southern Oregon and eastward to Montana and Wyoming.

Wednesday brought clear skies to the South. The deepening low in the Atlantic off the New Jersey coast brought cold winds to the northeastern coastal areas. A deepening low on the Kansas-Missouri border caused rain in the northern Plains and showers



in the eastern Rockies.

A weather system off the West Coast spread cool showers southward into southern California on Thursday. Later in the day, weather activity increased from the central Plains northward as low centers were located in Iowa and southeast Colorado. A warm front extended from the low in Iowa southeastward to North Carolina; a cold front southwestward to the Colorado low and south. As the warm moist air from the Gulf moved northward rain was triggered in southeast Texas and as the warm air met the cooler air at the warm front, occasional rain fell to the north. Some isolated thunderstorms began to form north of the western portion of the warm front. Precipitation in the form of rain or snow fell from Wisconsin to Montana, Wyoming, Utah and Colorado.

By Friday lows were in northern Michigan and eastern Kansas. The cold front, bounding the incoming cold air, extended between the lows and into west Texas; the warm front through western Pennsylvania to southern Virginia and eastward. Thunderstorms occurred in Iowa, Illinois, Indiana and Michigan and southward all along the front. Heavy rain fell in these areas and caused local flooding. Snow showers were reported all along the east slopes of the Rockies from Kansas northward. By the end of the day thundershowers had formed along the front as it moved eastward into Louisiana and Mississippi. At least twelve tornadoes were reported; most in the mid-section of the Mississippi Valley. The most destructive twister hit Jackson, Tennessee and caused one death and many injuries.

Thunderstorms continued to rumble on Saturday morning but abated somewhat later in the day. The low center moved into southern Canada and

continued to deepen causing strong winds and snow showers in the northern Plains and eastward as the cold air plunged southward into the States. Thunderstorms formed along and ahead of the front from Pennsylvania to Tennessee as it moved eastward. Rain fell throughout Washington and Oregon as a new storm moved inland.

On Sunday the front moved into the Atlantic and through central Florida and into the Gulf. Rain and occasional thunderstorms occurred on the Southeast Coast behind the front. Elsewhere the Pacific front moved to the central Rockies and snow showers fell all along the front. By the end of the day warm southerly flow was again entering the southern Plains and thunderstorms formed from north central Kansas to southwest Missouri.

**TEMPERATURE:** Warm air was moving into the central Plains again on Monday as cold air enveloped both the East and the West. A record low of 22° at Atlantic City, N.J. was the lowest since 1950 when 29° was recorded.

The warming in the Plains continued until Thursday when the cold air flowing southward into the Rockies began moving eastward behind a cold front that extended from Lake Michigan to west Texas. Mid-afternoon temperatures ranged from 28° at Butte, Mont. to 97° (a record) at Midland, Tex. just ahead of the front.

The cold air continued pouring into the eastern Rockies on Saturday as the leading edge of the cold air moved eastward.

By Sunday the cold air had enveloped all of the East and some warming had returned to the central Plains. More cold air began to move southward into the Rockies from Canada.

## NATIONAL AGRICULTURAL SUMMARY

For the Week of April 14-20

**HIGHLIGHTS:** Somewhat open weather during the week favored plowing and field preparations, however spring seeding continues behind normal in all areas except Illinois, Indiana, and Ohio. Cool weather continues to delay row crop planting, retard development of fall seeded small grains and slow pasture and range growth. Corn and cotton planting was behind the normal pace in most States. Livestock still showing stress as feed supplies dwindle and pastures remain below normal.

**SMALL GRAINS:** Near normal temperatures in much of the Southern Great Plains aided wheat growth and development. Texas wheat made excellent progress and grain prospects continue favorable. Rains were beneficial. Fields were headed out from the Low Plains southward. Most wheat in Oklahoma was in good condition with 73% of the crop jointing, behind the normal 90%. Some freeze damage was showing up in the southwest. Greenbugs were widespread in the Panhandle where dry weather helped intensify the problem. Warmer temperatures and precipitation were beneficial in promoting Kansas wheat growth. The crop was 10% jointing versus 45% in 1974. Moderate to severe soil-borne Mosaic common in central areas. Winter wheat condition in Ohio declined from cool and dry weather. In Illinois, the crop was in mostly good condition. Wheat in Indiana averaged 5 in. in height, behind the 7 in. growth for the past couple of years. Winter wheat in Missouri and Nebraska was in fair to good condition, recent moisture helpful.

Spring wheat seeding lags last year and normal in most States. Seeding in South Dakota was 7% complete versus 47% in 1974 and the normal 39%. In Wyoming, seeding was 2 weeks behind the 1974 pace.

Spring oat seeding continues much behind normal in all areas except Illinois, Indiana, and Ohio. Open weather in these States permitted excellent seeding progress. Seeding was 75% complete in all 3 States, normally 58% is done in Illinois, 45% in Indiana and 40% complete in Ohio. Oat seeding was 6% finished in Iowa where normally 68% is done. Kansas farmers have seeded 60% of their oats and barley, usually 85% has been seeded. In Tennessee, small grains were starting to head out, but 1 to 2 weeks late.

**CORN:** Corn planting was off to a rapid start in Ohio and North and South Carolina; elsewhere in the Nation, planting lagged normal progress. Planting started during the week in Illinois, Kentucky, Maryland, Ohio, and Oklahoma. Dry weather much of the week enabled Ohio farmers to plant over 5% of their 1975 crop. In Kansas, 5% was planted, 6% in Missouri and Virginia, 11% in Tennessee, 18% in Alabama, 28% in North Carolina, 31% in Georgia, 47% in South Carolina, and 56% finished in Texas.

Plowing of corn and soybean land was ahead of both last year and usual in Illinois, Indiana, and Ohio. Some fieldwork started in Iowa, but mostly in localized areas. Very little if any progress in Minnesota, Michigan, North Dakota and Wisconsin.

**COTTON:** Planting of cotton was behind both last year and normal in most cotton producing areas of the Nation. Cotton planting was delayed in Texas because of wet fields, however, planting resumed in the Blacklands, East and South Central as fields

dried out. Planting was 13% complete, compared to last year's excellent progress of 22%. Seedbed preparations continue in the High and Low Plains and planting will begin when soil temperatures permit. Planting started in Arkansas, Mississippi, and Tennessee. In South Carolina, 5% of the crop had been planted, normally 20% is finished. Planting in Alabama was 6% complete versus 23% in 1974 and the usual 20%. In New Mexico, planting was less than 5% complete, while in Arizona, planting was underway in the southeast and east and in full swing central.

**OTHER CROPS:** Sorghum planting in Texas was delayed with 38% planted versus 40% in 1974. Planting was underway in Oklahoma, 8% finished in North Carolina, and 10% complete in Arkansas.

Rice seeding was 79% done in Texas, 60% in Louisiana, 23% in Arkansas, and only 2% in Mississippi.

Tobacco plant growth was behind normal in Virginia, slow in Kentucky, and 2 weeks behind in Tennessee. Flue-cured transplanting was 4% done in North Carolina, 50% in South Carolina and 84% finished in Georgia where some replanting was necessary. Sugarbeet planting was ahead of schedule in Ohio and Texas.

**FRUITS AND NUTS:** Citrus tree condition varies from poor to good in Florida as rain is needed. Irrigation was in use in all areas.

Cool weather in California slowed fruit and nut development. Navel orange harvest continues active and Valencia harvest was gaining. Lemon and grapefruit harvest were also active.

In Texas, peach harvest started on early varieties in the far south. Pecan trees were blooming and the citrus trees were requiring heavy irrigation.

Peach trees in the South Atlantic States were in fair to good condition. Some frost damage occurred in Virginia but extent of damage not known yet.

**VEGETABLES:** Planting of vegetables has been slow in most Northern States as cool weather delays germination and soil temperatures remain below normal.

Volume of cucumbers, lettuce, radishes, squash, sweet corn, and tomatoes were up in Florida, but cabbage and peppers were showing signs of seasonal decline.

Onion harvest in the Texas Lower Rio Grande Valley continue to gain momentum, while supplies of cabbage, carrots and cucumbers were light. Cantaloup and watermelons were showing stress in a few areas from lack of rainfall.

California supplies of asparagus and celery were light, but harvest of broccoli, cauliflower, carrots, and lettuce was active.

**PASTURES AND LIVESTOCK:** Subnormal temperatures in the Central and Northern States continue to slow pasture and range grass development. Pastures in the Southern States are starting to respond from the warmer temperatures, but overgrazing was common. Feed yards were muddy in some Northern States and ranchers were moving their cattle out on pastures for feeding and calving. Cattle continue to show stress from the long, cold and wet winter. Calving losses are still above normal in a few States.

April 20, 1975

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 . . .	60	- 4	.9	- .2	La. Baton Rouge . . .	66	- 3	3.4	+2.2	Youngstown . . .	45	- 4	.7	- .1
Mobile . . .	66	- 2	2.9	+1.6	Lake Charles . . .	65	- 5	1.1	+ .1	OKLA. Okla. City . . .	62	+ 1	.4	- .4
Montgomery . . .	63	- 3	2.7	+1.7	New Orleans . . .	66	- 3	2.4	+1.5	Tulsa . . .	64	+ 2	.1	- .9
ALASKA. Anchorage . . .	---	---	---	---	Shreveport . . .	63	- 4	.1	-1.2	OREG. Astoria . . .	45	- 3	.3	- .8
Barrow . . .	---	---	---	---	MAINE. Caribou . . .	42	+ 5	.3	- .3	Burns . . .	39	- 6	.3	+ .2
Fairbanks . . .	31	+ 1	.4	+ .3	Portland . . .	45	+ 2	.4	- .4	Medford . . .	47	- 6	.5	+ .3
Juneau . . .	37	- 2	1.0	+ .3	MD. Baltimore . . .	54	0	.7	- 0	Pendleton . . .	44	- 4	.4	+ .2
Kodiak . . .	---	---	---	---	MASS. Boston . . .	51	+ 2	.1	- .7	Portland . . .	47	- 4	.5	0
Nome . . .	15	- 4	.5	+ .4	Chatham . . .	46	---	T	---	Salem . . .	45	- 5	.5	- .1
ARIZ. Flagstaff . . .	39	- 4	.4	+ .1	MICH. Alpena . . .	42	+ 1	.8	+ .2	PA. Allentown . . .	51	0	.2	- .7
Phoenix . . .	64	- 4	T	- .1	Detroit . . .	46	- 2	1.0	+ .2	Erie . . .	43	- 3	.8	0
Tucson . . .	59	- 7	.4	- .3	Flint . . .	47	0	2.7	+2.0	Harrisburg . . .	50	- 3	.3	- .4
Winslow . . .	48	- 6	0	- .1	Grand Rapids . . .	45	- 2	1.1	+ .3	Philadelphia . . .	53	0	.3	- .5
Yuma . . .	65	- 7	0	0	Houghton Lake . . .	43	0	.9	+ .3	Pittsburgh . . .	47	- 4	.1	- .7
ARK. Fort Smith . . .	60	- 3	T	-1.1	Lansing . . .	47	0	2.3	+1.6	Scranton . . .	50	+ 1	.1	- .6
Little Rock . . .	62	- 1	.3	- .9	Marquette . . .	40	- 1	1.2	+ .6	R. I. Providence . . .	49	+ 1	.1	- .7
CALIF. Bakersfield . . .	57	- 6	.6	+ .4	Muskegon . . .	44	- 2	.7	- .1	S. C. Charleston . . .	64	- 1	3.0	+2.4
Eureka . . .	46	- 4	.7	0	S. Ste. Marie . . .	36	- 3	1.1	+ .6	Columbia . . .	64	- 1	1.1	+ .3
Fresno . . .	53	- 8	T	- .3	MINN. Duluth . . .	37	- 3	.3	- .3	Greenville . . .	59	- 3	.6	+ .4
Los Angeles . . .	56	- 6	.3	0	Internat'l Falls . . .	38	- 1	1.2	+ .8	S. D. Aberdeen . . .	44	- 1	.6	+ .1
Red Bluff . . .	51	- 9	.5	+ .1	Minneapolis . . .	42	- 4	1.5	+1.0	Huron . . .	42	- 5	1.2	+ .7
San Diego . . .	58	- 3	.2	0	Rochester . . .	43	- 3	.8	+ .2	Rapid City . . .	41	- 5	.1	- .4
San Francisco . . .	50	- 5	.4	0	St. Cloud . . .	40	- 4	.3	- .3	Sioux Falls . . .	44	- 3	1.1	+ .5
Stockton . . .	52	- 7	.1	- .2	MISS. Jackson . . .	63	- 3	.7	- .4	TENN. Chattanooga . . .	55	- 6	.4	- .6
COLO. Denver . . .	47	- 1	.6	+ .1	Meridian . . .	61	- 5	1.6	+ .4	Knoxville . . .	59	- 2	1.2	+ .4
Grand Junction . . .	48	- 4	1.0	+ .8	MO. Columbia . . .	54	- 2	.4	- .5	Memphis . . .	63	0	.4	- .9
Pueblo . . .	51	- 2	.4	+ .1	Kansas City . . .	55	- 1	1.2	+ .6	Nashville . . .	60	- 1	1.1	+ .1
CONN. Bridgeport . . .	49	0	.1	- .7	St. Louis . . .	54	- 3	1.0	0	TEX. Abilene . . .	64	- 2	T	- .6
Hartford . . .	51	+ 3	.1	- .8	Springfield . . .	55	- 2	.6	- .5	Amarillo . . .	58	+ 1	0	- .3
D. C. Washington . . .	56	- 1	.6	0	MONT. Billings . . .	40	- 5	.1	- .3	Austin . . .	69	0	T	- .9
FLA. Apalachicola . . .	66	- 3	1.6	+ .8	Great Falls . . .	37	- 7	T	- .2	Beaumont . . .	65	- 5	1.3	+ .3
Daytona Beach . . .	70	0	1.0	+ .4	Glasgow . . .	36	- 8	T	- .2	Brownsville . . .	77	+ 2	T	- .3
Ft. Myers . . .	74	0	0	.4	Havre . . .	36	- 9	.1	- .2	Corpus Christi . . .	74	+ 1	T	- .5
Jacksonville . . .	66	- 2	1.2	+ .5	Helena . . .	38	- 6	.1	- .1	Del Rio . . .	72	- 1	0	- .4
Key West . . .	80	+ 2	0	- .6	Kalispell . . .	42	- 1	.1	- .1	El Paso . . .	61	- 4	0	0
Lakeland . . .	73	+ 1	1.0	+ .3	Miles City . . .	40	- 6	.1	- .2	Fort Worth . . .	65	- 1	T	-1.1
Miami . . .	79	+ 4	0	- .9	Missoula . . .	42	- 3	.2	0	Galveston . . .	68	- 2	.7	+ .1
Orlando . . .	72	0	1.2	+ .6	NEBR. Grand Island . . .	47	- 4	.6	0	Houston . . .	70	0	1.5	+ .7
Tallahassee . . .	65	- 3	1.8	+ .9	Lincoln . . .	50	- 2	.4	- .2	Lubbock . . .	63	+ 2	0	- .2
Tampa . . .	73	+ 1	.8	+ .3	Norfolk . . .	45	- 5	.9	+ .4	Midland . . .	66	+ 1	0	- .2
W. Palm Beach . . .	75	+ 1	.1	- .7	N. Platte . . .	47	- 2	.2	- .3	San Angelo . . .	66	- 2	0	- .4
GA. Atlanta . . .	59	- 3	1.0	- .1	Omaha . . .	51	0	.7	0	San Antonio . . .	69	- 1	.2	- .4
Augusta . . .	61	- 3	1.2	+ .4	Valentine . . .	45	- 2	T	- .4	Victoria . . .	71	0	.3	- .3
Macon . . .	64	- 2	2.9	+2.1	NEV. Ely . . .	36	- 6	.6	+ .3	Waco . . .	65	- 3	T	-1.0
Savannah . . .	66	- 1	3.5	+2.9	Las Vegas . . .	58	- 6	T	- .1	Wichita Falls . . .	64	- 1	0	- .8
HAWAII. Hilo . . .	72	0	2.3	- .7	Reno . . .	40	- 7	.1	0	UTAH. Blanding . . .	43	- 5	.3	+ .1
Honolulu . . .	75	0	.1	- .2	Winnemucca . . .	41	- 5	.3	+ .1	Salt Lake City . . .	46	- 4	1.0	+ .5
Kahului . . .	75	+ 1	.1	- .2	N. H. Concord . . .	46	+ 1	.2	- .5	VT. Burlington . . .	44	0	.4	- .2
Lihue . . .	74	+ 1	.2	- .5	N. J. Atlantic City . . .	49	- 3	1.1	+ .3	VA. Lynchburg . . .	54	- 3	.4	- .2
IDAHO. Boise . . .	46	- 3	.2	- .1	Trenton . . .	52	- 1	.4	- .3	Norfolk . . .	54	- 4	2.9	+2.3
Lewiston . . .	47	- 4	.2	- .1	N. MEX. Albuquerque . . .	52	- 4	0	- .1	Richmond . . .	55	- 4	1.6	+1.0
Pocatello . . .	42	- 4	.1	- .2	Roswell . . .	60	0	0	- .1	Roanoke . . .	53	- 4	.4	- .2
ILL. Cairo . . .	60	- 1	.9	- .1	N. Y. Albany . . .	47	- 1	.1	- .5	WASH. Colville . . .	46	- 1	.2	0
Chicago . . .	50	- 1	3.9	+3.0	Binghamton . . .	44	- 2	.1	- .7	Omak . . .	49	0	.7	+ .5
Moline . . .	50	- 2	.4	- .5	Buffalo . . .	46	0	T	- .8	Quillayute . . .	44	- 2	.7	-1.2
Peoria . . .	50	- 2	1.3	+ .2	New York . . .	52	0	.2	- .6	Seattle-Tacoma . . .	47	- 2	.4	- .2
Rockford . . .	48	- 1	.4	- .5	Rochester . . .	49	+ 2	T	- .6	Spokane . . .	43	- 4	.3	+ .1
Springfield . . .	52	- 2	.3	- .7	Syracuse . . .	47	0	.1	- .7	Walla Walla . . .	48	- 5	.6	+ .2
IND. Evansville . . .	55	- 3	.9	0	N. C. Asheville . . .	53	- 4	.1	- .7	Yakima . . .	49	- 1	.2	+ .1
Ft. Wayne . . .	47	- 3	.7	- .1	Charlotte . . .	60	- 1	.3	- .5	W. Va. Beckley . . .	49	- 3	1.0	+ .2
Indianapolis . . .	51	- 2	.8	- .1	Greensboro . . .	58	- 1	.7	0	Charleston . . .	52	- 5	.8	0
South Bend . . .	48	- 1	2.0	+1.0	Hatteras . . .	57	- 2	2.0	+1.3	Huntington . . .	56	0	.8	+ .1
IOWA. Burlington . . .	50	- 2	1.9	+1.0	Raleigh . . .	57	- 3	.8	+ .1	Parkersburg . . .	54	- 1	.3	- .5
Des Moines . . .	50	- 1	.3	- .4	Wilmington . . .	64	0	1.5	+ .9	WIS. Green Bay . . .	43	- 2	.8	+ .2
Dubuque . . .	46	- 3	.3	- .7	N. DAK. Bismarck . . .	37	- 7	1.0	+ .6	La Crosse . . .	45	- 4	.3	- .3
Sioux City . . .	48	- 3	1.0	+ .5	Fargo . . .	40	- 4	1.2	+ .7	Madison . . .	46	0	.1	- .5
KANS. Concordia . . .	53	- 1	.4	- .1	Williston . . .	37	- 7	.1	- .2	Milwaukee . . .	42	- 4	.1	- .6
Dodge City . . .	58	+ 3	T	- .4	OHIO. Akron-Canton . . .	47	- 2	.3	- .5	WYO. Casper . . .	41	- 3	.4	0
Goodland . . .	49	- 1	.3	0	Cincinnati . . .	52	- 3	.8	0	Cheyenne . . .	41	- 2	.1	- .3
Topeka . . .	57	+ 2	.5	- .4	Cleveland . . .	47	- 2	.4	- .4	Lander . . .	40	- 4	.7	+ .1
Wichita . . .	58	0	.1	- .6	Columbus . . .	49	- 3	.3	- .6	Sheridan . . .	39	- 4	.7	+ .2
KY. Lexington . . .	55	- 1	1.1	+ .2	Dayton . . .	50	- 2	.2	- .6	P. R. San Juan . . .	80	+ 2	T	- .8
Louisville . . .	55	- 2	1.0	+ .1	Toledo . . .	45	- 4	.9	+ .2					

Based on 1941-70 Normals

Standard copy for the weekly weather and Crop Bulletin is prepared by: Richard E. Felch, Lyle M. Denny, Orus W. Byrd, National Weather Service, NOAA; DeLon Brown, Statistical Reporting Service, USDA.

## 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.

**ALABAMA:** After 2.00 to 3.00 in. rains over some central and south areas on 14th, drier weather prevailed. Warming temperatures and brisk southerly winds boosted highs into the 80's the 17th and 18th. Light rains north on 19th. Cooler and clearing skies followed during weekend.

Two days suitable fieldwork most areas. Corn 18% planted, 1974 33%, average 30%. Cotton 6% planted, 1974 23%, average 20%. Peanuts less than 5% planted, 1974 4%, normal 24%. Land 37% plowed. Soil moisture adequate to surplus north, surplus south. Wheat condition mostly good. Pastures and livestock improving with livestock marketing up.

**ARIZONA:** Cold, dry except scattered precipitation Mogollon Rim, White Mountains. Moisture under 0.50 in. Snow level around 4,500 ft. Temperatures averaged 3 to 9° below normal.

Cotton emergence, stand establishment slow Yuma County due to low soil temperatures. Replanting occurring. Planting beginning southeast, east. Planting full swing central. Small grains, safflower satisfactory progress. Wheat, barley heading most areas. Sorghum activity increasing. Sugarbeet planting, replanting completed Cochise County, reasonably good growth Yuma. Alfalfa hay cutting active warmer areas. Mixed vegetable harvest active. Lettuce harvest near peak Salt River Valley, nearing completion west. Potatoes, cucumbers, cantaloups, watermelons favorable growth. Thinning deciduous fruit underway. Harvest grapefruit, Valencias, few Kinnow mandarins active. Condition cattle, calves mostly good. Spring feed normal. Most slaughter lambs shipped.

**ARKANSAS:** Temperatures slightly above normal north to below normal south. Cool first and last of week. Warm midweek. Extremes: 87 and 33°. Precipitation general. Most amounts 0.50 to 1.25 in.

Fieldwork hampered by thunderstorms but some progress continued. Surplus soil moisture in Delta and most of south. Other areas moisture adequate to surplus. Fieldwork: 3.5 days suitable. Fuel and fertilizer supplies generally adequate. Cotton about 4% planted. Field preparation continues as soil dries. Rice 23% planted, 35% 1974. Planting proceeding at good pace. Little soybean activity at this time. Oats and wheat excellent condition, mostly joint stage. Some yellowing and virus problems. Corn 25% planted, sorghum 10%. Hay fields and pastures improving. Strawberries nearing full bloom, prospects excellent. Peach trees in bloom, good crop outlook. Tomato transplanting nearing completion. Cattle poor condition but showing improvement.

**CALIFORNIA:** Cool weather continued with scattered showers. Showers limited to north on 13th and 18th, most areas 14th through 16th, southern Sierra Nevada and south on 17th. Amounts light, from none southeast, less 0.25 in. elsewhere, except over 0.50 in. along north coast, southern San Joaquin Valley and parts Sierra Nevada. Low temperatures upper 20's to low 30's. Average temperatures generally 5 to 10 below normal all areas.

Small grains growing well, some fields cut for hay, aphids problem. Rice planting starting soon. Sugarbeet harvest continues. Cotton planting active, some fields replanted. Corn planting active. Safflower being weeded. Alfalfa cut and baled. Cool weather slowed fruit nut development. Apple, cherry, pear, walnut bloom various stages. Table grape thinning Desert. Navel orange harvest continues, Valencia harvest gaining. Lemon, grapefruit, avocado harvests active. Asparagus finished Desert, Delta; slowed Salinas, cool weather. Broccoli, cauliflower good supplies Salinas. Carrot active, celery light. Lettuce nearing completion Palo Verde, peak Bakersfield, beginning Salinas. Strawberry increasing. Processing tomato planting continues. Range feed conditions good except north. Feed east central valley beginning dry change color. Supplemental feeding virtually complete except north. Northern producers with low or depleted feed supplies cattle turned out early. Spring calving full swing some losses. Livestock generally good conditions. Spring shearing underway.

**COLORADO:** Mountain temperatures averaged 3 to 7° below normal, elsewhere 1 to 3° below normal. Snowfall 8 to 12 in. Mountains, 3 to 8 in. western valleys and northern foothills east slope. Precipitation eastern plains trace to 0.50 in.

Wet snow late week slowed fieldwork some areas. Planting momentum increasing as temperatures warm. Spring barley 32% seeded, 61% 1974, 59% average. Oats 37% planted, 52% 1974, 54% average. Sugarbeets 20% seeded, 38% 1974, 37% average. Emerging crops generally good condition. Winter wheat and barley good to poor condition depending locality. Some fields wheat lost to wind. Soil moisture improved slightly past week, but remains short. Alfalfa beginning green. Grasses very slow starting eastern plains from lack of moisture.

**FLORIDA:** Temperatures below normal north, near normal elsewhere. Showers associated with cool fronts brought moderate precipitation to most areas. Soil moisture excessive west and north, adequate central, mostly short south.

Heavy rains, some flooding delayed planting field crops west. Soils beginning to dry out. Corn planting about complete except wet areas. Peanut and soybean planting continues as soils dry out. Small grains fair condition. Peaches, nectarines good condition. Sugarcane harvest complete, young cane excellent condition. Grazing conditions range from very poor to good. Cattle and calves, fair to good condition. Citrus tree condition varies from good to poor, rainfall badly needed all areas. Irrigation in full use. Some wilt south with a little leaf loss. Potato supplies increasing, should continue until peak, late in May. Volume of sweet corn, cucumbers, lettuce, radishes, squash, tomatoes up. Watermelons up sharply. Cabbage continues generally steady but showing signs of seasonal decline. Peppers down. Strawberries down sharply, most other vegetables steady.

**GEORGIA:** Heavy rainfall central and south, moderate north. Rainfall north 0.6 in., 2.50 to 3.00 in. central and south. Temperatures below

normal, averages 4° below normal in Savannah to 8° below normal northwest. Showers most sections on 20th, amounts light.

Soil moisture surplus lower two-thirds, adequate northern third. Rain early week limited fieldwork to 2 days. Tobacco mostly fair to good. Transplanting 84% complete, 1974 and average 94%. Some replanting necessary. Corn mostly fair to good, 31% planted, 37% 1974, average 52%. Cotton plantings remain below 1974 and average. Peanuts 2% planted, 1974 4%, average 29%. Some replanting already necessary. Small grains mostly good. Peaches mostly fair to good. Watermelons mostly fair to good, 58% planted. Vegetables fair, moisture and cool nights inhibiting growth. Pastures fair to mostly good. Cattle mostly fair to good, hogs good.

HAWAII: Weather favorable and getting warmer. Rainfall light, mainly windward and higher elevation.

Irrigation heavy in drier areas. Frequent spraying to control insect infestation. Vegetable supplies adequate. Banana and papaya supplies light. Pastures in good condition. Moisture still sufficient most areas. Pineapple harvesting light. Sugar harvesting becoming more active. Few mills not in operation as yet.

IDAHO: Precipitation throughout, from 0.04 to 0.50 in. above normal south central to below normal elsewhere. Temperatures below normal. Maxima upper 50's high valleys and east to 60's elsewhere. Minima, teens and 20's east and south central to 20's and low 30's north and southwest.

Fieldwork widespread lower elevation southwest and central as more favorable weather prevailed. Soil moisture above normal. Warm weather needed to dry heavier soils. Fairly good crop development during week. Spring work most advanced southwest; 10% spring wheat and spring barley planted, oat seedings 15% complete, mixed grain plantings 20% complete, 10% sugarbeet acreage planted. Planting potatoes, onions, dry peas, and lentils, little progress. Livestock continue show stress from long cold wet winter. Shortages hay becoming more widespread. Growth on pastures retarded except southwest. Calving and lambing losses continue, but stabilized most areas.

ILLINOIS: Temperatures averaged 1 to 4° below normal. Precipitation 0.25 to over 3.75 in., northeast. Heavy thunderstorms 18th. Oat seeding 75% complete, 79% 1974, average 58%. Corn and soybean acreage 82% plowed, 79% 1974, average 62%. Corn planting has begun. Winter wheat mostly good condition. Pastures fair to good, supplying 40% livestock roughage. Hay crops fair to good. Little freeze damage fruit thus far. Soil moisture 4% short, 81% adequate, 15% surplus. Fieldwork: 5 days suitable.

INDIANA: Sunny and cool early week, later warm and humid, ending with chilly winds and lows in 20's. Rainfall exceeded 3.00 in. extreme north. Tornados in Grant and Marion Counties on night of 18th upset trailers and damaged some buildings but no fatalities. Growing degree days since April 1st much below normal. Soil temperatures below normal.

Fieldwork averaged 6 days. Topsoil moisture short to mostly adequate. Subsoil moisture adequate. Corn and soybean land 75% plowed, 55% 1974, 45% average. Oats 75% seeded, 25% 1974, 45% average. Oats 1 in. high. Wheat 5 in. high, 7 in. in 1973 and 1974. Apple buds 90% alive. Pastures poor to fair.

IOWA: Temperatures 1 to 4° below normal, greatest departure northwest. Precipitation below normal, except 0.50 in. above normal southeast.

Some spring fieldwork beginning. Work limited by wet conditions. Fieldwork averaged 1 day suitable. Oat seeding 6% complete, 68% average. Plowing localized progress only. Pastures poor to fair. Topsoil moisture adequate to surplus. Livestock fair to good. Some areas above normal death loss to new calves, some death loss to mature animals due to wet, muddy conditions.

KANSAS: Temperatures averaged slightly below normal north central to 3° above normal southwest and southeast. Temperatures warm early week, but in the upper 20's and 30's for minimum late week. Precipitation beneficial over most of State occurring first of the week and in the north and east on the 17th and 18th.

Warmer temperatures and precipitation promoted wheat growth. Still behind normal, 10% in jointing stage compared to 45% 1974 and 40% average. Moderate to severe soil-borne mosaic central. Moisture supplies still short in west. Oats 60% planted, 85% normal. Barley 60% planted, 85% normal. Corn less than 5% planted, normal 10%.

KENTUCKY: Well below normal temperatures early week and again late week, but averaged only slightly below normal. Rainfall averaged 1.00 in. west and central to 1.25 in. east.

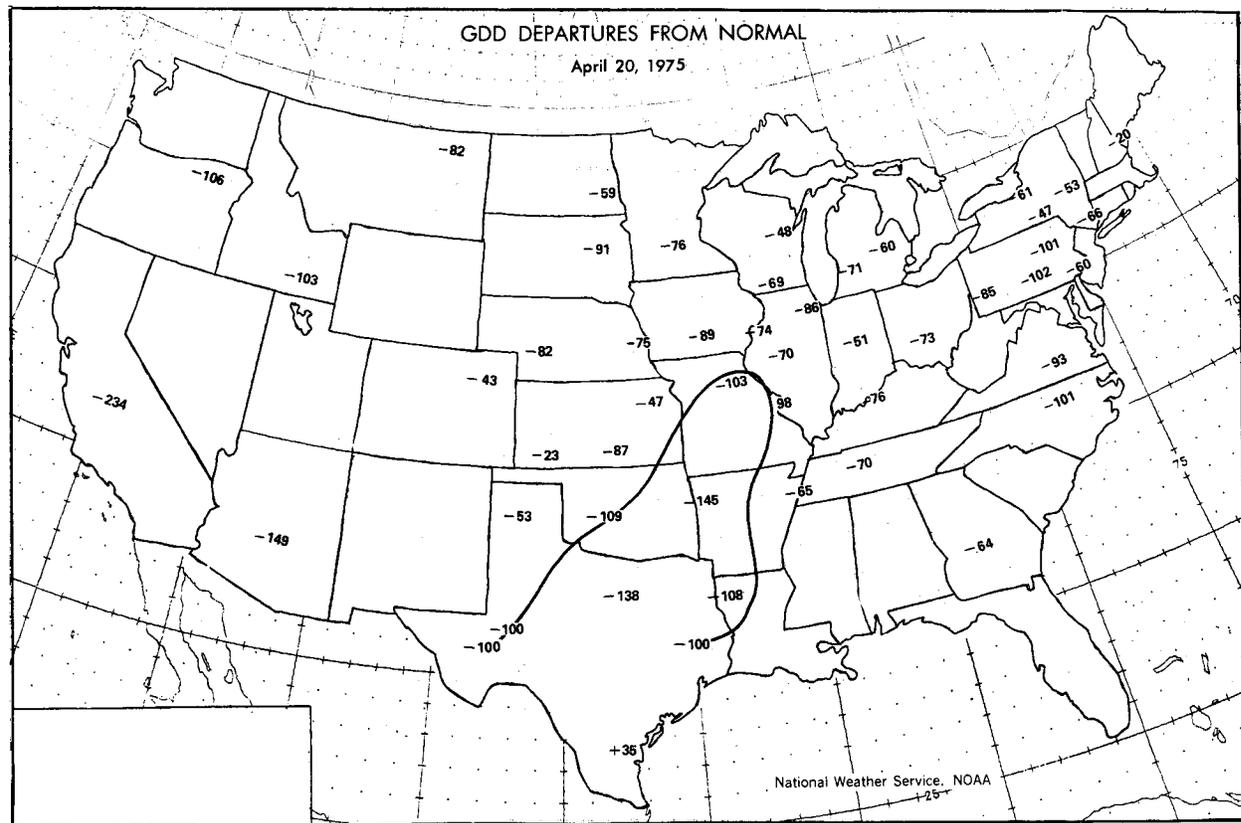
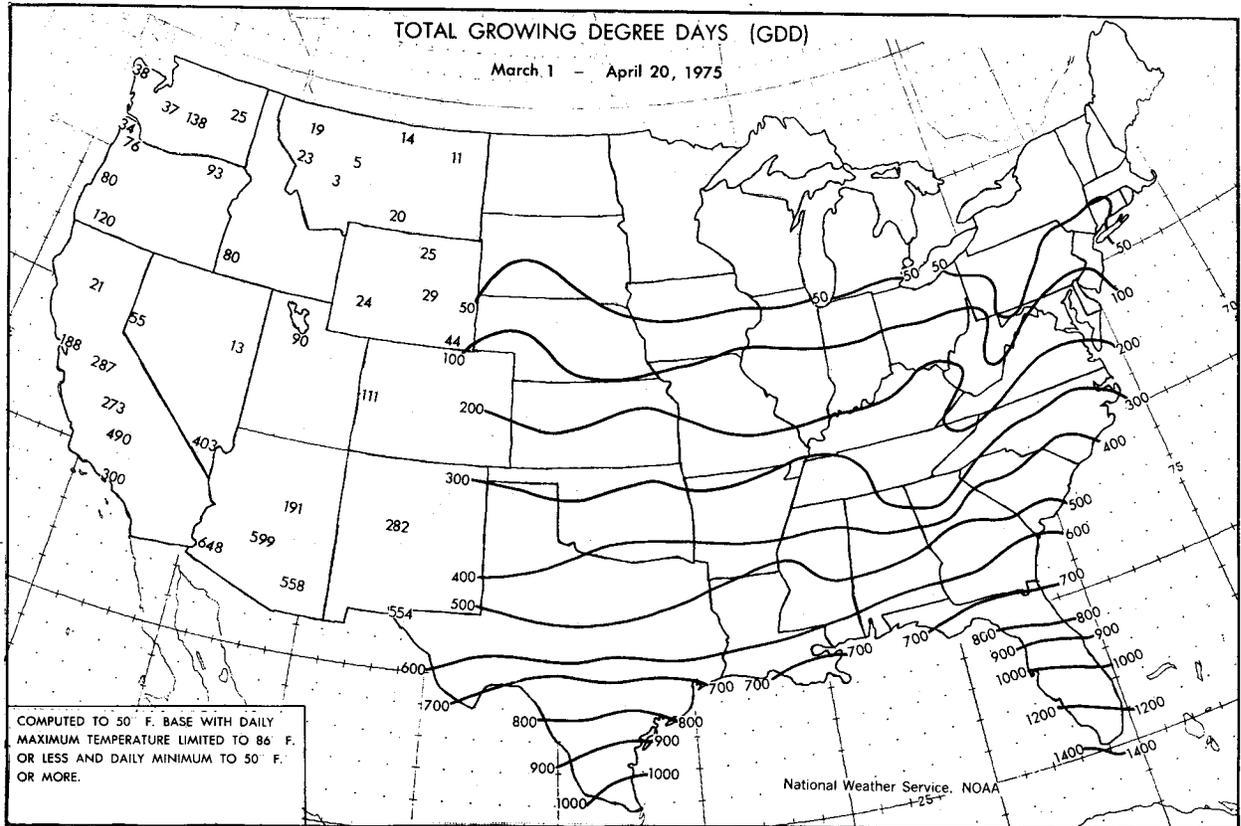
Fieldwork: 4 days favorable. Soil moisture mostly adequate to surplus, except shortage in topsoil north. Plowing 60% complete. Corn planting just getting underway south. Tobacco beds showing progress, most beds in, but seed slow germinating due cool weather. Small grain growth also slowed, little headed yet. Pastures grazed extremely close, most cattle still being fed roughage. Fruit prospects good.

LOUISIANA: Temperatures 1 to 4° below normal. Cool early, warming midweek, cooler over weekend. Extremes: 89° Natchitoches 18th, 38° Homer 15th. Precipitation beginning and end. Thundershowers locally heavy. Totals varied, less than 0.25 to more than 3.00 in. Greatest 1-day total, 2.83 in. Bogalusa on 15th.

Spring plowing little progress. Activities confined mainly to equipment repair and ditch work. Days favorable for fieldwork averaged 2.3. Soil moisture surplus nearly all parishes. Corn planting 40% complete, 60% 1974. Cool weather restricted germination and growth. Rice seeding possible by air only, 60% seeded, 75% 1974, 60% average. Half of crop up to stand. Farmers applying chemicals to control bronzing and grasses. Sugarcane fertilization and cultivation little progress. Cool, wet weather slowed growth. Cabbage harvest active. Vegetables need warmer weather for optimum growth. Pastures mostly average except below average north central. Cattle remain mostly fair.

MARYLAND AND DELAWARE: Temperatures 4 to 9° below normal. Highs; low 60's to low 70's, lows; upper teen Garrett County, elsewhere low 20's to low 30's. Precipitation throughout, ranged 0.02 to 2.10 in. Heaviest Eastern Shore of Maryland and parts of Delaware. Weekend warmer.

Spring work one week behind normal. Topsoil becoming dry west. Maryland, adequate to excessive elsewhere. Spring oats seeding 60% done, usual 73%. Land preparation for corn active, few fields planted. Tobacco growers active hauling and selling 1974 crop and caring for 1975 plant beds. Peach and apple bloom opening slowly, peaches



nearing full bloom, apples first week in May. Strawberries near full bloom.

**MICHIGAN:** Temperatures near normal. Average temperatures from near 40° Upper Peninsula to high 40's south. Precipitation heavy. Spring storm late 18th and 19th accompanied by locally heavy thunderstorms and rain; over 3.00 in., locally southwest. Williamston had a near record of 4.86 in. in 24-hours. Many areas especially in Lansing and Flint had extensive flood damage as local rivers went over banks. A tornado touched down in Frederic, in northwest Crawford County on morning of 18th, damaging several homes and overturning some mobile homes.

Weekend rainstorms held up earliest field preparations in southern counties. Field damage from flooding was light. Winter wheat is just starting to break dormancy.

**MINNESOTA:** A cool wet week. Averages 2 to 6° below normal. Precipitation averaged 0.50 to 0.75 in., a little above normal. Moderate flooding Red River Valley. Mississippi River snow melt producing crests and minor flooding north at week's end.

Fieldwork will start two to three weeks behind normal all areas. More than normal plowing last fall will help speed ground preparation. Fieldwork expected to start about April 25th south, May 1st central; mid-May north. Farm yards muddy, feeding livestock difficult. Hay supplies short, expensive. Winter wheat, rye, pastures normal. Topsoil moisture mostly adequate. Subsoil moisture still short west central and southwest.

**MISSISSIPPI:** General rain throughout. Temperatures averaged 8° subnormal. Extremes: 87 and 28°. Greatest 24-hour rainfall 3.26 in. at Poplarville on 14th.

Soil moisture mostly surplus. Fieldwork: 1.8 days suitable. Plowing 45% complete. Cotton less than 1% planted, 3% 1974, normal 12%. Corn 22% planted, 29% 1974, normal 24%. Rice 2% planted, 24% 1974. Wheat 87% jointing, oats 86% jointing. Condition of wheat, oats, and Irish potatoes fair to good. Condition of peaches, truck crops, pastures and livestock mostly fair.

**MISSOURI:** Temperatures 2 to 6° below normal coldest in Bootheel. Precipitation general, averaging 0.33 to 0.50 in., exception of northwest prairie where average 1.00 in.

Fieldwork: 3.5 days suitable. Plowing 47% complete, 69% 1974. Seeding oats 46% completed, 91% 1974. Corn 6% planted, 16% 1974, 11% average. Wheat fair to good, only northeast and southeast corners report poor fields. Pastures mostly fair to good, soil moisture adequate.

**MONTANA:** Mild west, moderating temperatures east. Temperatures 2° below normal west to 10° below southwest. Maximums mostly 50's, minimums mid-week mostly in 20's. Precipitation near or below normal with only significant amounts extreme south.

Farm fieldwork delayed by wet soils. Tillage and planting nearly 3 weeks late starting. Topsoil moisture adequate all areas. Winter wheat condition fair to good. Winterkill mostly light. Ranges dormant, most livestock on hay. Calving about 70%, lambing 69% and shearing 50%.

**NEBRASKA:** Warm temperatures 16th and 17th, otherwise below normal, averaging 2 to 7° below normal. Precipitation averaged 0.10 to 0.20 in. west, 1.00 to 1.25 in. east.

Fieldwork: 3.5 days suitable. Oat and barley

seedings averaged 20% and 15% complete, respectively. Topsoil moisture supplies improved, short 20% adequate 72%, surplus 8%. Subsoil moisture short 91%. Winter wheat in fair to good condition, moisture helped. Bare spots beginning to green. Alfalfa and wild hay in fair condition, need warmer temperatures. Sugarbeet ground preparation progressing and planting underway. Pasture and range feed conditions short 95%. Pastures growing slowly.

**NEVADA:** Cold weather prevailed, temperatures averaged 5 to 10° below normal. Extremes: 16° at Ely to 78° at Logandale. Frequent periods rain and snow Austin had greatest amount with 1.56 in.

Little progress seedbed preparation. Alfalfa having limited scale southern valleys. Movement livestock to ranges slow.

**NEW ENGLAND:** April 13th to 19th was quite dry, total precipitation 0.05 to 0.40 in. limited to the Cape Cod area. South and central New England temperatures ranged 50's to 60's with 10° colder in far north. High winds on 19th, most coastal areas had gale warnings.

Plowing and planting sweet corn and potatoes began Connecticut and Massachusetts. Rhode Island planting potatoes progressed rapidly with favorable spring weather.

**NEW JERSEY:** Temperatures averaged near normal north and central, 3° below normal in south. Averages: 49° north, 52° central and 51° south. Extremes: 25° Newton on 16th and 78° at Bridgeton afternoon of same day. Rainfall averaged below normal north and central, but above normal in south. Snow and rain mixed fell at Cape May Court House on 14th.

Soil moisture as % of field capacity, averaged 95% north 89% central and south. Soil preparation and planting active. Replanting wind damaged vegetable acreage. Below normal temperatures continue to delay crop development and fruit bloom. Spreading of lime and fertilizer active as weather permits.

**NEW MEXICO:** Precipitation sparse with a few tenths over the northern mountains. Temperatures generally a few degrees below normal, although the first and last of week above normal. Minimum temperatures reached dangerously low on 18th and 19th for fruit growers in north.

Soil moisture short to mostly adequate. All crops fair to good. Small grain jointing 30 to 35% complete. Cotton less than 5% planted, soil temperatures too cool for favorable germination. Apples good with early buds lost to cold temperatures. Pecans are budding. Livestock fair to good, calving, lambing active. Ranges fair, starting to green.

**NEW YORK:** Temperatures moderated. Late week temperatures reached the lower 70's west and lower Hudson Valley, elsewhere in the 60's. Minimum temperatures in low to mid 20's except for the 30's in Long Island and New York City. End of week warmed to near 50°. Precipitation below normal for second week in row. The danger of brush and forest fires remained extremely high. Light rain fell late week eased fire danger somewhat.

Growing season late. Plowing underway most areas on well-drained soils. Few oats have been planted. Long Island soil in good condition, 50% potatoes planted. Cabbage transplanting underway on 16th and some onions and early variety sweet corn planted. Onion planting underway Elba muck area and Orange County. Planting green peas for processing started. Strawberries being uncovered. Tying grapes continues in Finger Lakes.

**NORTH CAROLINA:** Temperatures 5 to 7° subnormal. Precipitation light in mountains, moderate to heavy east.

Fieldwork: 3.7 days suitable. Soil moisture 2% short, 75% adequate, 23% surplus. Flue-cured tobacco beds fair to good; burley beds fair. Small grain crops fair to good. Flue-cured tobacco in fields fair. Pasture conditions good. Irish potatoes, truck crops, and peaches fair to good condition. Corn 28% planted, 1974 14%. Flue-cured tobacco 4% planted, 1974 4%. Sorghum grain 8% planted.

**NORTH DAKOTA:** Another cool week with temperatures below normal. Average low temperatures from 8° below normal southwest to 1.4° below normal east central. Extremes: 53° at Pembina to 19° at Fortuna. Below normal precipitation northwest, low of 0.05 in. at Rugby. Above normal precipitation most of southeast maximum of 1.30 in. at Fargo. Greatest 24-hour total at Fargo with 0.63 in. on 17th. Greatest weekly total at Fargo with 1.23 in. Generally welcome warming trend on 20th with few showers occurring mostly west and central.

Virtually no fieldwork to date. Clear skies and warmer temperatures needed to dry muddy fields and help newborn livestock. Pastures, haylands and fall sown crops greening up. Some flooding as snow melted along with additional rain.

**OHIO:** Freezing or below temperatures somewhere in State everyday from 14th to 17th. Temperatures ranged from 79° south to low of 23° northwest. Most precipitation occurred on 18th and 19th and ranged from 0.93 to 0.24 in. Precipitation well below normal for month.

Corn planting over 5% done; normally very few fields are planted by date. Oat seeding advanced to 75% completed, 45% 1974, and 40% normal. Sugarbeets 70% planted, 60% 1974 and 40% normal. Plowing nearly 90% completed, 75% 1974, 60% normal. Cool, dry weather has lowered crop conditions. Wheat fair to good; pasture poor to fair; hay fair. Soil moisture 57% short, 43% adequate. Nearly 7 days favorable for fieldwork.

**OKLAHOMA:** Temperatures averaged from 4° subnormal to 2° above normal. Precipitation averaged from 0.20 to 0.60 in. Weekend mild and mostly dry.

Most wheat good condition, 73% jointing, 90% 1974 and average. Barley 60% jointing, 69% 1974, 81% average. Oats 55% jointing, 66% 1974, 67% average. Greenbugs widespread Panhandle, easing some southwest. Panhandle dry, especially western half, intensifies bug problem. Slight amount of freeze damage appearing in wheat southwest. Alfalfa weevil infestations statewide, most heavy. Row crop seedbed preparation advanced, small amounts of corn and sorghum planted south and east. Pastures continue improving slowly, cattle mostly fair condition.

**OREGON:** Temperatures below normal. Maximum temperatures in 60's and low 70's, west, 50's and 60's, east. Minimum 30's west, low 20's east. Precipitation central coast and southwest interior valleys, from 0.50 to 1.00 in., east 0.25 to 0.33 in. and 0.25 in. or less elsewhere.

Fall grains fair to good. Plowing, seeding spring grains. Hay crops developing slowly due to cool weather. Fruit trees beginning bloom. Strawberries, caneberries coming out. Green peas planting continues. Asparagus harvest expected to begin. Potatoes emerged in Hermiston area. Feed supply becoming short. Range and pastures showing slow growth. Livestock in good condition.

**PENNSYLVANIA:** Sunny, cool and dry most of week. Temperatures averaged 1 to 4° subnormal extending cooler than normal trend 4th consecutive week. Daytime highs 15th to 19th mostly in 50's and 60's, lows 40's and 50's. Cool and cloudy beginning and end of week with blustery northwest winds 20th and 21st. Showers 15th and again on weekend brought 0.30 in. or less rainfall all but northwest where up to 0.80 in. including few snow flurries on 15th.

Soil moisture mostly adequate to short. Cool late spring delaying crop progress and activities. Major activities included plowing, planting oats, making maple syrup, grape tying and trimming, pruning fruit trees. Barley and wheat condition good. Plowing 25%, 1974 33% done.

Oats and tobacco 20% planted, both behind 1974. Hay condition mostly fair to good.

**PUERTO RICO:** Island average rainfall 0.21 in. Highest weekly and 24-hour total 1.62 in. at Lares. Temperatures averaged 77° on coasts and 71° interior. Extremes: 50 and 95°.

Dry weather favored continuation of sugarcane harvest, but retarded development of new cane already planted, especially south coast. Good flowering of coffee shrubs but lack of rain hindering development of bean. Weather favored tobacco harvest and drying in the shed. Scarcity of pastures, serious due dry weather, especially southern slopes and south coast. Food crops suffering due lack of rainfall.

**SOUTH CAROLINA:** Early week averaged colder than normal, temperatures rising above normal last half. Low temperatures in 30's west and central, with some frost. Freezing occurred at higher elevations northwest. Rainfall above normal south and central, below normal northwest. Precipitation occurred first two days, again end of week. Heaviest rainfall south, up to 3.00 in.

Cotton planting remains behind schedule, 5% planted, 10% 1974, 20% average. Corn condition fair; 47% planted, 57% 1974, 46% average. Tobacco fair to good, some problems with cutworms; 50% planted, 82% 1974, 50% average. Small grains good condition. Pastures still improving, some farmers continue fertilization programs. Peach condition good. Farmers spraying, trees need warmer weather. Watermelons fair, some reseeding necessary, 75% planted. Peanut planting underway; 18% planted, 19% 1974, 13% average.

**SOUTH DAKOTA:** Temperatures averaged 1 to 6° below normal. Extremes: 20° Ralph and Vale 14th, 74° Edgemont and Oelrichs 16th and 17th. Moisture ranged from trace to over 2.00 in., heaviest rainfall in east.

Fieldwork made little progress and is well behind normal. Spring plowing 7% complete, 1974 28%, normal 23%. Spring wheat 7% complete, 1974 47%, normal 39%. Oats 4% seeded, 1974 46%, normal 42%. Barley 3% seeded, 1974 35% normal 34%. Livestock in fair to good condition. Newborn livestock losses above normal. Yards very muddy, some farmers moving cattle to pastures for feeding and calving purposes. Most pastures have not greened up yet.

**TENNESSEE:** Week marked by intermittent thunderstorms, windy conditions and sunny skies. Rainfall averaged less than 1.00 in. west, 1.00 to 2.00 in. east. Temperatures averaged in 50's east to 60's west, normal west and below normal east.

Corn 11% planted, 11% 1974, 14% normal. Very

little cotton planted, 5% normal. Small grains started heading, 1 to 2 weeks late. Plowing one week behind 1974, 2 behind normal. Tobacco 2 weeks late, many beds in poor condition. Pastures and hay beginning to grow but late and short. Soil moisture generally adequate.

**TEXAS:** Thundershowers dampened east early week, most State unseasonably dry. Rainfall amounts highly variable. Heaviest near Sam Rayburn Lake nearly 1.50 in.; rest southeast, generally less 1.00 in. Light showers west Abilene, northeast, lower coast, totals very light. Temperatures near normal. Dry, westerly winds swept dust south plains into north central. Wheat, oats excellent progress. Grain crop prospects above average most areas. Fields headed out Low Plains southward, early stands south near harvest. Recent rains beneficial, additional rain north help insure excellent crop. Planting cotton, corn, sorghum, peanuts delayed because wet fields. Moisture conditions adequate, satisfactory growth, allow farmers complete planting. Cotton planting activity resumed Blacklands, East, South central as fields dried out. High, Low Plains seedbed preparations continue, planting begins when soil temperature conditions permit. Major crops % planted: Cotton 13, 1974 22, average 17; sorghum 38, 1974 40, average 37; rice 79, 1974 77, average 72; peanuts 14, 1974 6, average 10; corn 56, 1974 70, average 61; sugarbeets 88, 1974 100, average 78. Lower Rio Grande Valley: Onion harvest continues to gain momentum. Light supplies cabbage, carrots, and cucumbers. Watermelons, honeydews, cantaloups requiring heavy irrigation. Coastal Bend: Many watermelons beginning show stress from lack of rainfall. San Antonio-Winter Garden: Carrots, cabbage harvest continues, onion harvest started. Laredo: Onions good growth, harvest early fields underway. Watermelon planting continues several areas. Peach harvest started early varieties far south. Pecan trees blooming south central, along upper coast, other areas, trees budding, leafing. Citrus trees requiring heavy irrigation and routine grove care continues. Livestock generally fair to good condition. Pastures responding to rainfall and warm temperatures. Short moisture South, Coastal Bend restricting growth, overgrazing common. Rain, cool weather stress cattle east. Rains provide grazing late spring, early summer; boost early hay cutting. Goat shearing virtually complete. Sheep shearing continues rapid pace. Screwworm cases confirmed Coastal Bend.

**UTAH:** Recurring periods rain and snow again most areas. Accumulated amounts moisture generally heavy, but little or none Uintah Basin. Average temperatures 2 to 9° below normal for fourth consecutive week. Accumulation of growing degree days since March 1st, ranges from 130° days behind normal to over 200°.

Cold weather held fieldwork to minimum, only 3 days suitable. Near freezing and below freezing temperatures at night continue critical for fruit crops. Little progress spring planted crops. Spring wheat only 20%; oats 10%; barley 24%; green peas 21%; onions 32%; sugarbeets 11% planted. Calving about 68% complete, sheep shearing at a stand still. Soil moisture adequate.

**VIRGINIA:** Rained entire period, average 0.92 in. east. Highest average 1.77 in. Average temperatures 49°, 8° below normal. Extremes: 79 and 20°.

Fieldwork 4.0 days suitable. Topsoil moisture 74% adequate, 21% surplus, 5% short. Corn planting 6% complete, 1974 10%, average 14%. Southeast 20% planted. Small grains generally good condition. Barley heading. Aphids in barley, powdery mildew in wheat causing some problems. Tobacco plant growth behind normal, poor stands some beds. Potato planting 80% complete commercial area. Excess moisture has caused some replanting. Peaches in bloom stage, damaged by frost, extent not known. Fruit prospects good. Pastures growing slowly, too cold. Cattle moved to permanent pasture.

**WASHINGTON:** West: Temperatures and precipitation both subnormal. Extremes: 50's and 30's. Precipitation totals from 0.10 to 0.40 in.

Planting seed crops: Beets, spinach, mustard. Also planting early lettuce and potatoes. Caneberries showing good growth locally. Harvest of forced rhubarb tapering off. Tulip picking active. Cattlemen holding livestock off pastures until grass increases growth. Some early fertilizing of pastures and hay crops but warmer temperatures needed. East: Temperatures average 2 to 5° subnormal. Extremes: 70's and 30's. Precipitation midweek, total amounts 0.10 to 0.70 in.

Cool temperatures slowed development in orchards, but were good for fruit set. Installing frost equipment and irrigation systems, applying herbicides, dormant spraying. Apricots and peaches in bloom. Pears in popcorn stage. Planting potatoes, alfalfa and spring wheat. Replanting sugarbeets. Stringing hops, twining grapes. Preparing land for asparagus and sweet corn. Fertilizing wheat fields. Bluegrass seed fields look good. Some improvement in winter wheat fields, but most still under cold stress. Cattle feed reserves running out and pastures are sparse.

**WEST VIRGINIA:** Temperatures below normal. Precipitation normal central and south, below normal elsewhere.

Fieldwork: Suitable 4.5 days. Soil moisture short to adequate. Some grass tetany problems with livestock. Farm activities include plowing and planting.

**WISCONSIN:** Wide variety of weather, partly cloudy to cloudy with a few sprinkles through 16th, with moderating temperatures. Turbulent weather on 17th and 18th with widespread rain and thunderstorms. Severe thunderstorms contained scattered hail and heavy rain as they passed through west central and south. Rain changed to snow north on 17th. Cloudy, windy, and colder with light showers and snow flurries on 19th and 20th. Precipitation ranged from 0.10 to above 1.00 in. Temperatures averaged 1 to 4° below normal.

Fieldwork very slow to start, little done anywhere.

**WYOMING:** Temperatures well below seasonal normals. Precipitation below normal. Mostly widely scattered snow showers.

Fieldwork slow. Spring planting two weeks behind 1974. Spring wheat 12%, oats 11%, barley 17%, sugarbeets 3% seeded. Topsoil moisture adequate. Good prospects for winter wheat, alfalfa. Calving and lambing about same progress as 1974. Calving 65% complete. Range lambing nearly 40% completed, farm flocks 75%. Shearing slightly more advanced than year ago with range flocks 40%, farm sheep 65% completed.

## WORLD AGRICULTURE WEATHER SUMMARY

**HIGHLIGHTS:** Soil moisture continues to be short across the southern USSR and water conservation measures are receiving high priority. Furthermore, warm, windy weather the first half of April caused additional aggravation as temperatures often reached the upper 70's and 80's with some blowing soil. Crops are well ahead of normal. Romania and Bulgaria need soaking rain.

Cool, wet weather returned to much of western Europe where farmers need dry spells to advance spring activities. When March comes in like a lamb, out like a lion, as this year, to the Irish it traditionally betokens poor summer weather to come.

Rainfall would be welcome to many areas of the Mediterranean Basin, Spain, southern Italy, Sicily, and Greece in particular. Spring rains did improve crop and irrigation prospects in Portugal, Morocco, and Algiers though perhaps too little too late for winter grain.

Liberia, Ivory Coast, and Ghana received good March rains as did Tanzania, Uganda, Angola, S.W. Africa and The Orange Free State of S. Africa. It was quite dry in Kenya, Sudan, Somalia and probably Ethiopia.

Typhoon "Alison" drenched Australia's southeast coast and brought relief to dry conditions in New Zealand. Interior portions of New South Wales, Victoria, South Australia, and southern Western Australia were relatively dry.

China weather was seasonally dry in the north trending to seasonally wet in the south with some promising rains in the north in mid-April.

Argentina was dealt too much rain. On March 16-17 ten or more inches fell in about as many hours at many stations causing flooding and damage to crops and irrigation facilities. Weather was more benevolent in Brazil although heavy seasonal rains occurred in the northeast. Parts of the Caribbean region, Jamaica as an example, have been drier than usual and desperately need rain.

India and Pakistan received beneficial rains in the north where winter wheat production is important but moisture remained short in most other regions.

Winter has been holding on in Canada.

**GRAIN:** Soil moisture throughout much of the USSR's winter and spring wheat belts is not as good as a year ago nor is it up to normal. Winter snowfall tended to be sparse and precipitation this spring to mid-April has been mostly light. Field activity including spring seeding has advanced well but unusually warm and windy weather has taxed moisture reserves and caused some soils to blow. The Odessa area reported severe blowing soil on April 14th. Dry conditions extend into Romania and Bulgaria.

Elsewhere in Europe spring weather has been relatively cool and wet (though rather dry in Poland) delaying growth of winter grain and slowing spring planting activities. Storage water for rice improved considerably in Portugal. The Mediterranean Basin other than northern Italy needs rain. Spring rains though helpful were mostly "too little, too

late" to materially increase winter wheat prospects in the region including Morocco, Algeria, and Tunisia. Sicily, an important Durum wheat producer, has been especially hard hit. Good early April rains in Yugoslavia were in time to benefit wheat there.

Wheat harvest has begun in India and Pakistan. Though not particularly generous, growing season rains were timely enough in Pakistan to warrant a Pakistan Government forecast of between 7 and 7.5 million tons, better than earlier forecasts. India's important wheat producing states of the north--Uttar Pradesh, Haryana, Bihar, Punjab and Madhya Pradesh--also picked up timely rains and production is expected to be better than what would usually be expected from such limited rainfall.

Spring rains began in earnest in south China, relieving some dry spots and enhancing rice planting and growth. The winter wheat region of the north was mostly seasonally dry and now in need of rain, perhaps relieved somewhat by quite general rain April 15-17.

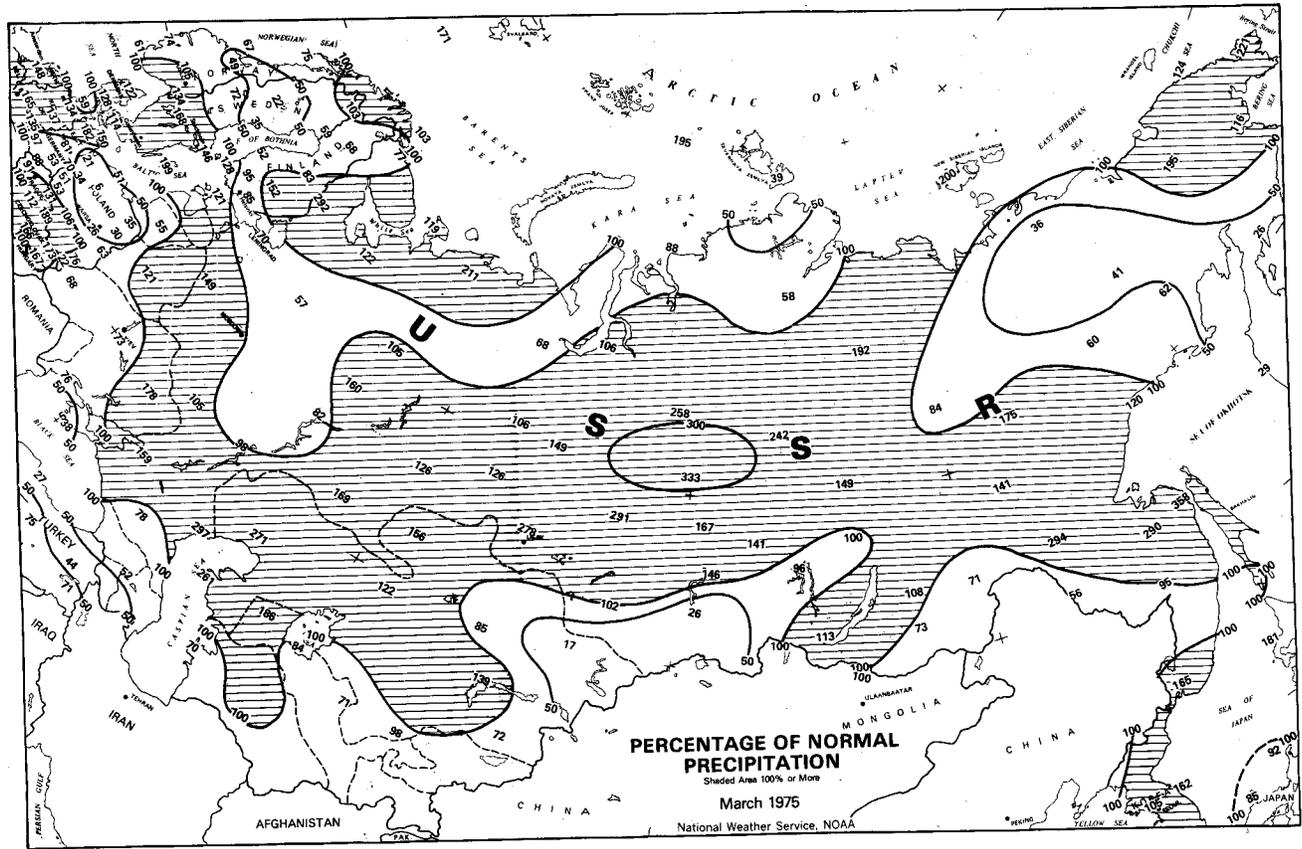
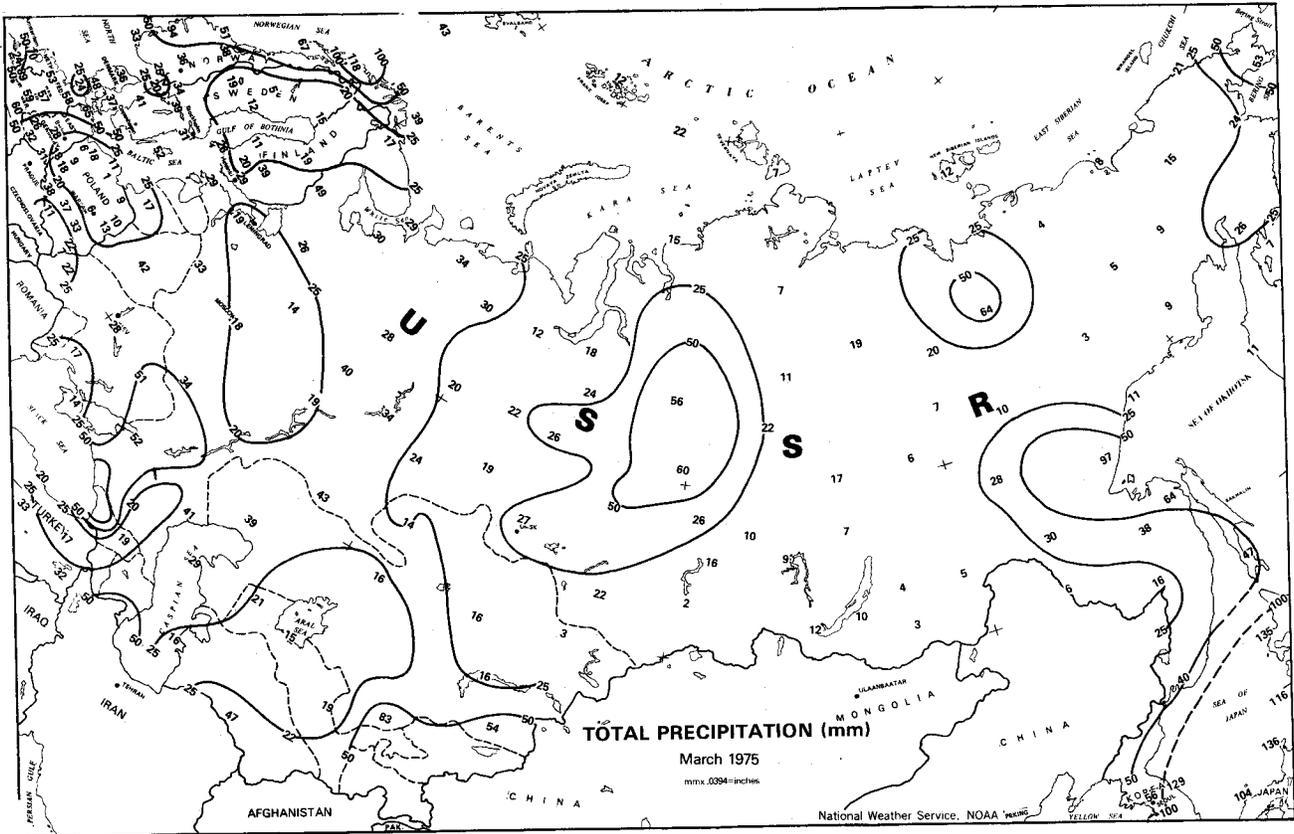
Weather has been favorable for rice in Indonesia.

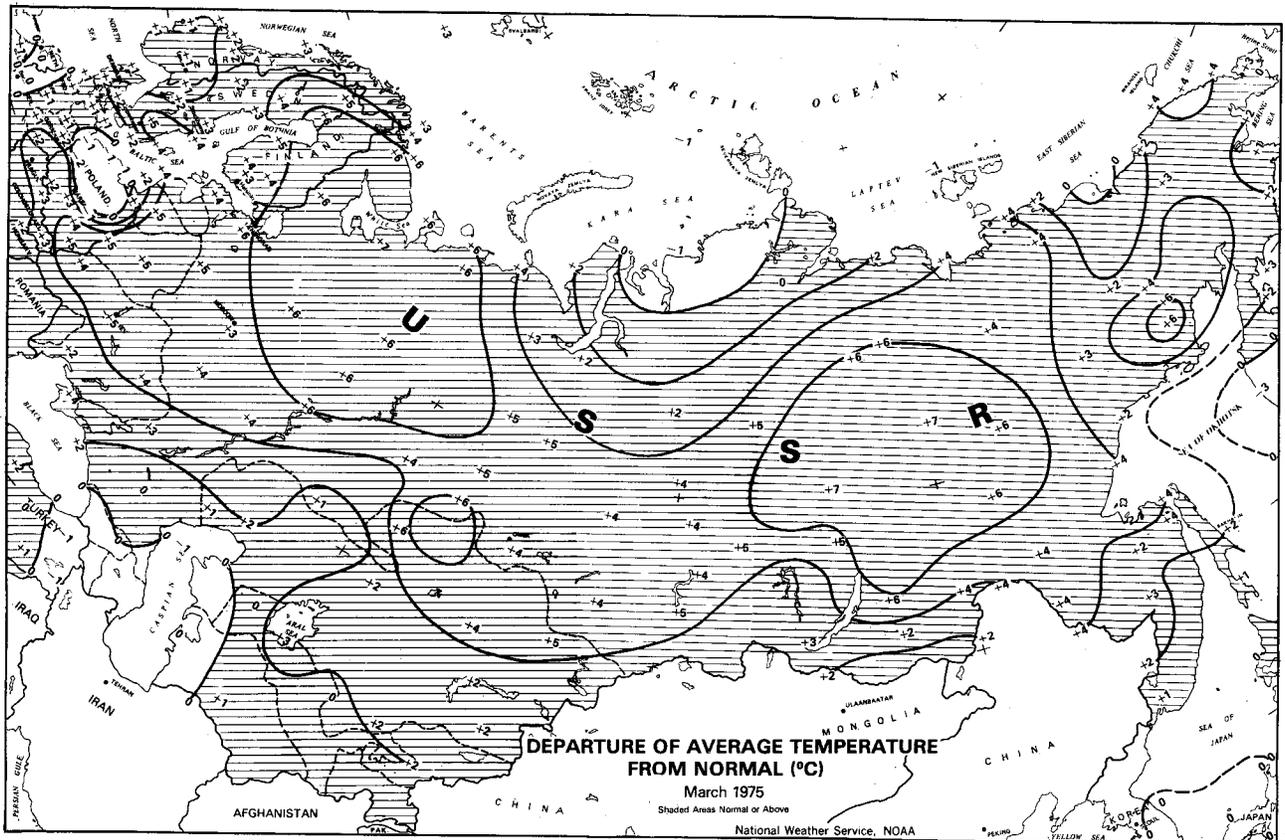
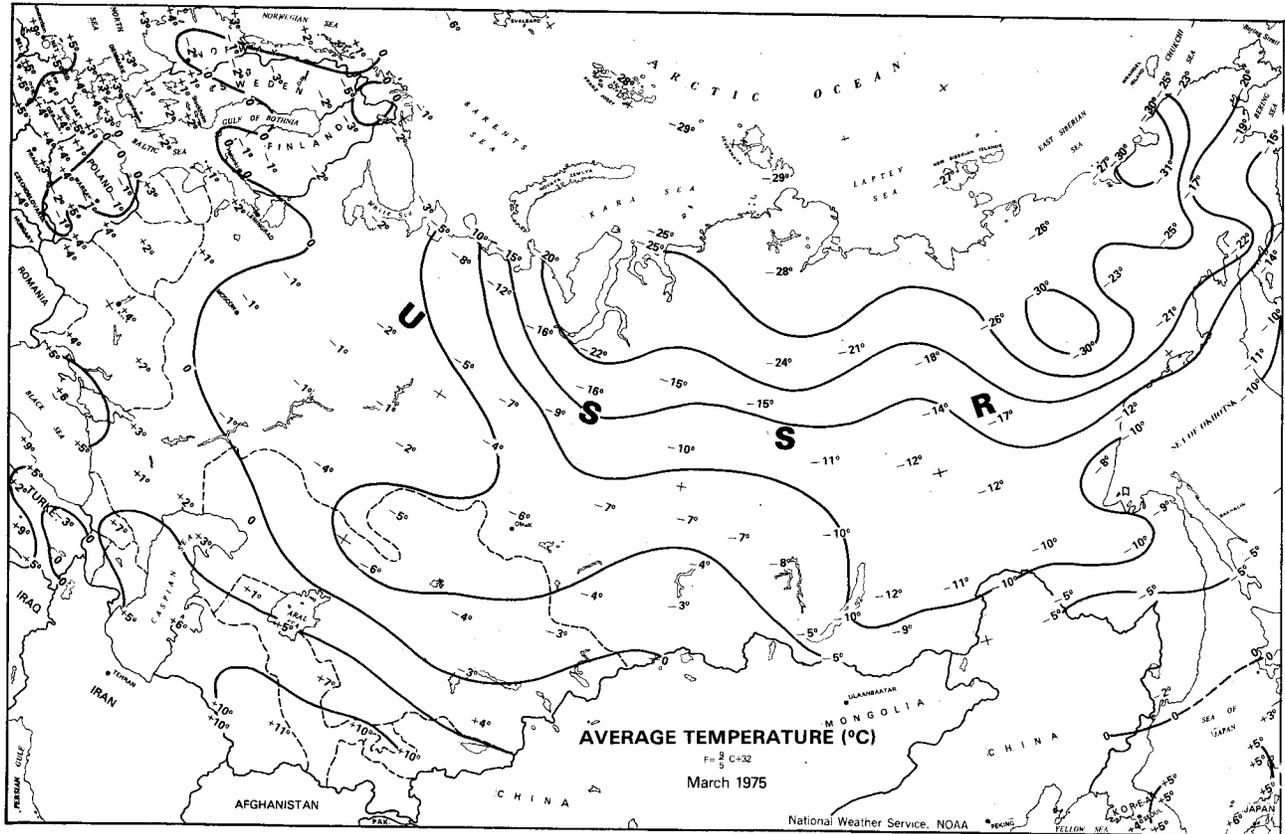
Torrential rains coupled with flooding damaged corn and sorghum in Argentina in mid-March; while Brazilian crops profited by more reasonable amounts and less violence.

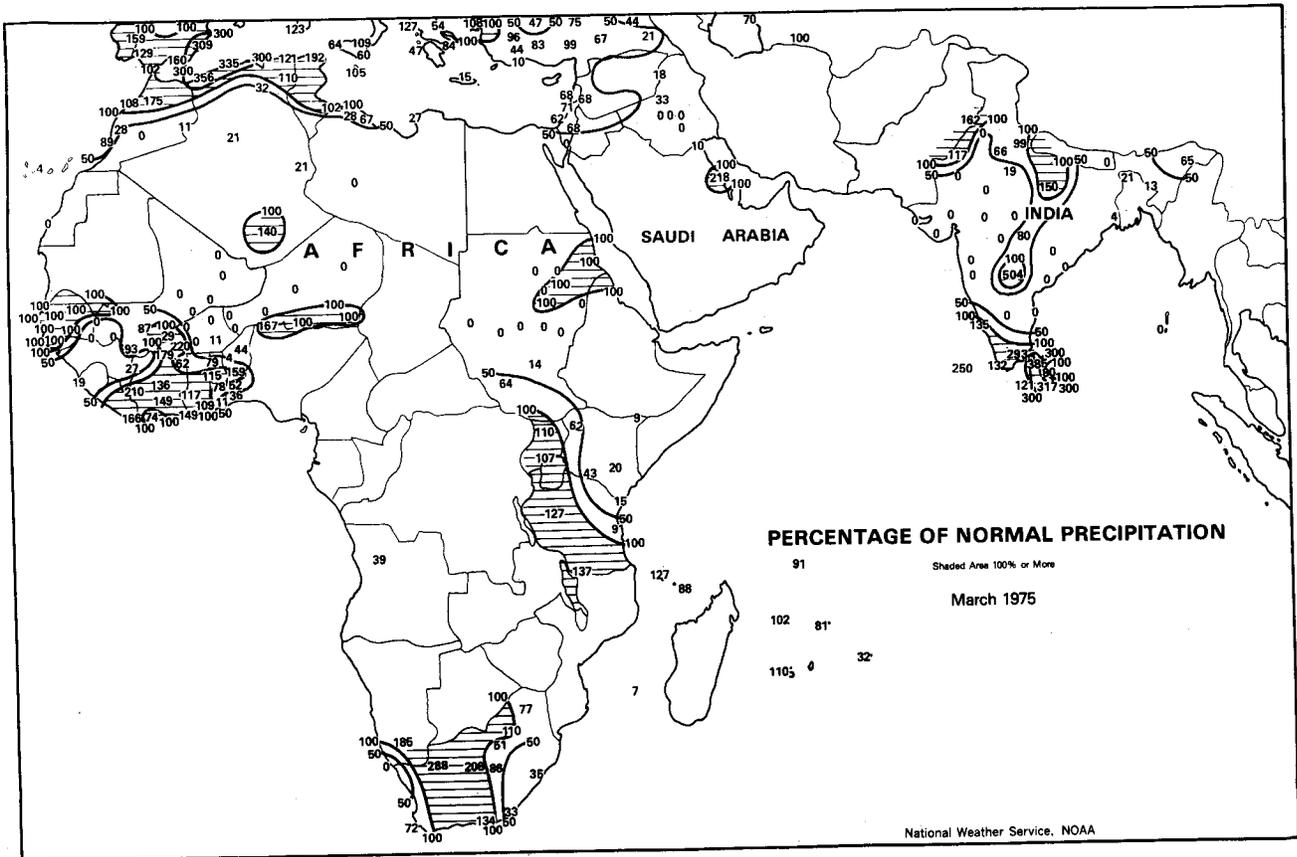
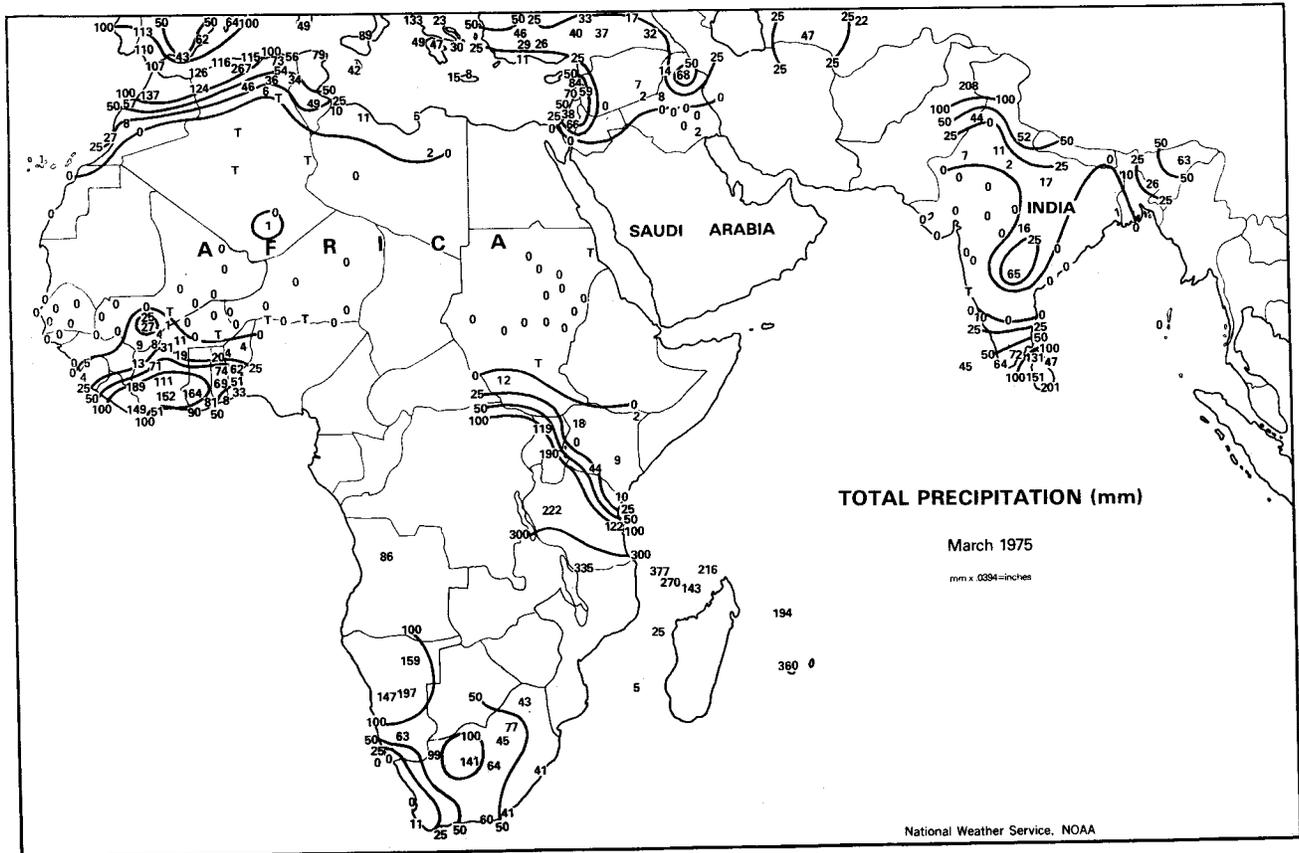
**HORTICULTURE:** France reports frost damage to stone fruits and grapes--they were more advanced than usual due to the mild winter. It is likely some other European countries have similar problems. High winds and salt spray damaged almond trees and production prospects in Portugal; on the other hand good March rains eased drought and improved irrigation water storage for tomatoes. The heavy rains and winds in Argentina reduced apple and pear production and damaged irrigation networks. Prolonged dry weather has hurt citrus in the interior of New South Wales, Australia, and orchards in southeast Thailand.

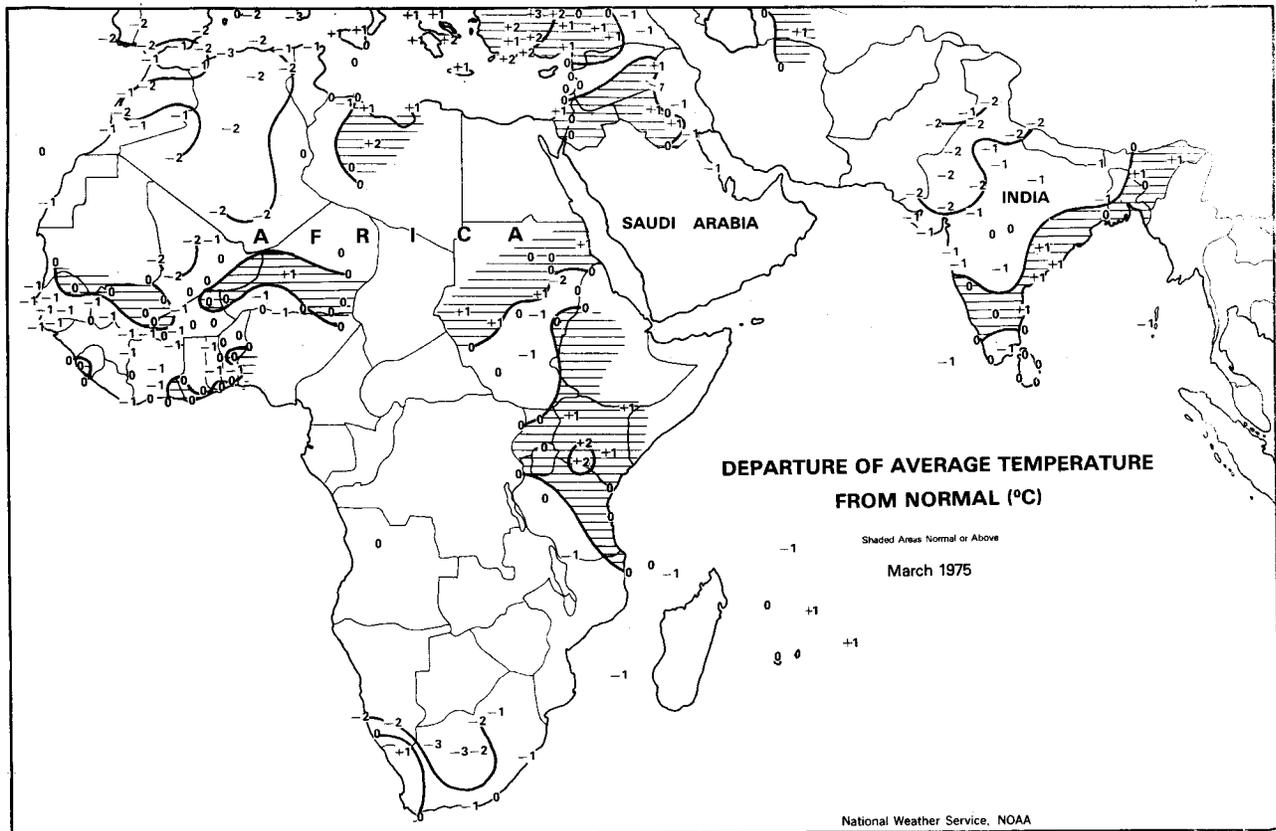
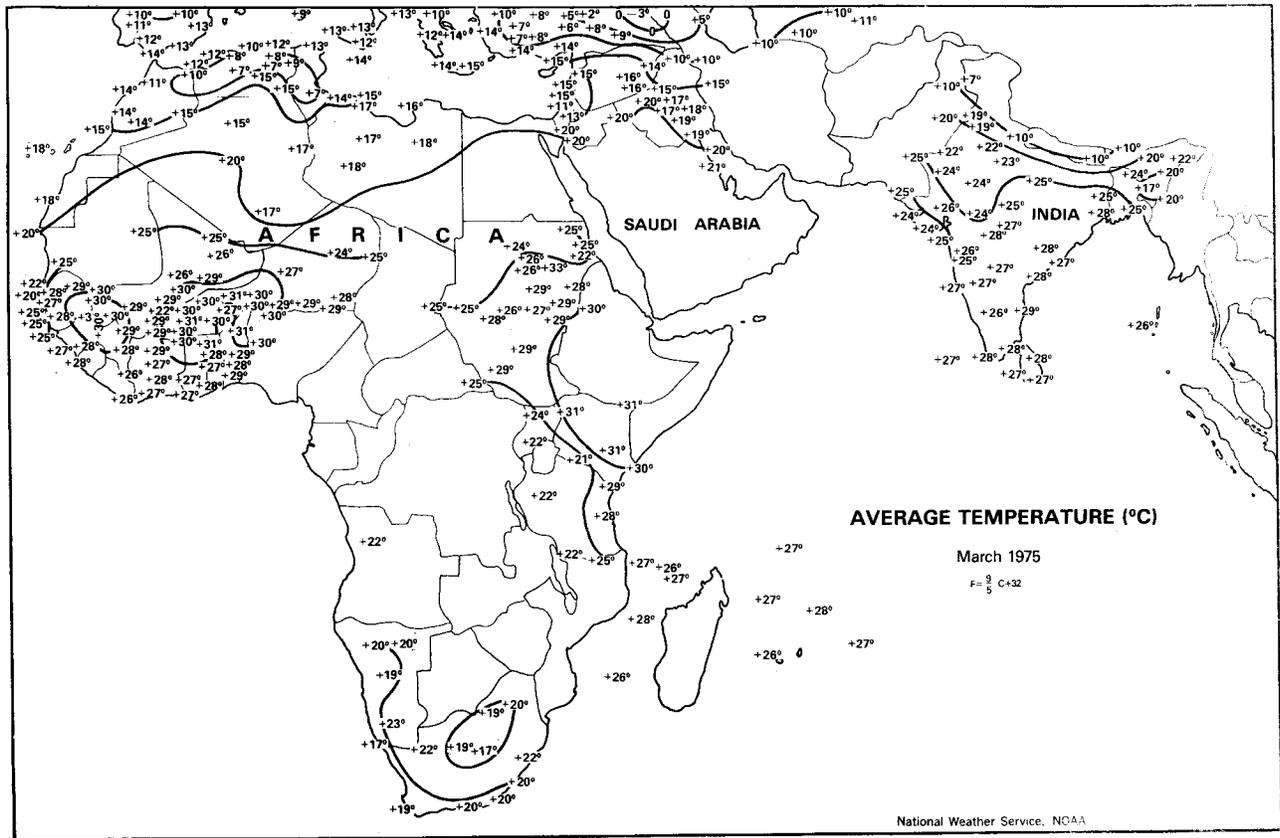
**FORAGE:** Pastures benefitted by good precipitation in major cattle areas of South America, Australia, New Zealand, south China, Portugal, and in Africa except The Sahara, Sahel and Kenya northwards in the east. Some stress from dry weather stretches across southern latitudes of Eastern Europe and Asia from Bulgaria and Romania well into Siberia, and throughout much of the Mediterranean and Caribbean. Mexico reports very dry conditions in the northeast; however, the northwest has received good rains.

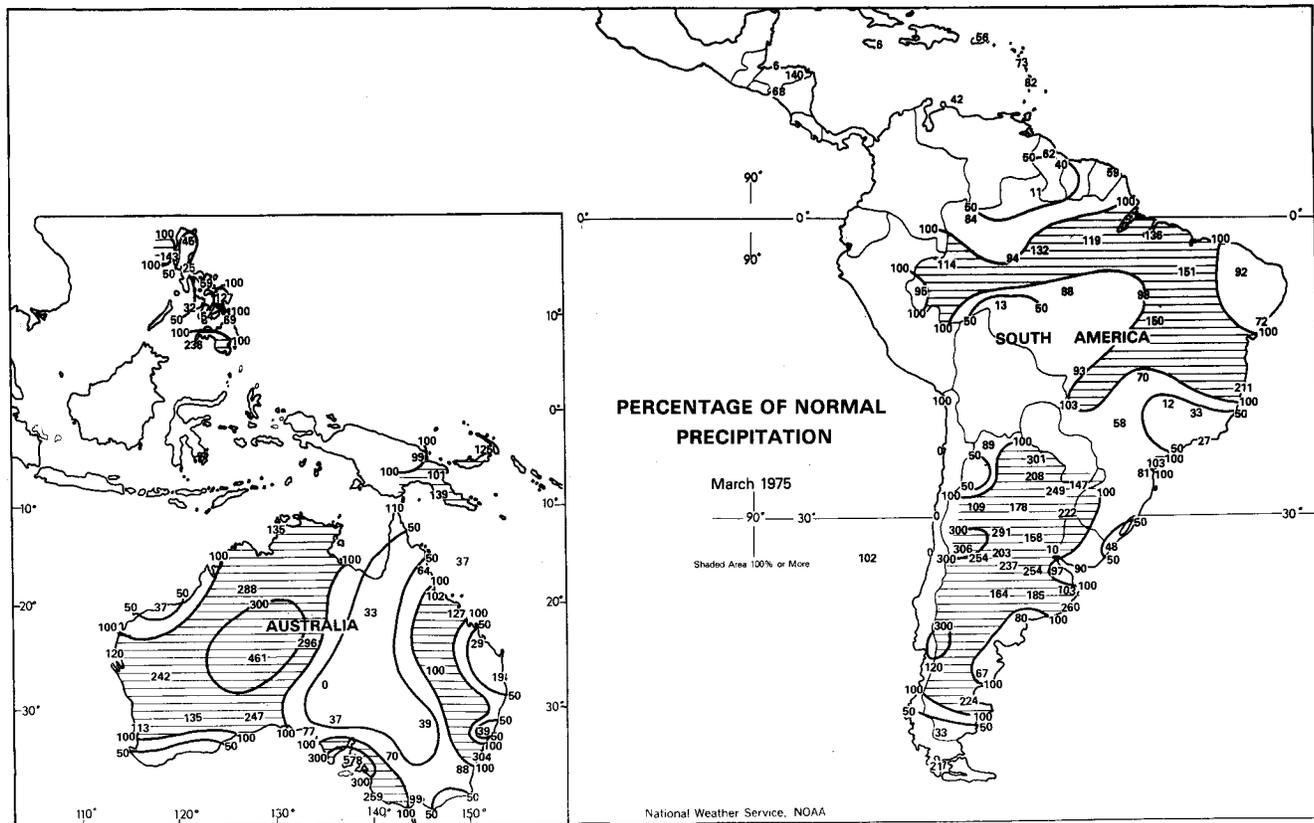
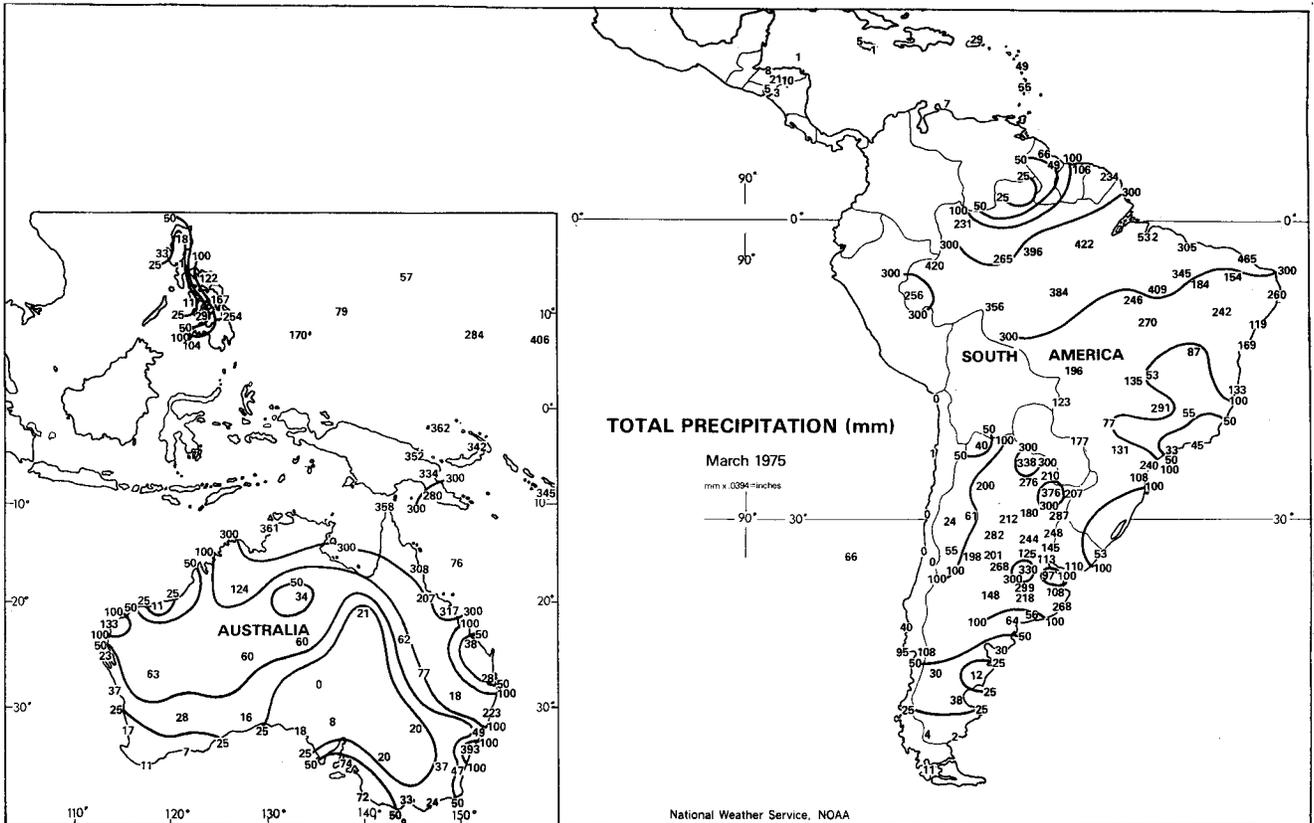
**OTHER:** Cotton needs warm, dry weather in Brazil and Australia where it has tended to be too cool. Tight water supplies would appear to limit USSR production. India anticipates good oilseed crops, forecasting record production of rape and mustard-seed and very favorable production of flax, castor-bean, and safflower; Argentine peanuts and sun flowers suffered from March's excessive rain.

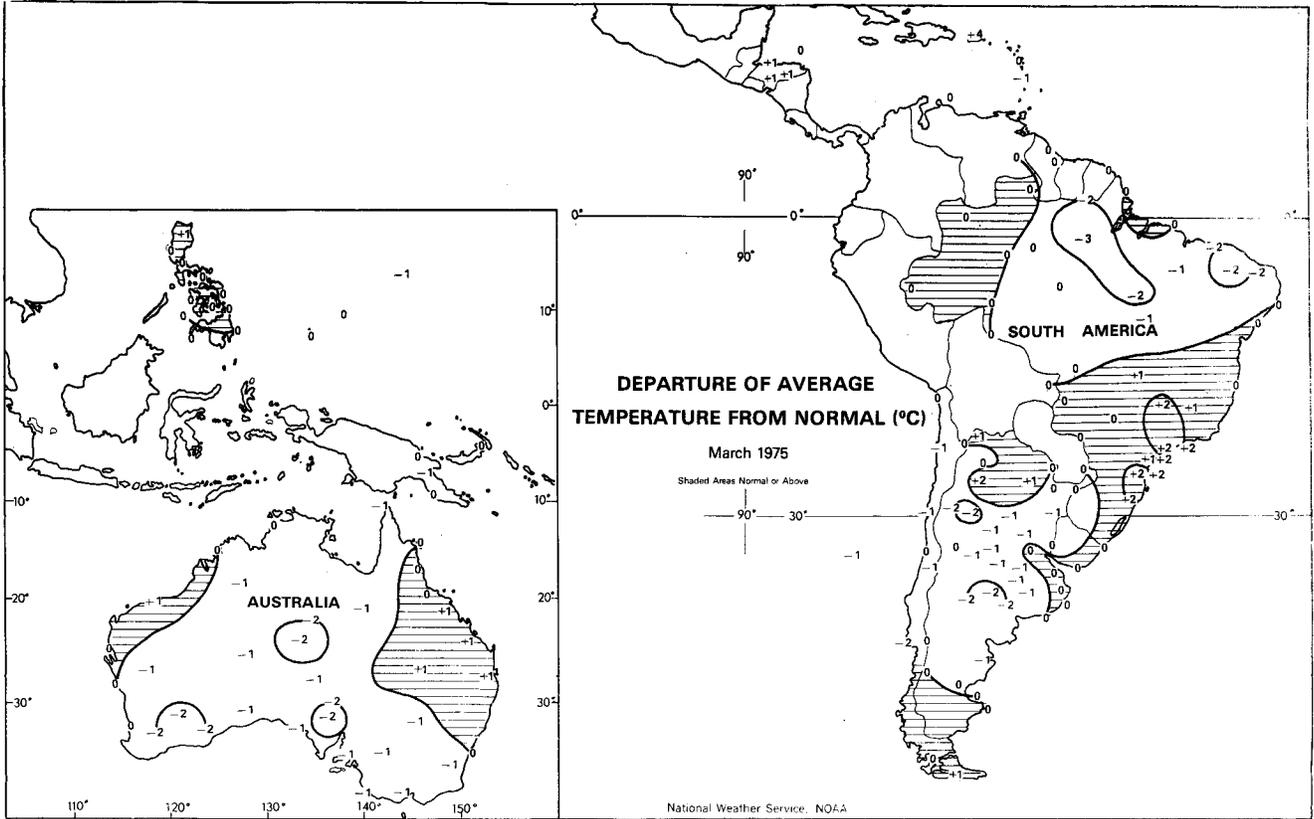
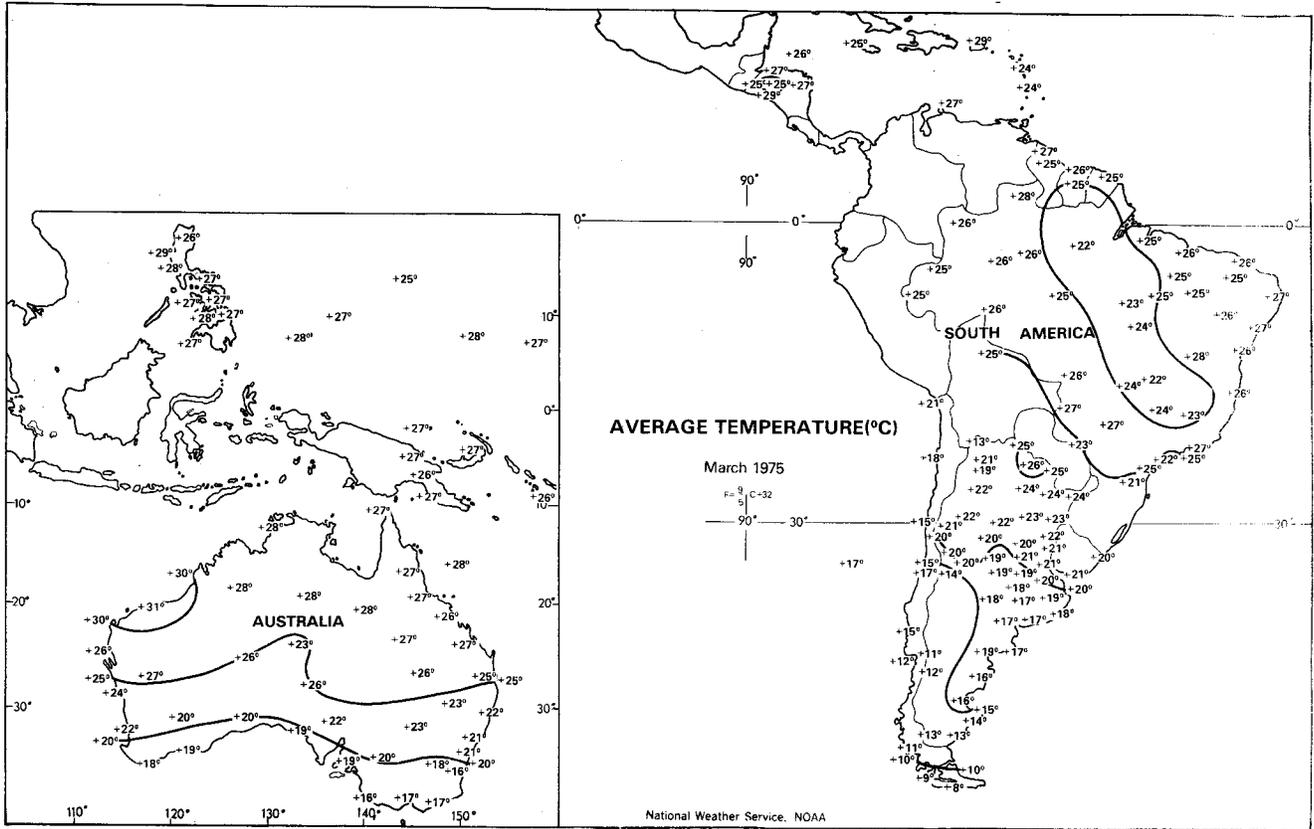


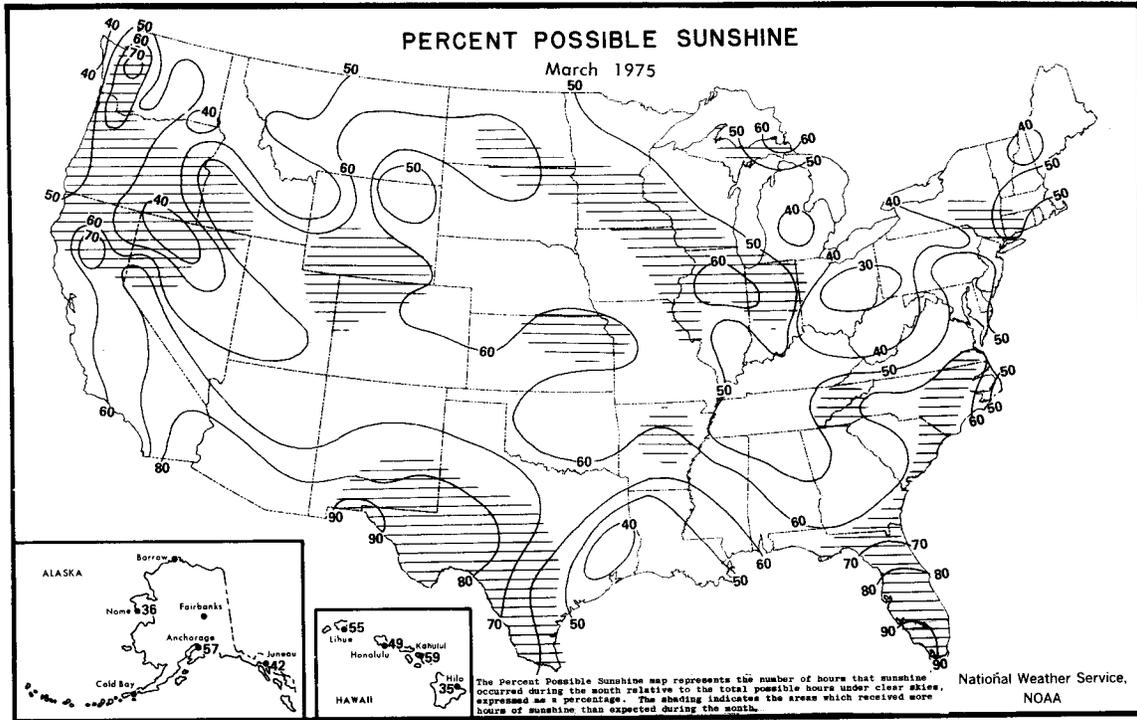












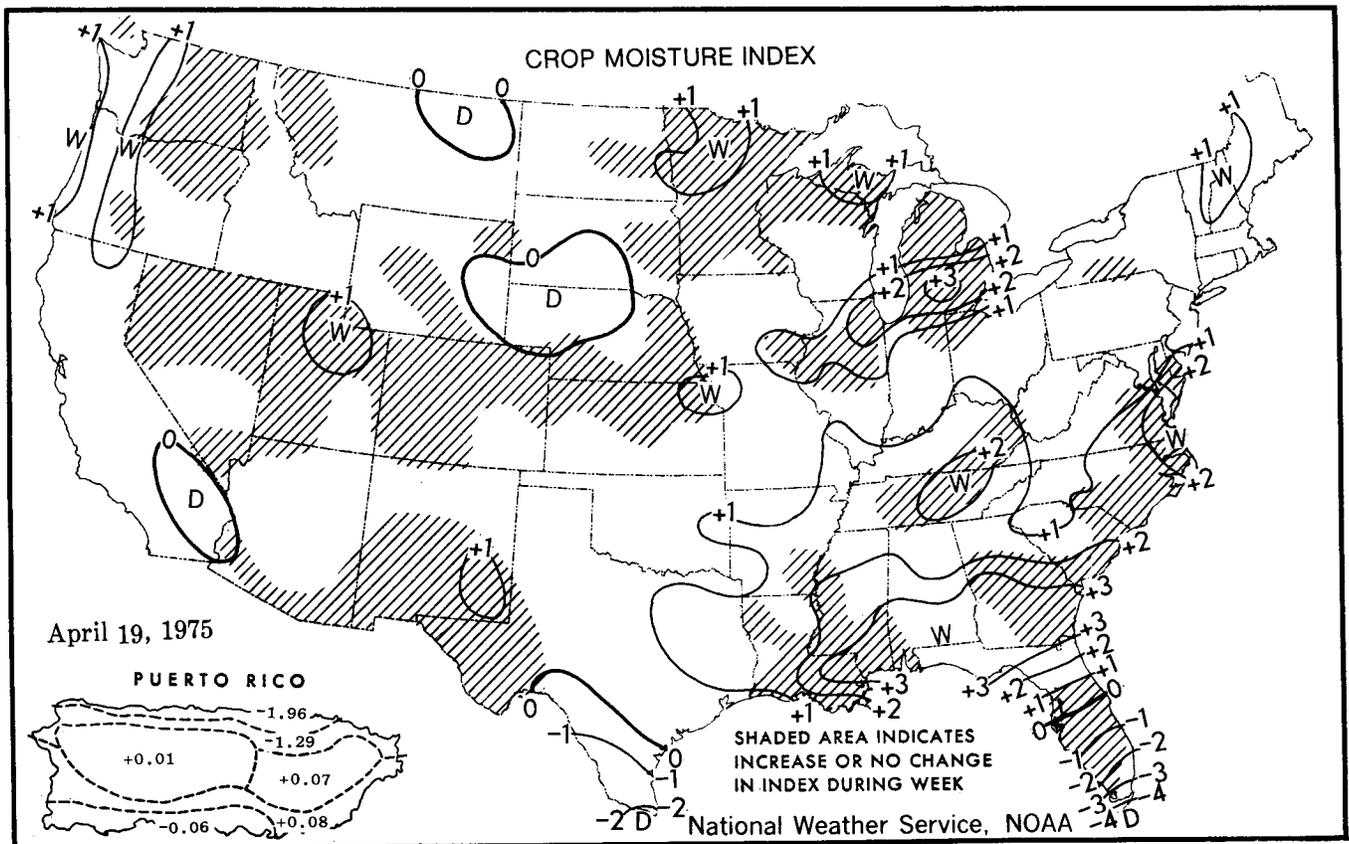
**WATER SUPPLY OUTLOOK FOR THE WESTERN UNITED STATES**  
Issued as of April 1, 1975

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, 1975, for the Missouri, Yellowstone, and North Platte Basins; November 1, 1974 to June 30, 1975 for the Little Colorado Basins; and April 1 to June 30, 1975, for the Gila Basin. The publication "Water Supply Outlook for the Western United States," issued as of April 1, 1975, 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	72,700	105
Columbia	The Dalles, OR	114,000	109
Snake	Lower Granite, WA	25,000	112
Sacramento	Red Bluff, CA	9,250	104
San Joaquin	Big Creek, CA	1,500	115
Weber	Gateway, UT	392	129
Jordan	Utah Lake, UT	315	120
Truckee	L. Tahoe-Farad	335	118
Colorado	L. Powell infl.	10,800	138
Green	Green River, UT	3,805	122
San Juan	Bluff, UT	1,710	167
Little Colo.	Woodruff, AZ	7.0	81
Gila	Solomon, AZ	45	83
Rio Grande	San Marcial, NM	761	216
Arkansas	Pueblo, CO	464	131
Missouri	Ft. Peck, MT	5,120	108
Yellowstone	Sidney, MT	7,330	105
North Platte	Glendo, WY	997	121

1/ Period, 1958-72

Office of Hydrology  
National Weather Service



The map above gives a general picture of how wet or dry the nation was last week. The lines show the crop-moisture situation according to an index computed from values of temperature and precipitation by areas. Previous weekly computations of soil moisture account for the effect of prior weather.

Shaded areas are those where precipitation increased the index last week or where soils did not dry. Unshaded

UNSHADED AREAS: INDEX DECREASED

ABOVE	3.0	SOME DRYING BUT STILL EXCESSIVELY WET
2.0 to	3.0	MORE DRY WEATHER NEEDED, WORK DELAYED
1.0 to	2.0	FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
0 to	1.0	FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
0 to	-1.0	TOPSOIL MOISTURE SHORT, GERMINATION SLOW
-1.0 to	-2.0	ABNORMALLY DRY, PROSPECTS DETERIORATING
-2.0 to	-3.0	TOO DRY, YIELD PROSPECTS REDUCED
-3.0 to	-4.0	POTENTIAL YIELDS SEVERELY CUT BY DROUGHT
BELOW	-4.0	EXTREMELY DRY, MOST CROPS RUINED

areas dried last week. The centers of wet or dry areas are marked: W for wet; D for dry. Use the legend to interpret.

Local variations caused by isolated rain or by soil differences are not shown. Any interpretation must consider the type of agriculture and the stage of crop development.

SHADED AREA: INDEX INCREASED OR DID NOT CHANGE

ABOVE	3.0	EXCESSIVELY WET SOME FIELDS FLOODED
2.0 to	3.0	TOO WET, SOME STANDING WATER
1.0 to	2.0	PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
0 to	1.0	MOISTURE ADEQUATE FOR PRESENT NEEDS
0 to	-1.0	PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1.0 to	-2.0	SOME IMPROVEMENT BUT STILL TOO DRY
-2.0 to	-3.0	DROUGHT EASED BUT STILL SERIOUS
-3.0 to	-4.0	DROUGHT CONTINUES RAIN URGENTLY NEEDED
BELOW	-4.0	NOT ENOUGH RAIN STILL EXTREMELY DRY



# FIRST CLASS MAIL

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

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

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

## Heating Degree Days (Base 65°) For Week Ending April 20, 1975

States and Stations	Weekly			Seasonal + Accumulation			States and Stations	Weekly			Seasonal + Accumulation		
	TOTAL	Departure*	Departure from 1974-74	TOTAL	Departure*	Departure from 1974-74		TOTAL	Departure*	Departure from 1974-74	TOTAL	Departure*	Departure from 1974-74
ALA. Birmingham	42	19	2659-247	435			Portland.	135	-17	6587-235	246		
Mobile	11	4	1363	-320	335		MD. Baltimore.	79	4	4204-333	25		
Montgomery	24	10	1959-292	333			MASS. Boston	95	-15	5113-132	203		
ARIZ. Flagstaff	183	26	6581	141	684		MICH. Alpena	159	-9	7472-232	35		
Phoenix	15	2	1552	10	459		FLINT	130	14	6240	230	408	
Tucson	11	26	2167	472	518		Grand Rapids	125	-3	6409-107	269		
Winslow	111	33	5070	562	471		Houghton Lake	135	11	6853	512	628	
Yuma	11	4	1145	141	238		Lansing	156	1	7556-94	154		
ARK. Fort Smith	33	8	3565	285	558		Marquette	177	9	7349-152	-127		
Little Rock	32	5	3050	-260	429		Muskogon	146	13	6386	36	74	
CALIF. Bakersfield	52	20	2063	-48	349		S. Ste. Marie	199	18	8428	158	28	
Eureka	134	29	3955	104	82		MINN. Duluth	196	18	9253	397	152	
Fresno	82	42	2777	231	441		Internat Falls	190	10	9587-110	-64		
Los Angeles	37	12	2555-322	-28			Minneapolis	156	21	7857	65	408	
Red Bluff	93	44	2973	412	357		Rochester	150	15	7983	285	457	
San Diego	45	13	1257	-79	251		St. Cloud	171	24	8673	389	450	
San Francisco	101	34	2826	202	137		MISS. Jackson	28	16	2063-221	333		
Stockton	90	43	2853	182	440		Meridian	34	19	2159-212	631		
COLO. Denver	123	5	5764	220	302		MO. Columbia	76	9	5336	457	673	
Grand Junction	118	27	5626	275	-105		Kansas City	73	10	5399	431	633	
Pueblo	98	9	5213	93	291		St. Louis	73	16	4979	402	528	
CONN. Bridgeport	112	0	4969	-111	382		Springfield	69	11	4650	241	708	
Hartford	96	-20	5788	-177	335		MONT. Billings	173	36	7001	365	817	
DEL. Wilmington	99	14	4590	-130	437		Glasgow	193	47	7865	437	658	
D.C. Washington	63	7	3698	-383	413		Great Falls	203	59	7335	387	658	
FLA. Apalachicola	4	2	1022	-339	234		Havre	202	53	7813-337	370		
Daytona Beach	6	5	570	-327	59		Helena	187	37	7728	317	687	
Ft. Myers	0	0	146	-311	-88		Kalamazoo	179	24	7625	50	638	
Jacksonville	7	4	1168	-159	251		NEBR. Grand Island	125	24	6548	464	578	
Key West	0	0	7	-55	24		Lincoln	107	17	6471	541	474	
Lakeland	0	0	370	-308	-11		Norfolk	135	26	6835	222	398	
Miami	0	0	59	-147	-72		MISSOURI. St. Louis	123	10	6708	400	358	
Orlando	0	0	387	-317	-21		Omaha	100	16	6290	499	501	
Tallahassee	7	0	1542	-20	446		Valentine	140	13	6910	104	475	
Tampa	0	0	391	-327	27		NEV. Elly	204	41	6972	75	212	
W. Palm Beach	0	0	112	-187	-62		Reno	172	47	5674	281	575	
GA. Atlanta	45	17	2864	-179	586		Winnemucca	170	34	5948	3	669	
Augusta	30	13	2624	99	682		N.H. Concord	130	-11	7163	347	356	
Macon	23	14	2049	-175	473		N.J. Atlantic City	108	19	4665	-43	503	
Savannah	9	-2	1531	-413	268		Trenton	88	4	4571	-146	258	
IDAHO. Boise	132	23	5207	-146	355		N.MEX. Albuquerque	93	32	4658	487	499	
Lewiston	124	24	4832	-196	92		Roswell	42	4	549	6	650	
Pocatello	156	23	6563	138	317		N.Y. Albany	123	2	6699	239	261	
ILL. Cairo	41	6	3829	65	441		Binghamton	145	9	7008	282	780	
Chicago	105	6	5928	150	376		Buffalo	131	-4	6156	-225	38	
Moline	104	10	6307	215	458		New York	89	0	4553	-112	277	
Peoria	106	16	6004	203	498		Rochester	112	-14	6266	28	367	
Rockford	119	8	6611	157	499		Syracuse	123	-1	6298	88	154	
Springfield	91	13	5396	67	469		N.C. Asheville	79	18	3914	-143	598	
IND. Evansville	75	20	4407	-63	589		Hatteras	57	18	3359	-287	558	
Fort Wayne	123	19	5991	141	420		Charlotte	42	13	3225	86	513	
Indianapolis	100	16	5412	101	784		Greensboro	47	6	3543	-181	257	
South Bend	117	5	5731	-320	461		Raleigh	58	21	3523	92	811	
IOWA. Burlington	102	11	6070	209	519		Wilmington	58	10	2241	-171	586	
Des Moines	104	3	6430	43	593		N.Dak. Bismarck	193	48	8692	280	41	
Dubuque	131	16	7216	368	868		Fargo	172	21	8367	-296	-62	
Sioux City	120	17	6876	259	828		Williston	194	45	8488	-17	-62	
KANS. Concordia	86	4	5529	170	377		OHIO. Akron-Canton	121	10	5605	-224	471	
Dodge City	55	-18	4898	-68	385		Cleveland	123	11	5739	-6	714	
Goodland	108	0	5880	158	273		Columbus	111	18	5225	-182	611	
Topeka	66	-4	5218	180	385		Cincinnati	93	19	4950	109	536	
Wichita	52	-6	4808	277	298		Dayton	107	16	5251	-108	376	
KY. Lexington	73	8	4496	-49	678		Toledo	139	24	6055	64	478	
Louisville	72	11	4259	210	513		Youngstown	37	1	3758	132	492	
LA. Baton Rouge	9	3	1456	-214	407		OKLA. Okla. City						
Lake Charles	13	11	1234	-164	230								
New Orleans	10	6	1294	-171	380								
Shreveport	26	15	2257	102	356								
MAINE. Caribou	161	-33	8826	77	57								

\* Based on 1941-70 Normals.

† Accumulation July 1, 1974