WEEKLY WEATHER AND CROP BULLETIN

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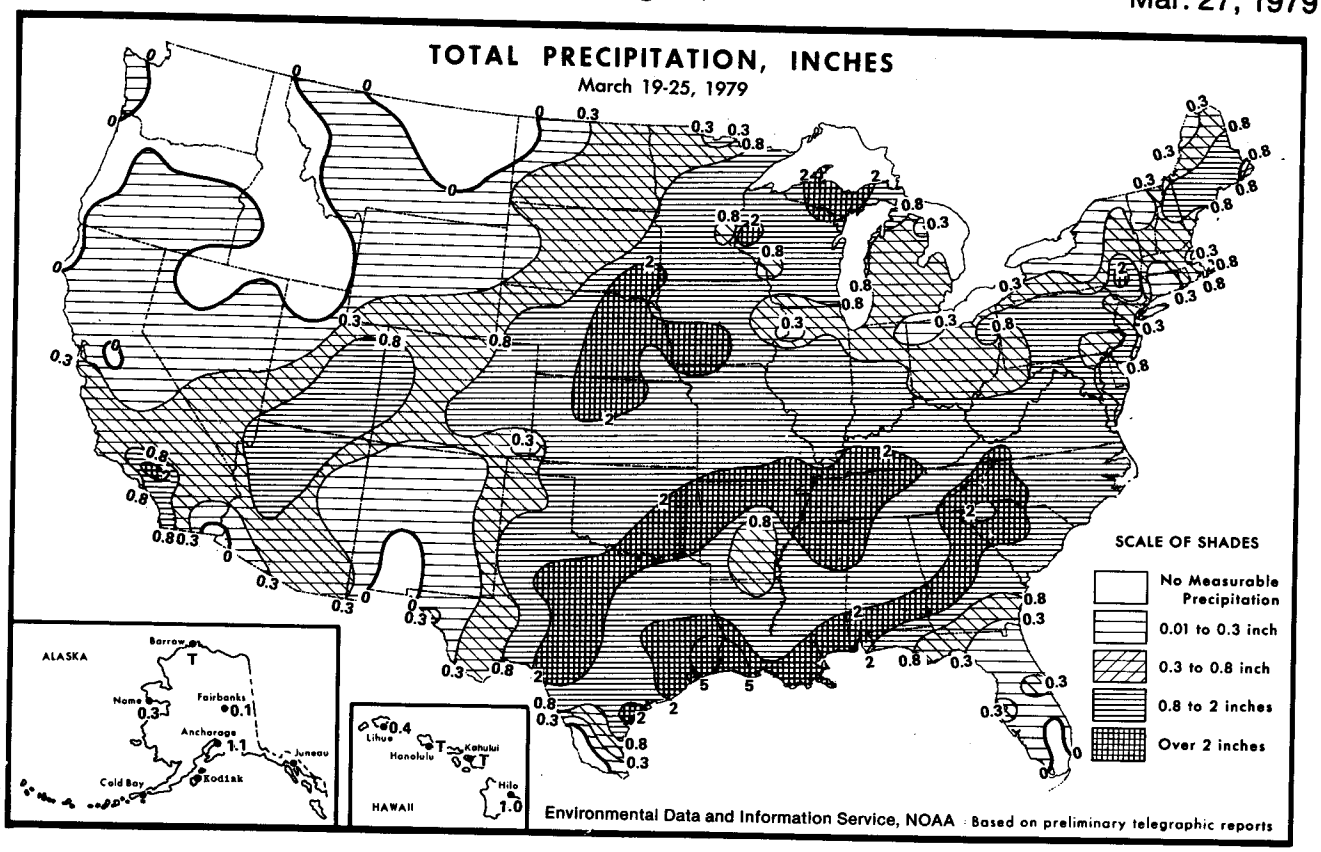


National Weather Summary

March 19 - 25

HIGHLIGHTS: Considerable rain covered much of the Nation; however, the area from central California northward to Washington and eastward to Montana received little or no moisture. Eight to 10 inches of snow blanketed the southern Plateau Region and central Rockies. Numerous showers and thunderstorms surged over the country from central Nebraska to Texas and eastward to the Atlantic Coast; high winds, hail, and tornadoes struck some points.

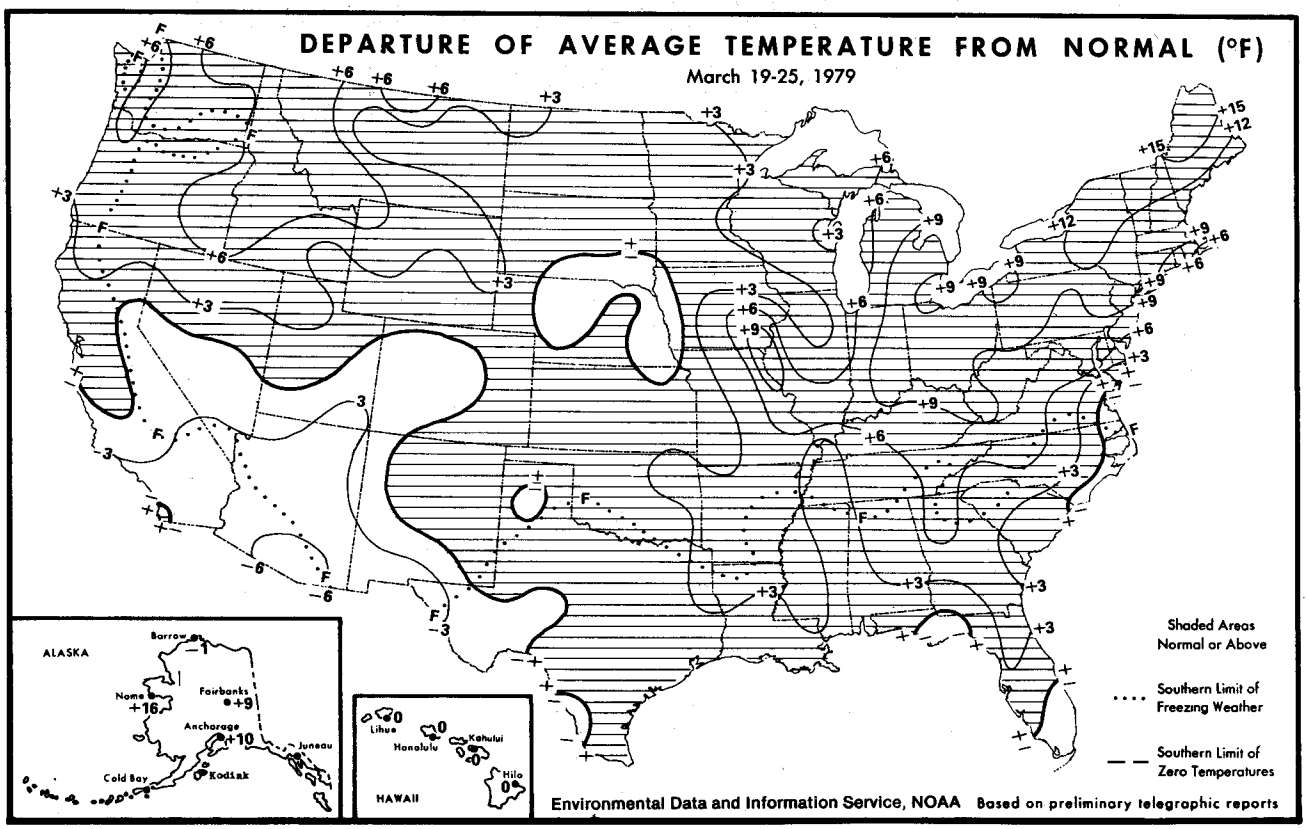
Temperatures soared as much as 10 to 15 degrees above normal from Illinois through New England. Readings approached normal in the Plains and Southwest. The Pacific Northwest rose 5 to 8 degrees above normal.

On Monday, snow moved from western Nebraska to the Dakotas, while heavy rains soaked an area from the southern Plains to the Ohio Valley.

High winds accompanied the snowstorm which dumped 3 inches on Bismarck, N. Dak. The Abilene and San Angelo areas of central Texas weathered 3 to 4 inches of rain dumped by heavy showers and thunderstorms. Other points noting significant rainfall included Beaumont/Port Arthur, Tex., 3 inches; McAlester, southeastern Oklahoma, an inch and a half; Fort Smith, western Arkansas, 2 inches; and Fort Campbell, southern Kentucky, 1.1 inches.

The mountains of central Arizona suffered another winter storm; Flagstaff counted several inches of snow.

Snow continued swirling through the Southwest on Tuesday and reached the Rockies with heavy accumulations. Monticello, southern Utah, gathered 10 inches. The Pacific moisture left one-third to three-quarters inch of rain in southern California and parts of Arizona.



Heavy rain persisted from Texas eastward to the Ohio Valley. Beaumont, eastern Texas, recorded another 1.78 in.; West Plains, southern Missouri, notched 1.4 inches; and Memphis tallied a half-inch. Nearly 2 inches of rain and large hail battered Del Rio, on the Rio Grande in southwestern Texas.

The first day of spring stood for little in mountainous sections from Arizona to Wyoming as snow continued falling.

Meantime, rain fell heavily in thunderstorms from the lower half of the Plains to Louisiana on Wednesday. A sampling showed 2.5 inches at Beeville, southeastern Texas; another 1.43 in. at Beaumont/Port Arthur; and an inch and one-half at Galveston, on the Texas coast. Outside the Lone Star State, North Platte, central Nebraska, scored more than an inch of rain, and Grand Island, to the east, was soaked by 1.4 inches. Lake Charles, southwestern Louisiana, collected more than 3 inches.

At nightfall, high winds, hail, and tornadoes swept over the Texas Panhandle.

On Thursday, rain persisted in the southern half of the Plains and stretched through the Tennessee and Mississippi Valleys and into the Deep South.

Wichita and Oklahoma City picked up more than an inch. New Orleans collected 2 inches; Mobile, southwestern Alabama, got 1.7 inches; Memphis chalked up an inch; and Des Moines also managed an inch. Beaumont/Port Arthur received another inch of rain pushing the week's total to nearly 9 inches.

Frigid air settled over the upper half of the Plains and northern Rockies. Snow spread from eastern Colorado to Minnesota; Goodland, western Kansas, was blanketed by 5 inches. Heavy snow continued in the Utah mountains.

Warm air straddled the cold north central United States when record high readings were posted in the Pacific Northwest, Great Lakes, and New England.

In Washington, Olympia, at 71°, and Seattle, at 68°, reached records. Muskegon, west central Michigan, hit 68°, and Caribou, northern Maine, at 63°, warmed to its highest reading ever so early in spring; that temperature topped the former high mark by 11 degrees.

A variety of precipitation and some severe weather covered a large portion of the country east of the Rockies on Friday.

A cold front extending from the upper Midwest to Florida triggered rain, snow, and tornadoes. Up to 5 inches of snow whitened an area from Kansas and northwestern Missouri northward. Rain, sometimes heavy, and hail fell from southern Missouri southward to the Gulf and eastward to the Atlantic Seaboard. More than an inch dampened many stations, and hard-hit Charlotte, southern North Carolina, was deluged by 4 inches which triggered flooding. Tornadoes touched down in Arkansas, Missouri, Kentucky, Georgia, and South Carolina.

On Saturday, the cold front continued to set off rain along the Atlantic Coastal States and into Pennsylvania and New York State. One-half to 2 inches moistened points from North Carolina through New Jersey.

Snow made its return to the Midwest where 2 to 5 inches fell from St. Louis to the Great Lakes.

By contrast, New England basked under record warmth. Again, Caribou, Maine, at 61°, logged a record, which rose above the 1976 mark by 11 degrees. Burlington, northwestern Vermont, notched a record 64°.

On Sunday, snow fell lightly from the Great Lakes to the West Virginia mountains. Another storm brought up to 4 inches of snow to Montana and the Dakotas.

The rain continued and moved northward on the Atlantic Coast. Some Maine cities scored more than an inch; waterways overflowed in the central and southeastern sections of the State.

National Agricultural Summary

March 19 - 25

HIGHLIGHTS: Temperatures ranged from slightly below normal in the Southwest to well above normal into the New England States. These above-normal temperatures in most of the Nation continued to melt the remaining snowcover and kept fields and feedlots wet and muddy. Fieldwork, including fertilizing, land preparation, and planting, advanced northward with many areas of the Nation having 3 to 5 days of good weather. Rains limited fieldwork mostly in Texas and Arkansas, and saturated fields held tillage to a minimum elsewhere in the Nation. Plowing generally surpassed last year but lagged the average. Winter wheat rated fair to good and showed some greening as far north as Montana. Cattle moved off southern winter wheat stands which were expected to be harvested for grain. No areas reported any particularly severe small grain winterkill. Farmers planted spring grains where field conditions permitted. Pastures rated fair to good and greened rapidly in northern areas. Cattle were taken off winter feed and moved to grasslands with the exception of a few western States. A late winter storm put some stress on livestock from Colorado to Kentucky. Fruit growers pruned and sprayed trees in the northern half of the Nation. Peaches bloomed as far north as Arkansas and South Carolina. A cold snap apparently produced only minimal fruit damage in extreme northern areas at the end of the week. Rains slowed vegetable land preparation and planting in Texas. Low temperatures damaged some greens as far south as Tennessee. Vegetable planting was active in eastern areas northward into South Carolina.

SMALL GRAINS: Spring small grain planting advanced slowly in the Mountain States as weather and field conditions permitted.

Winter wheat rated fair to mostly good with no severe winterkill reported in most areas. Corn Belt States sustained some ice and flood losses. Recent low temperatures produced no losses from soil heaving. Most of the Great Plains winter wheat received much-needed soil moisture. Jointing advanced northward into Oklahoma.

Kansas winter wheat received much-needed moisture, particularly the crop in the western third of the State. Wheat greened rapidly aided by moisture and higher temperatures. Rains and warmer temperatures also spurred rapid growth for Oklahoma wheat with 20 percent jointing compared with 10 percent last year and the 20 percent average. Texas wheat growth was excellent---improved by recent rains. Only minimal insect damage turned up with isolated infestations of army worms and greenbugs. Montana wheat rated good with some greening evident. New Mexico producers moved cattle off fields planned for grain harvest. No serious wind damage was reported in the Mountain States or central Plains.

OTHER CROPS: Corn planting became more widespread and moved as far north as Virginia which stood at 1 percent complete. Other States reporting corn planting progress percentages: Georgia 37%, South Carolina 11%, Louisiana 10%, Mississippi 17%, and Texas 18%. Generally, planting progress exceeded last year.

Soybean planting began in the Southeast and extended into Georgia.

Rains delayed sorghum planting throughout southern areas, particularly Arizona and Texas. Sorghum seeding in Texas stood at 29 percent compared with 40 percent for last year and the average.

Cotton planting moved ahead rapidly before rains slowed field activity. Arizona planting reached 20 percent. Texas cotton seeding reached 10 percent, equalling last year and ahead of the 7 percent average. While Texas planting stayed on schedule, pre-plant activities suffered from the rain and wet soils. South Carolina cotton planting stood at 1 percent.

Adverse weather and field conditions slowed rice seeding in Louisiana and Texas where progress stood at 8 percent and 7 percent respectively. This trailed both last year and the average in the two States.

Irish potato planting advanced as far as Eastern Shore Virginia in the eastern part of the Nation and into Washington in the West. Planting progress varied widely with eastern States standing at about 50 percent finished.

FRUITS AND NUTS: Deciduous orchard growers finished pruning throughout northern areas and applied dormant sprays to apple trees. Low temperatures near the end of the week apparently produced only minimal damage to fruit trees; but as spring progresses, the buds will become increasingly vulnerable. Peaches moved into bloom across the South ranging from 48 percent in bloom in Georgia, full bloom in the ridge area of South Carolina, but only 25 percent in the Piedmont, and early bloom in Arkansas. Texas peach trees shed petals from the upper Gulf Coast through the hill country while other areas continued to bloom. California apples began blooming, and cherries reached 60 percent full bloom. Texas pecan buds swelled throughout the south central area, and a few early varieties began leafing out. California almonds had a good set and walnuts pushed to the tassel stage.

Florida citrus trees and fruit condition rated excellent. Growers applied some irrigation to supplement needed rain. Full bloom was expected the week of March 26. Texas citrus supplies were almost exhausted. Arizona growers made steady progress harvesting their citrus crops. California growers harvested Navels, Valencias, lemons, and tangerines.

VEGETABLES: Vegetable planting slowly advanced northward with South Carolina reporting 42 percent of the snap beans, 43 percent of the cucumbers, and 52 percent of the tomatoes. Florida vegetable crops continued to rate very good to excellent with rapid growth evident. Harvest held steady to slightly increasing with shipments up 1 percent from the previous week. Strawberry supplies advanced considerably with lesser gains registered by snap beans, carrots, sweet corn, cucumbers, okra, potatoes, and squash. Other vegetables held steady or declined. Florida watermelons continued to improve with small fruit beginning to show on early acreage. Texas growers harvested spring onions, carrots, spinach, lettuce, and cabbage. The watermelon and tomato crops made favorable progress. Rain and wet fields prevented land preparation and planting in many Texas localities.

California growers harvested asparagus, broccoli, cauliflower, lettuce, and strawberries. Tomato transplanting moved actively.

PASTURES AND LIVESTOCK: High temperatures and adequate soil moisture helped grasslands rate fair to good and improving throughout most of the Nation. Farmers applied fertilizer to improve growth. In some areas of the South particularly, wet soils limited grazing. Cattle were getting most of their forage requirements from pastures with the exception of some western States. A late winter storm produced some deaths, notably in Colorado. Calving and lambing advanced on schedule, and most areas of the Nation reported no unusual cold stress.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., March 25, 1979

States and Stations	Temperature °F Average	Temperature °F Departure	Precipitation Inches Total	Precipitation Inches Departure
ALA.Birmingham	59	+ 4	.7	- .7
Mobile	63	+ 2	2.1	+ .5
Montgomery	62	+ 4	1.2	- .2
ALASKA.Anchorage	35	+10	1.1	+ 1.0
Barrow	-15	- 1	T	- .1
Fairbanks	21	+ 9	.1	0
Juneau	--	--	--	--
Kodiak	--	--	--	--
Nome	24	+16	.3	+ .2
ARIZ.Flagstaff	30	- 5	1.3	+ .9
Phoenix	58	- 3	.6	+ .5
Tucson	53	- 6	.4	+ .3
Winslow	42	- 4	.1	0
Yuma	61	- 4	T	0
ARK.Fort Smith	55	+ 3	3.9	+ 3.1
Little Rock	55	+ 3	.4	- .7
CALIF.Bakersfield	57	- 1	.4	+ .2
Eureka	49	+ 1	T	- 1.0
Fresno	57	+ 2	.2	- .2
Los Angeles	56	- 3	.4	- .1
Red Bluff	57	+ 3	.1	- .4
San Diego	58	0	1.0	+ .6
San Francisco	54	+ 1	.3	- .3
Stockton	53	0	T	- .4
COLO.Denver	37	- 1	.3	0
Grand Junction	42	- 1	1.0	+ .8
Pueblo	41	0	1.3	+ 1.2
CONN.Bridgeport	49	+ 9	.1	- .7
Hartford	49	+11	.2	- .7
D.C.Washington	55	+ 8	1.1	+ .3
FLA.Apalachicola	61	- 1	.3	- .8
Daytona Beach	67	+ 2	T	- .8
Ft. Myers	69	0	.1	- .6
Jacksonville	65	+ 3	T	- .8
Key West	73	- 2	.2	- .2
Lakeland	--	--	--	--
Miami	70	- 2	T	- .5
Orlando	68	+ 1	.4	- .4
Tallahassee	61	- 1	.3	- 1.0
Tampa	67	0	.3	- .6
W.Palm Beach	69	- 2	.2	- .6
GA.Atlanta	60	+ 7	.9	- .4
Augusta	59	+ 3	1.4	+ .3
Macon	62	+ 4	2.3	+ 1.2
Savannah	60	+ 1	.9	- .1
HAWAII.Hilo	71	0	1.0	- 2.0
Honolulu	73	0	T	- .7
Kahului	72	0	T	- .6
Lihue	72	0	.4	- .7
IDAHO.Boise	48	+ 6	T	- .2
Lewiston	50	+ 6	T	- .2
Pocatello	39	+ 2	T	- .2
ILL.Cairo	51	+ 1	1.8	+ .7
Chicago	43	+ 4	.7	0
Moline	42	+ 4	.2	- .5
Peoria	43	+ 3	.9	+ .2
Rockford	37	0	.8	+ .1
Springfield	46	+ 4	1.3	+ .6
IND.Evansville	52	+ 6	1.9	+ .8
Ft. Wayne	49	+10	.2	- .5
Indianapolis	51	+ 9	.9	0
South Bend	46	+ 8	.6	- .1
IOWA.Burlington	50	+11	1.4	+ .7
Des Moines	41	+ 5	2.3	+ 1.7
Dubuque	37	+ 2	.6	- .2
Sioux City	35	- 1	1.3	+ .9
KANS.Concordia	42	+ 1	2.4	+ 2.0
Dodge City	44	+ 1	1.8	+ 1.5
Goodland	40	+ 2	1.9	+ 1.7
Topeka	43	0	1.2	+ .6
Wichita	47	+ 2	1.6	+ 1.1
KY.Lexington	54	+ 8	1.2	+ .1
Louisville	55	+ 9	.8	- .4
LA.Baton Rouge	63	+ 2	1.1	0
Lake Charles	63	+ 1	5.4	+ 4.6
New Orleans	65	+ 3	2.0	+ .8
Shreveport	61	+ 3	.9	0
MAINE.Caribou	43	+17	.3	- .2
Portland	44	+10	.4	- .4
MD.Baltimore	51	+ 6	.5	- .3
MASS.Boston	50	+10	.3	- .6
Chatham	43	--	1.0	--
MICH.Alpena	36	+ 8	.2	- .3
Detroit	44	+ 7	.4	- .2
Flint	46	+11	.4	- .1
Grand Rapids	45	+10	.8	+ .2
Houghton Lake	37	+ 8	.8	+ .4
Lansing	45	+10	.4	- .2
Marquette	30	+ 5	3.6	+ 3.1
Muskegon	40	+ 5	.8	+ .2
S. Ste. Marie	32	+ 6	1.3	+ .9
MINN.Duluth	28	+ 2	1.0	+ .6
Internatl Falls	27	+ 3	.2	- .1
Minneapolis	35	+ 4	.6	+ .2
Rochester	32	+ 1	.9	+ .5
St. Cloud	30	+ 1	1.4	+ 1.1
MISS.Jackson	61	+ 3	.9	- .4
Meridian	59	+ 1	.8	- .6
MO.Columbia	48	+ 4	1.0	+ .4
Kansas City	44	+ 1	.9	+ .3
St. Louis	54	+ 9	2.0	+ 1.3
Springfield	47	+ 1	1.2	+ .5
MONT.Billings	38	+ 4	.1	- .1
Glasgow	29	+ 1	T	- .1
Great Falls	34	+ 2	.2	0
Havre	36	+ 7	T	- .1
Helena	38	+ 6	.2	0
Kalispell	40	+ 8	.1	- .1
Miles City	34	+ 2	T	- .1
Missoula	42	+ 7	0	- .2
NEBR.Grand Island	37	0	3.3	+ 3.0
Lincoln	38	- .1	1.9	+ 1.5
Norfolk	36	+ 1	2.3	+ 1.9
N.Platte	35	- 1	1.6	+ 1.3
Omaha	36	- 1	2.7	+ 2.3
Valentine	30	- 3	.6	+ .4
NEV.Ely	34	0	.2	0
Las Vegas	53	- 3	.8	+ .7
Reno	39	- 2	T	- .1
Winnemucca	43	+ 5	0	- .1
N.H.Concord	45	+10	.3	- .3
N.J.Atlantic City	48	+ 5	.3	- .7
Trenton	51	+ 8	.7	- .2
N.MEX.Albuquerque	49	+ 2	T	- .1
Roswell	51	0	.1	- .1
N.Y.Albany	46	+10	.3	- .3
Binghamton	46	+12	.2	- .5
Buffalo	45	+11	.3	- .3
New York	52	+ 9	.2	- .7
Rochester	46	+11	.1	- .5
Syracuse	47	+12	.1	- .6
N.C.Asheville	53	+ 5	2.5	+ 1.4
Charlotte	57	+ 5	2.1	+ 1.1
Greensboro	57	+ 7	1.3	+ .5
Hatteras	51	- 1	1.4	+ .6
Raleigh	54	+ 3	1.3	+ .5
Wilmington	55	- 1	1.6	+ .7
N.DAK.Bismarck	28	0	.7	+ .5
Fargo	27	0	.6	+ .4
Williston	30	+ 3	T	- .1
OHIO.Akron-Canton	49	+11	.8	0
Cincinnati	55	+11	.8	- .2
Cleveland	50	+12	.8	+ .1
Columbus	52	+11	.4	- .4
Dayton	52	+11	.5	- .3
Toledo	45	+ 7	.1	- .5
Youngstown	47	+ 9	.6	- .2
OKLA.Okla. City	52	+ 2	1.5	+ 1.0
Tulsa	53	+ 3	1.2	+ .6
OREG.Astoria	47	+ 2	.1	- 1.3
Burns	43	+ 6	T	- .2
Medford	50	+ 4	T	- .4
Pendleton	48	+ 3	0	- .2
Portland	53	+ 7	T	- .8
Salem	49	+ 3	0	- .9
PA.Allentown	50	+10	1.0	+ .2
Erie	42	+ 7	.4	- .3
Harrisburg	49	+ 6	.6	- .2
Philadelphia	51	+ 7	.7	- .2
Pittsburgh	51	+11	.5	- .3
Scranton	47	+ 9	.4	- .2
R.I. Providence	46	+ 7	.3	- .6
S.C. Charleston	60	+ 2	1.2	+ .1
Columbia	58	+ 2	2.1	+ 1.0
Greenville	58	+ 5	1.9	+ .7
S.D. Aberdeen	31	+ 1	.3	+ .1
Huron	33	+ 1	.6	+ .3
Rapid City	35	+ 2	.3	0
Sioux Falls	32	- 1	2.2	+ 1.8
TENN.Chattanooga	57	+ 5	.7	- .6
Knoxville	58	+ 6	.7	- .4
Memphis	56	+ 3	2.2	+ 1.0
Nashville	55	+ 4	2.3	+ 1.2
TEX.Abilene	57	+ 1	2.8	+ 2.6
Amarillo	45	- 2	.7	+ .5
Austin	63	+ 2	1.9	+ 1.5
Beaumont	63	+ 2	8.7	+ 8.1
Brownsville	70	+ 1	.1	0
Corpus Christi	68	+ 2	.9	+ .7
Del Rio	65	+ 1	2.0	+ 1.9
El Paso	52	- 4	0	- .1
Fort Worth	59	+ 2	1.5	+ .9
Galveston	63	+ 1	3.0	+ 2.4
Houston	63	+ 1	2.2	+ 1.6
Lubbock	53	+ 2	1.6	+ 1.4
Midland	57	+ 1	.6	+ .5
San Angelo	58	- 1	1.2	+ 1.0
San Antonio	64	+ 2	1.0	+ .7
Victoria	66	+ 2	1.6	+ 1.2
Waco	61	+ 2	1.0	+ .5
Wichita Falls	55	+ 1	1.6	+ 1.2
UTAH.Blanding	37	- 3	1.1	+ .9
Salt Lake City	45	+ 4	T	- .4
VT.Burlington	45	+13	T	- .4
VA.Lynchburg	53	+ 6	1.3	+ .5
Norfolk	49	- 1	1.1	+ .3
Richmond	52	+ 3	1.4	+ .6
Roanoke	52	+ 5	1.7	+ 1.0
WASH.Colville	45	+ 6	T	- .2
Omak	46	+ 6	0	- .2
Quillayute	45	+ 3	.2	- 2.1
Seattle-Tacoma	51	+ 6	T	- .8
Spokane	44	+ 5	0	- .4
Walla Walla	51	+ 4	0	- .3
Yakima	47	+ 4	0	- .1
W.VA.Beckley	51	+ 9	1.7	+ .7
Charleston	56	+ 9	.9	0
Huntington	56	+10	.8	- .1
Parkersburg	53	+ 7	.7	- .2
WISC.Green Bay	33	+ 2	1.7	+ 1.3
La Crosse	37	+ 3	.5	0
Madison	38	+ 5	1.0	+ .5
Milwaukee	39	+ 5	1.1	+ .5
WYO.Casper	33	+ 1	.2	0
Cheyenne	32	0	.5	+ .2
Lander	36	+ 3	.1	- .2
Sheridan	35	+ 3	.1	- .2
P.R.San Juan	76	0	.3	- .1

Based on 1941-70 normals

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State Summaries of Weather and Agriculture

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

ALABAMA: High temperatures 9 to 12° above normal through 22d. Widespread showers and thundershowers 22d night. Windy and cold over weekend, 11 to 17° below normal.

Fieldwork: 4.2 days suitable. Soil moisture adequate. Spreading fertilizer and lime, applying herbicide, plowing major activities. Pruning and spraying in orchards underway. Plowing 44% complete. Pastures improving, mostly fair condition. Stored feed short. Wheat condition fair.

ARIZONA: Late winter storm near midweek. Precipitation 0.50 in. southwest to nearly 2.00 in. east central. More than 10 in. new snow above 5,500 ft. Mean temperatures 3 to 6° below normal. Sunny skies, dry weather by weekend. Heavy showers 20th and 21st.

Cotton planting full swing before rains, approximately 30 to 40% planted west, just over 15% Salt River Valley; statewide about 20%. Harvest 1978 cotton crop complete. Rains interrupted planting corn, sorghum, safflower. Small grains making good progress. Sugarbeet growth good. Regrowth second cutting alfalfa advanced. Lettuce harvest Yuma seasonal progress. Lettuce harvest central areas just underway. Harvest other mixed vegetables good progress. Early planted melons emerging, growing well. Grape vines growing well. Citrus harvest steady progress. Recent warm weather accelerated development range grasses. Soil moisture more than adequate. Most stock tanks full. Cattle, calves mostly good to excellent condition.

ARKANSAS: Mild, wet. Temperatures slightly above average with warm temperatures early week followed by cool weekend. Precipitation varied greatly but most slightly above normal. Lowest temperature 25°; highest 82°. Lowest mean 51°; highest 61°. Lowest normal 57°; highest normal 50°. Most precipitation 3.92 in.; least 0.10 in.

Land preparation limited by rainfall. Heavy nitrogen topdressing on spring pastures. Reduced cattle feeding in all areas as small grains, fescue, and rye pastures suitable for grazing. Cattle generally in good condition. Peach crop ranging from full bud-swell to limited early bloom.

CALIFORNIA: General cloudiness with periods of rain. Largest amounts in south with up to 2.00 in. at Los Angeles. Some new snow in excess of 5 in. added to present snowpack at higher elevations. Temperatures below normal with much below in Imperial Valley. Little warming trend occurred at end of period with highs getting into 70's in Great Valley and southern deserts.

Field preparation, small grain planting continued northeast. Broadleaf weed control active. Alfalfa field weevil control continued San Joaquin, Sacramento Valleys. San Joaquin Valley good alfalfa growth. Rain damage desert area. Sugarbeet planting halted by rain south coast. Rain delayed harvest San Joaquin Valley. Cotton planting continued San Joaquin Valley, desert. Pest control active deciduous orchards. Routine operations grapes, irrigation, trench plowing, herbicides. Vineyards leafing out. Apple bloom beginning. Cherries 60% to full bloom. Navel orange, lemon and tangerine packing continued. Valencia harvest continued. Harvesting avocados. Walnuts pushing to tassel stage. Almond set good. Asparagus harvest increasing Delta, Salinas, about steady desert. Good supplies broccoli, cauliflower, central coast. Lettuce harvest decreasing Imperial Valley, increasing Palo Verde Valley. Strawberry harvest light, should increase next week. Tomato planting active. Warm temperatures continued stimulate grass growth. Supplementing continued, grass weak nutrition. Calving, lambing peaking mountain areas. Sheep shearing underway San Joaquin Valley. Movement bee colonies from almond to citrus, foothill areas.

COLORADO: Major storm through south brought heavy snowfall to mountains and eastern slope; 24 to 36 in. southwest mountains, 6 to 12 in. on east slope. Temperatures near normal.

Winter wheat mostly good. Seeding spring crops delayed and fieldwork limited because of storm. Onion planting underway in southeast. Subsoil moisture adequate southwest, short elsewhere. Calving 43% complete; lambing 26% complete. Death losses increased slightly due to inclement weather. Ranges and pastures poor to good.

FLORIDA: Dry with sunny days and cool nights, 19th through 21st. Increasing cloudiness and scattered showers and thundershowers accompanied a cool front through the Panhandle night of 22d and across peninsula 23d with showers ending south on 24th. Precipitation up to 2.00 in. Panhandle decreased to less than 0.10 in. south. Stronger cool front brought windy, cooler conditions 25th.

Soil moisture variable, mostly adequate south, Panhandle; short in many parts of central and north. Corn planting active, early corn up to good stands. Tobacco transplanting active, plants small. Land being prepared for planting peanuts, soybeans. Small grains good condition. Sugarcane harvest nearing completion, several mills ceased grinding. Peach trees good condition. Cattle in mostly good condition south, fair to mostly good elsewhere. Pastures good condition south; improving in central areas. Fertilization and liming active. Winter pastures providing most of grazing north. Citrus tree and fruit condition excellent. Rain needed, some irrigation being applied. Bloom making excellent progress. Full, open bloom expected during week of March 26. Overall vegetable crop condition very good to excellent; growth rapid most areas. Windburn, fruit scarring evident southeast. Planting, other fieldwork very active. Harvest steady to slight increase. Quality, size, generally good to very good. Shipments up 1% from previous week. Supplies strawberries up considerably. Shipments snap beans, carrots, sweet corn, cucumbers, okra, potatoes, squash increased while cabbage, escarole, lettuce, radishes, tomatoes held steady. Cauliflower, celery, chinese cabbage, eggplant, parsley, pepper supplies decreased. Strawberry crop condition good. Volume up sharply; fruit set, quality, size good. Watermelons continue to improve, progress very good. Small fruit beginning to show on early acreage. False bloom very abundant older crop. Planting active north and west areas.

GEORGIA: Temperatures 2 to 4° above normal southeast to 7 to 9° above normal north and west, ranging from mid-50's mountains, low 60's north to mid-60's south. Rainfall became more spotty with generally light amounts less than 0.25 in.

but extreme north averaged 0.75 in. and scattered amounts greater than 1.00 in. occurred over mid-Georgia. Weekend colder with scattered heavy rains north and central 23d.

Soil moisture mostly adequate to surplus except short along Florida border. Fieldwork: 4.0 days suitable. Land preparation active north. Planting and land preparation very active south and central. Pasture fertilization and weed control active. Corn fair to mostly good; 37% planted, 14% last year. Watermelons fair to mostly good; 48% planted, last year 26% planted. A few fields of peanuts, soybeans and sorghum planted in south. Tobacco fair to mostly good; 12% transplanted, 6% last year. Small grains fair to mostly good. Peaches in full bloom, spraying active, temperature dropped below freezing for 4 to 6 hours just after close of period for central and north peach areas. Anticipated damage nominal to light. Dormant spraying on apples active. Leafy vegetables moving from south in fair volume, good quality. Pastures fair to good. Cattle fair to mostly good. Hogs good.

IDAHO: Temperatures little above normal. Extremes: 68 and -5°. Precipitation greatest in Magic Valley. Precipitation below normal most areas. Growing degree days below normal for south central and east but above normal for north and southwest.

Too wet for extensive fieldwork except southwest. Some wheat and barley seeding north. Southwest quite active with wheat, barley, sugarbeets and onions being planted. Calving and lambing continued. Livestock doing very well.

ILLINOIS: Temperatures 1 to 11° above normal. Precipitation ranged 0.25 to 0.75 in. north, 1.50 to 2.00 in. south.

Soil moisture adequate to surplus. Winter wheat mostly good condition, some loss to flooding, ice. Grain movement slowed by flooding in some areas. Livestock fair to good condition, feedlots muddy. Limited fieldwork reported south.

INDIANA: Considerable rain and fog midweek. Weekend cold with light snow in north central on briefly frozen surface soils. Temperatures declined to 18° west central on 25th. Precipitation 0.30 in. northeast, 0.60 in. central, 1.50 in. southwest. Soils saturated and temperatures averaged in 40's.

Muddy conditions limited fieldwork. Activities: Seeding legumes, topdressing winter grains, hauling manure, preparing tobacco beds, mending fences, readying equipment, and chores.

IOWA: Wet with near-seasonal temperatures. Rain changing to snow fell mostly on 22d and 23d. Snowfalls with strong winds in northwest on 22d, most areas on 23d, and in east on 24th made travel dangerous. Heavy precipitation over all except some east central and northeast localities added to flooded or swollen streams, particularly in southwest where about 2.50 in. fell.

KANSAS: Heavy precipitation averaged 1.50 in. west and 2.00 to 3.00 in. elsewhere. Temperatures 42° north central to 49° southeast, 6° above normal northwest to generally 1 to 3° above normal elsewhere.

Too wet for fieldwork. Western third received much needed moisture. Wheat greening aided by moisture and warmer temperatures. Barley seeding 15% complete, last year 5%, average 40%. Oat seeding 15% complete, last year 5%, average 45%. Feeding hampered by mud.

KENTUCKY: Week started with temperatures in 70's and bright sunshine, and ended with snow and temperatures in 20's. Temperatures few degrees above normal and precipitation totaled between 1.00 and 2.00 in.

Fieldwork active on well drained soils until rain and cold end of week halted most farming. Pastures and fall seeded grains beginning to grow. Fields where nitrogen applied very green. Livestock fair to good condition; cold and wet at end of week hard on newborn and young animals.

LOUISIANA: Temperatures 2 to 4° above normal. Extremes: 83 and 32°. Scattered showers.

Fieldwork: 3.6 days suitable. Soil moisture adequate to surplus. Land preparation and fertilizing active. Rice 8% planted, 22% last year, 18% average. Corn 10% planted, 22% last year, 21% average. Shaving sugarcane stubble. Bedding sweetpotatoes. Strawberries growing well and blooming. Transplanting tomatoes south. Planting Irish potatoes active north, plants emerging south. Small grains fair to good. Pastures below average to average. Cattle fair.

MARYLAND & DELAWARE: Temperatures 6° above normal, except southern Maryland and lower Eastern Shore. Highs in low to mid-60's and lows in 30's except western Maryland where lows in 20's. No precipitation. Mild and breezy with showers and thunder showers 24th; cold and windy with scattered showers 25th.

MICHIGAN: Temperatures 1 to 11° above normal. Daytime highs reached 50's and 60's by midweek. Winter storm over weekend, ending warm spell. Temperatures plunged and snow spread over State. Nighttime temperatures fell into teens over Upper Peninsula and 20's over Lower. Precipitation heavy over Upper Peninsula with Marquette recording 3.56 in. including 18 in. of new snow. Values of 0.50 to 0.75 in. common over Lower Peninsula.

Fruit crop damage, due to variable temperatures was minimal, though their vulnerability to extreme cold increased as their dormancy protection lowered.

MINNESOTA: Temperatures near normal west, 3° above normal east. Extremes: 45 and 3°. Precipitation 1.00 to 1.80 in. above normal southwest through northeast, near normal to 0.50 in. above normal elsewhere. Precipitation ranged from 0.10 in. northwest to 2.11 in. northeast. Snow less than 1 in. northwest to north central to 7 in. southeast. Snow depth ranged 15 to 20 in. most of north to less than 6 in. south and extreme west.

MISSISSIPPI: Temperatures up to 10° above normal. Extremes: 35 and 85°. Mild and sunny early and midweek. Rain, then cool and windy late week.

Soil moisture mostly adequate southern third, adequate to surplus elsewhere. Fieldwork: 3.6 days suitable. Land preparation active where fields dry enough but some areas still too wet. Pastures and winter grazing crops greening and feeding decreased. Acreage plowed 39%, 27% 1978, 41% average. Corn 17% planted, 15% 1978. Irish potatoes 52% planted, 63% 1978. Winter wheat fair to good condition; 12% jointing, 21% 1978. Watermelon 55% planted. Pastures fair to poor northern areas and fair to good southern areas. Hay and roughage supplies and feed grain supplies rated short to adequate.

MISSOURI: Temperatures 4 to 8° above normal. Precipitation general, ranging from 0.75 in. northeast to nearly 2.50 in. most stations in West Ozarks.

MONTANA: Temperatures 7° above normal in west and 6° above normal in north central to near normal in east. Very warm 24th. Temperatures took sharp

downward fall 25th as maximum readings fell to reach the freezing mark through much of central sections. Precipitation very light except for few locations in north central and central sections.

Winter wheat condition good, some greening reported. Fieldwork very limited. Calving and lambing progressing normally with losses near normal. Some reports of weak calf syndrome due to winter stress.

NEBRASKA: Temperatures near normal. Precipitation 1.00 in. Panhandle; 2.00 to 3.00 in. central and east.

Sugarbeet seedbed preparation active Panhandle. Wet topsoil limiting early fieldwork other sections. Calving and lambing in full swing.

NEVADA: Below normal temperatures and precipitation early, more settled and warmer end of week. Overall temperatures 2° below normal. Extremes: 73 and 11°.

Seedbed preparation delayed by inclement weather. Calving, lambing continued.

NEW ENGLAND: Brisk northeasterly flow of cool air early week; light rain or mixed rain and snow fell in some east coastal areas. Low temperatures ranged in 20's and 30's with highs mostly 40's. Spring weather 21st into early weekend. Overnight lows in 20's and 30's, daytime highs soared into 60's and 70's. Weekend rainfall from 0.25 to near 1.00 in. with mild temperatures.

NEW JERSEY: Temperatures 7° below normal. Extremes: 24 and 71°. Rainfall 0.87 in. north, 0.48 in. central and 0.94 in. south. Soil moisture in percent of field capacity 99% north, 98% central and 97% south. Soil temperature 39° north, 48° central and south.

Soil preparations continued as soil conditions permitted. Early planting continued in south. Fruit pruning finishing up. Pastures greening.

NEW MEXICO: Rain and snow 20th and 21st west and north with some amounts to near 1.00 in. Considerable wind and colder 21st.

Soil moisture adequate. Land preparation and pre-irrigating main activities. Wheat and barley good. Cattle being moved off crop to be cut for grain. Little corn planted southeast. Alfalfa greening but treatment for alfalfa weevils necessary in many areas. Lettuce and onions good. Ranges greening. Calving active. Sheep shearing slowing down, but lambing active.

NEW YORK: Temperatures 5 to 15° above normal, mostly in 40's except mid to upper 30's in higher elevations. Precipitation well below normal with 0.50 in. or less weekend with exception of 2.50 in. Slide Mt. area of Catskills.

NORTH CAROLINA: Temperatures west 7 to 9° above normal; elsewhere normal. Precipitation east 0.50 to 1.00 in.; elsewhere 1.50 to 2.50 in.

Fieldwork: 5.3 days suitable. Soil moisture adequate. Condition of small grains and tobacco plant beds fair to mostly good, pastures and Irish potatoes fair to good. Supplies hay, roughage and feed grains adequate. Irish potato planting 50%, 1978 30%, average 52%.

NORTH DAKOTA: Winter storm early week; heavy snow and freezing rain central portions, rain east. Thawing midweek, bit colder weekend. Temperatures near normal. Extremes: 3 and 45°. Precipitation trace northwest to 1.00 in. portions east and south central. Snow cover gradually disappearing, particularly west.

OHIO: Temperature highs into 70's early week; lows over weekend into 20's. Precipitation below seasonal normals central and west, but east normal or slightly above. Dry northwest received under 0.25 in. Soil temperatures low to upper 40's. Cool air over weekend reduced temperatures 5°. Shallow surface freeze noted late in weekend.

Wheat condition good. No unusual heaving from recent extreme temperatures. Considerable top-dressing. Development of fruit trees on schedule; pruning active. Spring plowing active in south, limited in north. Few fields of oats planted. Greenhouses and nurseries moving Easter plants and flowers.

OKLAHOMA: Temperatures 3 to 5° below normal northwest to 1 to 2° above normal south. Rainfall above normal statewide, largest averages northwest. Precipitation ranged 0.76 in. northeast to 2.63 in. southeast.

Rains, warmer temperatures enable small grains rapid growth and development. Wheat good condition with 20% jointing, 10% 1978, 20% average. Pastures and ranges fair condition. Cattle good to fair condition. Supplemental feeding active. Fieldwork: 2.9 days suitable.

OREGON: Temperatures near normal. Maximum temperatures in upper 60's and low 70's west, 50's and lower 60's east. Minimum temperatures in 30's west and teens and 20's east. Rainfall less than normal averaging 0.50 in. along coast, 0.25 in. Willamette Valley, 0.10 in. or less elsewhere.

Soil moisture adequate. Main farm activities: Fertilizing fall grains and grass fields; plowing for spring planting; reseeding winter damaged crops. Pruning and spraying fruit orchards continued. Onion movement slow, potato supplies plentiful. Feeding heavy but supplies good. Snow pack should provide good irrigation supply.

PENNSYLVANIA: Warming trend continued to midweek. Temperatures reached near 70° statewide. Temperatures 7° above normal. Extremes: 19 and 78°. Rain and snow flurries at end of period; precipitation near normal. Most areas had 0.50 in. with 1.50 to 2.00 in. in central mountains.

Preparation for spring fieldwork. Limited amount of spring plowing.

PUERTO RICO: Island average rainfall 0.97 in. or 0.48 in. above normal. Temperatures averaged about 75° on coasts and 70° interior. Extremes: 89 and 55°.

SOUTH CAROLINA: Temperatures above normal, cooler near weekend. Early 25th readings in 30's. Several days rainfall midweek with 2.00 in. or more northwest. Destructive tornado or wind storm 23d caused extensive damage Anderson, Greenville Counties.

Soil moisture adequate to surplus. Fieldwork: 4 days suitable. Tobacco plant supply adequate, 7% transplanted. Corn fair to good, 11% planted, 16% 1978. Cotton acreage 1% planted. Vegetable condition good; acreage planted: Snap beans 42%, all cucumbers 43%, tomatoes 52%. Sunflower, watermelons, cantaloups being planted. Peaches full bloom in ridge, 25% in Piedmont. Peaches little or no damage from low temperatures. Apples good condition, not yet bloomed. Small grain condition good, pastures fair to good and improving.

SOUTH DAKOTA: Temperatures near normal; 30 to 35° except in northeast which had 26 to 30°. Extremes: 5 and 57°. Rain and snow with precipitation ranging from trace in Black Hills to 2.86 in. southeast.

TENNESSEE: Mild, early week, heavy rains late week; amounts averaged 2.00 in. Cold at weekend. Light snow some areas. Temperatures 2 to 9° above normal.

Fieldwork: 2.4 days suitable. Soil moisture surplus. Spring plowing 37% complete, 1978 22%, average 42%. Tobacco plantbeds 58% seeded, 1978 41%, average 69%. Wheat, oats and pastures fair. Fertilizing and reseeding active. Cattle fair on supplemental feed. Cool temperatures damaged fruit tree blooms. Irish potato and cool weather vegetable planting active. Spinach and greens hurt by winter weather.

TEXAS: Cold front over west became stationary across central midweek. Scattered showers with severe thunderstorms dumped heavy rains across west central and north central. Rainfall below normal east, above normal elsewehre. Rainfall 0.10 in. west, 0.50 in. or greater east and Edwards Plateau, and 0.10 to 0.50 in. elsewhere. Temperatures 2 to 7° below normal northeast half and 1 to 5° above normal elsewhere. Temperatures mid-50's across Panhandle and northwest; 60° northeast, east, and southwest; mid-60's central, and upper 60's south coast.

Heavy showers hampered land preparations and planting. Preplant irrigation confined to portions of Trans-Pecos and northern High Plains. Warmer, drier air at weekend combined with sunshine, helped alleviate surplus moisture conditions in central, east and south. Soil blowing noted in Lubbock and El Paso areas. Much cotton in lower Rio Grande Valley planted. Land preparation halted by wet weather.

Planting on schedule. Replanting may be necessary in fields that remain cool and wet. Farmers awaiting warmer and drier conditions to resume planting. Recent rains delayed sorghum planting, especially in south central and Blacklands. Many good stands in earlier fields in Rio Grande Valley. Corn planting on schedule; excellent stands noted on earlier fields in lower Rio Grande Valley and as far north as southern Blacklands. Wheat growth excellent as rains improved crop prospects. Insect damage minimal, only isolated infestations army worms and green bugs. Oats continued improvement. Rice planting behind schedule as wet conditions hampered fieldwork. Some earlier fields emerged in coastal region. Sugarcane harvest continued in lower Rio Grande Valley. Corn planted 18%, 17% 1978, 19% average. Cotton planted 10%, 10% 1978, 7% average. Rice planted 7%, 14% 1978, 20% average. Sorghum planted 29%, 40% 1978, 40% average.

Spring onion harvest underway along with carrot, spinach, lettuce, and cabbage. Tomatoes and watermelons making favorable progress. Citrus supplies nearly exhausted. Rain and wet fields prevented land preparation and planting in many areas. Onion and potato planting active as weather permitted. Peach trees from upper Gulf Coast through Hill Country reached petal fall stage. Most other areas, trees continued to bloom. Pecan buds continued to swell throughout south central and along upper Gulf Coast with few early varieties beginning to leaf out.

Pastures and ranges continued green up in response to warmer temperatures and adequate moisture supplies. Pastures improving Blacklands, most supplemental feeding stopped, although hay still being fed. In Blacklands, east and upper Gulf Coast wet fields limited grazing some areas. Panhandle cattle moving to market or feedlots from wheat fields to be harvested for grain. Some supplemental feeding continued Panhandle and north. Edwards Plateau Angora shearing near completion; lambing and kidding full swing.

UTAH: Scattered rain or snow early week. Moisture generally light to moderate but locally heavy. Rising trend temperatures to range between 6° below and 2° above normal.

Cleaning ditches, repairing farm machinery. Most land too wet and muddy to work except in extreme south. Some activity just beginning there. Fruit tree pruning completed, some dormant spraying started. Livestock in good condition with extreme cold weather stress mostly over.

VIRGINIA: Warm through week with cooling weekend. Temperatures 8° above normal west, 5° below normal east. Scattered showers weekend, some heavy.

Topsoil moisture mostly adequate. Fieldwork: 5.1 days available. Higher ground dried with land preparation for spring seedings moving ahead rapidly. Some low ground still too wet to work. Overnight frosts delaying corn plantings with less than 1% of corn seeded, all in east and southeast, 1% 1978, 1% usual. Flue-cured tobacco plant beds 85% seeded, burley 50%. Irish potatoes almost half seeded Eastern Shore. Condition pastures, barley, wheat, oats, alfalfa, peaches good. Minor winterkill noted in wheat, north. Apple buds swelling north and east, peach buds swelling east. Cool nights keeping fruit buds dormant most areas. Seeding spring oats central and southeast. Setting strawberries southeast. Daffodils blooming commercial fields in Mathew and Gloucester Counties. Livestock good, most pastures greening. Other activities: Topdressing small grains; applying fertilizer, lime, herbicides to cropland before planting; overseeding pastures; seeding alfalfa, clover; pruning and spraying fruit orchards.

WASHINGTON: West: Temperatures near to 4° above normal. Precipitation 0.40 to 2.00 in. below normal.

Plowing, fertilizing active. Planting new raspberry fields nearly complete. Planting spinach seed continued. Strawberries and raspberries show growth, however, there is much concern over freeze to strawberries. Cattle on pasture.

East: Temperatures near to 2° above normal. Precipitation 0.20 to 0.30 in. below normal.

Orchardists active with pruning, spraying for pear psylla. Buds developing in all trees, apple trees reaching green-tip stage. Vineyards completing pruning. Planting potatoes, onions, peas underway. Reseeding fall grain damaged by winterkill active. Calving continued.

WEST VIRGINIA: Temperatures well above normal. Extremes: 80 and 19°. Precipitation subnormal northwest and north central, normal and above normal elsewhere.

Fieldwork: 4.9 days suitable. Soil moisture adequate. Hay, grain and other feed supplies adequate. Some tobacco beds sown. Small grains good condition. Early plowing underway.

WISCONSIN: Temperatures fluctuated greatly but averaged above normal. High readings reached 60's south 22d but dropped to 20's on 25th. Lows in 20's and 30's but fell to single digits 25th. Extremes: 68 and 3°. Precipitation above normal, ranging from nearly 1.00 to 1.70 in. Light rain and fog beginning of week. Thundershowers late 22d, snow northwest, rain 23d changing to snow 24th. Snowfall accumulation 8 to 14 in. north, 4 to 8 in. central, 2 to 5 in. south. Partial clearing and cold 25th. Frost depths averaged only 1.00 in. as of 23d.

Much snow melted prior to weekend storm. Soils saturated from snowmelt and rainfall.

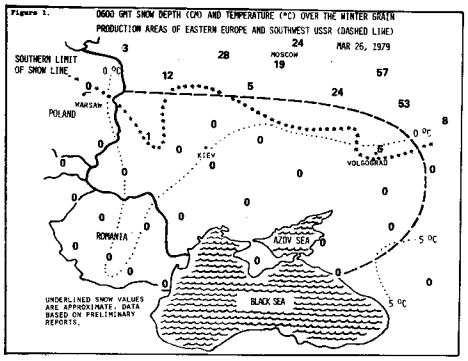
WYOMING: Temperatures slightly above normal. Highs mostly in 40's and 50's; lows mostly teens and low 20's. Precipitation below normal in all but Upper and Lower Platte drainages. Most areas reported trace to 0.30 in. Amounts higher in Platte drainages.

Topsoil and subsoil moisture adequate. Few fields spring wheat, oats, and barley planted. Snowcover and wet fields slowing land preparation and planting. Winter wheat mostly good condition, little wind damage. Calving, lambing, shearing behind last year. Spring calves born 28%; farm flock ewes lambed 48%; range ewes lambed 12%; farm flock shorn 40%; range sheep shorn 16%. Feed supplies mostly adequate.

World Weather and Crop Update

March 19 - 25

USSR. The precipitation pattern west of the Volga River became near normal, with reduced amounts of 5 to 10 mm falling on northern agricultural areas; however, totals similar to last week's 5 to 20 mm amounts fell in the Ukraine. Renewed growth of winter grains was slowed in Krasnodar over the weekend as cooler air pushed in from the north. Snowcover disappeared from nearly the entire winter grain area (fig. 1), but no danger of winterkill occurred with the cold. Precipitation over the New Lands continued last week's tendency of below-normal amounts of less than 5 mm, with occasional greater amounts above 10 mm. The outlook for soil moisture continues to be favorable due to earlier snowfall. Scattered rainfall totals of 5 to 15 mm in the Soviet cotton area augmented irrigation supplies from an abundant snowpack in the mountains to the southeast.



CHINA. Above-normal rainfall ranging from 20 to 120 mm covered rice areas south of the Yangtze River in a pattern similar to the previous week. Some coastal areas may have been too wet, but for the most part the weather remained quite favorable for the newly-planted rice. Some light rains returned to wheat areas in the North China Plain. Totals for the week varied from zero to 20 mm, pegging them above normal in the north and normal or slightly below in the south. Lower temperatures briefly retarded wheat development during the week, but renewed warming over the weekend put conditions near normal.

AUSTRALIA. In a sudden shift of the weather, rainfall occurred mostly along coastal areas, and amounts dropped below 10 mm. It appears that the monsoon-type rains in the north have tapered off several weeks early. Previous rainfall should have been adequate for the sorghum crop, which is nearing harvest now.

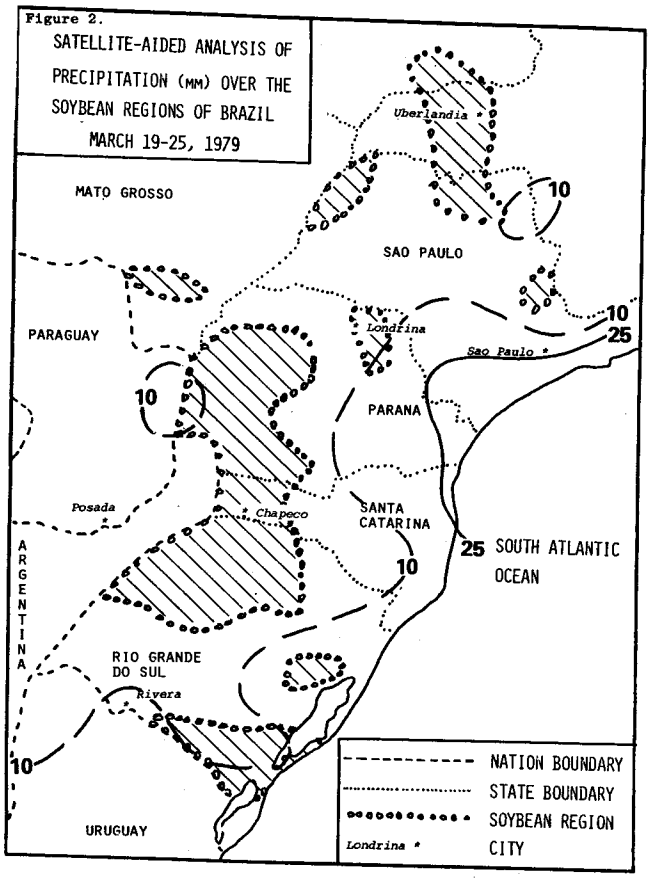
INDIA. Only scattered light rains of less than 5 mm fell in wheat areas of the north again this week. However, normal weekly totals at this time of year barely reach 10 mm, and snowpack in the western Himalayas appears excellent, so the outlook for the crop is quite favorable.

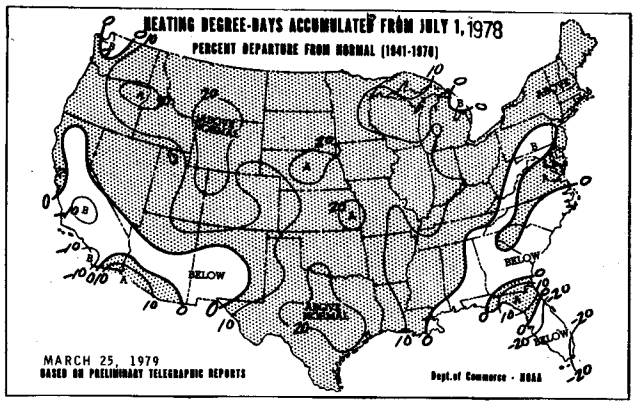
AFRICA. Wetter-than-normal conditions returned to Morocco, where the entire winter grains area received 20 to 40 mm of rainfall. This has been a season of contrasts, with delayed planting due to dry weather being followed by mid-winter flooding in some major growing areas. Rainfall continued in a near-normal pattern to the east in Algeria and Tunisia. Central portions of the Maize Triangle in South Africa saw above-normal rains of 15 to 70 mm. In western parts of the belt, where the plants are still immature, totals remained below 15 mm continuing the stress from lack of moisture there.

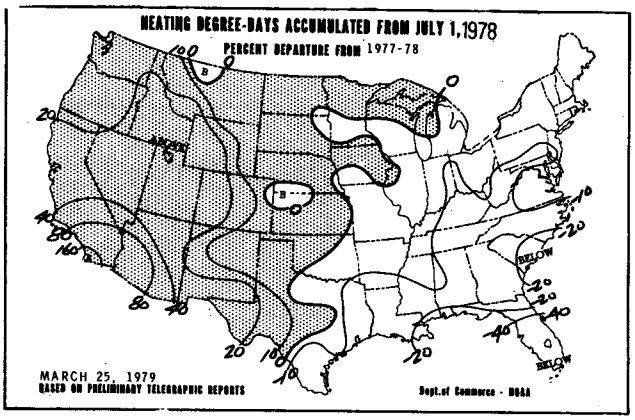
EUROPE. Most of western Europe continued to receive normal or above precipitation totals---mostly in the range of 15 to 45 mm. Some local areas had amounts of less than 10 mm---notably eastern Spain and south-central France, southeastern Italy, southeastern West Germany, and northern Austria. On the whole, soil moisture remains quite adequate as greening-up continues. Some flooding in Poland has resulted from melting snow, but the problem does not appear serious.

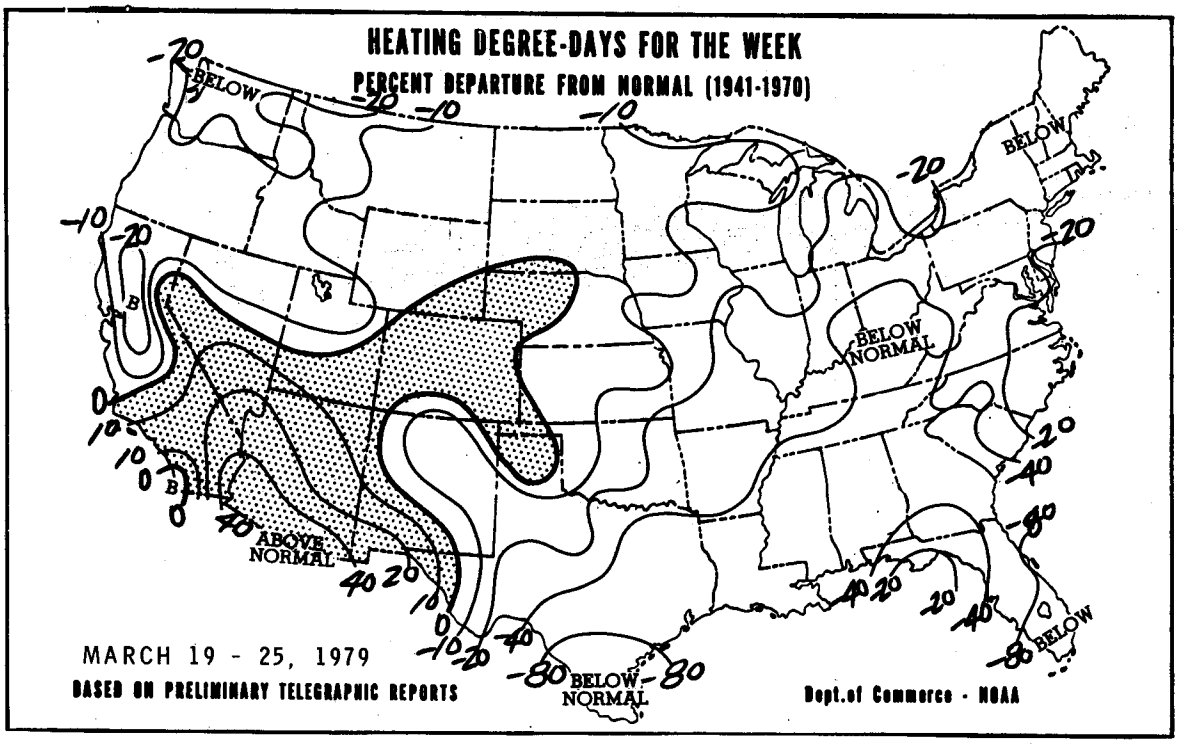
SOUTH AMERICA. Nearly all soybean areas in Brazil turned drier, with rainfall totals dropping below 5 mm (fig. 2). This has presented good harvest conditions; only the late varieties in Rio Grande do Sul may need more rain, and amounts in recent weeks have been quite adequate. In Argentina, near-normal rains of 15 to 20 mm returned to soybean areas in Santa Fe. The outlook for the crop remains excellent, and only the late varieties need additional rainfall in the weeks to come.

Figure 2.









HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING MAR. 25, 1979.

STATES AND STATIONS	WEEKLY TOTAL	WEEKLY DEPARTURE*	SEASONAL ACCUMULATION + TOTAL	SEASONAL ACCUMULATION + DEPARTURE*	SEASONAL ACCUMULATION + DEPARTURE FROM 1977-78
ALA. BIRMINGHAM	38	39	2677	29	93
MOBILE	14	5	1590	27	578
MONTGOMERY	34	13	1928	216	432
ARIZ. FLAGSTAFF	238	30	6040	255	1232
PHOENIX	45	9	1376	52	682
TUCSON	7	2	1223	66	541
WINSLOW	154	22	4349	205	850
YUMA	28	11	1147	178	555
ARK. FORT SMITH	65	30	3688	366	156
LITTLE ROCK	59	34	3361	232	102
CALIF. BAKERSFIELD	59	3	1715	266	673
EUREKA	104	12	3590	198	592
FRESNO	61	11	2208	145	551
LOS ANGELES	65	8	1393	86	620
RED BLUFF	61	17	2137	201	388
SAN DIEGO	56	4	1014	182	637
SAN FRANCISCO	75	2	2484	129	545
STOCKTON	61	20	2367	78	613
COLO. DENVER	197	10	5443	432	621
GRAND JUNCTION	159	4	5010	982	1499
PUEBLO	164	1	5349	662	532
CONN. BRIDGEPORT	124	31	4561	4	535
HARTFORD	124	44	4921	298	402
DEL. WILMINGTON	121	28	4434	118	547
D.C. WASHINGTON	83	43	3582	200	335
FLA. APALACHICOLA	29	3	1350	40	518
DAYTONA BEACH	4	17	624	244	528
FORT MYERS	0	0	154	260	434
JACKSONVILLE	17	17	1479	156	270
KEY WEST	0	0	39	23	182
LAKELAND	4	10	531	131	388
MIAMI	0	0	181	134	390
ORLANDO	2	11	571	139	251
TALLAHASSEE	24	7	1672	168	451
TAMPA	4	10	551	149	432
WEST PALM BEACH	1	1	238	61	203
GA. ATLANTA	41	48	2655	204	574
AUGUSTA	29	30	2104	241	327
MACON	27	34	2163	24	424
SAVANNAH	20	29	1767	149	500
IDAHO. BOISE	140	19	5485	608	1258
LEWISTON	81	34	5383	1	1588
POCATELLO	184	14	6554	715	1530
ILL. CAIRO	70	40	4259	718	69
CHICAGO	147	33	4646	741	125
MOLINE	140	38	4560	945	596
PEORIA	144	33	4738	793	225
ROCKFORD	174	28	4921	692	313
SPRINGFIELD	134	28	5217	684	314
IND. EVANSVILLE	81	52	4627	457	417
FORT WAYNE	114	26	5316	367	261
INDIANAPOLIS	135	29	5238	359	528
SOUTH BEND	138	42	5709	177	432
IOWA. BURLINGTON	142	38	4352	942	48
DES MOINES	179	22	5482	601	21
DUBUQUE	158	34	5772	794	261
SIOUX CITY	198	7	5302	1219	555
KANS. CONCORDIA	155	13	5714	769	42
DODGE CITY	141	14	5077	627	191
GOODLAND	197	14	5534	752	115
TOPEKA	141	14	5303	559	159
WICHITA	121	17	4672	743	170
KY. LEXINGTON	73	44	4492	281	472
LOUISVILLE	47	64	4255	104	521
LA. BATON ROUGE	17	22	1719	96	335
LAKE CHARLES	30	28	1684	238	375
NEW ORLEANS	17	18	1420	6	446
SHREVEPORT	31	24	2355	296	535
MAINE. CARIBOU	173	99	7869	54	93
PORTLAND	154	63	6300	130	54
MD. BALTIMORE	112	29	4124	49	317
MASS. BOSTON	114	61	4870	122	80
MICH. ALPENA	206	50	6829	136	381
DETROIT	150	43	5398	415	342
FLINT	142	69	6182	247	255
GRAND RAPIDS	148	60	6302	529	116
HOUGHTON LAKE	177	53	7220	376	148
LANSING	155	53	6171	316	160
MARQUETTE	231	18	7539	765	461
MUSKEGON	171	40	6396	434	24
S. STE. MARIE	227	44	7948	468	13
MINN. DULUTH	251	20	8611	537	196
INTERNATL FALLS	253	33	9750	859	140
MINNEAPOLIS	204	30	7437	390	173
ROCHESTER	216	24	8123	1069	318
ST. CLOUD	232	21	8365	762	210
MISS. JACKSON	33	27	2379	200	440
MERIDIAN	34	26	2443	182	284
MO. COLUMBIA	105	46	5020	495	269
KANSAS CITY	135	19	5400	788	520
ST. LOUIS	96	33	4970	706	376
SPRINGFIELD	108	29	4757	662	159
MONT. BILLINGS	200	17	7221	1202	213
GLASGOW	234	7	8692	1285	60
GREAT FALLS	224	9	7358	1066	209
HAVRE	215	38	8305	924	248
HELENA	206	25	7402	859	817
KALISPELL	195	47	7872	829	156
miles CITY	225	4	7519	1202	120
MISSOULA	172	40	7381	848	1047
NEBR. GRAND ISLAND	188	5	6717	1128	454
LINCOLN	171	13	6407	934	124
NORFOLK	198	10	7011	934	204
NORTH PLATTE	206	3	7014	1253	404
OMAHA	231	29	7585	602	245
VALENTINE	231	7	7269	1042	93
NEV. ELY	216	2	6627	410	1198
LAS VEGAS	82	17	2912	6	740
RENO	152	14	5137	269	983
WINNEMUCCA	182	30	5442	68	1079
N.H. CONCORD	154	59	6505	309	351
N.J. ATLANTIC CITY	129	25	4636	348	7
TRENTON	116	37	4374	62	353
N.MEX. ALBUQUERQUE	111	13	3700	158	208
ROSWELL	90	9	3384	36	653
N.Y. ALBANY	148	24	6162	266	197
BINGHAMTON	198	14	6845	112	338
BUFFALO	151	24	5648	170	187
NEW YORK	105	51	4451	302	324
ROCHESTER	164	34	5826	158	153
SYRACUSE	150	57	5944	302	81
N.C. ASHEVILLE	78	43	3596	157	246
CHARLOTTE	52	30	2983	7	326
GREENSBORO	80	30	3455	69	521
HATTERAS	114	10	2302	125	450
RALEIGH	92	18	3017	145	639
WILMINGTON	75	5	2165	117	568
N.DAK. BISMARCK	232	7	8769	1039	312
FARGO	253	7	8892	1029	133
WILLISTON	245	20	8828	1027	133
OHIO. AKRON-CANTON	118	68	5539	220	420
CINCINNATI	52	86	4006	434	735
CLEVELAND	137	71	5196	35	520
COLUMBUS	98	72	5178	203	530
DAYTON	88	79	5211	288	531
TOLEDO	142	47	5921	448	557
YOUNGSTOWN	135	57	5620	157	359
OKLA. OKLAHOMA CITY	88	20	3926	524	18
TULSA	70	37	3961	561	102
OREG. ASTORIA	123	19	4252	241	470
BURNS	163	32	6454	629	1035
MEDFORD	110	26	4072	41	622
PENDLETON	126	17	5406	921	726
PORTLAND	90	41	4181	320	458
SALEM	113	22	4195	337	559
PA. ALLENTOWN	119	55	4999	32	304
ERIE	171	30	5836	171	347
HARRISBURG	114	39	4470	141	518
PHILADELPHIA	110	37	4313	32	560
PITTSBURGH	108	44	4756	348	5
SCRANTON	138	49	5756	359	35
R.I. PROVIDENCE	137	46	5246	243	87
S.C. CHARLESTON	36	22	1864	169	433
COLUMBIA	45	25	2288	168	757
GREENVILLE	52	39	2973	42	336
S.DAK. ABERDEEN	226	16	8359	947	48
HURON	229	13	8579	931	85
RAPID CITY	213	12	7014	933	140
SIOUX FALLS	218	8	7708	933	20
TENN. CHATTANOOGA	52	45	3186	35	452
KNOXVILLE	51	46	3135	143	402
MEMPHIS	31	40	3029	38	236
NASHVILLE	63	42	3422	221	494
TEXAS. ABILENE	58	13	2745	209	117
AMARILLO	132	6	4207	482	147
AUSTIN	18	24	2018	353	5
BEAUMONT	19	20	1588	128	178
BROWNSVILLE	0	16	757	94	89
CORPUS CHRISTI	8	22	1033	114	168
DEL RIO	8	22	1203	210	180
EL PASO	82	18	3547	3	449
FORT WORTH	37	27	2633	404	261
GALVESTON	15	21	1351	169	250
HOUSTON	20	16	1477	258	386
LUBBOCK	36	19	3413	152	77
MIDLAND	31	18	2945	470	478
SAN ANGELO	38	19	2654	526	296
SAN ANTONIO	13	24	1692	176	150
VICTORIA	6	24	1366	127	108
WACO	29	26	2413	347	180
WICHITA FALLS	63	19	3308	585	73
UTAH SALT LAKE CITY	140	28	5090	37	1165
VT. BURLINGTON	160	73	6917	275	95
VA. LYNCHBURG	73	30	3783	182	330
NORFOLK	33	15	3128	52	236
RICHMOND	100	15	3808	56	321
ROANOKE	94	31	4097	267	355
WASH. QUILLAYUTE	133	28	4335	133	672
SEATTLE-TACOMA	102	41	3551	134	704
SPOKANE	155	30	6721	1071	1012
WALLA WALLA	159	29	6677	537	599
YAKIMA	129	26	5758	670	902
W.VA. BECKLEY	96	64	4673	132	663
CHARLESTON	65	65	4507	123	551
HUNTINGTON	65	45	4306	145	639
PARKERSBURG	89	51	4462	197	569
WIS. GREEN BAY	213	23	7471	619	75
LACROSSE	192	40	6675	542	74
MADISON	192	35	7104	516	146
MILWAUKEE	178	41	6489	261	114
WYO. CASPER	284	5	7190	1019	852
CHEYENNE	252	7	6908	1016	1
LANDER	213	15	6603	1023	154
SHERIDAN	220	8	7704	1359	548

BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1978.

Agricultural Weather Facility
USDA South Bldg., Room 1248
Washington, DC 20250

IMMEDIATE – U. S. Weather Report

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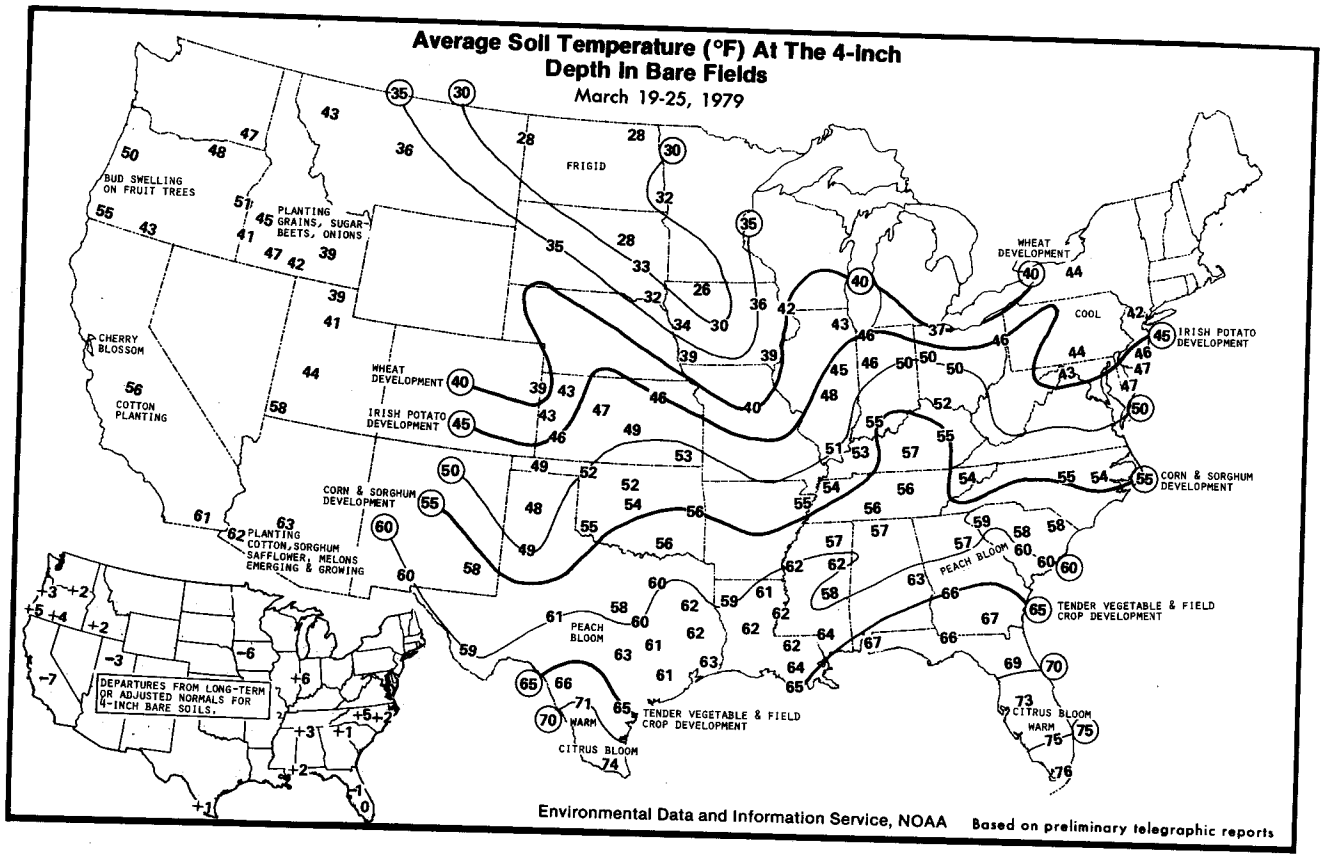
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