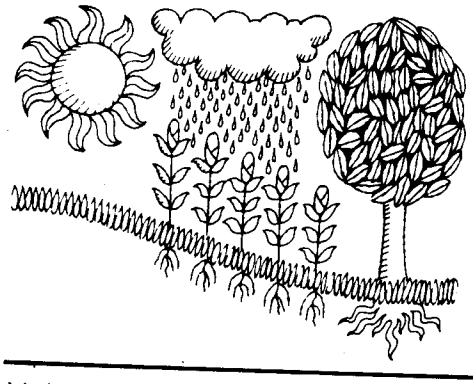

WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
National Weather Service, NOAA

U.S. DEPARTMENT OF AGRICULTURE
Economics, Statistics, and Cooperatives Service

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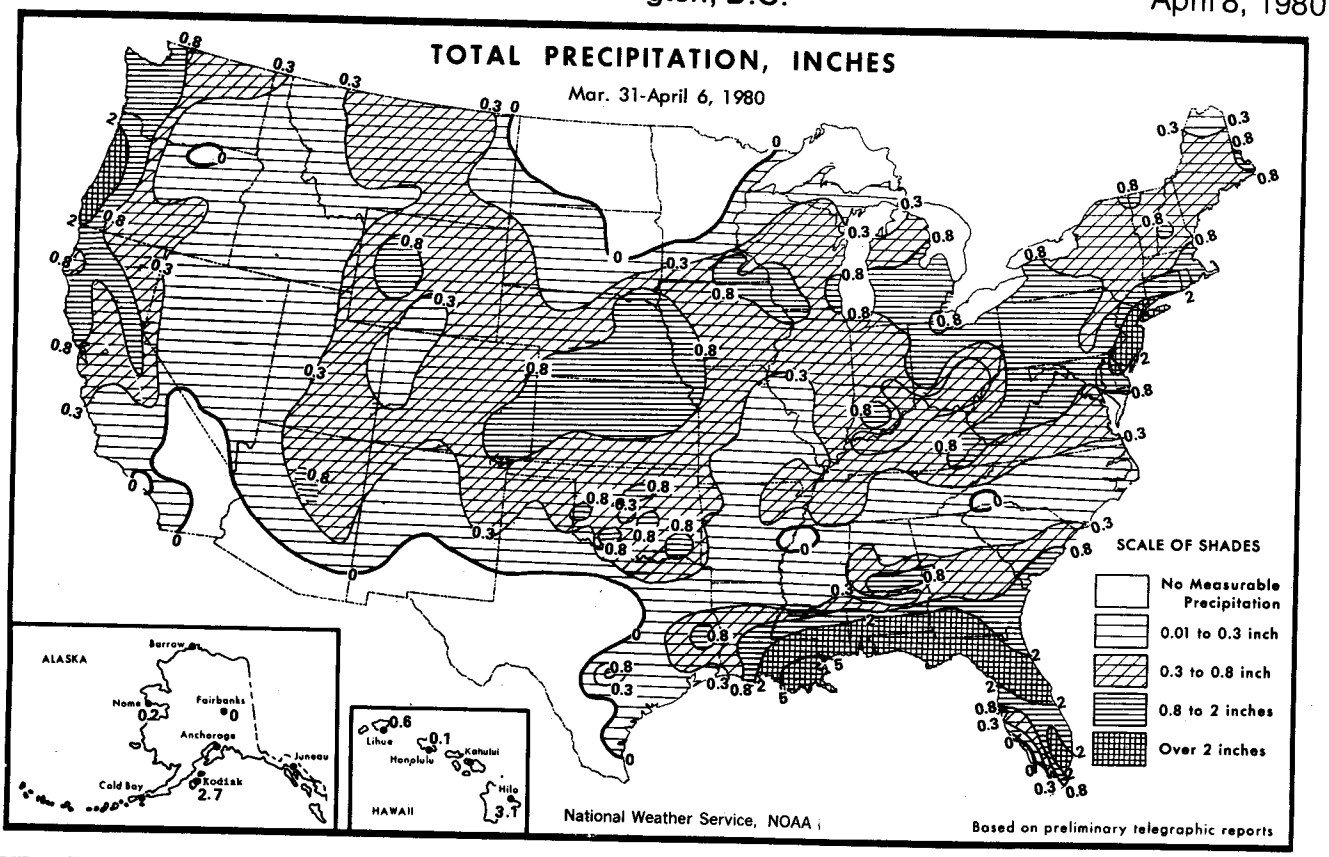
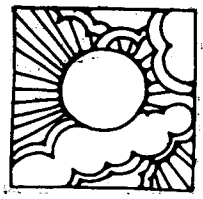




National Weather Summary

March 31 - April 6

HIGHLIGHTS: Moderate precipitation fell from the central Plains through New England. Heavy snow accumulated in portions of the west central Plains. Elsewhere, thunderstorms and heavy showers accounted for large amounts of rain, which caused severe local flooding, in New Orleans and several points along the Gulf Coast.

Late in the week, a disturbance in the west central Rockies caused heavy snowfall as far south as northern Arizona.

Temperatures were 6 to 9 degrees colder than normal in the central Rockies, 6 degrees warmer than the norm in the northern Plains, and near normal elsewhere.

On Monday, an intense low pressure system brought heavy snow to an area from Montana to New Mexico and as far east as the west central Plains. Up to a foot of snow fell at Lewistown, central Montana, and Lander, west central Wyoming.

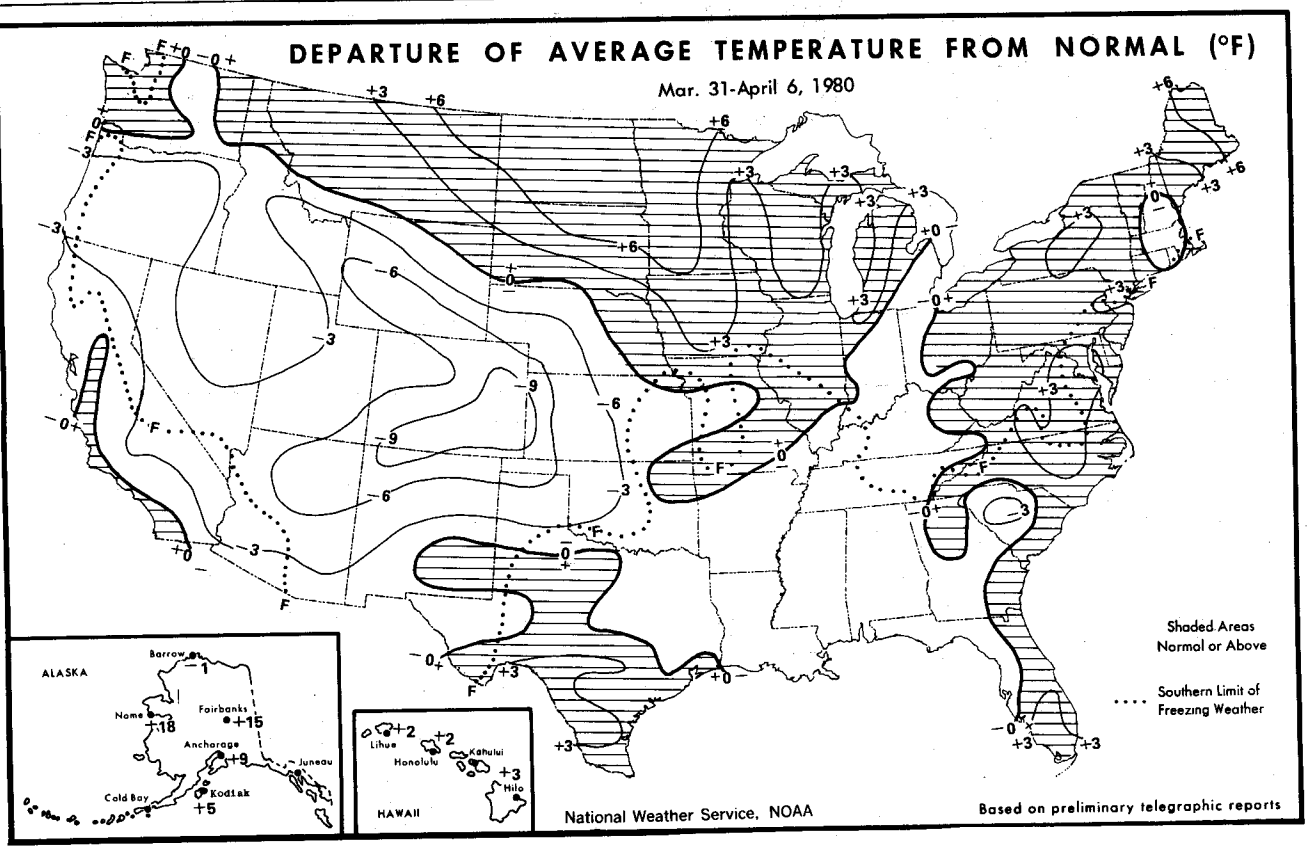
Meantime, rain fell from the central Appalachians through New York State and Connecticut; totals ranged under an inch. Light showers moistened parts of the Pacific Northwest.

Snow persisted from the east central Rockies through the central Plains on Tuesday. Nine inches blanketed Valentine, northern Nebraska. Rain extended into the Mississippi Valley and portions of Texas; totals remained below a half-inch.

Another storm moved out of the Southwest and headed for the Rockies; Flagstaff, north central Arizona, scored 5 inches of snow.

Heavy rains churned over Florida; nearly an inch fell over Vero Beach, and 2.3 inches doused Miami.

Snow again surged over the beleaguered Rockies and central Plains. Up to a half-foot of additional snow settled over parts of Colorado and



Kansas. Goodland, northwestern Kansas, notched a record snow depth of 17 inches, surpassing the 1929 mark by 1 inch.

To the south, unsettled weather touched off heavy rains, hail, and tornadoes from Texas across the Gulf Coastal States to Florida. More than 2.5 inches fell at Baton Rouge, La., and New Orleans gathered about 6 inches of rain. One to 2 inches soaked Biloxi, southern Mississippi, Mobile, southern Alabama, and Tallahassee, Fla.

Six tornadoes were sighted--four in Texas and one each in Oklahoma and Arkansas. Large hail pummeled an area near Dallas/Fort Worth and McAlester, southeastern Oklahoma.

Snow persisted from Wyoming through southern Minnesota on Thursday. A half-foot fell at Imperial, southwestern Nebraska, running the ground total to 22 inches. Three inches whitened Sioux City, western Iowa, and Rochester, southeastern Minnesota.

Rain dampened parts of the same region and stretched through the Great Lakes to the Ohio Valley. A half-inch soaked Lafayette, western Indiana, while 1.4 inches soaked Dayton, southwestern Ohio. Hail and a tornado hit the area. The twister touched down outside Champaign, eastern Illinois, and strong winds and hail battered Crawfordsville, western Indiana.

In the Southeast, light rain dampened some sections of Florida, but severe weather stormed just to the north. Very large hail pounded Attapulgus and Cairo, both in southwestern Georgia.

In contrast, the weather was sunny and relatively warm in New England; Caribou, northern Maine, at 53°, tallied a record high reading, toppling the 1953 mark by 4 degrees.

Rain fell over the East and West Coasts, but clear weather finally prevailed over the Plains on Friday.

Rain fell nearly the entire length of the Atlantic Seaboard. A sampling of rain amounts included 1.8 inches at Alma, southeastern Georgia, an inch at Providence, R.I., and three-quarters inch at Eastport, on Maine's coast. Thunderstorms carried 80- to 90-mph winds to Edenton, northeastern North Carolina, and Norfolk, southeastern Virginia. A tornado touched down near Bannockburn, southern Georgia.

Rain spanned the Pacific Coast, but amounts failed to reach a half-inch.

The remainder of the snow drifted out of the country, but not before blanketing Alpena, northern Michigan, with a half-foot.

Light rain continued in the West, but a high pressure system dominated much of the eastern half of the Nation with mostly sunny skies on Saturday.

Up to a half-inch of rain moistened a region from Washington State through the northern half of California. Some snow fell in the high elevations. Showers dotted parts of the Rockies, Texas, and the north central United States. A thunderstorm rolled over Miami, Fla., dumping nearly a half-inch of rain.

On Sunday, showers and thunderstorms covered much of the Mississippi Valley, extending to the Great Lakes, Ohio and Tennessee Valleys, and Gulf Coast. New Orleans received three-quarters inch of rain, and La Crosse, western Wisconsin, and Houghton, northern Michigan, accumulated more than a half-inch. Hail peppered parts of Missouri, Louisiana, and Mississippi.

One-half to 1 inch of rain fell over the Pacific Northwest, with light snow edging over the inland's high elevations.

In the early morning, Bristol, eastern Tennessee, measured a record low reading of 28°, 1 degree below the 1975 mark.

National Agricultural Summary

March 31 - April 6

HIGHLIGHTS: More snow blanketed the west central Plains stressing livestock in Kansas and Colorado and causing some losses among mature and newborn animals. Rains continued to pour into the Gulf Coast States slowing fieldwork to a crawl. Soil moisture rated adequate to mostly surplus throughout the Nation except short on the northern Great Plains. Farmers had only 1 to 3 days suitable for fieldwork because of wet soils. Plowing appeared to be on schedule except in the south central States; however, this was because most of the plowing already accomplished was done last fall. Winter wheat rated fair to good; greening was observed as far north as Montana. Spring small grain seeding became widespread although late. Cotton planting was on schedule in the Southwest and finally began in the Southeast. Corn planting advanced actively across the South but lagged the progress of recent years. Pastures rated fair to good, but most acreage was too wet to graze. Fuel supplies generally rated adequate throughout the Nation. LP gas stood at 4% tight, 94% adequate, and 3% surplus. Diesel fuel scored 7% tight, 91% adequate, and 2% surplus. Gasoline rated 6% tight, 92% adequate, and 2% surplus.

SMALL GRAINS: Winter wheat rated fair to good throughout the Nation. Most areas reported only minor to no winterkill or wind damage. Some Pacific Northwest winter wheat growers reseeded some acreage. Low temperatures throughout the West slowed growth and greening; however, winter wheat as far north as Montana broke dormancy. Early wheat fields headed in the Southwest. Further east, southern wheat fields reached the jointing stage. Low temperatures and snow slowed development of winter wheat from Oklahoma northward into Kansas and Colorado.

Oats seeding became widespread throughout the north central States ranging from 1% in Indiana and South Dakota to 5% in Iowa and Nebraska and 45% in Kansas. These figures generally were on a par with last year but well behind the average. Barley seeding ranged from 1% in South Dakota to 13% in Idaho and 30% in Kansas. Spring wheat seeding stood at 2% in South Dakota and 22% in Idaho.

OTHER CROPS: Cotton planting finally began in the wet Southeast. Georgia growers attained 5% complete, short of last year's 18% and the 11% average. Alabama growers just got started, while on the average, 4% of the acreage usually was planted. Wet soils slowed Arkansas land preparations. Oklahoma cotton producers prepared 45% of the acreage surpassing last year's 35% and the 10% average. Texas cotton seeding reached 11%, equaling last year and the average. Low temperatures slowed Arizona cotton planting which stood at 25%, 2 points below last year. California cotton planting advanced actively to 17%, equaling last year.

Corn planting advanced across the South but did not reach into the major north central States. Wet soils slowed progress in most areas. Only Texas corn planting exceeded last year and the average. Progress in other States fell well behind recent years. Georgia producers planted 28% of the acreage, compared with 73% last year and the 54% average. South Carolina progress stood at 6%, hardly a tenth of 1979's 56% and well behind the 50% average.

Among the major producing States, only Texas reported grain sorghum planting. At 68%, Texas planting was well ahead of 1979's 35% and the 45% average. Oklahoma seedbed preparation stood at 35% complete, surpassing last year's 30% and the 20% average. Rice seeding remained confined to the Texas and Louisiana Gulf Coast. Arkansas and California producers prepared land but had not seeded any rice.

FRUITS & NUTS: Deciduous fruit growers continued pruning late-blooming trees and applied sprays throughout all major production areas. Deciduous fruit buds swelled as far north as New Jersey. Virginia orchard bloom was delayed by cool temperatures. Apricots bloomed in Oregon and Idaho. Peaches bloomed in Oregon and the middle Atlantic States. Early pears and apples bloomed in the Pacific Northwest. California apples, cherries, and walnuts also bloomed. Texas pecan buds swelled with some trees leafing out in southern areas.

Florida citrus trees rated excellent with adequate soil moisture. Bloom for the 1980 crop was complete. The Florida Valencia harvest increased; the grapefruit harvest continued active. Texas growers harvested Valencias as citrus bloom neared its end. Arizona grapefruit picking held steady, although supplies were limited; the Valencia harvest gained momentum nearing peak volume. California grapefruit movement was slow. A heavy lemon pick moved from southern California. The Navel harvest continued in central areas, while the Valencia harvest advanced statewide.

VEGETABLES: Wet, cool conditions delayed vegetable planting along the Atlantic Coast States. South Carolina producers planted significant acreages of tomatoes, cucumbers, snap beans, and watermelons, but progress lagged recent years. Most activity centered in California, Arizona, Texas, and Florida. California growers harvested asparagus, broccoli, celery, lettuce, and strawberries. Arizona lettuce moved from central areas as the western harvest tapered off. Texas growers harvested cabbage, carrots, and onions. Planted crops grew well as seeding of additional acreage continued actively throughout the State. Florida vegetable shipments declined 2% from the previous week. Squash supplies increased considerably but cauliflower, lettuce, okra, peppers, and tomatoes all showed declines. Overall vegetable conditions ranged from fair to very good.

PASTURES & LIVESTOCK: Pastures generally rated fair to good with a few western pastures rating excellent. Grasslands showed seasonal improvement in all areas, although wet soils tended to curb grazing. Only the northern Great Plains reported low soil moisture. Subnormal temperatures slowed growth in many western areas. Cattle generally rated fair to mostly good with the exception of stress induced by snows in the west central Plains.

Weather Data for the Week Ending April 6, 1980

States and Stations	Temperature °F						Precipitation					Relative Humidity, percent		Number of Days			
														Temperature °F		Precipitation	
	Average maximum	Average minimum	Extreme high	Extreme low	Average	Departure from normal	Weekly total, in.	Departure from normal	Greatest in 24-hour, in.	Total, in., since March 3	Pct. normal since March 3	Average maximum	Average minimum	90 and above	32 and below	.01 inch or more	.50 inch or more
ALA.Birmingham. . .	69	45	75	36	57	- 3	.2	- 1.0	.1	14.9	219	84	35	0	0	2	0
Mobile.	71	53	75	47	62	- 3	2.6	1.1	2.3	14.5	181	86	54	0	0	4	1
Montgomery. . . .	71	50	77	43	60	- 2	.1	- 1.1	.1	10.0	149	90	48	0	0	2	0
ALASKA.Anchorage. .	47	32	50	29	39	9	T	- .1	T	.3	60	85	52	0	6	2	0
Barrow.	-4	-12	1	-20	-9	- 1	T	- .1	T	0	0	68	67	0	5	1	0
Fairbanks	45	26	50	17	35	15	0	- .1	0	.2	40	61	40	0	6	0	0
Kodiak.	44	37	47	35	39	5	2.7	1.9	1.2	4.0	93	87	68	0	0	5	1
Nome.	37	27	42	15	31	18	.2	0	.1	1.0	111	70	64	0	6	3	0
ARIZ.Flagstaff. . .	46	18	56	6	32	- 7	1.0	.6	.5	5.0	250	86	40	0	7	3	1
Phoenix	74	48	81	41	61	- 3	.1	0	.1	1.0	143	60	21	0	0	1	0
Tucson.	73	45	80	40	59	- 3	T	- .1	T	1.2	240	52	13	0	0	0	0
Winslow	59	29	70	18	44	- 6	.3	.2	.3	.8	160	--	--	0	5	2	0
Yuma.	78	51	85	44	65	- 3	0	- .1	0	.5	125	42	18	0	0	0	0
ARK.Fort Smith. . .	71	44	81	35	57	- 1	.3	- .7	.3	3.4	79	81	35	0	0	1	0
Little Rock . . .	70	47	76	41	58	- 1	.1	- 1.1	.1	4.7	84	72	32	0	0	1	0
CALIF.Bakersfield .	67	45	79	42	56	- 4	.1	- .1	.1	1.4	156	--	39	0	0	1	0
Eureka.	55	44	58	36	49	0	.7	- .2	.3	6.7	126	88	61	0	0	5	0
Fresno.	67	44	71	39	55	- 2	.3	- .1	.2	2.1	105	74	30	0	0	3	0
Los Angeles . . .	63	51	67	49	57	- 3	T	- .4	T	2.2	92	81	56	0	0	0	0
Red Bluff	63	46	68	40	54	- 2	.7	.2	.7	2.6	93	72	38	0	0	4	1
San Diego.	67	53	70	48	60	0	.2	- .1	.1	2.7	150	69	54	0	0	3	0
San Francisco . .	60	46	62	40	53	- 1	.7	.2	.4	2.9	104	72	55	0	0	2	0
Stockton.	66	46	70	40	56	0	.7	.3	.4	1.6	76	--	30	0	0	2	0
COLO.Denver	46	29	59	23	37	- 6	.4	0	.2	1.4	93	74	50	0	5	3	0
Grand Junction. .	53	30	64	16	41	- 6	T	- .2	T	1.9	238	73	32	0	4	1	0
Pueblo.	48	26	69	20	37	-10	.8	.6	.4	1.5	214	--	57	0	6	3	0
CONN.Bridgeport . .	51	38	56	34	44	0	2.0	1.2	1.3	8.3	208	66	45	0	0	2	2
Hartford.	53	34	63	30	44	0	.8	- .1	.7	6.7	156	78	46	0	3	2	1
D.C.Washington. . .	65	46	75	40	55	3	.8	.1	.4	5.0	132	84	43	0	0	2	0
FLA.Apalachicola. .	71	55	76	47	63	- 2	2.5	1.5	1.9	5.8	107	72	62	0	0	3	2
Daytona Beach . .	78	60	86	57	69	2	2.2	1.5	1.5	4.2	111	81	53	0	0	3	2
Ft. Myers	81	67	88	59	75	4	T	- .6	T	.1	3	92	55	0	0	0	0
Jacksonville. . .	77	56	85	45	67	1	1.0	.2	.7	7.7	193	86	54	0	0	3	1
Key West.	85	77	87	75	81	4	T	- .5	T	0	0	89	69	0	0	0	0
Miami	85	73	89	72	79	5	2.9	2.2	2.3	2.9	116	93	64	0	0	3	1
Orlando	80	59	89	52	69	0	2.7	2.0	1.9	3.2	82	84	42	0	0	3	2
Tallahassee . . .	74	52	79	39	63	- 2	2.6	1.5	1.8	13.2	206	81	48	0	0	2	2
Tampa	77	61	84	52	69	- 1	.6	- .1	.4	2.5	60	87	62	0	0	2	0
W.Palm Beach. . .	83	67	90	62	75	2	1.1	.3	.6	1.1	28	84	59	1	0	3	1
GA.Atlanta.	72	46	77	40	59	2	.1	- 1.1	.1	11.4	178	82	38	0	0	1	0
Augusta	72	46	82	35	59	- 1	.5	- .4	.5	12.2	235	81	43	0	0	1	1
Macon	73	50	80	40	62	- 1	.4	- .6	.4	12.1	212	88	42	0	0	1	0
Savannah.	73	55	79	44	64	1	1.1	.3	.9	8.8	183	81	48	0	0	3	1
HAWAII.Hilo	--	--	--	--	75	3	3.1	0	--	50.0	325	--	--	0	0	1	0
Honolulu.	82	70	85	65	76	2	.1	- .4	.1	3.1	89	87	58	0	0	1	0
Kahului	--	--	--	--	--	-	--	--	--	--	--	--	--	-	-	-	-
Lihue	--	--	--	--	74	2	.6	- .3	--	3.3	63	--	--	0	0	0	0
IDAHO.Boise	53	32	62	25	43	- 3	.2	0	.1	2.4	218	81	36	0	3	3	0
Lewiston.	57	37	62	30	47	0	.2	0	.1	1.5	150	79	40	0	1	2	0
Pocatello	47	28	57	22	38	- 4	.2	0	.2	1.6	160	85	47	0	6	2	0
ILL.Cairo	64	48	74	44	56	1	.2	- .8	.2	4.7	89	--	--	0	0	1	0
Chicago	56	36	66	30	46	2	.6	- .2	.3	2.4	73	85	47	0	1	6	0
Moline.	58	36	64	28	47	2	.5	- .3	.4	2.2	71	83	42	0	2	4	0
Peoria.	57	37	67	31	47	1	.5	- .4	.3	3.3	94	85	47	0	2	4	0
Rockford.	57	35	62	30	46	3	.7	- .1	.4	1.6	48	81	46	0	1	5	0
Springfield . . .	58	39	67	33	48	0	.3	- .6	.3	4.6	131	88	55	0	0	3	0
IND.Evansville. . .	60	38	71	32	49	- 4	.1	- .9	.1	4.1	77	83	54	0	1	3	0
Ft. Wayne	50	36	59	30	43	- 2	.7	- .1	.6	4.9	144	84	50	0	1	1	1
Indianapolis. . .	55	38	66	33	46	- 1	.3	- .6	.2	4.5	105	82	59	0	0	2	1
South Bend. . . .	53	39	67	34	46	2	.6	- .3	.4	4.3	123	91	69	0	0	4	0
IOWA.Burlington . .	57	38	65	33	48	2	.4	- .4	.4	3.2	97	--	--	0	0	1	0
Des Moines. . . .	56	38	70	32	47	3	.4	- .2	.2	1.5	56	73	50	0	1	4	0
Dubuque	53	35	57	31	44	2	.9	0	.3	2.1	60	85	44	0	2	4	0
Sioux City. . . .	55	34	74	29	45	1	1.3	.9	1.0	2.3	128	84	53	0	3	3	1
KANS.Concordia. . .	56	36	72	30	46	- 1	1.2	.8	.9	4.4	232	78	54	0	2	3	1
Dodge City. . . .	56	34	74	30	45	- 4	.4	.1	.3	3.1	221	90	51	0	4	2	0
Goodland.	40	28	51	22	34	-10	1.2	.9	.5	3.6	327	94	72	0	7	3	1
Topeka.	59	39	69	35	49	- 1	.3	0	.7	4.9	181	82	48	0	0	3	1
Wichita	58	38	71	32	48	- 4	.7	.1	.6	4.7	214	78	54	0	1	1	1
KY.Lexington. . . .	62	40	74	32	51	0	.4	- .6	.3	6.3	117	73	47	0	1	2	0
Louisville. . . .	62	39	76	32	51	- 1	.1	- 1.0	.1	4.6	81	82	46	0	1	2	0

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending April 6, 1980

States and Stations	Temperature °F						Precipitation					Relative Humidity, percent		Number of Days			
														Temperature °F		Precipitation	
	Average maximum	Average minimum	Extreme high	Extreme low	Average	Departure from normal	Weekly total, in.	Departure from normal	Greatest in 24-hours, in.	Total, in., since March 3	Pct. normal since March 3	Average maximum	Average minimum	90 and above	32 and below	.01 inch or more	.50 inch or more
LA.Baton Rouge	74	54	82	46	65	0	4.2	3.0	4.0	12.4	214	82	51	0	0	3	2
Lake Charles	73	56	82	47	64	- 1	.5	- .4	.5	9.1	217	85	61	0	0	2	0
New Orleans	74	57	80	47	65	0	5.6	4.5	4.8	15.2	249	80	55	0	0	2	2
Shreveport	75	50	80	40	62	- 1	T	- 1.1	T	3.3	69	85	41	0	0	1	0
MAINE.Caribou	45	30	53	26	37	6	.2	- .3	.2	3.5	140	65	35	0	3	1	0
Portland	51	29	58	24	40	1	.6	- .2	.6	5.2	130	80	41	0	5	1	1
MD.Baltimore	63	40	73	35	51	2	1.3	.5	.9	5.3	133	79	39	0	0	3	2
MASS.Boston	51	37	63	33	44	- 1	.9	.1	.8	6.2	141	76	55	0	0	2	1
Chatham	47	37	52	36	42	--	1.4	--	.5	6.7	152	83	69	0	0	2	1
MICH.Alpena	48	27	56	19	37	2	.8	.3	.5	2.0	91	--	--	0	7	3	1
Detroit	49	35	59	29	42	- 1	1.4	.7	1.1	5.0	172	93	64	0	2	4	1
Flint	48	33	60	30	41	- 1	1.2	.6	.8	3.0	115	84	59	0	2	3	1
Grand Rapids	51	34	65	30	43	1	1.1	.4	.7	2.5	83	90	64	0	3	4	1
Houghton Lake	49	27	59	22	38	2	.3	- .2	.3	1.4	67	80	45	0	6	2	0
Lansing	49	31	62	30	40	- 2	1.1	.5	.6	2.7	96	91	59	0	3	6	1
Marquette	45	24	52	19	35	- 1	.3	- .3	.3	.9	89	87	43	0	7	1	0
Muskegon	50	34	63	29	42	2	1.1	.4	.8	1.9	66	87	54	0	1	5	1
S. Ste. Marie	48	25	54	22	37	3	.1	- .4	.1	1.3	62	85	45	0	7	1	0
MINN.Duluth	46	26	57	18	36	3	T	- .5	T	1.1	52	68	44	0	5	1	0
Internatl. Falls	51	26	57	20	38	6	0	- .3	0	.9	69	68	33	0	6	0	0
Minneapolis	56	32	64	27	44	5	.1	- .3	.1	1.2	63	65	33	0	4	2	0
Rochester	52	31	59	27	42	3	.6	.1	.5	1.4	67	78	54	0	5	2	0
St. Cloud	55	29	66	24	42	6	T	- .4	T	.8	50	76	--	0	6	0	0
MISS.Jackson	72	47	79	39	60	- 3	.2	- 1.9	.1	13.4	213	84	47	0	2	0	0
Meridian	72	47	79	39	60	- 3	.4	- .9	.2	14.2	206	89	45	0	3	0	0
MO.Columbia	60	38	66	35	49	- 1	.2	- .6	.2	2.9	91	83	48	0	2	0	0
Kansas City	57	40	66	35	49	- 1	.8	0	.6	4.4	138	74	46	0	3	1	0
St. Louis	63	42	71	35	52	1	.1	- .8	.1	4.0	108	83	43	0	0	1	0
Springfield	65	39	76	32	52	0	.2	- .7	.2	4.1	114	85	36	0	1	2	0
MONT.Billings	49	33	63	31	41	1	.3	0	.3	1.7	142	75	45	0	5	2	0
Glasgow	52	32	65	26	42	6	.3	.2	.1	.5	100	87	52	0	2	3	0
Great Falls	46	32	61	27	39	0	.6	.4	.2	1.0	100	73	51	0	4	3	0
Havre	53	28	62	23	41	4	.5	.3	.2	.9	150	92	54	0	4	4	0
Helena	46	27	60	23	37	- 2	.4	.2	.1	1.2	171	83	49	0	7	3	0
Kalispell	50	27	57	22	39	1	.1	- .1	.1	.9	90	81	40	0	6	1	0
Miles City	51	32	67	28	41	2	.2	0	.1	.5	71	82	52	0	4	2	0
Missoula	50	28	61	22	39	- 1	.2	0	.1	1.2	150	89	47	0	7	4	0
NEBR.Grand Island	54	33	75	29	44	0	1.6	1.1	.9	3.8	238	87	54	0	3	3	2
Lincoln	56	37	71	30	48	3	1.2	.7	1.0	33.1	163	85	53	0	2	3	1
Norfolk	55	34	76	28	44	2	1.1	.7	.6	2.1	124	88	52	0	4	3	1
N.Platte	45	31	62	25	38	- 5	.8	.4	.4	3.4	262	78	56	0	5	3	0
Omaha	54	37	69	31	46	2	1.1	.6	0	2.6	130	91	53	0	2	3	0
Valentine	48	26	58	18	38	- 4	.2	- .1	.2	1.7	189	90	79	0	4	2	0
NEV.Ely	48	24	55	15	36	- 2	.1	- .1	.1	1.8	180	74	30	0	7	3	0
Las Vegas	67	45	77	38	56	- 4	T	- .1	T	.9	180	49	23	0	0	0	0
Reno	53	31	59	19	42	- 2	.4	.3	.2	.9	150	70	33	0	3	4	0
Winnemucca	54	28	62	14	41	- 1	.1	0	.1	.4	67	77	31	0	4	1	0
N.H.Concord	51	24	58	17	37	- 3	.7	.1	.6	4.2	140	94	41	0	7	2	1
N.J.Atlantic City	57	36	65	30	47	- 1	1.9	1.0	1.1	7.3	149	79	47	0	2	2	2
Trenton	59	39	65	33	49	1	2.2	1.4	1.2	8.2	195	--	--	0	3	2	2
N.MEX.Albuquerque	65	31	75	19	48	- 4	.1	0	.1	.6	120	65	17	0	3	1	0
Roswell	74	41	82	34	57	2	0	- .1	0	0	0	--	--	0	3	0	0
N.Y.Albany	52	34	60	28	43	1	.6	0	.5	5.1	170	81	43	0	2	2	1
Binghamton	51	34	57	31	42	2	.9	.2	.6	6.3	197	80	43	0	3	3	1
Buffalo	50	33	59	27	42	1	1.0	.3	.6	4.5	141	92	53	0	2	3	1
New York	56	43	63	38	50	2	2.1	1.2	1.5	9.4	209	61	45	0	0	2	2
Rochester	53	35	58	30	44	2	.6	0	.3	4.1	137	85	46	0	2	4	0
Syracuse	55	33	62	26	44	2	.6	- .1	.4	4.8	137	86	39	0	3	4	0
N.C.Asheville	66	40	72	31	53	1	T	- .9	T	8.1	156	86	42	0	1	0	0
Charlotte	68	46	78	40	57	0	.2	- .7	.1	8.2	161	82	38	0	0	2	0
Greensboro	69	43	77	33	56	2	T	- .8	T	4.6	115	86	34	0	0	2	0
Hatteras	64	47	71	37	56	0	T	- .8	T	6.8	162	72	60	0	0	1	0
Raleigh	73	45	84	34	59	3	T	- .8	T	4.5	113	70	37	0	0	1	0
Wilmington	69	48	75	37	58	- 2	.1	- .7	.1	4.8	107	81	42	0	0	1	0
N.DAK.Bismarck	56	28	69	20	42	6	T	- .3	T	.3	33	79	29	0	6	0	0
Fargo	55	30	63	26	42	6	0	- .4	0	.6	55	82	46	0	6	0	0
Williston	55	28	67	22	42	6	T	- .3	T	.1	13	83	37	0	5	0	0
OHIO.Akron-Canton	55	37	61	32	46	2	.6	- .2	.5	5.3	143	83	49	0	1	3	0
Cincinnati	59	37	69	31	48	- 2	.1	- .8	.1	6.0	130	92	56	0	2	2	0
Cleveland	54	35	64	29	44	0	.9	.1	.9	4.6	128	90	37	0	2	2	1
Columbus	58	38	65	33	48	1	.2	- .6	.1	4.0	103	78	47	0	0	2	0
Dayton	56	37	63	32	46	- 1	1.8	1.0	1.7	6.0	158	84	56	0	1	2	1
Toledo	50	35	61	32	43	- 1	.7	.1	.5	4.4	152	95	61	0	3	4	1
Youngstown	52	34	61	26	43	0	1.3	.5	.7	5.9	155	87	55	0	3	3	1

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending April 6, 1980

States and Stations	Temperature °F						Precipitation					Relative Humidity, percent		Number of Days			
	Average maximum	Average minimum	Extreme high	Extreme low	Average	Departure from normal	Weekly total, in.	Departure from normal	Greatest in 24-hours, in.	Total, in., since March 3	Pct. normal since March 3	Average maximum	Average minimum	Temperature °F: 90 and above	Temperature °F: 32 and below	Precipitation: .01 inch or more	Precipitation: .50 inch or more
OKLA.Okla. City	67	39	82	28	53	- 3	T	- .6	T	1.4	56	72	31	0	1	1	0
Tulsa	71	45	79	38	58	2	.5	- .3	.5	4.1	132	75	38	0	0	1	1
OREG.Astoria	55	37	62	30	46	0	1.8	.5	1.0	7.8	110	94	62	0	2	4	1
Burns	49	26	55	18	37	- 4	.4	.3	.2	1.0	111	86	38	0	3	3	0
Medford	55	33	60	26	44	- 4	.6	.3	.4	1.8	100	85	46	0	3	4	0
Pendleton	55	35	63	27	45	- 3	T	- .2	T	1.6	145	82	44	0	4	0	0
Portland	58	38	67	31	48	- 1	1.1	.5	.5	4.0	103	81	55	0	1	5	0
Salem	55	33	62	27	44	- 4	1.7	1.0	.9	4.9	107	94	56	0	3	4	1
PA.Allentown	58	38	66	33	48	3	1.8	- .8	1.2	6.5	163	79	37	0	0	2	2
Erie	48	33	56	29	40	0	1.2	.4	.7	4.7	142	--	--	0	3	4	1
Harrisburg	60	38	69	32	49	1	.5	- .2	.4	5.5	149	79	37	0	1	2	0
Philadelphia	60	39	67	35	49	1	2.5	1.7	1.6	7.7	188	77	40	0	0	3	2
Pittsburgh	56	36	64	33	46	0	.9	.1	.6	5.8	145	89	50	0	0	4	1
Scranton	55	37	62	27	46	2	.6	0	.3	4.0	138	72	38	0	1	3	0
R.I.Providence	54	37	62	33	45	2	1.1	.2	1.0	9.1	202	71	47	0	0	2	1
S.C.Charleston	71	51	78	38	61	- 1	.9	.1	.5	8.7	171	76	52	0	0	2	1
Columbia	70	44	81	32	57	- 3	.2	- .7	.2	9.9	190	62	41	0	1	1	0
Greenville	68	44	75	37	56	- 1	.1	- 1.1	.1	11.1	182	83	39	0	0	1	0
S.DAK.Aberdeen	60	32	70	28	46	8	0	- .4	0	1.0	83	80	34	0	3	0	0
Huron	59	28	73	23	44	4	T	- .4	T	.9	69	87	29	0	6	0	0
Rapid City	50	30	68	25	40	1	.4	0	.2	1.1	92	85	47	0	6	5	0
Sioux Falls	56	30	74	23	43	3	.5	.1	.5	1.2	71	90	47	0	5	1	0
TENN.Chattanooga	68	42	73	33	55	- 2	.1	- 1.1	.1	16.0	254	85	37	0	0	1	0
Knoxville	68	44	78	36	56	- 1	.2	- .7	.1	8.7	164	82	39	0	0	2	0
Memphis	69	46	81	40	58	- 1	T	- 1.3	T	10.6	180	76	37	0	0	0	0
Nashville	66	41	77	29	54	- 2	.1	- .9	.1	7.0	125	80	43	0	1	1	0
TEX.Abilene	77	49	88	41	63	2	T	- .4	T	.7	54	65	20	0	0	0	0
Amarillo	60	33	77	26	47	- 6	.2	0	.2	1.7	213	67	31	0	3	1	0
Austin	78	58	84	52	68	3	.1	- .5	.1	3.3	138	74	44	0	0	2	0
Beaumont	76	57	85	49	67	2	.1	- .7	T	6.5	186	82	50	0	0	2	0
Brownsville	82	64	89	54	73	0	0	- .2	0	.1	14	87	60	0	0	0	0
Corpus Christi	82	63	89	56	73	3	.3	- .1	.3	.6	43	87	59	0	0	2	0
Del Rio	86	60	95	52	73	5	0	- .3	0	.3	33	59	21	2	0	0	0
El Paso	77	40	81	29	58	- 2	0	- .1	0	.2	40	30	11	0	1	0	0
Fort Worth	72	49	75	39	60	- 1	T	- .8	T	1.3	42	86	47	0	0	0	0
Galveston	71	62	80	59	66	0	T	- .6	T	3.8	127	76	66	0	0	3	0
Houston	76	57	87	48	66	0	.2	- .5	.1	5.1	159	87	47	0	0	2	0
Lubbock	73	39	81	33	56	0	T	- .1	T	.2	22	59	18	0	0	1	0
Midland	76	42	83	33	59	- 2	0	- .1	0	0	0	55	15	0	0	0	0
San Angelo	78	50	88	41	64	1	T	- .3	T	.7	64	65	22	0	0	0	0
San Antonio	79	57	86	47	68	2	.2	- .3	.1	1.1	58	75	41	0	0	3	0
Victoria	79	59	84	53	69	1	.1	- .4	T	1.9	90	70	57	0	0	2	0
Waco	74	51	78	44	62	- 1	T	- .8	T	2.2	76	86	50	0	0	0	0
Wichita Falls	76	44	90	35	60	1	.3	- .3	.3	1.1	50	70	24	1	0	1	0
UTAH.Blanding	50	25	60	15	37	- 6	.5	- .3	.5	1.9	190	78	35	0	6	1	1
Salt Lake City	53	35	62	24	44	- 1	.2	- .3	.1	2.7	135	68	35	0	2	2	0
VT.Burlington	50	30	56	26	40	2	.7	.1	.6	3.1	135	83	46	0	5	2	1
VA.Lynchburg	66	42	76	32	54	2	.7	0	.5	4.9	126	86	--	0	1	2	1
Norfolk	64	44	79	35	54	0	.3	- .3	.3	3.5	95	79	46	0	1	1	0
Richmond	69	44	80	37	56	3	.5	- .2	.3	4.9	129	77	40	0	0	2	0
Roanoke	65	44	73	33	54	2	.6	- .1	.5	5.1	134	92	35	0	0	3	0
WASH.Colville	56	30	60	27	43	0	.2	0	.2	2.2	180	--	--	0	6	2	0
Omak	56	40	62	29	44	- 1	.3	.1	.3	1.0	111	41	38	0	4	2	0
Quillayute	55	34	61	28	45	1	1.5	- .7	.6	11.6	97	95	57	0	3	4	1
Seattle-Tacoma	55	39	60	35	47	1	.8	.1	.4	2.7	69	84	45	0	0	3	0
Spokane	53	33	59	27	43	0	.2	- .1	.1	1.1	61	86	47	0	2	2	0
Walla Walla	58	41	64	36	50	0	T	- .3	T	1.9	119	75	44	0	0	1	0
Yakima	59	34	65	29	47	0	.2	.1	.1	.6	120	81	33	0	4	2	0
W.VA.Beckley	61	37	72	30	49	1	.8	0	.4	3.6	77	85	39	0	2	4	0
Charleston	65	39	80	31	52	0	.7	- .1	.3	5.5	125	85	37	0	1	3	0
Huntington	63	39	78	31	51	- 1	.6	- .2	.4	4.9	107	81	41	0	1	3	0
Parkersburg	61	39	75	34	50	0	.3	- .5	.2	4.8	114	86	43	0	0	2	0
WISC.Green Bay	52	31	60	28	41	3	.3	- .2	.3	1.3	62	85	47	0	5	3	0
La Crosse	55	33	63	30	44	2	1.3	.7	.7	2.0	83	83	46	0	4	3	0
Madison	55	30	63	22	43	3	.7	.1	.6	1.4	58	85	42	0	5	2	2
Milwaukee	51	35	64	28	43	3	1.1	.5	.5	1.8	67	84	45	0	2	6	1
WYO.Casper	42	25	57	21	34	- 4	.3	0	.1	1.4	117	86	57	0	7	4	1
Cheyenne	39	23	53	13	31	- 7	.5	.2	.2	1.7	131	82	56	0	6	4	0
Lander	42	23	51	13	32	- 6	1.2	.7	.8	2.1	131	80	47	0	6	4	1
Sheridan	48	27	65	23	38	0	.4	0	.3	1.4	87	86	47	0	7	2	0
P.R.San Juan	88	72	92	71	80	3	0	- .5	0	1.5	65	91	53	1	0	0	0

Based on preliminary reports and 1941-70 normals

State Summaries of Weather and Agriculture

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

ALABAMA: Temperatures 1° subnormal. Rainfall varied; none some northern areas, 3.00 in. Geneva.
Fieldwork: 0.6 day suitable. Soil moisture surplus. Corn 12% planted, 33% 1979, 16% average. Cotton planting starting, 4% average. Wheat 7% headed, 5% 1979. Pastures fair; wheat fair to good.

ARIZONA: Unseasonably cool temperatures. Two strong cold fronts brought rain during 1st 3 days of week. Temperatures averaged 2 to 7° below normal.
Small grains continue making good progress. Small grains 50 to 60% headed. Green color fading west. Upland cotton 25% planted, last year 27%. Cold weather slowing planting. Good progress continued sugarbeets, safflower. Alfalfa haying continued. 1st cutting approaching 100%. 2d cutting complete Yuma area. Lettuce harvest full swing central, tapering off west. Harvest mixed vegetables seasonal progress. Cantaloups, watermelons good growth, especially west. Deciduous fruit trees, grapes lush new growth, trees, vines good condition. Citrus harvest active. Grapefruit picking steady, limited; Valencia orange harvest gaining momentum nearing full volume. LP gas, diesel, gasoline supplies adequate. Northern range conditions mostly good. Water supplies adequate but cold weather slowed annual grass growth. Southern ranges mostly fair condition with short to adequate water supplies. Cattle fair condition south, good condition north.

ARKANSAS: Temperatures east below normal, west near normal. Rainfall light.
Wet fields limited land preparation. Fieldwork: 3 days available. Soil moisture surplus. Diesel, gasoline and LP gas 19% surplus, 81% adequate. Soybeans land preparation limited by wet fields. Fertilizer and herbicides applied as weather permitted. Rice fields prepared for planting. Cotton field preparation limited by wet conditions. Few planted fields of sorghum up. No corn planted. Wheat fair, jointing. Oats fair, showing good growth. Winterkill slight. Peaches blooming. Pruning apples and grapes. Pastures in average condition. Cattle in good condition.

CALIFORNIA: Average temperatures below normal. Precipitation light and general missing only most of desert area. Considerable cloud cover kept overnight minimum temperatures above freezing in main agricultural areas. Greatest temperature departure was in southeast interior.
Preplant activities increased rapidly as soils dried. Small grains good progress; early plantings heading. Some grain hay cut. Oats, winter forage and alfalfa being green chopped. Irrigating small grains. Winds dried Sacramento Valley rice fields; planting preparations active. Alfalfa harvest becoming general. Cotton planting becoming active; 17% seeded, same as last year. Sugarbeet harvest, planting active, weed control, irrigating, spraying. Very light avocado harvest. Apples, cherries, walnuts blooming. Grapes leafing out. Grapefruit movement slow; good quality, color. Heavy lemon pick south. Navel orange harvest continued central, excellent quality. Valencia harvesting statewide, good quality, large sizes. Artichoke harvest past peak central coast. Asparagus cutting all areas; some fields going to fern desert. Cool weather slowing broccoli growth central coast but supplies steady. Celery harvest complete San Diego; Orange, Ventura Counties hitting production gaps. Lettuce harvest complete desert, near peak San Joaquin Valley. Potato harvest near end Riverside, digging to start Kern County next week. Strawberry volume increasing south coast. Light shipments Santa Maria, picking started Salinas. Transplanting sweetpotatoes Merced County. Range, pasture conditions continue excellent. Warmer temperatures needed for growth. Soil moisture reduced by wind southern areas. Movement bees into citrus, other fruit orchards active. Fuels generally adequate.

COLORADO: Continued cold and wet. Heavy snow with blizzard conditions across mountains and eastern plains through midweek. Widely scattered showers balance of week. Temperatures averaged 6 to 12° below normal.
Winter wheat very good condition, wind damage light; 9% pastured. Oats 6% seeded, 4% 1979, 23% average. Spring wheat 6% seeded. Barley 9% seeded, 11% 1979, 20% average. Sugarbeets 1% seeded, 1% 1979, 16% average. All livestock under stress from storms; some locally heavy losses of newborn animals. Ranges and pastures good condition. Fieldwork: 0.5 day suitable. All fuel supplies adequate.

FLORIDA: Rains fell every day over some part of State. Frontal systems moving south stalled and moved back north over surges of warm tropical air. Saturated Panhandle and north soils dried some at early week but rains returned by midweek, gradually ending on 4th. Rains more variable central and south, occurring almost every day. Little or no rain southwest but up to 3.00 in. fell in areas along lower east coast. Amounts of 1.00 in. common central areas with up to 2.00 in. some localities. Clear skies, dry air returned at weekend but skies clouded again on 5th. Temperatures averaging above normal by 8 to 9° south and 3 to 6° elsewhere. Much above normal rainfall continued Panhandle, north. Central, southeast sections also had more rain than usual. Southwest dry.
Soil moisture mostly adequate south and excessive west. Corn, tobacco planting progress slow. Planting peanuts, early soybeans about to begin. Small grains good condition. Sugarcane harvest virtually complete. Young cane good condition. Fuel supplies mostly adequate. Pasture responding to warmer weather. Supplemental feeding decreased. Pastures good to excellent Panhandle, south; poor to fair elsewhere. Cattle fair condition. Citrus tree condition excellent, adequate moisture all areas, bloom complete. Valencia orange harvest increasing. Grapefruit harvest continued active. Overall vegetable crop condition fair to very good. Harvest, other fieldwork very active. Quality, size, yields good to very good but variable some crops. Plants making very good growth as weather ideal. Overall vegetable shipments down 2%. Supplies squash increased considerably; snap beans, carrots, chinese cabbage, cucumbers, eggplant, potatoes, radishes also increased. Cabbage, celery, sweet corn, escarole, parsley, strawberries held steady but cauliflower, lettuce, okra, peppers, tomatoes decreased. Potato digging steady; light harvest spring crop underway. Strawberry picking

continued. Very light watermelon harvest expected this week from southwest area.

GEORGIA: Heavy rains; as much as 3.00 to 11.74 in. Temperatures generally above normal averaging mid-50's mountains to mid-60's south.

Soil moisture surplus. Fieldwork: 1 day suitable. Wet fields still hindrance to fieldwork. Corn 28% planted, last year 73%, average 54%; poor to mostly fair condition. Tobacco 34% transplanted, last year 74%, average 66%; mostly fair to good condition. Watermelons 31% planted, last year 74%, average 70%; poor to mostly fair condition. Cotton 5% planted, last year 18%, average 11%. Peanuts 2% planted, last year 3%, average 4%. Sorghum 0% planted this year, 4% last year. Small grains fair to mostly good. Pastures improved, condition fair to mostly good. Vegetable planting still delayed, condition poor to fair. LP gas 95% adequate, diesel fuel 95% adequate, gasoline 93% adequate.

HAWAII: Wet weather continued parts Hawaiian Chain but less than previous several weeks. Farm activities still not normal. Wet fields keeping crop progress slow. Diseases, spoilage losses affecting yield, quality of leafy vegetables. Vegetable supplies declined for head cabbage, chinese cabbage and semi-head lettuce production compared to last week. Others generally light to moderate. Banana supplies light. Despite wet weather, papaya disease incidence light. Spraying frequent. Production increase anticipated. Pineapple harvest slow. Sugar harvesting affected Island Maui from wet weather. Other Islands active. Pastures generally fair to good. Fuel supplies adequate.

IDAHO: Cool, cloudy. Below normal temperatures. Precipitation well below normal except Idaho Falls and Pocatello.

Increase in fieldwork. Fieldwork: 3 days suitable. Percent of crops planted: Spring wheat 22%, spring barley 13%, both ahead of 1979 rate, sugarbeets 14%, onions 32%, dry peas 4%, all below 1979 rate. Winter wheat in good condition. Seed potatoes being sorted and shipped. Apricots in bloom. Calving near completion; some herds turned onto ranges. Lambing nearly finished, some flocks being sheared. Fuel supplies adequate.

ILLINOIS: Temperatures normal to 4° above normal. Precipitation 0.20 to 0.70 in.

Soil moisture adequate. Winter wheat good. Oat seeding 3% complete, 5% 1979, 30% average. Alfalfa good. Plowing 1980 corn, soybean acreage 75% complete, 70% 1979, 70% average. Winter freeze damage apples, peaches, mostly light to no damage. Pastures fair to good.

INDIANA: Cloudy, wet. Temperatures averaged near normal and ranged from 30 to 76°. Precipitation 0.50 to 0.80 in. Sunshine 47% of possible. Soil temperatures 2° below normal.

Fieldwork nil. Topsoil moisture surplus. Subsoil moisture adequate to mostly surplus. Spring planted crops 55% plowed, 1979 50%, average 50%. Oats 1% seeded, 1979 1%, average 25%. Wheat fair to good condition; 3 in. high, 1979 3 in., average 4 in. Clover 45% seeded, 1979 45%. Apple buds 70% alive, 1979 65%; peach buds 60%, 1979 60%.

IOWA: Mild with moderate precipitation, falling mostly at midweek partly as wet snow northwest but rain elsewhere.

Oat acreage seeded 5%, last year 1%, normal 24%. Topsoil, subsoil moisture adequate. Plowing 53% complete, last year 50%, normal 56%. Fieldwork: 0.5 day suitable. Livestock in good condition; replacements slow, tight money.

KANSAS: Precipitation 0.50 in. southwest to locally over 3.00 in. elsewhere from heavy snow northwest and west central and rains elsewhere. Temperatures averaged 43° northwest to 51° southeast and south central, 2 to 4° below normal west to near normal to 2° below central and east.

Snowstorms threatened livestock resulting in some deaths northwest. Fields and lots very muddy. Oats seeding 45%, 35% last year, 65% average. Barley 30% complete, 45% last year, 70% average. Wheat condition improved, light wind damage. Soilborne mosaic more evident.

KENTUCKY: Temperatures near normal; little precipitation averaged less than 0.25 in.

Surplus moisture limited fieldwork. Some progress in plowing and tobacco bed seeding. Plowing 38% complete, average 46%. Tobacco beds 40% seeded, average 75%. Beds with plants emerged at 10% behind normal 20%. Pasture and small grains making good growth. Spring work 11 days behind normal. Warm dry weather needed.

LOUISIANA: Rain statewide, flooding southeast where totals were 4.00 to 6.00 in. Temperatures normal to 2° below. Extremes: 39 and 86°.

Fieldwork: 0.8 day suitable. Soil moisture surplus. Spring plowing 43%. Corn planting 27%, 36% 1979, 40% average. Rice planting 26%, 23% 1979, 36% average. Sugarcane good, some flood damage. Strawberries damaged, excessive rain.

MARYLAND & DELAWARE: Temperatures averaged 2° above normal. Highs in low 60's, lows in low 40's. Precipitation averaged 2.00 in. Breezy and mild 5th; fair and warm 6th.

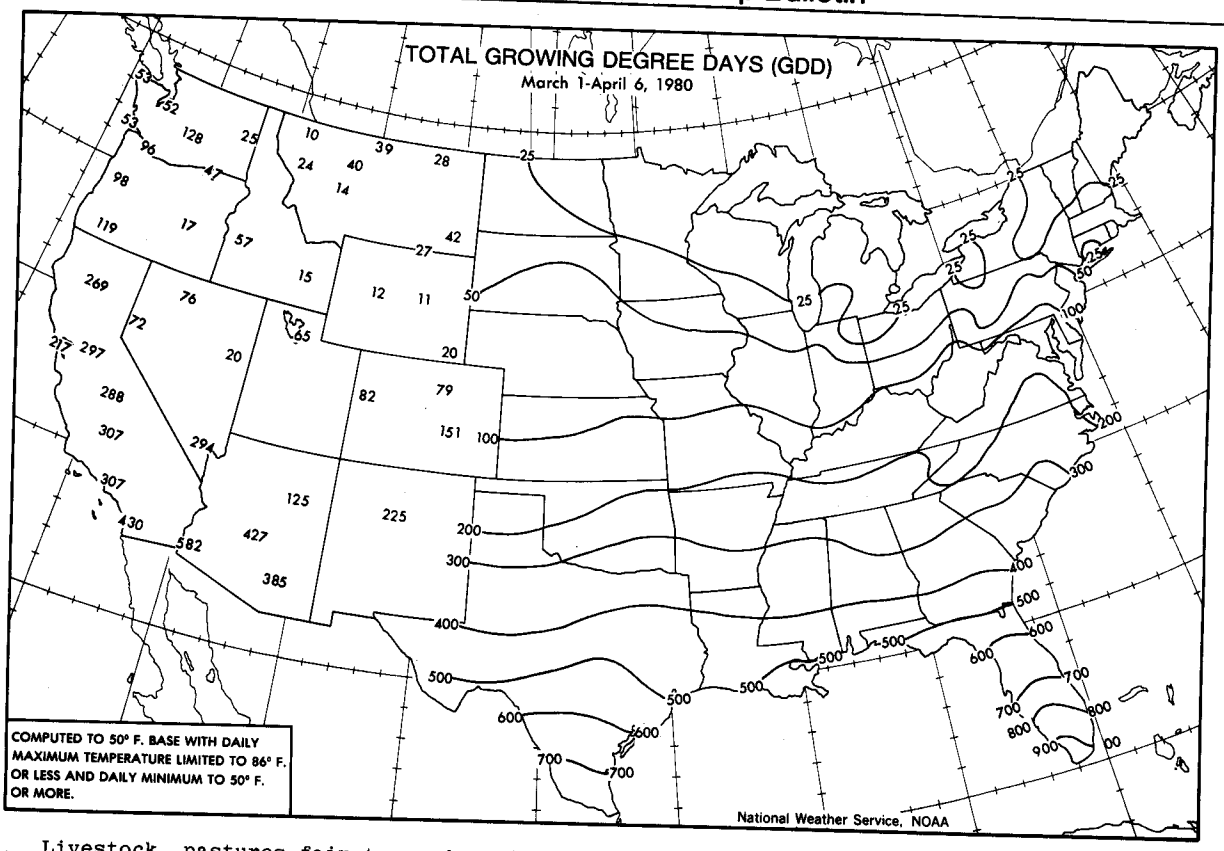
Soil moisture supplies mostly surplus. Spring fieldwork slow due to wet fields. Small grains in good to fair condition. Tobacco growers stripping and preparing for market. Fruit prospects appear good.

MICHIGAN: Temperatures averaged 1 to 4° above normal, with warming trend at end of week. Precipitation light over upper and northern Lower while amounts over southern Lower generally exceeded 1.00 in. Snow disappeared except for spotty amounts in Upper. No weather damage to crops or livestock. Main farm activities: Machinery preparation and livestock feeding.

MINNESOTA: Temperatures averaged 6° above normal north to 3° above normal south. Extremes: 70 and 18°. Precipitation averaged 0.38 in. below normal north and central, and 0.22 in. above normal south central and southeast. Precipitation totals ranged from none most of north and traces most of central to more than 1.00 in. parts of south central and southeast. Snowfall 1 to 9 in. across south; traces or none elsewhere. Snow depth mainly traces north central and northeast; none elsewhere.

MISSISSIPPI: Temperatures below normal. Extremes: 30 and 80°.

Soil moisture mostly surplus northern third, excessive to surplus central and south. Fieldwork: 0.8 day suitable. Another week of rain kept most farmers out of fields. Northern third dried enough for some fertilizer and herbicide to be applied. Preparation of land for spring planting and planting of corn and watermelons well behind last year. Plowing 27% complete, 46% 1979, 53% average. Corn 13% planted, 30% 1979, 27% average. Watermelons 16% planted, 62% 1979. Winter wheat 48% jointing, 51% 1979; condition good to



fair. Livestock, pastures fair to good condition. Fuel supplies adequate.

MISSOURI: Temperatures 3° below normal. Precipitation averaged 1.25 in.

Fieldwork: 0.8 days suitable. Plowing 54% complete for spring planted crops, last year 60%, normal 49%. Oats 14% sown, last year 26%, normal 54%. Condition of winter wheat and pasture fair to good. Supply of hay and other roughages adequate to surplus. Topsoil moisture adequate to surplus. Fuel supplies mostly adequate.

MONTANA: Major spring storm hit south central. Precipitation of 1.00 to 4.00 in. accompanied storm. Heavy snow fell along east slopes of Divide from Canada to Rogers Pass on 1st and 2d with 1 to 4 feet of new snow. Some precipitation fell over almost all state with lightest amounts over west. Temperatures were 1 to 3° above normal.

Moisture short to adequate. Winter wheat greening, condition fair. Fieldwork generally not started. Calving 50% complete, lambing 45% complete, shearing 55% complete. Losses of newborn calves and lambs less than normal but some losses during recent storms. Pastures and ranges greening.

NEBRASKA: Snow west amounts up to 25 in.; rain east and southeast amounts averaged over 3.00 in. Temperatures near normal.

Oats planting 5% complete, year ago 5%, normal 35%. Winter wheat condition rated good. Topsoil moisture surplus. Subsoil moisture surplus to adequate. Fieldwork: zero days suitable due to wet soils.

NEVADA: Cold early, storm near end of week. Precipitation light to moderate north. Almost nil extreme south. Temperatures averaged below normal. Extremes: 75 and 14°.

Winter grains greening slowly due cold weather. Fieldwork hampered by high winds. Calving, lambing continued.

NEW ENGLAND: Temperatures averaged within 5 to 6° of normal. Light precipitation in south and west on 2d and 3d and northern border on 5th. Storm on 4th dropped from 0.50 to 1.25 in. over most of region but only 0.25 in. in northern Maine.

NEW JERSEY: Temperatures averaged near normal. Extremes: 26 and 69°. Rainfall averaged 1.69 in. north, 1.67 in. central, 1.63 in. south. Soil moisture in percent of field capacity averaged 99% north, 98% central, 98% south. Soil temperature averaged 43° north, 46° central, 51° south.

Early planting behind schedule due to rains. Warmer weekend temperatures beneficial but most fields remain too wet for soil preparation and planting. Pastures and fall seeded grains beginning to make growth. Fruit buds beginning to swell.

NEW MEXICO: High winds statewide, scattered precipitation and cooler temperatures first half of week. Precipitation totaled less than 0.50 in.

Irrigated wheat and barley generally good condition with some fair. Dryland crop fair condition. Crops treated for insects are responding. Lettuce and onions good condition. Bee losses reported in Dona Ana and Sierra areas. Ranges fair with supplemental feeding. Cattle and sheep fair to good condition. Calving and lambing near complete.

NEW YORK: Near normal average temperatures were in mid-30's in northern mountains to low to mid-

40's elsewhere. Precipitation 0.50 to 1.25 in. above normal fell in southeast. Elsewhere near to slightly below normal precipitation.

NORTH CAROLINA: Temperatures 2 to 6° above normal. Precipitation mostly light.

Fieldwork: 3 days suitable. Soil moisture adequate to surplus. Conditions of wheat, oats, barley, rye mostly good, improving; pastures fair to mostly good, improving; Irish potatoes fair to good, declining; peaches mostly good; truck crops fair to mostly good; tobacco beds fair to mostly good, improving. Tobacco plant supply adequate. Plantings of Irish potatoes 35%; corn 4%; summer cabbage, sorghum, flue tobacco underway. Major activities: Tending plant beds, fertilizing small grains and pastures, preparing land for spring planting.

NORTH DAKOTA: Mild, dry. Temperatures averaged 5 to 10° above normal. Reached lower 70's through central portions on 6th. Extremes: 17° southwest to 74° west central. Soil temperatures rose above freezing mark through most of central and south. No measurable precipitation.

Field activity beginning to increase with warmer temperatures. Concern over low soil moisture levels. Calving and lambing continued with livestock in excellent condition.

OHIO: Precipitation about normal north and central; 0.50 in. below normal south. Cloudiness slowed field drying. Some drying occurred 5th and 6th as sunny warm weather prevailed. Temperatures ranged from 26 to 69°. Average temperatures 1° below to 2° above normal. Soil temperatures increased only slightly. Minimums averaged from upper 30's to around 40° and maximums from mid-40's to around 50°.

Livestock have yet to be pastured. Hay stocks plentiful, pastures that have greened generally too wet to enter. No shortages of LP gas, gasoline, or diesel. Land plowed 60%, 65% 1979, 65% average. Oats seeded 10%, less than 5%, 10% 1979, 15% average. Sugarbeets planted 0%, 0% 1979, 5% average. Tobacco sown 5%, 35% 1979, 40% average. Fieldwork: 1 day favorable. Pasture condition fair to good. Soil moisture surplus.

OKLAHOMA: Cool; some of highest temperatures reached over weekend. Northwest coolest averaging 6° below normal, while east and southeast near normal. Rainfall 0.10 in. southwest to 0.60 in. north central.

Wheat and small grain conditions improved. Cooler Panhandle temperatures, snow slowed wheat growth. Late planted wheat being grazed with supplemental feeding needed. Some wheat being grazed out or plowed under in west central, southwest. Wheat making excellent growth with little insect activity north. Wheat development behind average, jointed 30%, 45% 1979, 50% average. Oats and barley near normal, oats jointed 25%, 35% 1979, 25% average; barley jointed 20%, 40% 1979, 25% average. Corn planted 50%, 65% 1979, 60% average. Seedbed preparation: Sorghum 35%, 30% 1979, 20% average; soybeans 30%, 30% 1979, 20% average; cotton 45%, 35% 1979, 10% average. Fieldwork: 4.3 days suitable.

OREGON: Temperatures varied from normal to 5° below; some spots 10° below normal. Precipitation ranged from 0.30 to 0.60 in. most areas west of Cascades; from traces to 0.30 in. east of Cascades.

Soil moisture adequate to mostly surplus west; mostly adequate east. Winter wheat condition good; some reseeding underway in Columbia Basin. Spring seeding underway. Sugarbeets being planted in Malheur County. Peaches and apricots in full bloom or past bloom; sprays being applied. Spraying and pruning continuing in Hood River and Wasco Counties. Early pears and apples beginning to bloom. Caneberry training complete; leaf growth apparent. Green peas, onions, and early potato plantings underway. Livestock condition fair to mostly good. Feeder lambs moving off grass seed fields. Range and pastures fair to good condition. Pastures growing in west; too cool in east.

PENNSYLVANIA: Somewhat more settled conditions provided 4 days of sunshine and mild. Afternoon temperatures reached into 50's and 60's last four days. Extremes: 69 and 25°. Rain, sleet, snow, drizzle 31st and more rain 2d and 4th totaled 0.50 in. west to 2.00 in. southeast with 0.50 to 1.00 in. common elsewhere. New snow 3 to 6 in. east.

Normal winter chores.

PUERTO RICO: Island rainfall none, 0.69 in. below normal. Temperatures averaged about 77 to 78° on coast and 74 to 75° interior. Extremes: 92 and 55°.

SOUTH CAROLINA: Temperatures averaged near normal, highest during midweek reaching 82°. Sharply colder 5th with scattered frost 6th. Rainfall subnormal.

Soil moisture generally excessive. Plowing 27% completed. Corn condition fair; 6% planted and nearing critical planting period, 56% last year, 50% average. Wet, cold, causing yellowing some tobacco beds; others nearly oversized, supplies adequate; 3% transplanted where drained, 18% last year, 26% average; condition fair to good. Small grains fair to good. Peaches sprayed during bloom, condition fair to good, some moisture excesses. Tomatoes fair to good, 82% planted, 83% last year; cucumber fair, 49% planted, 76% last year; snap beans fair, 63% planted, 76% last year; watermelons poor to fair due to moisture problems, 22% planted, 52% last year, 60% average.

SOUTH DAKOTA: Cool, wet early week but warmed to 60's and 70's. Average temperature 8° subnormal to 7° above normal. Extremes: 75 and 6°. Precipitation heaviest south, northeast very little.

Fieldwork began on limited scale but halted by rain and snow. Main farm activities: Calving, lambing, pre-planting preparations. Topsoil moisture adequate or surplus except parts of northwest and central. Subsoil moisture supplies surplus in eastern pocket, short west and central, adequate elsewhere. Farm fuel supplies adequate. Winter wheat and rye fair to good condition; need moisture, some greening and sprouting. Livestock good condition. Ranges and pastures poor to fair condition. Stock water supplies low. Good lambing and calving success. Feed supplies adequate. Calving 33% completed, lambing almost 67% completed. Oats seeded 1%, 1979 0%, average 5%. Barley seeded 1%, 1979 0%, average 4%. Spring wheat seeded 2%, 1979 0%, average 6%.

TENNESSEE: Rain 3d and 4th in advance of cold front on 4th. Amounts averaged 0.75 in. west, 0.50 in. east. Temperatures averaged near normal.

Fieldwork: 1.7 days suitable. Soil moisture surplus. Spring plowing 40% complete, 1979 42%, average 51%. Tobacco plantbeds 68% seeded, 1979 80%, average 85%. Pastures fair to good. Cattle good, most now on pasture. Wheat and oats fair. Early corn planting begun. Gas and diesel fuel supplies adequate. Fruit trees now in bloom. Activities: Fertilizing, mending fences and repairing equipment. Very limited fieldwork.

TEXAS: Fair weather dominated with exception of thunderstorms over north 2d, midweek showers over coastal areas. Temperatures near normal. Rainfall generally 0.50 in. below normal.

Cotton planted 11%, 11% 1979, 11% average. Rice planted 36%, 26% 1979, 61% average; emerged 11%, 0% 1979. Sorghum planted 68%, 35% 1979, 45% average. Corn planted 39%, 26% 1979, 34% average. Peanuts planted 0%, 3% 1979, 8% average. Sugarbeets planted 44%, 63% 1979, 55% average.

Ranges, pastures began to green following recent moisture. Additional moisture needed to continue new growth. Stock water critically low many areas. Supplemental feeding continued but began to taper off. Marketing remained slow; prices depressed. Calving continued. Sheep, goat shearing active.

Lower Rio Grande Valley cabbage, carrot harvests continued light volume. Onion harvest continued with limited supplies. Cantaloups, honeydew melons made rapid growth. Harvest Valencia oranges active. Citrus trees continued to bloom but nearing end. Coastal Bend cucumber planting continued. Some watermelon, cucumbers received slight wind damage. San Antonio-Winter Garden area carrot harvest continued light volume. Watermelon, cantaloup planting continued. East Texas tomato, watermelon planting active. North Texas cantaloup, watermelon, tomato planting continued. Potatoes, onions making normal growth. Cutworms continue to cause some damage. El Paso chili pepper planting continued. Lettuce, cabbage, onions doing well. High Plains remaining onions and potatoes planted. Preparation active for summer planted crops. Peach trees leafing out most areas. Some spraying completed. Pecan buds swelling with some beginning to leaf out southern areas.

UTAH: Scattered rain or snow forepart period and again weekend; amounts generally light to moderate but locally heavy. Average temperatures generally 4 to 14° below normal.

Soil moisture adequate for spring growth most ranges and dryland farms. Fieldwork: 2 days suitable. Soil moisture adequate to surplus. Irrigation water outlook much above average. Calving and lambing about 50% complete, shearing 25%. Crops, range feed and livestock good condition. Crop and range feed growth slow due to cool weather. Fruit lost in one county, but no losses in major producing area. Spring wheat and barley 10% seeded.

VIRGINIA: Temperatures above normal. Extremes: 25 and 80°. Precipitation totaled 1.00 to 2.00 in.

Wet soils delay spring seedings. Topsoil moisture adequate to surplus. Fieldwork: 2.3 days available. Pastures, wheat rated good to excellent. Peach prospects good; cool temperatures holding back blooming; full bloom expected within next ten days central valley. Tobacco plant beds: Flue-cured good, seeding virtually completed; burley condition improving, seeding 65% done. Surplus moisture continued to delay potato seedings on Eastern Shore. Corn plantings 2% done, 4% 1979, 5% average; Tidewater, southeast seedings 2% finished, 5% 1979. Liming, fertilizing active. Seeding spring oats southwest. Applying herbicides to small grains, corn in Tidewater, southeast areas. Cattle producers marketing feeders.

WASHINGTON: West: Temperatures averaged near normal. Precipitation below normal.

Soils drying. Early vegetable planting started. Blueberry, raspberry buds opening. Tulip harvest underway, field daffodil harvest nearly complete. Livestock moving to pasture. Green chopping in drier areas.

East: Temperatures averaged near normal. Precipitation below normal.

Reseeding wheat in dryland areas. Preparing to plant spring grains, applying herbicides. Some foot rot. Orchard bloom on schedule. Spraying for pear psylla. Hop, mint, grape, asparagus planting. Still calving and lambing. Hay supplies short.

WEST VIRGINIA: Temperatures averaged slightly above normal. High 82°, low 26°. Precipitation slightly above normal except southwest where below normal. Light snow higher elevation 5th.

Soil moisture adequate to surplus. Fieldwork: 2.3 days suitable. Hay adequate to surplus. Grain and other feed supplies adequate. Fuels adequate to tight.

WISCONSIN: Temperatures averaged 1° above normal. Highs in 50's and 60's except for 30's on 3d. Lows in 20's and 30's except for teens north. Extremes: 64 and 12°. Precipitation above normal south where 1.00 to 1.50 in. rain received 3d and 6th. Snow of 1 to 3 in. 3d many areas. No snowcover remaining except extreme north. Frost coming out, some southern areas frost-free. Frost depths averaged 19 in. as of 4th; decline of 11 in. from two weeks earlier but second greatest on record for that date.

A little field preparation started south.

WYOMING: Temperatures below normal. Extremes: 58 and 5°. Precipitation above normal.

Topsoil and subsoil moisture adequate. Acreage planted: Spring wheat 10%, barley 21%; a few fields of oats, sugarbeets. Stormy weather, wet fields, snowcover slowing land preparation and planting. Winter wheat mostly good condition; wind damage light to non-existent. Spring calves born 50%, range ewes lambed 24%, farm flock ewes lambed 61%, range sheep shorn 28%, farm flock shorn 61%. Spring grazing fair to mostly good. Spring grazing fair to mostly good. Feed supplies mostly adequate.

International Weather and Crop Summary

March 31 - April 6

HIGHLIGHTS:

USSR. Winter grains breaking dormancy in south...quite wet field conditions in some areas.

EUROPE. Winter grain breaking dormancy in south and west...adequate soil moisture in most areas.

CHINA. Wheat jointing*...abundant rainfall.
Planting rice and other crops*...too wet in some areas.

INDIA. Wheat should be turning color in north...good harvest weather.

NORTHWESTERN AFRICA. Winter grains heading*...adequate soil moisture.

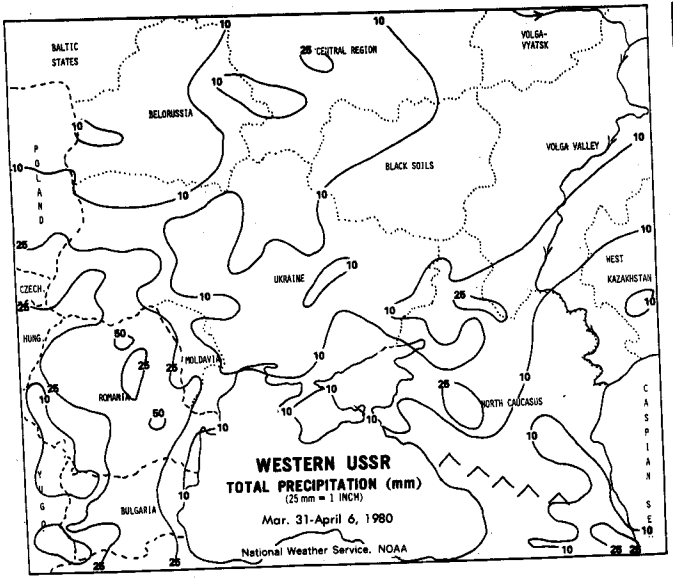
ARGENTINA. Early soybeans pod-filling*...abundant rainfall.

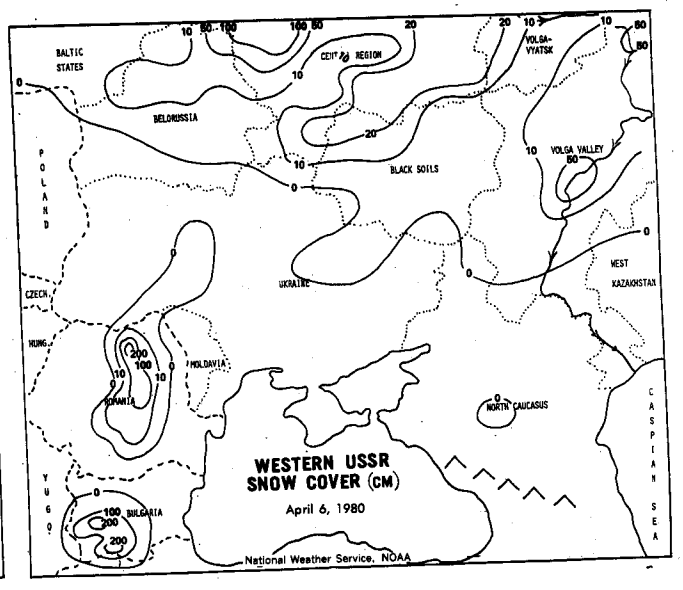
BRAZIL. Harvesting soybeans in Parana...favorable conditions.
Soybeans nearly mature in Rio Grande do Sul...favorable conditions.

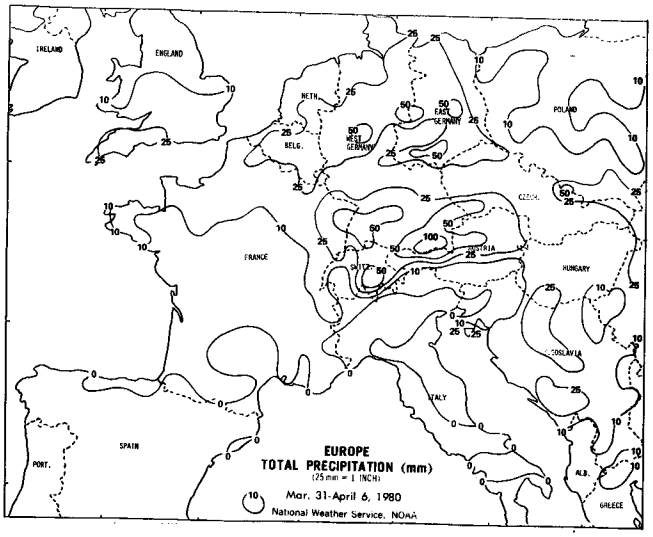
MEXICO. Eastern orchard and field crop development...good weather and adequate irrigation water.
Central and western crop development...low irrigation supplies, also slightly too hot for vegetables and corn pollination in a few areas.

*Based on normal crop calendar information.

USSR. Rapid snowmelt continued in the winter grain belt, and most fields in the Ukraine and North Caucasas lost their snowcover. Above-normal precipitation at many locations caused much of the melt, so fields should be quite wet, and flooding may be causing problems in some areas. Probably little fieldwork was accomplished, dropping seasonal progress further behind schedule. Strongest greening-up occurred in the southeast in Krasnodar and Stavropol where temperatures ranged above normal, but colder than normal conditions in the Black Soil zone and the Volga Valley kept winter grains dormant.

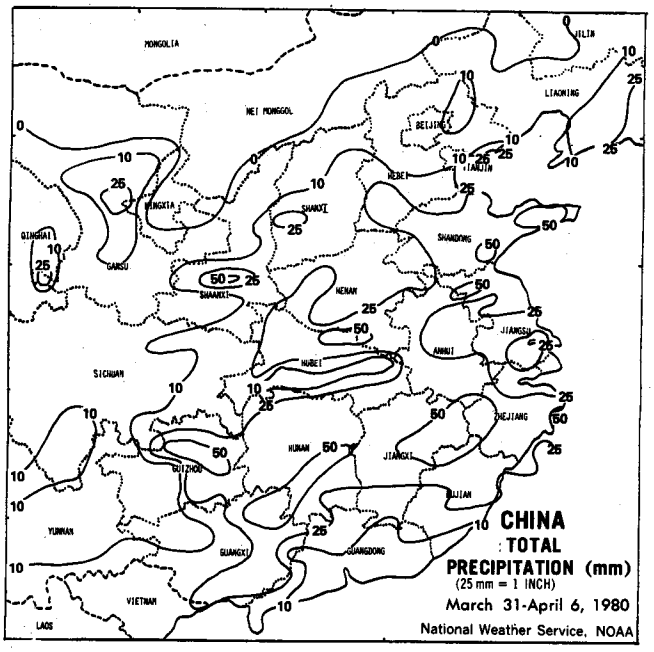


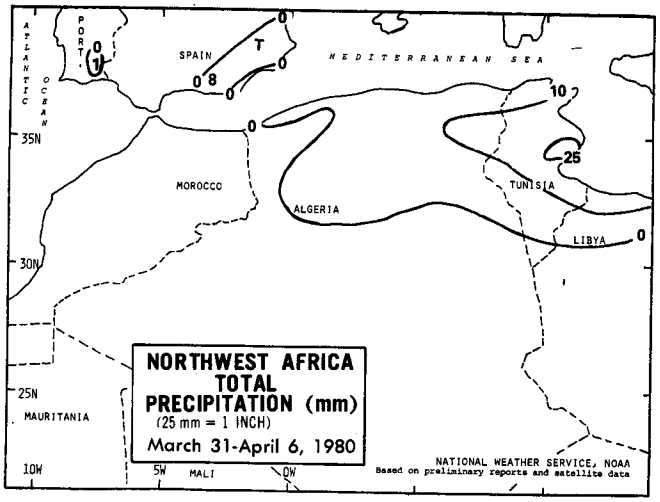




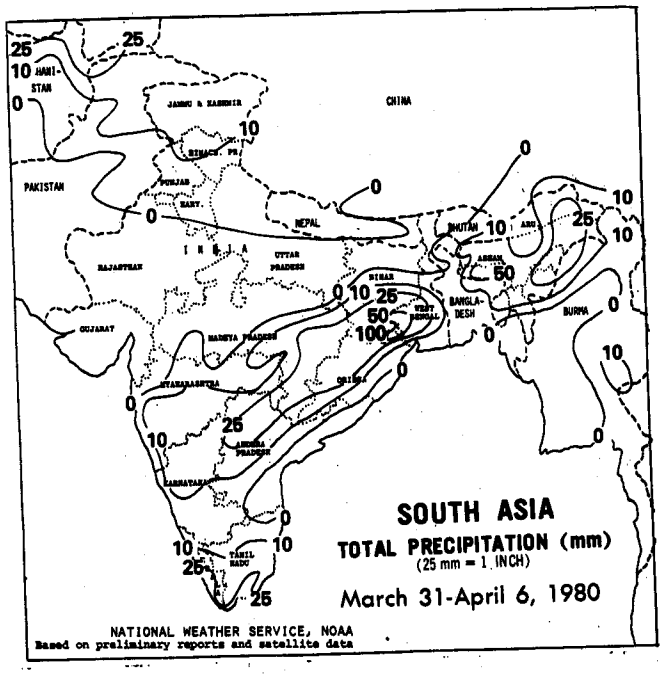
EUROPE. Precipitation decreased over Italy, Spain, and France, but increased to the northeast. Above-normal precipitation fell in a broad band extending from the coastal portions of Belgium, the Netherlands, and West Germany southeastward through Yugoslavia, Romania, and Bulgaria. This moisture benefited winter grains for the most part, but some areas to the north of the Alps may be too wet now, though no serious problems exist. Near-normal precipitation in Poland did not alleviate previous dryness, but winter grains had not yet broken dormancy. Winter grains nearing the heading stage in southern areas should have adequate moisture, except for some local dry pockets.

CHINA. Nearly all winter wheat areas received above-normal precipitation, and temperatures stayed high enough for wheat growth to continue. Perhaps the abundance of moisture this spring will partially make up for poor initial wheat development last fall in some areas. Rainfall south of the Yangtze River decreased slightly, but excessively wet conditions persisted in most areas where rice transplanting was in progress. Increased rainfall in some southern coastal areas alleviated moderate dryness, but only light amounts fell in Guangdong Province.



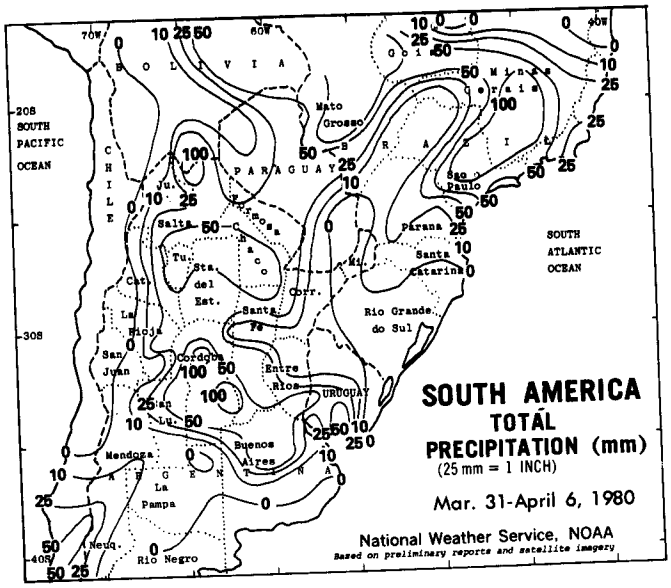


NORTHWESTERN AFRICA. Most of the rain fell in the east in Tunisia, with only very light amounts falling in Algeria and none at all in Morocco. Soil moisture should remain adequate in most areas due to recent rains. Water needs of winter grains are decreasing as the crops near maturity, and prospects remain optimistic. Rainfall normally persists longer in the east, and this week above normal amounts covered some areas of Tunisia that had been dry earlier in the winter. Perhaps this moisture came in time to benefit grains.



INDIA. Rainfall increased in the southeastern half of the country, with abundant totals of 30 to 40 mm occurring from interior Andhra Pradesh northeastward into Assam. Most areas in Bangladesh remained dry, however. Generally favorable harvest weather prevailed in northwestern wheat areas, with light, above-normal rains in Punjab not interfering with the ripening process. Daytime temperatures averaged in the middle to upper thirties, Celsius.

SOUTH AMERICA. Abundant rainfall over most Argentine soybean areas may have benefited early soybeans (now in the latter stages of pod filling) in southwestern Santa Fe and southeastern Cordoba. This moisture helped late soybeans in all areas, but it is too early to estimate whether they will mature sufficiently before frost arrives. In Brazil, favorable soybean harvesting weather prevailed as threshing began in earnest in Rio Grande do Sul and continued in more-northern areas.

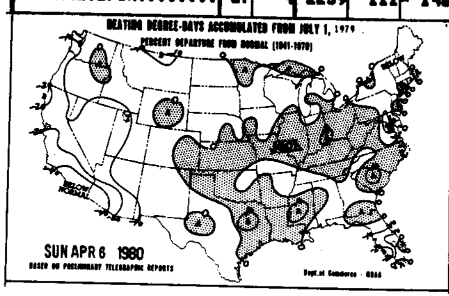


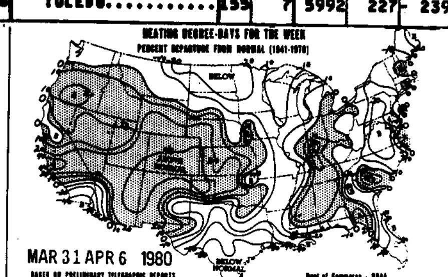
MEXICO. Sunny weather dominated the western two-thirds of the country, while a few showers dotted the east. A heavy downpour benefited Jalapa citrus, but soil moisture decreased in other nonirrigated agricultural areas. Warm conditions favored crop development. However, afternoon temperatures up to 38°C in a few districts, including the west coast, were slightly too hot for some vegetables and corn pollination. Culiacan's afternoon maxima averaged 32°C with a 27-percent relative humidity, while overnight minima averaged 13°C with an 81-percent humidity. Reservoir water supplies continued to decline to low levels in the droughty northwest.

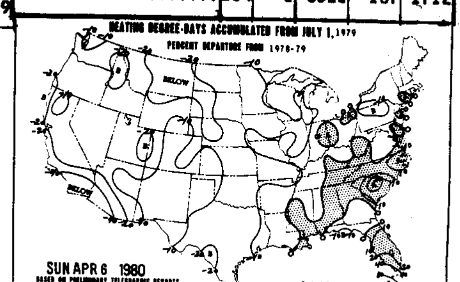
HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING APR. 6, 1980.

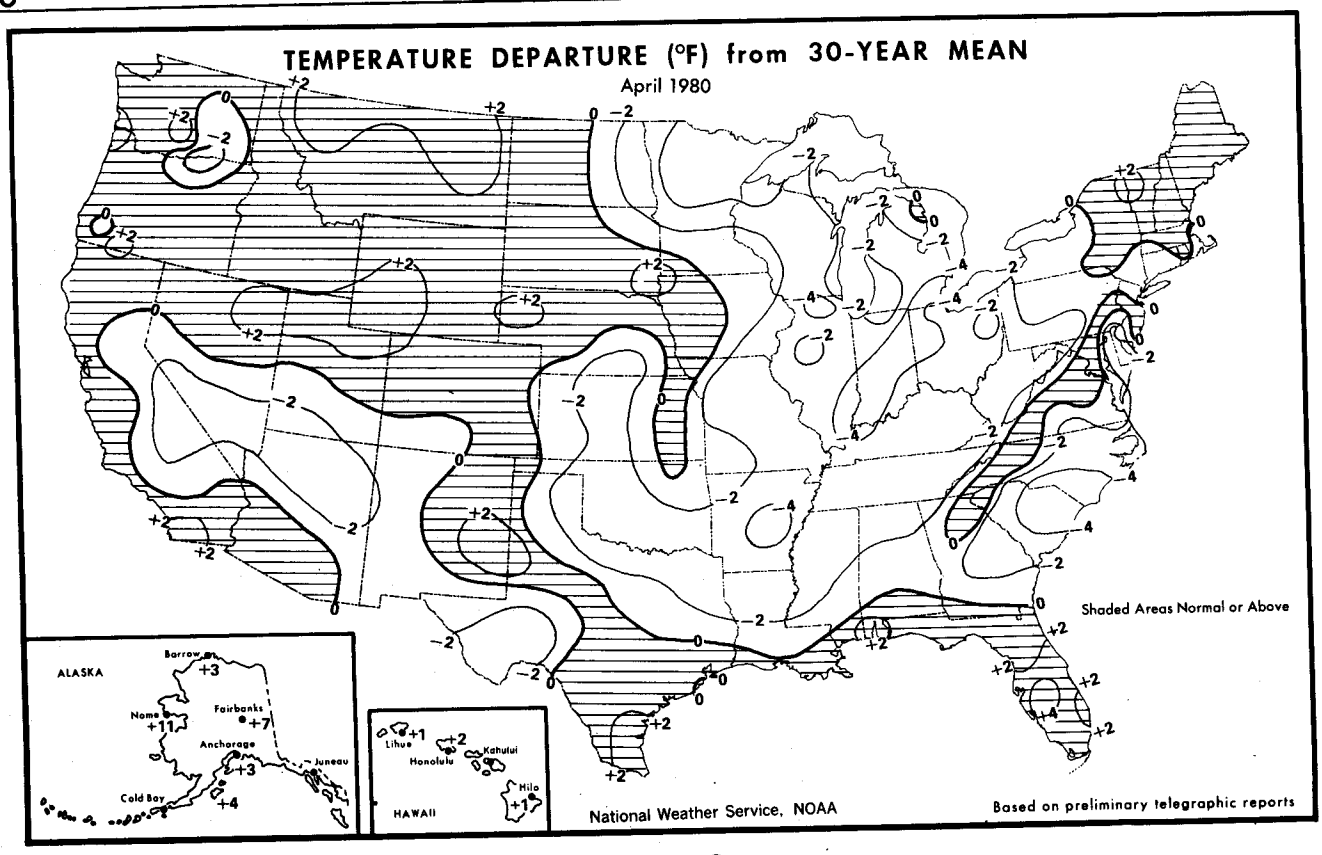
BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1979.

STATES AND STATIONS	WEEKLY TOTAL	WEEKLY DEPARTURE*	SEASONAL ACCUMULATION + TOTAL	SEASONAL DEPARTURE*	DEPARTURE FROM 1978-79
ALA. BIRMINGHAM	56	9	2766	11	74
MOBILE	20	-1	1608	-57	9
MONTGOMERY	34	1	2028	-190	65
ARIZ. FLAGSTAFF	232	49	6100	-37	-470
PHOENIX	28	5	1022	-493	-402
TUCSON	40	9	1349	-353	-474
WINSLOW	149	44	4210	-142	-394
YUMA	5	-5	384	-607	-783
ARK. FORT SMITH	58	3	3506	264	-318
LITTLE ROCK	42	-14	3142	-108	-158
CALIF. BAKERSFIELD	63	19	1479	-588	-347
EUREKA	109	-3	2876	-774	-922
FRESNO	66	9	2105	-360	-186
LOS ANGELES	53	0	808	-682	-583
RED BLUFF	72	7	2077	-386	-151
SAN DIEGO	25	-17	519	-755	-505
SAN FRANCISCO	82	6	2116	-381	-516
STOCKTON	62	-3	2053	-522	-383
COLO. DENVER	192	39	5333	22	-436
GRAND JUNCTION	164	41	4935	-236	-1249
PUEBLO	194	67	4989	49	-659
CONN. BRIDGEPORT	144	-1	4935	76	137
HARTFORD	153	0	5569	-165	-418
DEL. WILMINGTON	98	-19	4364	-184	-403
D.C. WASHINGTON	63	-27	3523	-441	-181
FLA. APALACHICOLA	14	-2	1324	-23	-159
DAYTONA BEACH	0	-10	806	-84	-124
FORT MYERS	0	0	316	-141	-57
JACKSONVILLE	11	-4	1406	-88	-99
KEY WEST	0	0	71	-9	-32
LAKELAND	5	-2	611	-65	-86
MIAMI	0	0	204	-2	-24
ORLANDO	3	-4	646	-81	-75
TALLAHASSEE	22	-5	1692	-146	-26
TAMPA	5	-2	633	-83	-68
WEST PALM BEACH	0	0	312	-13	-45
GA. ATLANTA	43	-13	2737	-243	48
AUGUSTA	41	2	2662	176	258
MACON	28	-3	2095	-104	27
SAVANNAH	17	-11	1881	-36	168
IDAHO. BOISE	155	20	4792	-347	-975
LEWISTON	132	7	4498	-334	-1065
POCATELLO	190	24	5839	-325	-1092
ILL. CAIRO	59	-9	3814	127	-401
CHICAGO	119	-19	5537	-41	-900
MOLINE	124	-14	6061	168	-832
PEORIA	125	-6	5903	287	-566
ROCKFORD	135	-17	6416	185	-749
SPRINGFIELD	115	-2	5308	140	-591
IND. EVANSVILLE	114	25	4676	321	-171
FORT WAYNE	151	9	6046	405	31
INDIANAPOLIS	129	8	5484	343	-24
SOUTH BEND	133	-17	5458	-369	-559
IOWA. BURLINGTON	118	-14	5836	159	-673
DES MOINES	127	-21	5827	-354	-1003
DUBUQUE	147	-13	6488	-128	-1073
SIOUX CITY	145	-5	6263	-144	-1434
KANS. CONCORDIA	130	9	5257	66	-722
DODGE CITY	[illegible]	22	5084	404	-237
GOODLAND	215	66	5499	-9	-350
TOPEKA	115	5	5045	152	-816
WICHITA	120	26	4620	211	-560
KY. LEXINGTON	98	0	4634	223	-32
LOUISVILLE	99	5	4392	-49	-15
LA. BATON ROUGE	17	-1	1762	107	-97
LAKE CHARLES	13	-4	1622	135	-89
NEW ORLEANS	8	-9	1447	-6	-1
SHREVEPORT	27	-4	2239	111	-146
MAINE. CARIBOU	187	-46	7860	-512	-340
PORTLAND	172	-12	6427	-99	-189
MD. BALTIMORE	93	-13	4271	-114	-8
MASS. BOSTON	144	2	5017	-9	-103
MICH. ALPENA	186	-23	7021	-354	-431
DETROIT	160	7	6088	-308	-128
FLINT	169	3	6230	-33	-258
GRAND RAPIDS	155	-8	5898	-197	-756
HOUGHTON LAKE	185	-15	7153	-192	-524
LANSING	170	7	6281	95	-311
MARQUETTE	210	-23	8342	23	-498
MUSKEGON	158	-12	6231	142	-552
S. STE. MARIE	198	-25	8021	105	-388
MINN. DULUTH	200	-22	8351	-157	-820
INTERNATL FALLS	187	-43	9442	99	-895
MINNEAPOLIS	148	-33	7140	-267	-731
ROCHESTER	164	-21	7178	-249	-1414
ST. CLOUD	159	-37	7925	-67	-1052
MISS. JACKSON	39	6	2568	315	143
MERIDIAN	38	4	2387	51	-102
MO. COLUMBIA	93	-11	4970	230	-303
KANSAS CITY	114	4	5106	117	-578
ST. LOUIS	87	-6	4574	116	-649
SPRINGFIELD	90	-3	4140	-147	-879
MONT. BILLINGS	167	-10	5814	-552	-1834
GLASGOW	158	-43	7375	-634	-2112
GREAT FALLS	180	-8	6164	-499	-1640
HAVRE	177	-17	6820	-953	-2077
HELENA	197	6	6776	-341	-1261
KALISPELL	183	-10	6777	-594	-1506
MILES CITY	165	-13	6493	-578	-2024
MISSOULA	180	4	6439	-437	-1325
NEBR. GRAND ISLAND	145	0	5919	39	-1137
LINCOLN	130	-5	5562	-184	-1302
NORFOLK	146	-11	6179	-213	-1224
NORTH PLATTE	189	31	5743	-333	-1627
OMAHA	143	15	5954	336	-406
VALENTINE	200	26	6289	-263	-1572
NEV. ELY	202	11	5843	-740	-1219
LAS VEGAS	60	15	2147	-363	-357
RENO	169	21	4625	-526	-851
WINNEMUCCA	178	15	4912	-775	-855
N.H. CONCORD	194	18	6479	-60	-330
N.J. ATLANTIC CITY	128	7	4778	250	-29
TRENTON	114	-4	4595	-49	-8
N.MEX. ALBUQUERQUE	116	23	3735	-310	-189
ROSWELL	55	-13	3297	-263	-296
N.Y. ALBANY	151	-9	6023	-196	-427
BINGHAMTON	158	-19	6287	-171	-244
BUFFALO	162	-11	5898	-217	-334
NEW YORK	107	-15	4434	-53	-240
ROCHESTER	147	-19	6049	-61	-83
SYRACUSE	146	-17	5893	-71	-318
N.C. ASHEVILLE	82	-7	3793	-140	82
CHARLOTTE	54	-2	3299	204	243
GREENSBORO	59	-14	3645	-9	-7
HATTERAS	66	0	2679	117	301
RALEIGH	40	-18	3464	113	321
WILMINGTON	35	-6	2464	94	109
N.DAK. BISMARCK	158	-40	7873	-248	-1470
FARGO	157	-46	8402	-40	-1156
WILLISTON	162	-41	7787	-419	-1592
OHIO. AKRON-CANTON	135	-12	5717	108	-103
CINCINNATI	118	10	5138	448	12
CLEVELAND	145	-9	5728	205	270
COLUMBUS	117	-9	5253	-32	-158
DAYTON	130	3	5490	314	43
TOLEDO	155	7	5992	227	-239
YOUNGSTOWN	153	1	5978	216	72
OKLA. OKLAHOMA CITY	82	14	3543	-4	-536
TULSA	56	-12	3403	-141	-703
OREG. ASTORIA	130	-2	3683	-579	-828
BURNS	205	36	5830	-320	-783
MEDFORD	145	24	3733	-530	-581
PENDLETON	141	21	4958	-311	-651
PORTLAND	120	4	3690	-394	-703
SALEM	144	23	3993	-96	-441
PA. ALLENTOWN	116	-20	4956	-343	-263
ERIE	160	-12	5656	-345	-644
HARRISBURG	91	-24	4422	-419	-414
PHILADELPHIA	109	-4	4524	35	15
PITTSBURGH	130	-4	5536	143	-159
SCRANTON	131	-16	5417	-271	-590
R.I. PROVIDENCE	136	-16	5029	-269	-471
S.C. CHARLESTON	32	0	2195	91	285
COLUMBIA	54	17	2927	387	589
GREENVILLE	64	8	3166	120	135
S.DAK. ABERDEEN	142	-46	7357	-428	-1557
HURON	148	-27	6881	-428	-1464
RAPID CITY	173	-7	6050	-389	-1344
SIOUX FALLS	154	-19	6799	-321	-1334
TENN. CHATTANOOGA	69	8	3483	133	246
KNOXVILLE	61	-2	3467	146	72
MEMPHIS	49	-6	3013	-116	-162
NASHVILLE	78	12	3652	111	-108
TEXAS. ABILENE	25	-17	2443	-94	-380
AMARILLO	127	36	4219	311	-193
AUSTIN	1	-22	1620	-96	-439
BEAUMONT	2	-17	1580	76	117
BROWNSVILLE	0	0	640	-12	-96
CORPUS CHRISTI	0	0	887	-43	-147
DEL RIO	0	-11	1368	-150	-349
EL PASO	48	10	2568	-59	-110
FORT WORTH	40	2	2375	43	-338
GALVESTON	1	-14	1286	67	-87
HOUSTON	7	-9	1545	118	-161
LUBBOCK	61	-9	3204	-192	-329
MIDLAND	42	0	2662	97	-374
SAN ANGELO	17	-15	2378	180	-316
SAN ANTONIO	6	-12	1449	-108	-270
VICTORIA	0	-11	1331	108	-177
WACO	25	-4	2260	229	-298
WICHITA FALLS	41	-7	2906	79	-510
UTAH SALT LAKE CITY	150	12	4722	-600	-635
VT. BURLINGTON	174	-15	6615	-396	-585
VA. LYNCHBURG	68	-19	4001	26	-148
NORFOLK	79	2	3358	72	92
RICHMOND	59	-19	3532	-195	-148
ROANOKE	70	-21	4059	45	-172
WASH. QUILLAYUTE	140	-8	4303	-492	-667
SEATTLE-TACOMA	121	-9	3995	-351	-212
SPOKANE	152	-5	5650	-304	-1414
WALLA WALLA	113	7	4423	76	-617
YAKIMA	127	-4	5307	-35	-742
W.VA. BECKLEY	111	-9	5243	179	379
CHARLESTON	91	-2	4526	253	194
HUNTINGTON	96	2	4432	133	-26
PARKERSBURG	99	-5	4501	30	-358
WIS. GREEN BAY	164	-21	7040	-178	-866
LACROSSE	148	-14	6603	-185	-672
MADISON	155	-21	6922	-24	-621
MILWAUKEE	155	-19	6235	-336	-659
WYO. CASPER	218	28	6712	171	-834
CHEYENNE	238	49	6177	-48	-428
LANDER	229	42	6891	30	-1365
SHERIDAN	184	0	6520	-187	-1712









March Weather Summary

HIGHLIGHTS: The dominant feature of the March weather centered on the southeastern United States. As March began, very cold air moved into the Southeast, and by the third day of the month had enveloped all of Florida. Freezing temperatures reached all the way to Miami. Immediately after the freeze, rain set in and accumulated excessive amounts for each week of the month. Much of the Southeast had well over double the normal rainfall. The northern Plains, northern Mississippi Valley, and western Great Lakes areas experienced a dry March. The area from southeastern Oklahoma to southern New Mexico and southward into Mexico was also very dry.

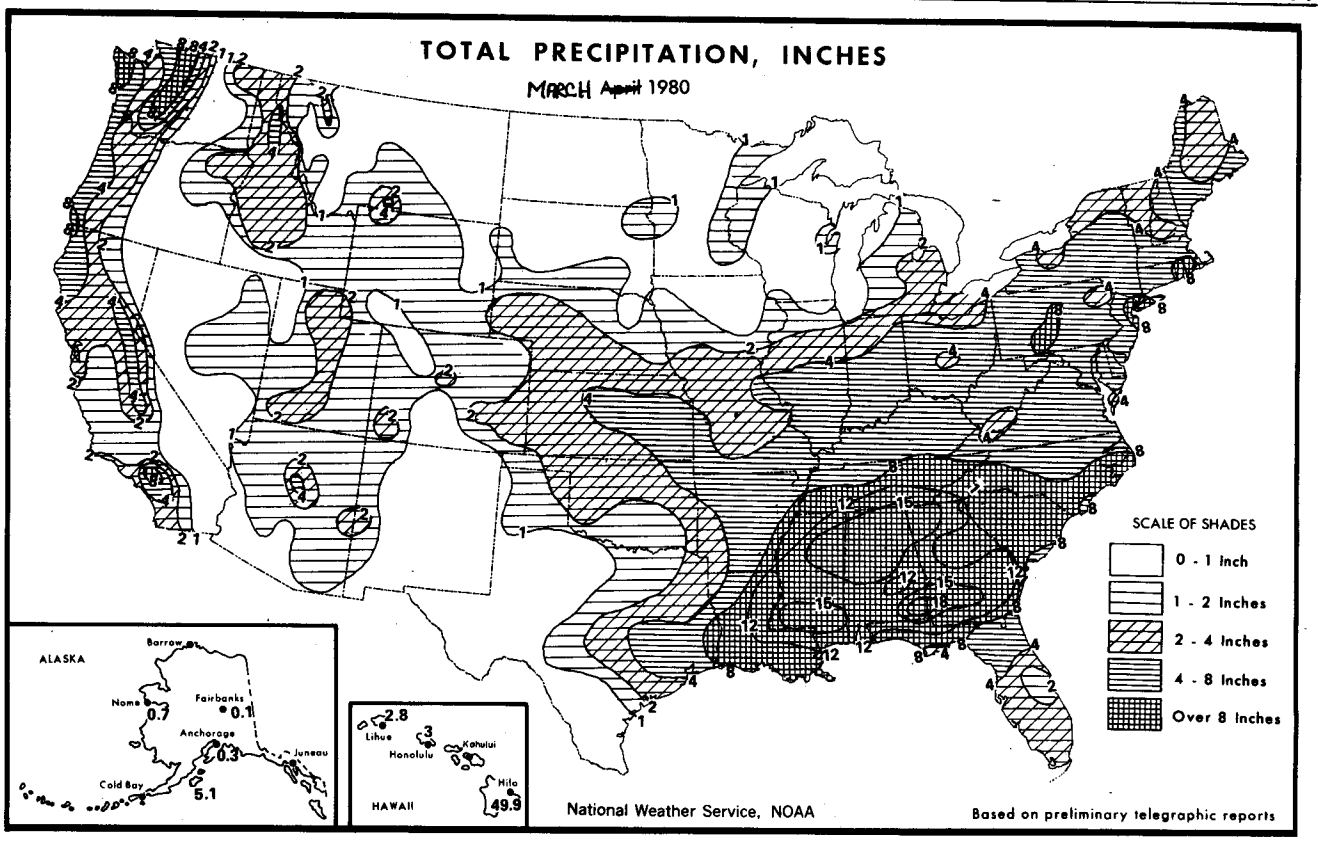
The month of March began cold and snowy for much of the eastern United States. On the first day, snow eased into the Midwest and spread a mantle from the southern Appalachians to the Atlantic Coast. Very cold air moved in with the storm. A record snowfall left 1 to 2 feet in southeastern Virginia and northeastern North Carolina. The morning temperature at Raleigh, N.C., dipped to 11° with the cold air pushing southward. On the third day, freezing temperatures reached all the way to Miami, Fla.; much of the Southeast was chilled by readings in the teens.

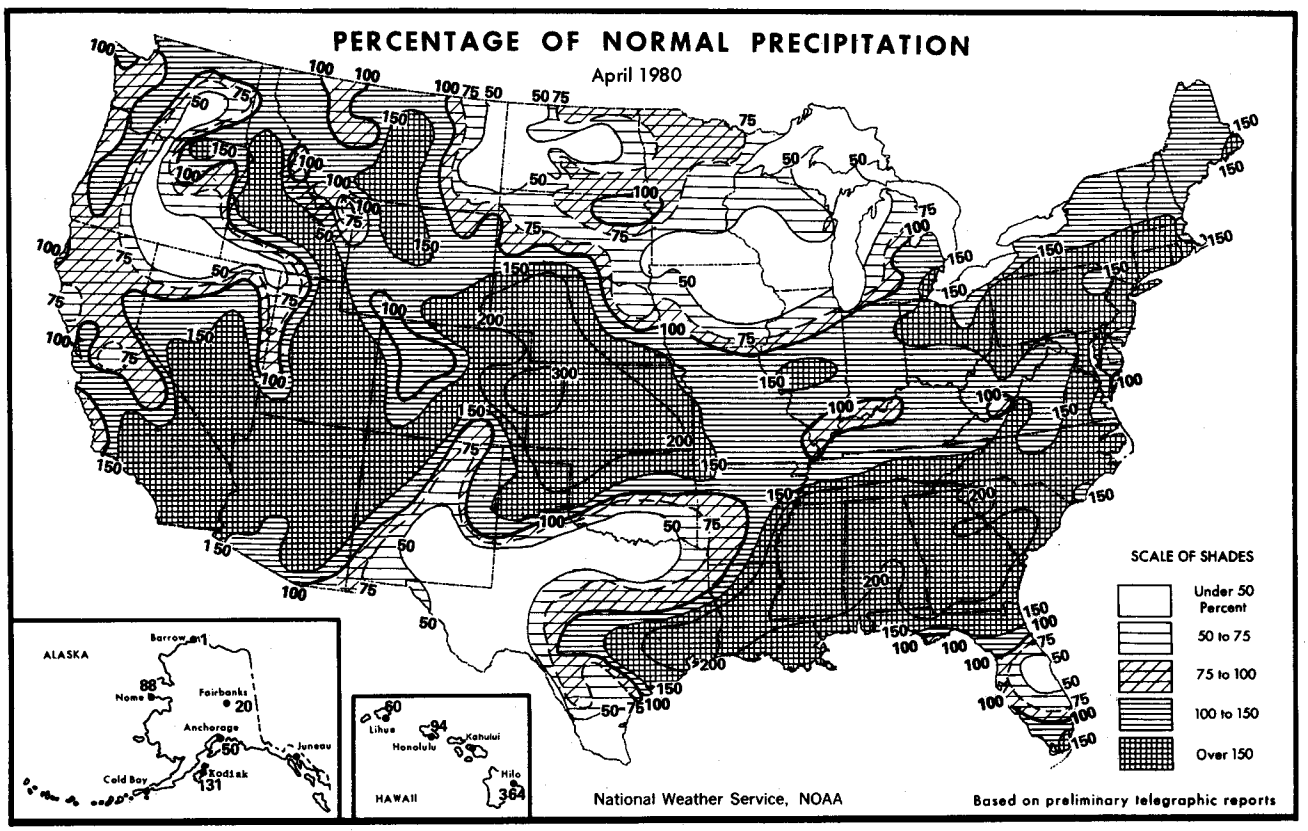
Gradual warming took place during the succeeding week and by Friday, March 7, springlike weather prevailed in the East. Showers and thunderstorms deluged the Southeast. Elsewhere, moderate rain fell in most of California and spread eastward to the Rockies in lesser amounts.

Early in the period of March 10-16, another cold airmass moved rapidly southward through the Plains and eastward. New England recorded light to moderate snow in the mountains and rain on the coast as the front moved through. The cold air stalled in the South and caused another week of very heavy rain, keeping southern farmers out of their fields. Another storm system moved into the Pacific Northwest and on to the Rockies. Rain, with snow at higher elevations, again covered the entire West. Average temperatures for the week of March 10-16 were normal or warmer in all but the northern Mississippi Valley through New England.

The third week of the month, March 17-23, showed some precipitation falling in nearly all of the Nation. Exceptions included parts of the north central Plains and in southwestern Texas. Again, the area of greatest rainfall ranged from the lower Missisippi Valley through the Southeast and into New England. As much as 8 inches of rain accumulated in parts of northern Georgia and Alabama. Flooding ensued along the already swollen rivers. No severely cold temperatures were reported during the week except near the western Great Lakes, but the freeze line did reach into southwestern Texas.

March went out like a lion in parts of the Nation. Excessive rain, thunderstorms, and even tornadoes were reported from East Texas to the Florida Panhandle and North Carolina. It was the fourth week of excessive rain in the Southeast. A series of storms originating in the central Rockies caused near blizzard conditions in the west central Plains. Parts of western Kansas and Nebraska accumulated over 15 inches of snow. Temperatures hovering near freezing and periodic high winds compounded the problems. Again, nearly all of the Nation recorded some precipitation. Average temperatures for the week were somewhat cooler than normal in the Rockies and central Plains, warmer in the northern Plains, and near normal elsewhere.


TOTAL PRECIPITATION, INCHES
MARCH April 1980
SCALE OF SHADES
0 - 1 Inch
1 - 2 Inches
2 - 4 Inches
4 - 8 Inches
Over 8 Inches
ALASKA
Barrow
Nome 0.7
Fairbanks 0.1
Anchorage 0.3
Juneau
Cold Bay 5.1
HAWAII
Lihue 2.8
Honolulu 3
Kahului
Hilo 49.9
National Weather Service, NOAA
Based on preliminary telegraphic reports


PERCENTAGE OF NORMAL PRECIPITATION
April 1980
SCALE OF SHADES
Under 50 Percent
50 to 75
75 to 100
100 to 150
Over 150
ALASKA
Barrow 1
Nome 88
Fairbanks 20
Anchorage 50
Juneau
Kodiak
Cold Bay 131
HAWAII
Lihue 60
Honolulu 94
Kahului
Hilo 364
National Weather Service, NOAA
Based on preliminary telegraphic reports

Temperature and Precipitation Data for March 1980

States and Stations	Temperature °F Average	Temperature °F Departure	Precipitation Inches Total	Precipitation Inches Departure
ALA.Birmingham. . .	52	- 1	15.9	9.7
Mobile.	62	3	13.5	6.4
Montgomery. . . .	56	- 1	10.3	4.3
ALASKA.Anchorage. .	27	3	.3	- .3
Barrow.	-12	3	T	- .2
Fairbanks	17	7	.1	- .4
Juneau.	--	--	--	--
Kodiak.	36	4	5.1	1.2
Nome.	18	11	.7	- .1
ARIZ.Flagstaff. . .	32	- 2	4.2	2.4
Phoenix	61	1	.9	.1
Tucson.	58	0	1.2	.6
Winslow	43	- 2	.8	.4
Yuma.	64	0	.4	.2
ARK.Fort Smith. . .	48	- 2	3.0	- .6
Little Rock . . .	48	- 4	4.9	- .1
CALIF.Bakersfield .	55	- 2	1.3	.5
Eureka.	49	1	6.1	1.3
Fresno.	54	0	2.1	.5
Los Angeles . . .	58	1	3.7	2.0
Red Bluff	53	0	2.1	- .4
San Diego	62	4	2.7	1.1
San Francisco . .	53	0	2.5	0
Stockton.	54	1	1.1	- .9
COLO.Denver	38	1	1.2	- .1
Grand Junction. .	41	0	1.8	1.0
Pueblo.	41	1	1.2	.5
CONN.Bridgeport . .	37	- 1	7.1	3.6
Hartford.	35	- 1	5.9	2.1
D.C.Washington. . .	46	1	5.0	1.7
FLA.Apalachicola. .	61	0	3.5	- 1.2
Daytona Beach . .	66	2	2.4	- 1.0
Ft. Myers	72	3	3.6	.5
Jacksonville. . .	62	1	6.8	3.2
Key West.	75	0	1.8	.2
Lakeland.	--	--	--	--
Miami	73	2	3.2	1.1
Orlando	68	2	1.5	- 2.0
Tallahassee . . .	61	1	11.1	5.2
Tampa	68	2	3.1	- .8
W.Palm Beach. . .	70	0	2.5	- .8
GA.Atlanta.	52	1	11.7	5.9
Augusta	53	- 2	11.9	7.2
Macon	55	- 2	11.9	6.7
Savannah.	57	- 1	7.8	3.4
HAWAII.Hilo	72	1	49.9	36.2
Honolulu.	75	2	3.0	- .2
Kahului	--	--	--	--
Lihue	73	1	2.8	- 1.9
IDAHO.Boise	41	0	2.1	1.1
Lewiston.	43	0	1.2	.2
Pocatello	36	1	1.5	.6
ILL.Cairo	45	- 3	4.6	- .1
Chicago	33	- 3	2.0	- .5
Moline.	34	- 2	1.7	- .9
Peoria.	36	- 1	2.8	0
Rockford.	30	- 4	1.0	- 1.7
Springfield . . .	37	- 2	4.3	1.6
IND.Evansville. . .	40	- 4	4.4	- .3
Ft. Wayne	33	- 4	4.2	1.3
Indianapolis. . .	36	- 4	4.3	.5
South Bend. . . .	36	0	3.7	.9
IOWA.Burlington . .	35	- 2	2.4	- .3
Des Moines. . . .	35	1	1.2	- 1.1
Dubuque	30	- 2	1.1	- 1.9
Sioux City. . . .	34	1	1.0	- .5
KANS.Concordia. . .	38	- 1	3.2	1.6
Dodge City. . . .	40	- 1	2.9	1.8
Goodland.	35	- 1	2.8	1.9
Topeka.	41	0	4.2	2.0
Wichita	42	- 2	4.0	2.2
KY.Lexington. . . .	42	- 2	6.0	1.2
Louisville. . . .	42	- 2	4.8	- .3
LA.Baton Rouge. . .	59	- 1	8.3	3.2
Lake Charles. . .	60	0	9.0	5.2
New Orleans . . .	62	1	10.1	4.6
Shreveport. . . .	55	- 2	3.8	- .3
MAINE.Caribou . . .	24	0	3.2	1.0
Portland.	32	0	4.5	.9
MD.Baltimore. . . .	41	- 2	5.5	1.8
MASS.Boston	37	- 1	5.4	1.4
Chatham	36	--	5.3	--
MICH.Alpena	26	0	1.2	- .7
Detroit	31	- 4	3.9	1.4
Flint	30	- 3	2.2	.1
Grand Rapids. . .	33	0	1.7	- .8
Houghton Lake . .	25	- 2	1.1	- .6
Lansing	30	- 3	1.9	- .5
Marquette	21	- 1	.6	- 1.5
Muskegon.	31	- 2	1.0	- 1.4
S. Ste. Marie . .	23	- 1	1.1	- .6
MINN.Duluth	20	- 4	1.0	- .8
Internatl Falls .	17	- 4	.9	- .2
Minneapolis . . .	27	- 1	1.1	- .6
Rochester	27	- 1	.8	- .9
St. Cloud	23	- 3	.8	- .5
MISS.Jackson. . . .	54	- 2	13.6	8.0
Meridian.	55	- 1	13.9	7.7
MO.Columbia	39	- 3	2.7	.1
Kansas City . . .	39	- 2	3.6	1.0
St. Louis	41	- 2	4.0	1.0
Springfield . . .	43	- 1	3.9	.9
MONT.Billings . . .	34	1	1.5	.5
Glasgow	28	3	.4	0
Great Falls . . .	32	1	.7	- .3
Havre	29	2	.6	.1
Helena.	31	0	.9	.2
Kalispell	33	2	.9	0
Miles City. . . .	32	2	.3	- .4
Missoula.	35	2	.9	.2
NEBR.Grand Island .	34	- 2	2.2	1.0
Lincoln	35	- 2	1.8	.3
Norfolk	34	1	.9	- .5
N.Platte.	36	1	2.6	1.6
Omaha	35	0	1.6	0
Valentine	31	0	1.5	.7
NEV.Ely	33	0	1.6	.7
Las Vegas	54	- 1	.9	.6
Reno.	39	- 1	.8	.1
Winnemucca. . . .	38	0	.5	- .2
N.H.Concord	32	0	3.4	.6
N.J.Atlantic City .	41	0	6.4	2.1
Trenton	41	0	7.3	3.5
N.MEX.Albuquerque .	46	0	.6	.1
Roswell	51	2	0	- .5
N.Y.Albany.	33	0	4.4	1.8
Binghamton. . . .	32	1	6.0	3.1
Buffalo	32	0	4.1	1.2
New York.	40	- 1	8.7	4.7
Rochester	32	- 1	3.8	1.2
Syracuse.	32	- 1	4.3	1.3
N.C.Asheville . . .	46	0	8.3	3.6
Charlotte	47	- 4	8.8	4.3
Greensboro. . . .	47	- 1	5.0	1.3
Hatteras.	49	- 2	8.9	5.1
Raleigh	47	- 3	5.9	2.4
Wilmington. . . .	50	- 4	6.0	1.9
N.DAK.Bismarck. . .	25	0	.3	- .4
Fargo	21	- 3	.6	- .2
Williston	26	1	.2	- .4
OHIO.Akron-Canton .	35	- 1	4.7	1.5
Cincinnati. . . .	39	- 3	4.5	.4
Cleveland	34	- 2	3.7	.6
Columbus.	37	- 2	3.8	.4
Dayton.	36	- 3	4.4	1.2
Toledo.	32	- 3	3.7	1.1
Youngstown. . . .	32	- 3	5.2	2.0
OKLA.Okla. City . .	46	- 2	1.4	- .7
Tulsa	48	0	3.6	1.1
OREG.Astoria. . . .	46	2	6.3	- .3
Burns	37	1	.6	- .3
Medford	47	2	1.3	- .3
Pendleton	41	- 3	1.6	.6
Portland.	46	0	3.1	- .5
Salem	45	0	3.5	- .8
PA.Allentown. . . .	39	1	5.8	2.2
Erie.	31	- 2	4.1	1.3
Harrisburg. . . .	39	- 2	5.5	2.3
Philadelphia. . .	40	- 2	7.0	3.3
Pittsburgh. . . .	36	- 2	5.7	2.1
Scranton.	36	- 1	3.7	1.1
R.I. Providence . .	37	0	8.1	4.1
S.C. Charleston . .	55	- 2	8.0	3.2
Columbia.	50	- 4	10.7	6.0
Greenville. . . .	48	- 3	11.4	6.1
S.D. Aberdeen . . .	26	- 1	.9	0
Huron	30	1	.8	- .3
Rapid City. . . .	31	0	.9	- .1
Sioux Falls . . .	32	2	.7	- .7
TENN.Chattanooga. .	48	- 2	16.3	10.7
Knoxville	48	- 2	8.7	3.8
Memphis	49	- 2	10.9	5.8
Nashville	46	- 3	7.3	2.3
TEX.Abilene	55	0	.7	- .3
Amarillo.	44	- 2	1.4	.6
Austin.	61	1	3.2	1.3
Beaumont.	61	1	6.8	3.7
Brownsville . . .	70	2	.1	- .6
Corpus Christi. .	68	3	.3	- .8
Del Rio	64	1	.3	- .4
El Paso	54	- 1	.3	- .1
Fort Worth. . . .	54	- 1	1.2	- 1.3
Galveston	60	- 1	3.9	1.3
Houston	61	0	5.4	2.7
Lubbock	51	2	.2	- .7
Midland	52	- 2	T	0
San Angelo. . . .	55	- 2	.7	- .2
San Antonio . . .	62	1	1.0	- .5
Victoria.	63	1	2.0	.1
Waco.	56	- 1	2.1	- .3
Wichita Falls . .	50	- 3	.6	- 1.0
UTAH.Blanding . . .	37	- 1	1.4	.5
Salt Lake City. .	42	2	2.5	.9
VT.Burlington . . .	31	2	2.4	.5
VA.Lynchburg. . . .	44	- 2	5.0	1.5
Norfolk	47	- 1	4.4	1.0
Richmond.	47	0	5.5	2.1
Roanoke	45	0	5.4	2.1
WASH.Colville . . .	38	1	2.0	.9
Omak.	39	0	.8	0
Quillayute. . . .	43	1	10.5	- .3
Seattle-Tacoma. .	44	0	2.1	- 1.5
Spokane	39	1	.9	- .6
Walla Walla . . .	45	- 1	1.9	.5
Yakima.	44	2	.3	- .3
W.VA.Beckley. . . .	39	- 1	3.7	- .5
Charleston. . . .	42	- 3	5.3	1.3
Huntington. . . .	42	- 2	5.0	.9
Parkersburg . . .	40	- 3	4.7	.9
WISC.Green Bay. . .	27	- 2	1.0	- .7
La Crosse	30	- 1	.7	- 1.3
Madison	28	- 2	.7	- 1.2
Milwaukee	31	0	.8	- 1.4
WYO.Casper.	31	0	1.2	.3
Cheyenne.	33	1	1.4	.3
Lander.	33	2	1.5	.3
Sheridan.	31	0	1.3	.1
P.R.San Juan. . . .	79	3	1.5	- .5

Based on 1941-70 normals

Heating Degree Days (Base 65° F.)

March 1980

ALA.Birmingham	412	MAINE,Caribou	1265	OKLA.Okla. City	572
Mobile	160	Portland	1018	Tulsa	513
Montgomery	274	MD.Baltimore	723	OREG.Astoria	617
ALASKA,Anchorage	1164	MASS.Boston	866	Burns U	918
Barrow	2380	Chatham	886	Medford	620
Fairbanks	1475	MICH.Alpena	1201	Pendleton	728
Kodiak	880	Detroit	1036	Portland	575
Nome	1459	Flint	1079	Salem	627
ARIZ.Flagstaff	1009	Grand Rapids	1000	PA.Allentown	808
Phoenix	129	Houghton Lake	1237	Erie	1045
Tucson	226	Lansing	1081	Harrisburg	799
Winslow	678	Marquette U	1350	Philadelphia	763
Yuma	54	S. Ste. Marie	1314	Pittsburgh	906
ARK.Fort Smith	531	MINN.Duluth	1398	Scranton	895
Little Rock	505	Internatl Falls	1488	R.I.Providence	857
CALIF.Bakersfield	293	Minneapolis	1165	S.C.Charleston	321
Eureka U	500	Rochester	1185	Columbia	466
Fresno	343	St. Cloud	1286	Greenville	536
Los Angeles U	203	MISS.Jackson	337	S.DAK.Aberdeen	1213
Red Bluff	350	Meridian	325	Huron	1088
Stockton	345	Vicksburg U	--	Rapid City	1032
San Diego	104	MO.Columbia	803	Sioux Falls	1027
San Francisco	366	Kansas City	809	TENN.Chattanooga	526
COLO.Denver	828	St. Louis	798	Knoxville	529
Grand Junction	740	Springfield	685	Memphis	478
Pueblo	751	MONT.Billings	939	Nashville	571
CONN.Bridgeport	862	Glasgow	1145	TEX.Abilene	316
Hartford	915	Great Falls	1007	Amarillo	649
D.C.Washington	573	Havre	1120	Austin	168
FLA.Apalachicola	152	Helena	1039	Beaumont	151
Ft. Myers	41	Kalispell	990	Brownsville	51
Jacksonville	134	Miles City	1017	Corpus Christi	74
Key West	16	Missoula	935	Dallas	--
Daytona Beach	84	NEBR.Grand Island	946	Del Rio	119
Miami	39	Lincoln	912	El Paso	331
Orlando	61	Norfolk	966	Fort Worth	349
W. Palm Beach	50	North Platte	909	Galveston U	158
Tallahassee	169	Omaha	945	Houston	169
Tampa	64	Valentine	1063	Lubbock	436
GA.Atlanta	399	NEV.Ely	983	Midland	384
Augusta	385	Las Vegas	328	San Angelo	300
Macon	321	Reno	813	San Antonio	163
Savannah	257	Winnemucca	822	Victoria	135
IDAHO,Boise	736	N.H.Concord	1022	Waco	297
Lewiston	673	N.J.Atlantic City	746	Wichita Falls	460
Pocatello	888	Trenton U	747	UTAH,Milford	884
ILL.Cairo U	616	N.MEX.Albuquerque	576	Salt Lake City	723
Chicago	995	Roswell	419	VT.Burlington	1043
Moline	966	N.Y.Albany	974	VA.Lynchburg	652
Peoria	907	Binghamton	1022	Norfolk	564
Rockford	1073	Buffalo	1022	Richmond	541
Springfield	857	New York	764	Roanoke	656
IND.Evansville	751	Rochester	1003	WASH.Colville	822
Fort Wayne	1001	Syracuse	1007	Omak	--
Indianapolis	893	N.C.Asheville	573	Quillayute	661
South Bend	908	Charlotte	538	Seattle-Tacoma	634
IOWA,Burlington	920	Greensboro	565	Spokane	809
Des Moines	932	Hatteras R.	478	Walla Walla U	613
Dubuque	1086	Raleigh	564	Yakima	654
Sioux City	966	Wilmington	445	W.VA.Beckley	809
KANS.Concordia	846	N.DAK.Bismarck	1238	Charleston	707
Dodge City	779	Fargo	1363	Huntington	708
Goodland	921	Williston U	1216	Parkersburg U	779
Topeka	741	OHIO.Akron-Canton	925	WIS.Green Bay	1165
Wichita	723	Cincinnati U	814	Madison	1138
KY.Lexington	721	Cleveland	967	Milwaukee	1063
Louisville	713	Columbus	855	WYO.Casper	1048
LA.Baton Rouge	225	Dayton	901	Cheyenne	984
Lake Charles	194	Toledo	1005	Lander	1000
New Orleans	154	Youngstown	1008	Sheridan	1061
Shreveport	312				

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

Agricultural Weather Facility
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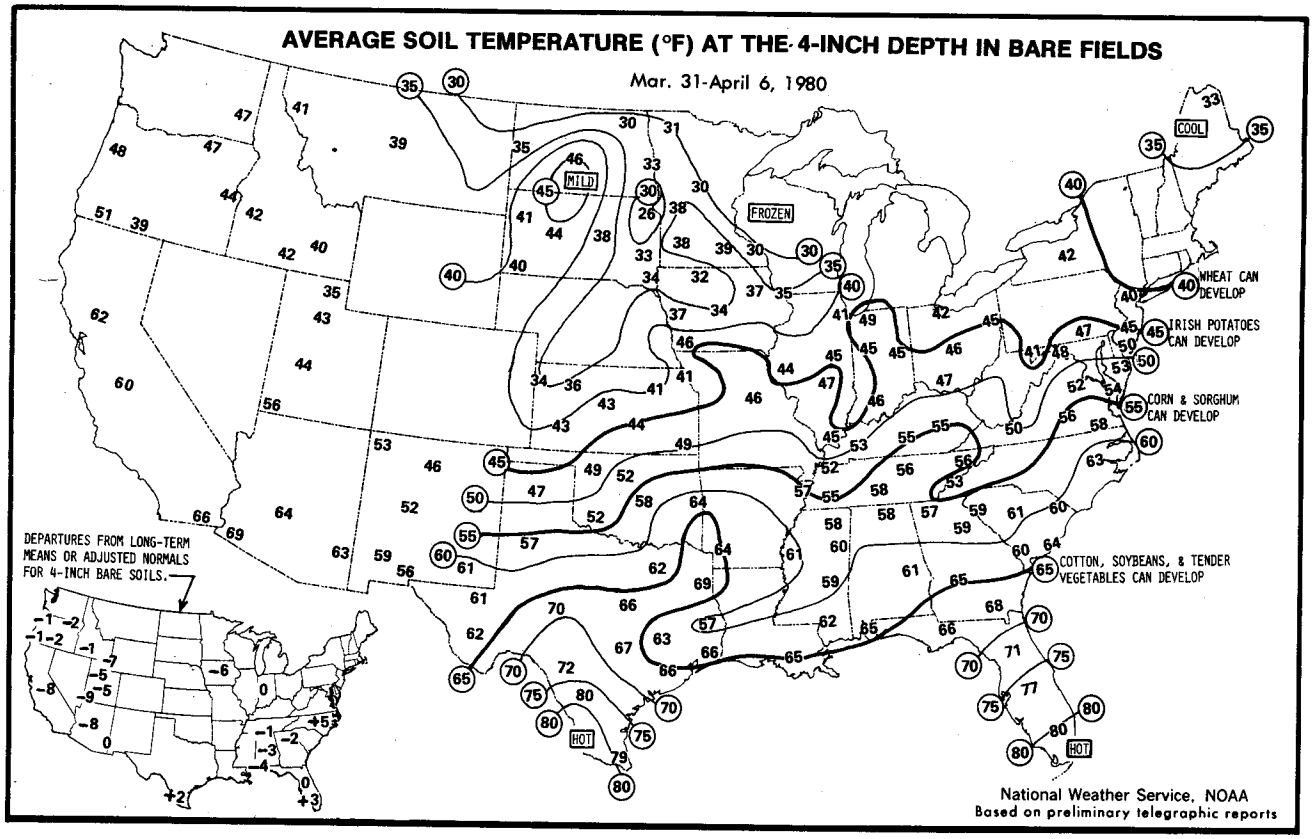

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