

# WEEKLY WEATHER AND CROP BULLETIN

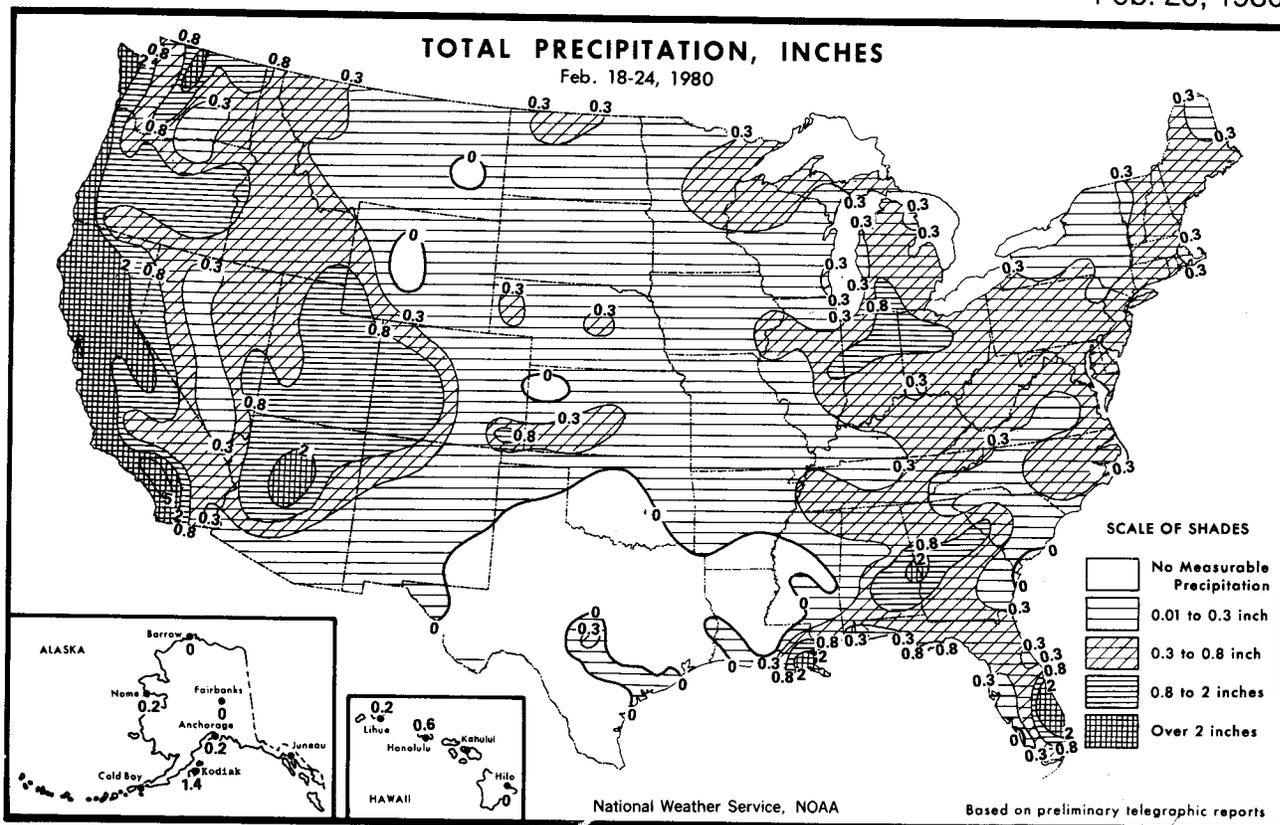
U.S. DEPARTMENT OF COMMERCE  
National Weather Service, NOAA

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

Volume 67, No. 9

Washington, D.C.

Feb. 26, 1980



## National Weather Summary

February 18 - 24

**HIGHLIGHTS:** A series of storms, which began the preceding week over the western United States, continued bringing rain through most of the week. Heavy rains drenched the coast and parts of Arizona, while snow accumulated in mountain areas. Little moisture fell in the midlands and was relatively light in the East.

The West Coast, Plateau Region, east side of the Rockies, upper Mississippi Valley, Deep South, and portions of the East Coast averaged 9 to 10 degrees above normal. Near-normal readings prevailed elsewhere.

On Monday, rain persisted along the already-saturated West Coast, especially in California.

Another 1 to 2 inches soaked parts of the area during the day, aggravating flooding. In the high elevations and portions further east, the rain combined with melting snow to trigger the flooding.

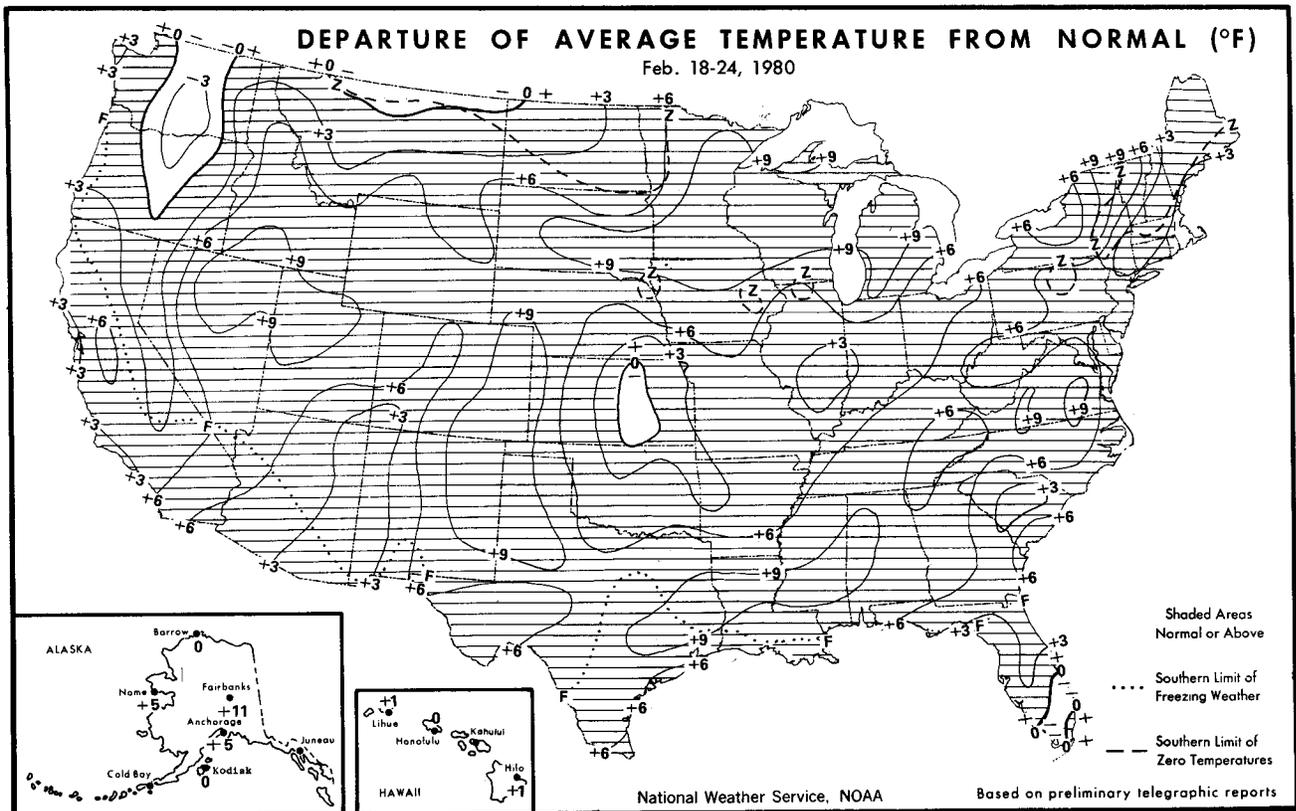
Three to 5 feet of snow fell in the Sierra Nevada Mountains, while Las Vegas, Nev., had recorded 2 inches of rain from the storms--seven times its average February amount.

Meantime, temperatures rose sharply in Colorado. Record readings included 73° at Pueblo and 63° at Colorado Springs; Alamosa knotted its high mark of 55°.

Heavy rains and snow continued to plague the soggy West Coast and extended to the Plateau Region on Tuesday.

Showers and thunderstorms rolled over southern California into Arizona, where moisture became snow in the northern sections of the State. Elsewhere, Sacramento accumulated an inch and one-third of rain, and Fresno weathered a tornado.

Los Angeles recorded a 6-day total of 12 inches of rain, and Chews Landing, in the mountains south of Monterey, scored a 4-day rainfall of more than 22 inches.



Warm air edged into Texas, where record temperatures showed 88° at Austin and 90° at San Antonio, which topped the 1971 mark by 7 degrees. Alpena, northeastern Michigan, at 37°, also tallied a record high reading.

On Wednesday, the rain, though lighter, persisted over the West Coast into Arizona.

Snow continued in the high elevations of California, Nevada, and Idaho. Over the past week, Mammoth Mountain, in the southern Sierra Nevadas, gathered 109 inches of snow.

Light rain stretched from the middle Mississippi Valley to the middle Great Lakes and Ohio and Tennessee Valleys.

Balmy temperatures spanned a region from central Texas through Mississippi. A sampling of record high readings included 83° at Austin, Tex., 89° at Waco, north central Texas, 85° at Shreveport, northwestern Louisiana, and 82° at Jackson, Miss.

Comparatively light rain dotted the West Coast on Thursday; another three-quarters inch of rain fell near Los Angeles. Snow fell in the mountains of California and the Plateau Region.

A low pressure system over the middle Mississippi Valley brought scattered rain and springlike temperatures from the Midwest to the Virginias.

Lafayette, western Indiana, noted three-quarters inch of rain, and golfball-size hail pelted Indianapolis.

The warm air spurred record temperatures once again; among them were Houston's 84°, Little Rock's 79°, Shreveport's 83°, and 67° at Roanoke, western Virginia.

While rain subsided in the West, thunderstorms rumbled along the Gulf Coast and in the Southeast, with snow falling in the Northeast on Friday.

A few points in California and Oregon reported less than an inch of rain. However, 1.5 inches

doused New Orleans, and hail peppered parts of Alabama. Up to 4 inches of snow fell from Minnesota through New England.

Record high readings again extended from Texas to Virginia. New marks included Houston's 84°, Shreveport's 86°, 76° at Huntsville, northern Alabama, 77° at Chattanooga, southeastern Tennessee, 68° at Asheville, western North Carolina, and 76° at Roanoke, Va.

Gloomy weather covered much of the Nation, but moisture was relatively light on Saturday.

North Carolina called in the most severe weather with several tornadoes and hail. The heaviest precipitation showed about a half-inch of rain at Palm Beach, eastern Florida, and 3 inches of snow at Dodge City, western Kansas.

Record warmth ranged from the Gulf Coast States up through the Tennessee Valley and the Atlantic Seaboard to the Carolinas. New high readings included 84° at Meridian, east central Mississippi, 82° at Montgomery, Ala., Chattanooga's 77°, 81° at Charleston, southern South Carolina, and 74° at Asheville, N.C. The 79° at Atlanta not only set a record, but tied the warmest-ever February reading there.

On Sunday, two low pressure systems dumped snow in the midlands. Three to 6 inches of snow blanketed sections of Kansas, South Dakota, and Iowa.

Light rain was scattered over Florida and eastern Pennsylvania, where Scranton/Wilkes Barre notched about three-quarters inch. In Florida, West Palm Beach gathered 1.6 inches of rain.

Warm air still hovered over the Gulf Coast and Southeast. Record high readings showed 80° at Meridian, Miss., and 79° at Columbus, west central Georgia. Charleston, S.C., hit a record-equaling 79°.



## National Agricultural Summary

February 18 - 24

**HIGHLIGHTS:** Above-normal temperatures melted most of the snowcover throughout the Great Plains and the Corn Belt. The melted snow provided needed moisture to the winter wheat crop which now lay exposed. Heavy rains along the Pacific Coast, particularly in southern California and extending into Arizona, damaged fruits and truck crops and limited harvest activities. Much of the Nation east of the Mountain States received very little precipitation. Southern farmers had only 1 to 3 days suitable for fieldwork; wet soils curtailed land preparation. Farmers in a few southern areas were able to plant limited acreages of corn and sorghum. Winter wheat generally rated fair to good; mild temperatures encouraged growth in southern areas, and farmers began fertilizing. Pastures also showed improvement resulting from the above-normal temperatures across the South. Fruit growers continued to prune mature trees, set out new trees, and apply dormant sprays. Vegetable activity continued from Texas eastward through Florida, but rains interrupted schedules in the Southwest.

**SMALL GRAINS:** Winter wheat generally rated fair to good as above-normal temperatures melted snowcover which supplied soil moisture and encouraged early spring growth in southern areas. The only snowcover of any consequence in winter wheat production areas extended from the Dakotas southeastward into Illinois and into some parts of the Northwest. Farmers spread fertilizer as far north as Virginia, where fields were dry enough to support equipment. Kansas snowmelt provided adequate soil moisture; ranchers moved livestock off wheat pastures. Light precipitation improved dry soil conditions in the Dakotas. Oklahoma winter wheat had no snowcover. Texas small grains, responding favorably to warm temperatures, provided additional grazing on the low Plains and Edwards Plateau. High winds eroded some wheat stands on the Plains, but overall damage proved minimal. Arizona wheat reached the jointing stage; early stands headed. New Mexico's irrigated wheat rated good, providing moderate grazing; dry-land stands scored only poor to fair. Some California stands became waterlogged and yellowed; losses from drowning out in low spots were expected. Oregon wheat rated good, but rains delayed timely sprayings. Winter wheat throughout the Corn Belt rated good but lost most of its snowcover.

**OTHER CROPS:** Rains delayed cotton land preparation in California and Arizona. In Texas, a few early cotton fields were planted in the lower Rio Grande Valley. Farmers delayed land preparation on the Plains because of high winds. Farmers in the lower Blacklands and south central Texas applied fertilizers and preplant herbicides.

Farmers in Florida, Georgia, and Texas planted corn.

Tobacco growers prepared and planted seedbeds. Plants in extreme southern areas rated good.

The Florida sugarcane harvest was almost complete.

**FRUITS & NUTS:** Deciduous fruit growers pruned trees, applied dormant sprays, and planted new trees. California rains hampered bee activity in almond groves, which may reduce production because of poor pollination. Stone fruit crops began blooming. Dates developed mold problems.

Peaches began blooming in southern Texas; buds swelled in northern areas. Growers pruned and sprayed pecan trees.

Florida citrus trees rated excellent with good moisture available in most areas. Trees showed new growth and pinhead bloom buds; however, no blooms were open. Harvests of early and midseason oranges advanced actively. Texas citrus harvests resumed following recent rains. Arizona growers harvested Valencias, grapefruit, and tangerines as groves dried from the recent rains. California rains delayed citrus harvests and caused some quality problems with Navels.

**VEGETABLES:** Florida vegetable crops varied from poor to excellent. Both planting and harvest activities advanced actively as weather permitted. Overall vegetable shipments increased 11% from the previous week; only supplies of cucumbers, peppers, and strawberries declined; other crops held steady or increased. Texas growers harvested cabbage, carrots, lettuce, and spinach. Newly-planted crops grew well with the exception of melons, which were slow to germinate, in the lower Rio Grande Valley. Land preparation and planting continued throughout all areas of Texas. California rains stopped field preparation and planting activities throughout most of the State. Harvest activity was restricted to breaks between rainstorms and advanced slowly because of muddy fields. Supplies of vegetables should increase as fields dry; however, quality was reduced. Some California strawberry growers sustained heavy losses to the rain.

**PASTURES & LIVESTOCK:** Grasslands across the southern half of the Nation generally rated fair to good and improving, thanks to the adequate soil moisture and mild temperatures. Pastures began supplying increasing amounts of forage reducing the need for supplemental feeding. Arizona rangelands greened. California grassland rated good to excellent; stock ponds were full and overflowing. Feed and hay supplies proved adequate except in a few isolated areas. Cattle rated fair to good showing very little stress except in areas of widely fluctuating temperatures. Calving and lambing extended throughout all areas of the Nation; no unusual losses were reported.

Weather Data for the Week Ending Feb. 24, 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-hour, in.	Total, in., since Dec. 3	Pct. normal since Dec. 3	Average maximum	Average minimum	90 and above	32 and below	Precipitation		
																.01 inch or more	.50 inch or more	
ALA. Birmingham.	69	44	82	17	57	9	.2	-1.2	.2	10.7	74	51	0	1	2	0		
Mobile.	70	53	81	26	62	7	T	-1.3	T	10.5	73	84	58	0	1	1		
Montgomery.	72	49	82	26	60	9	1.1	-.1	.9	10.2	82	88	48	0	1	2		
ALASKA. Anchorage.	31	17	46	6	24	5	.2	0	.2	3.1	124	77	61	0	7	3		
Barrow.	-12	-20	9	-25	-19	0	0	0	0	.4	50	67	67	0	7	0		
Fairbanks.	22	0	35	-10	11	11	0	-.1	0	.5	38	59	43	0	7	0		
Kodiak.	39	25	43	9	32	1	1.4	.2	.6	14.8	106	77	70	0	6	6		
Nome.	18	3	28	-3	10	5	.2	0	.1	3.0	136	72	56	0	7	3		
ARIZ. Flagstaff.	41	29	45	18	35	4	4.1	3.7	1.9	15.9	300	92	63	0	6	5		
Phoenix.	69	52	75	47	61	3	.6	.5	.5	3.9	229	86	45	0	0	4		
Tucson.	68	47	72	41	57	3	T	.2	T	3.8	173	79	38	0	2	0		
Winslow.	53	36	57	29	44	4	.6	.5	.6	3.1	258	--	--	0	2	3		
Yuma.	75	53	77	47	64	4	.2	.1	.1	1.3	108	72	37	0	0	3		
ARK. Fort Smith.	61	32	75	20	47	2	T	-.8	T	4.3	55	91	39	0	2	1		
Little Rock.	61	40	79	21	50	4	.1	-1.0	T	7.1	60	84	48	0	1	2		
CALIF. Bakersfield.	66	50	71	44	58	4	.4	.2	.3	4.4	176	--	--	0	0	3		
Eureka.	60	48	67	43	54	5	2.2	1.0	1.0	10.2	56	89	61	0	0	5		
Fresno.	64	46	70	39	55	4	1.9	1.5	1.5	7.8	159	95	59	0	0	4		
Los Angeles.	64	54	68	50	59	1	2.0	1.3	1.2	16.8	221	89	71	0	0	4		
Red Bluff.	61	49	64	44	55	4	3.0	2.3	.7	15.6	143	89	66	0	0	5		
San Diego.	69	59	72	53	64	7	2.7	2.3	1.4	10.1	210	86	72	0	0	5		
San Francisco.	61	50	64	46	56	4	3.4	2.7	1.7	15.8	145	88	63	0	0	6		
Stockton.	65	49	70	41	57	7	1.4	.9	.9	7.5	104	--	60	0	0	5		
COLO. Denver.	49	31	59	21	40	7	.1	-.1	.1	2.1	162	70	43	0	3	1		
Grand Junction.	50	34	59	29	42	7	.9	.7	.5	1.9	136	94	57	0	1	6		
Pueblo.	62	28	73	18	45	9	T	-.1	T	1.3	108	--	27	0	5	1		
CONN. Bridgeport.	41	28	53	18	35	3	.3	-.4	.3	4.5	56	70	46	0	5	2		
Hartford.	41	20	49	6	30	2	.3	-.5	.3	3.6	37	74	35	0	7	2		
D.C. Washington.	56	36	65	19	46	8	.4	-.2	.3	4.5	59	83	49	0	2	4		
FLA. Apalachicola.	68	51	76	33	60	3	.8	-.2	.5	9.5	100	89	69	0	0	4		
Daytona Beach.	77	53	84	45	65	5	.1	-.7	.1	4.8	76	93	45	0	0	1		
Ft. Myers.	78	55	84	48	67	2	0	-.6	0	8.2	174	90	57	0	0	0		
Jacksonville.	73	50	82	33	61	4	.4	-.5	.4	5.6	67	77	54	0	0	1		
Key West.	74	66	82	57	70	2	.4	0	.4	3.1	65	88	72	0	0	1		
Miami.	77	62	83	53	69	1	.4	-.1	.4	5.8	104	92	63	0	0	1		
Orlando.	78	53	85	42	65	4	.6	-.2	.3	4.9	74	89	47	0	0	2		
Tallahassee.	73	49	83	26	61	5	.7	-.6	.7	11.6	98	91	56	0	1	1		
Tampa.	74	54	80	41	64	2	.2	-.6	.1	5.0	74	92	62	0	0	3		
W. Palm Beach.	78	56	84	49	67	1	2.7	2.0	1.7	10.7	153	97	59	0	0	4		
GA. Atlanta.	64	43	79	21	53	7	.5	-.7	.4	9.0	73	76	53	0	2	3		
Augusta.	66	39	79	20	52	3	.6	-.4	.6	9.0	91	95	42	0	2	2		
Macon.	71	46	81	21	59	7	.8	-.4	.8	7.7	67	82	50	0	2	1		
Savannah.	71	50	82	31	61	8	0	-.8	0	7.0	83	77	45	0	1	0		
HAWAII. Hilo.	--	--	--	--	72	1	0	-.3	0	10.9	31	--	--	0	0	0		
Honolulu.	80	65	81	59	73	0	.6	0	.3	11.5	114	90	55	0	0	2		
Kahului.	--	--	--	--	74	2	1.5	.9	--	--	--	--	--	0	0	--		
Lihue.	--	--	--	--	72	1	.2	-.8	--	5.5	34	--	--	0	0	0		
IDAHO. Boise.	49	37	53	32	43	6	.8	.5	.2	3.5	88	85	59	0	1	6		
Lewiston.	52	36	54	32	44	4	.5	.3	.3	3.7	112	88	56	0	1	3		
Pocatello.	45	33	50	25	39	8	.8	.6	.3	4.7	174	82	56	0	3	6		
ILL. Cairo.	53	39	67	21	46	5	.3	-.7	.1	7.3	68	--	--	0	1	3		
Chicago.	40	29	46	7	34	7	.2	-.2	.1	4.1	80	86	70	0	4	2		
Moline.	37	27	40	3	32	5	.4	0	.3	4.8	104	82	71	0	4	2		
Peoria.	38	27	42	2	33	4	.1	-.3	.1	3.9	81	88	74	0	4	3		
Rockford.	36	25	38	0	31	5	.2	-.1	.2	3.8	84	91	69	0	5	2		
Springfield.	40	29	46	10	35	3	.1	-.4	.1	4.1	82	80	72	0	4	2		
IND. Evansville.	48	33	61	14	41	4	.3	-.6	.3	6.0	63	83	71	0	2	3		
Ft. Wayne.	36	27	43	2	32	3	.8	.3	.7	4.9	75	75	71	0	4	2		
Indianapolis.	42	30	50	5	36	4	.4	-.2	.3	5.5	74	86	70	0	3	2		
South Bend.	41	31	47	7	36	8	.7	.2	.5	6.1	91	90	76	0	2	2		
IOWA. Burlington.	40	28	45	8	34	5	.5	.1	.5	3.7	82	--	--	0	4	1		
Des Moines.	38	29	40	13	34	8	.1	-.2	.1	2.4	80	85	77	0	5	2		
Dubuque.	36	26	39	4	31	7	.2	-.1	.1	4.0	89	87	76	0	3	2		
Sioux City.	37	27	40	17	32	7	.2	-.1	.1	1.0	53	89	77	0	6	2		
KANS. Concordia.	39	27	48	17	33	0	.2	-.1	.1	2.6	130	95	72	0	6	2		
Dodge City.	50	32	69	25	41	5	.7	.5	.5	3.1	238	95	64	0	4	2		
Goodland.	52	31	62	30	42	9	T	-.1	T	2.2	183	89	57	0	6	0		
Topeka.	43	31	53	19	37	2	.1	-.2	.1	2.4	71	85	66	0	5	1		
Wichita.	44	29	58	20	36	1	.1	-.2	.1	4.6	164	88	75	0	4	1		
KY. Lexington.	50	36	62	14	43	6	.4	-.5	.2	6.6	65	86	58	0	2	3		
Louisville.	52	34	64	14	43	6	.3	-.6	.3	6.6	69	87	59	0	2	3		

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending Feb. 24, 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., '3 since Dec. 3	Pct. normal since Dec. 3	Average maximum	Average minimum	Temperature °F		Precipitation		
														90 and above	32 and below	.01 inch or more	.50 inch or more	
LA. Baton Rouge . . .	72	54	81	31	63	8	T	-1.3	T	8.8	66	89	58	0	1	0	0	
Lake Charles . . .	71	55	77	36	63	7	T	-1.1	T	10.8	82	99	68	0	0	0	0	
New Orleans . . .	72	54	79	34	63	7	T	-1.1	T	12.7	93	88	63	0	0	0	0	
Shreveport . . .	77	46	86	27	61	10	T	-1.0	T	10.3	93	83	31	0	1	0	0	
MAINE. Caribou . . .	26	4	34	-8	15	1	T	.3	-	-	5.5	86	76	35	0	0	0	
Portland . . .	38	17	47	4	27	3	T	.4	-	-	4.8	47	66	46	0	0	0	
MD. Baltimore . . .	53	29	62	12	41	5	T	.4	-	.4	4.3	52	83	43	0	0	0	
MASS. Boston . . .	42	26	53	15	34	3	T	.3	-	.3	3.0	29	65	41	0	0	0	
Chatham . . .	42	29	49	16	36	-	T	.1	-	.1	9.2	88	85	65	0	0	0	
MICH. Alpena . . .	34	23	39	12	29	10	T	.3	-	.2	3.4	71	-	-	0	0	0	
Detroit . . .	38	28	42	5	33	6	T	.5	-	.5	3.8	69	87	69	0	0	0	
Flint . . .	36	29	44	12	33	8	T	.6	-	.4	4.3	90	86	69	0	0	0	
Grand Rapids . . .	38	31	43	17	34	9	T	1.2	-	1.1	6.1	115	83	74	0	0	0	
Houghton Lake . . .	35	22	37	7	29	9	T	.5	-	.2	4.0	91	83	70	0	0	0	
Lansing . . .	37	27	44	10	32	7	T	.6	-	.5	3.8	75	92	75	0	0	0	
Marquette . . .	30	17	37	3	24	3	T	.3	-	.1	5.0	102	89	76	0	0	0	
Muskegon . . .	36	29	39	20	32	7	T	.2	-	.2	6.3	117	79	74	0	0	0	
S. Ste. Marie . . .	33	21	36	2	27	11	T	.6	-	.2	6.3	117	79	74	0	0	0	
MINN. Duluth . . .	28	18	35	5	23	9	T	.3	-	.1	2.3	70	88	69	0	0	0	
Internatl. Falls . . .	25	11	32	-2	18	9	T	.3	-	.1	1.9	83	75	59	0	0	0	
Minneapolis . . .	34	25	38	15	29	11	T	.3	-	.1	1.8	86	86	66	0	0	0	
Rochester . . .	33	25	36	13	29	10	T	.3	-	.1	2.4	150	86	76	0	0	0	
St. Cloud . . .	32	20	37	9	26	11	T	.3	-	.2	2.1	100	85	-	0	0	0	
MISS. Jackson . . .	75	46	82	19	60	10	T	-1.2	-	14.7	111	96	45	0	0	0		
Meridian . . .	74	48	84	20	61	10	T	-1.3	-	13.1	97	88	41	0	0	0		
MO. Columbia . . .	47	32	62	13	40	5	T	-1.4	-	3.0	63	84	62	0	0	0		
Kansas City . . .	43	31	51	17	37	3	T	-1.4	-	2.8	70	78	61	0	0	0		
St. Louis . . .	47	35	63	17	41	4	T	-1.6	-	3.9	72	90	74	0	0	0		
Springfield . . .	52	34	68	20	43	5	T	.1	-	.5	4.7	78	76	52	0	0	0	
MONT. Billings . . .	45	27	53	24	36	7	T	.2	-	.0	2.0	125	84	49	0	0	0	
Glasgow . . .	26	12	29	6	19	2	T	-1.1	-	.6	50	98	80	0	0	0		
Great Falls . . .	42	17	50	13	30	4	T	.2	-	.0	1.8	86	82	50	0	0	0	
Havre . . .	30	7	38	-3	18	1	T	.2	-	.1	1.8	87	91	60	0	0	0	
Helena . . .	39	18	47	11	28	3	T	.2	-	.1	1.9	158	90	59	0	0	0	
Kalispell . . .	38	20	44	7	29	3	T	.4	-	.3	4.6	115	92	72	0	0	0	
Miles City . . .	29	16	46	1	27	4	T	-1.1	-	.8	67	92	65	0	0	0		
Missoula . . .	41	29	44	23	35	6	T	.2	-	.0	3.0	97	91	72	0	0	0	
NEBR. Grand Island . . .	41	27	50	19	34	5	T	-1.1	-	.1	1.8	120	94	71	0	0	0	
Lincoln . . .	38	27	48	16	32	3	T	-1.1	-	.1	2.0	111	92	78	0	0	0	
Norfolk . . .	38	27	47	20	33	7	T	-1.1	-	.1	1.2	75	91	76	0	0	0	
N. Platte . . .	46	28	56	22	37	8	T	.1	-	.0	1.6	133	85	60	0	0	0	
Omaha . . .	37	27	44	14	32	2	T	.2	-	.1	1.5	75	95	90	0	0	0	
Valentine . . .	46	24	62	15	35	10	T	.1	-	.0	1.0	83	98	59	0	0	0	
NEV. Ely . . .	45	26	51	22	36	7	T	.8	-	.7	2.6	186	83	49	0	0	0	
Las Vegas . . .	64	47	69	41	56	5	T	.2	-	.1	3.8	317	67	36	0	0	0	
Reno . . .	48	32	51	25	40	2	T	1.3	-	1.1	6.5	217	89	50	0	0	0	
Winnemucca . . .	53	35	57	29	44	9	T	.1	-	.1	2.6	108	66	44	0	0	0	
N.H. Concord . . .	40	11	50	-10	25	2	T	.4	-	.2	3.2	42	84	48	0	0	0	
N.J. Atlantic City . . .	49	27	58	10	38	3	T	.2	-	.7	5.5	54	93	46	0	0	0	
Trenton . . .	47	31	57	17	39	5	T	.5	-	.2	5.1	64	-	-	0	0	0	
N.MEX. Albuquerque . . .	60	34	66	28	47	5	T	.1	-	.0	2.4	200	73	32	0	0	0	
Roswell . . .	67	40	73	26	53	9	T	.0	-	.1	0	1.4	117	-	-	0	0	0
N.Y. Albany . . .	38	18	46	-1	28	3	T	.3	-	.3	2.4	36	87	54	0	0	0	
Binghamton . . .	40	24	49	5	32	8	T	.5	-	.1	3.9	55	77	56	0	0	0	
Buffalo . . .	39	27	47	13	33	8	T	.2	-	.4	5.3	69	82	61	0	0	0	
New York . . .	44	32	53	19	38	4	T	.3	-	.5	5.6	64	74	49	0	0	0	
Rochester . . .	37	24	46	10	31	5	T	.1	-	.5	4.7	71	90	63	0	0	0	
Syracuse . . .	40	21	50	1	30	5	T	.2	-	.5	4.3	55	84	51	0	0	0	
N.C. Asheville . . .	61	33	74	12	47	7	T	-1.0	-	T	4.4	44	93	42	0	0	0	
Charlotte . . .	62	37	76	17	50	5	T	-1.0	-	T	7.4	73	76	42	0	0	0	
Greensboro . . .	62	37	73	13	49	8	T	.5	-	.3	6.6	74	84	39	0	0	0	
Hatteras . . .	58	41	69	26	50	3	T	.2	-	.9	15.3	124	90	60	0	0	0	
Raleigh . . .	64	36	79	12	50	7	T	.4	-	.4	6.8	76	99	50	0	0	0	
Wilmington . . .	65	42	78	19	54	5	T	.3	-	.6	8.0	87	84	47	0	0	0	
N.DAK. Bismarck . . .	28	10	34	-4	19	3	T	.2	-	.1	1.4	117	88	67	0	0	0	
Fargo . . .	25	10	31	-5	17	4	T	.1	-	.0	2.2	183	89	76	0	0	0	
Williston . . .	27	5	33	-7	16	0	T	.2	-	.1	.9	75	87	58	0	0	0	
OHIO. Akron-Canton . . .	42	29	54	5	36	7	T	.7	-	.1	4.0	74	75	60	0	0	0	
Cincinnati . . .	45	30	56	4	38	3	T	.1	-	.7	5.9	67	88	58	0	0	0	
Cleveland . . .	40	29	50	3	34	6	T	.5	-	.1	6.1	91	87	69	0	0	0	
Columbus . . .	43	31	55	9	37	6	T	.5	-	.1	4.6	65	78	65	0	0	0	
Dayton . . .	42	29	51	6	36	4	T	.4	-	.2	5.6	82	87	63	0	0	0	
Toledo . . .	38	28	43	4	33	5	T	.5	-	.0	4.0	71	83	75	0	0	0	
Youngstown . . .	40	28	51	6	34	6	T	.5	-	.1	6.5	87	77	58	0	0	0	

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending Feb. 24, 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 Dec. 3	Pct. normal since Dec. 3	Average maximum	Average minimum	Temperature °F		Precipitation		
														90 and above	32 and below	.01 inch or more	.50 inch or more	
OKLA.Okla. City . . .	60	35	78	25	47	5	T	-.4	T	5.4	150	83	40	0	2	0	0	
Tulsa . . . . .	60	36	76	25	48	5	T	-.4	T	3.7	79	80	50	0	1	1	0	
OREG.Astoria . . . . .	52	41	57	32	47	3	2.0	.1	1.2	24.3	91	82	72	0	1	6	1	
Burns . . . . .	42	27	48	21	34	2	.9	.6	.4	5.1	113	94	73	0	6	6	0	
Medford . . . . .	56	38	65	29	47	5	.5	0	.2	5.6	64	86	54	0	1	5	0	
Pendleton . . . . .	49	32	57	29	40	0	.3	0	.2	4.2	98	95	70	0	4	4	0	
Portland . . . . .	51	38	54	32	45	1	.7	-.3	.4	17.2	114	100	71	0	1	4	0	
Salem . . . . .	53	37	58	29	45	1	.6	.5	.3	15.0	86	94	69	0	2	4	0	
PA.Allentown . . . . .	43	23	50	7	33	2	.4	.3	.4	4.2	48	85	55	0	3	1	0	
Erie . . . . .	38	27	46	9	33	5	.6	0	.3	7.4	106	--	--	0	6	4	0	
Harrisburg . . . . .	49	26	55	9	37	4	.6	0	.6	3.2	43	78	44	0	3	2	1	
Philadelphia . . . . .	48	30	59	16	39	4	.5	-.2	.5	5.0	63	85	51	0	3	1	0	
Pittsburgh . . . . .	46	28	62	4	37	7	.7	-.1	.3	5.1	71	81	45	0	3	4	0	
Scranton . . . . .	41	25	49	6	33	5	.2	-.3	.2	2.7	44	74	52	0	3	3	0	
R.I.Providence . . . . .	44	24	55	9	34	4	.4	-.5	.4	4.4	43	74	45	0	5	1	0	
S.C.Charleston . . . . .	70	45	81	19	58	6	T	-.9	T	9.8	115	83	45	0	1	0	0	
Columbia . . . . .	65	36	78	16	50	2	.3	-.7	.3	8.1	82	95	42	0	2	2	0	
Greenville . . . . .	61	37	76	16	49	4	.1	1.1	T	6.9	59	78	45	0	2	2	0	
S.DAK.Aberdeen . . . . .	30	17	35	0	23	6	.1	-.1	.1	1.1	79	86	75	0	7	2	0	
Huron . . . . .	36	23	37	9	29	9	.1	-.1	.1	.7	47	87	76	0	6	2	0	
Rapid City . . . . .	45	26	56	19	35	8	.1	0	.1	.7	58	87	61	0	7	3	0	
Sioux Falls . . . . .	35	25	38	12	30	9	.2	-.1	.2	.5	25	87	86	0	4	2	0	
TENN.Chattanooga . . . . .	60	38	77	18	49	6	.5	-.8	.3	8.7	58	80	50	0	2	2	0	
Knoxville . . . . .	60	39	76	16	50	6	.1	1.1	.1	9.3	71	--	--	0	2	1	0	
Memphis . . . . .	60	42	75	20	51	6	.1	1.1	.1	9.2	68	79	55	0	1	1	0	
Nashville . . . . .	58	39	73	15	49	6	.1	1.0	.1	9.2	72	82	56	0	1	3	0	
TEX.Abilene . . . . .	69	46	80	31	58	8	0	-.2	0	4.1	146	63	30	0	1	0	0	
Amarillo . . . . .	62	37	68	26	50	9	0	-.1	0	1.3	87	77	30	0	2	0	0	
Austin . . . . .	79	47	88	35	63	8	T	-.8	T	6.6	97	74	29	0	0	0	0	
Beaumont . . . . .	74	55	82	36	65	9	T	1.0	T	9.1	75	95	63	0	0	0	0	
Brownsville . . . . .	77	58	84	42	68	4	T	-.4	T	4.3	105	91	58	0	0	0	0	
Corpus Christi . . . . .	82	53	89	39	68	7	T	-.5	T	3.4	68	--	49	0	0	0	0	
Del Rio . . . . .	83	45	91	27	64	7	T	-.3	--	2.6	137	69	16	2	1	0	0	
El Paso . . . . .	67	45	72	35	56	6	.1	0	.1	1.4	117	65	27	0	0	1	0	
Fort Worth . . . . .	71	44	86	35	57	8	0	-.6	0	6.1	109	76	34	0	0	0	0	
Galveston . . . . .	68	55	72	40	61	4	0	-.6	0	10.6	123	92	74	0	0	0	0	
Houston . . . . .	79	52	88	39	66	9	T	-.9	T	12.7	121	93	47	0	0	0	0	
Lubbock . . . . .	67	40	73	29	54	10	0	-.1	0	2.2	183	68	23	0	1	0	0	
Midland . . . . .	69	40	76	22	55	6	0	-.1	0	3.7	308	74	24	0	1	0	0	
San Angelo . . . . .	72	43	80	26	57	6	0	-.2	0	4.2	200	69	28	0	1	0	0	
San Antonio . . . . .	83	44	90	32	64	8	0	-.5	0	4.5	90	76	26	1	1	0	0	
Victoria . . . . .	78	50	84	37	64	6	T	-.6	T	8.4	150	97	49	0	0	0	0	
Waco . . . . .	75	44	89	35	59	7	0	-.6	0	8.2	141	78	32	0	0	0	0	
Wichita Falls . . . . .	67	38	82	27	52	5	0	-.3	0	4.3	130	79	35	0	1	0	0	
UTAH.Blanding . . . . .	45	29	55	21	37	3	1.6	1.4	.7	7.4	239	82	66	0	5	5	2	
Salt Lake City . . . . .	51	38	58	32	45	10	1.7	1.4	.8	5.5	149	88	55	0	1	5	1	
VT.Burlington . . . . .	37	21	48	12	29	9	.3	-.1	.3	2.7	52	68	51	0	7	2	0	
VA.Lynchburg . . . . .	60	34	72	9	47	8	.2	-.5	.2	6.4	79	85	--	0	2	2	0	
Norfolk . . . . .	57	36	72	19	47	5	.6	-.2	.5	8.2	90	90	49	0	2	4	0	
Richmond . . . . .	62	35	72	16	49	9	.2	-.6	.1	8.7	104	93	44	0	2	3	0	
Roanoke . . . . .	62	34	76	14	48	9	.1	-.7	.1	5.8	71	82	28	0	3	2	0	
WASH.Colville . . . . .	41	27	44	18	34	1	1.0	.7	.5	6.0	111	--	--	0	4	3	1	
Omak . . . . .	39	24	42	11	31	-	1	.7	.4	3	4.7	109	81	61	0	5	3	0
Quillayute . . . . .	53	36	60	25	45	3	2.0	-.9	1.5	40.5	102	95	63	0	2	4	1	
Seattle-Tacoma . . . . .	52	39	59	31	45	2	.7	-.3	.4	16.3	109	82	61	0	2	4	0	
Spokane . . . . .	45	30	52	24	38	4	.4	0	.3	4.7	73	93	70	0	4	3	0	
Walla Walla . . . . .	49	34	58	30	42	0	.4	-.1	.2	4.0	77	94	70	0	3	4	0	
Yakima . . . . .	41	30	44	21	35	-	2	.1	T	4.1	128	90	75	0	4	2	0	
W.VA.Beckley . . . . .	51	31	67	3	41	8	.5	-.4	.3	5.9	61	81	49	0	2	4	0	
Charleston . . . . .	53	33	71	6	43	5	.8	0	.3	7.2	77	77	50	0	2	3	0	
Huntington . . . . .	52	33	71	10	43	6	.6	-.1	.3	6.6	80	75	48	0	2	3	0	
Parkersburg . . . . .	49	33	67	12	41	5	.7	0	.3	4.5	56	88	53	0	2	3	0	
WISC.Green Bay . . . . .	34	24	40	4	29	10	.2	-.1	.2	3.7	119	94	68	0	6	3	0	
La Crosse . . . . .	36	29	40	13	32	11	.1	-.1	.1	2.2	88	100	82	0	4	2	0	
Madison . . . . .	36	25	39	4	30	8	.2	-.1	.1	3.3	92	86	67	0	5	2	0	
Milwaukee . . . . .	37	27	39	7	32	8	.4	-.1	.2	5.3	120	86	67	0	4	2	0	
WYO.Casper . . . . .	44	27	48	20	36	8	.1	0	.1	1.8	150	87	50	0	5	2	0	
Cheyenne . . . . .	43	27	51	18	35	6	T	-.1	T	5.0	417	67	43	0	6	1	0	
Lander . . . . .	49	20	55	10	35	8	T	-.2	T	3.7	285	78	40	0	7	0	0	
Sheridan . . . . .	41	21	53	16	31	4	.1	-.1	.1	1.5	88	87	56	0	7	1	0	
P.R.San Juan . . . . .	86	73	91	72	79	4	.3	-.3	.2	7.1	69	93	61	0	0	2	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 9° above normal; warmest 23d and 24th. Rainfall totaled 0.25 in. Most northern areas; 1.00 in. central; little or none southern areas.

Fieldwork: 2.8 days suitable. Soil moisture mostly surplus. Plowing 30% complete. Corn planting started. Pastures short; mostly fair. Stored feed supply inadequate. Wheat mostly good. Livestock fair to good.

**ARIZONA:** Heavy precipitation continued. Heaviest amounts central basin, Mogollon Rim, White Mountains. Measurements ranging 2.00 to 4.00 in. Snow level 6,500 ft, with quantities up to 25 in. Flooding continued Phoenix area, affected farmland mostly west of Phoenix. Temperatures 1 to 6° above normal.

Field activities again halted by rain, muddy fields. Small grains good growth, most past jointing, some early fields heading. Alfalfa hay growth very good. Sugarbeets good progress. Cotton, summer crops delayed, to resume shortly. Preparations, planting spring, summer crops standstill, wet weather. Valencia oranges very good progress, harvest beginning when rains came. Lemon harvest about finished. Harvest grapefruit, tangerine-types resume as conditions dry. Fuel supplies mostly adequate except southeast where diesel, gasoline mostly tight. Recent rains beneficial. Ranges greening rapidly. Cattle, calves mostly fair to good condition.

**ARKANSAS:** Temperatures averaged near normal northeast to quite warm south. Dry with some light rain mainly in north. Highest normal 50°, lowest 42°. Highest mean 59°, lowest 44°. Highest temperature 84°, lowest 7°. Most rainfall 0.22 in., least 0.

Cattle condition good. Cattle feeding continuing. Some grazing in south. Small grains made some growth. No fieldwork begun.

**CALIFORNIA:** Very wet but quite mild temperatures. Westerly storm track aimed right at central areas entire week and allowed a series of mid-latitude storms to inundate the State. Flooding and mud slides were problem throughout State with most serious problems occurring in south.

Heavy rains southern California inflicted sizeable losses to strawberries, truck crops, lemons, avocados. Rain hampering bee activity and almond blossom pollination; considerable crop reduction expected. Storms stopped field activities. Small grain progress generally good. Low lying fields flooded. Many others water standing low spots; concern additional chlorosis from saturated soil, standing water. Some drowning low spots expected. Grains, alfalfa western Riverside County damage ranges erosion to submerged some instances. Cotton ginning Coachella Valley standstill. Rains stopped cultural activities. Almonds blooming; big losses expected due to rains. Stone fruits beginning bloom. Avocado, lemon harvest delayed. Mold problem in dates. Moderate desert grapefruit movement, good quality. Navel orange quality problems, heavy movement. Field preparation and planting stopped, wet fields, San Joaquin, Sacramento Valleys, coastal counties. Harvest slow between storms due muddy fields. Broccoli and cauliflower harvest slow all coastal areas. Vol-

ume expected to increase quickly as fields dry. Celery harvested between rains south coast but slow due muddy fields. Lettuce quality variable Imperial Valley due rains. Harvest just starting Palo Verde Valley. Planting schedule disrupted central coast. Potato digging very slow Riverside. Steady movement from potato cellars Tulelake-Butte Valley. Tomato planting halted all areas. Early strawberry losses heavy southern California due to storms. Range grasses excellent growth after series of storms. Stock ponds full, overflowing. Bee hives continue move into almond orchards. Bee activity curtailed due wet, cool, windy weather. Sheep, cattle, good condition. Fuel supplies continue adequate with some surplus reported.

**COLORADO:** Moist air from Pacific brought daily rain and snow to west and San Luis Valley. Very little precipitation elsewhere. Colorado River basin averaged 1.50 in., Rio Grande basin averaged 0.25 in. Temperatures 10° above normal in Colorado and Rio Grande basins, 5 to 8° above normal elsewhere.

**FLORIDA:** Scattered showers over central, 18th and 19th. Rainfall mostly near 0.50 in. with a few heavier amounts. Highs in 50's and 60's on 18th, warming to 70's and 80's by 21st. Lows in 20's and 30's north to 40's south on 18th, but warmed to 50's by 22d. Highs warmed to 70's and 80's by 21st and 22d.

Soil moisture mostly adequate; a little dry north. Sugarcane harvest active but nearing completion. Early corn planting underway. Tobacco plants, small grains good condition. Land preparation very active. Fuel supplies mostly adequate, gasoline little short south, diesel little tight west. Pastures responding to warmer weather; mostly poor to fair but good condition extreme southern areas. Cattle fair to good condition. Citrus tree condition excellent. Moisture good most areas. Some new growth and pinhead bloom buds; however, no open bloom at this time. Early and mid orange harvest very active. Overall vegetable crop condition variable from poor to excellent. Rain, fog lowered conditions some areas. Harvest, planting very active, weather permitting. Fruit quality, size fair to very good. Overall shipments up 11% from previous week. Cauliflower, lettuce, okra increased considerably, while shipments of snap beans, celery, chinese cabbage, sweet corn, escarole, parsley, potatoes, radishes, squash, tomatoes also increased. Cabbage, carrots, eggplant held steady but supplies of cucumbers, peppers, strawberries decreased. Watermelon crop condition fair to good southwest, west central areas. Plants responding well to warmer weather.

**GEORGIA:** Temperatures close to normal. Averaging from 40's north to mid-60's south. Spring-like temperatures in 70's 21st and 22d. Most stations reported rain; amounts ranged from about 0.25 in. south to over 1.00 in. north.

Soil moisture adequate south, surplus north. Field activity picked up south, still hampered by adverse weather north. Limited corn planting began extreme south. Small grains good south, fair to good north. Livestock and pasture condi-

tions good south, fair to good north. Tobacco plants good.

HAWAII: Weather favorable. Showers light and scattered higher elevations. Most crop areas experienced clear, sunny dry weather.

More moisture needed some parts Island Hawaii where no irrigation available. Crop condition fair to good with frequent spraying. Vegetable supplies low, however, cucumbers, tomatoes increasing. Head cabbage, moderate to heavy. Banana supplies down, continue light. Seasonal low papaya harvest continued; orchards making improvements. Pineapple harvesting light; infrequent picking. More sugar mills will resume grinding in coming weeks; more fields prepared for harvesting. Pasture generally fair to good. Fuel supplies tight; erratic deliveries.

IDAHO: Temperatures 1 to 14° above normal, averaging 40°. Precipitation well above normal.

Farmwork minimal as considerable amounts of rainfall caused many problems. Serious flooding in southeastern areas and heavy runoff in others threatened winter grain and seed crops, and some potato storage facilities. Calving and lambing progress varied as to heavy rainfall. Hay supplies vary with respect to location.

ILLINOIS: Temperatures 4 to 8° above normal. Precipitation 0.20 to 0.50 in. north, south; under 0.10 in. central; 1 to 3 in. snow north, central areas.

Winter wheat, fall seeded grains, mostly good condition; stored grain good condition. Livestock good to excellent condition, disease and losses minimal. Supplemental feeding moderate.

INDIANA: Temperature averaged 5° above normal, ranged from 24 to 61°, and daily means averaged mid-30's. Precipitation mostly rain leaving soils bare, ranged from 0.20 in. south to 0.50 in. north. Soils thawed except extreme north. Sunshine 30% of possible.

Muddy field conditions limited fieldwork later in week. Spreading fertilizer, seeding clover, and hauling manure when conditions permitted. Otherwise, hauling grain, equipment and building maintenance, caring for livestock and chores.

IOWA: Mild with moderate precipitation falling on 21st to 22d as rain or drizzle and again night of 24th to 25th as snow. Snowcover melted as temperatures averaged about 8° above normal, but some snow again reported over all but southwest and west central from 24th to 25th snowfall.

KANSAS: Precipitation after midweek with weekend snows of 3 to 6 in.; 0.25 to over 0.50 in. moisture southwest and extreme south portion of central area. Moisture quite variable from none to locally over 0.25 in. Temperatures ranged 33 to 36° central and 37 to 43° east and west one-third, near to slightly below normal central, 2 to 5° above normal east, and 5 to 7° above normal west.

Muddy conditions making livestock care difficult. Livestock off wheat pastures. Warm weather easing feed requirements. Calving in progress, lambing in full swing. Snow melt providing adequate soil moisture and helping wheat.

KENTUCKY: Temperatures averaged from 3 to 6° below normal. Precipitation ranged up to 0.50 in., averaging around 0.25 in.

Little or no snowcover. Variable temperatures and dampness causing stress to young livestock. Fall seeded wheat seems to be in mostly satisfactory condition, low spots where water stood could be hurt. Supplemental feed ample.

LOUISIANA: Temperatures 5 to 10° above normal. Extremes: 88 and 20°. Rainfall generally light. Activities: Routine chores and caring for livestock. Preparing equipment for spring fieldwork.

MARYLAND & DELAWARE: Temperatures averaged normal statewide. Highs averaged in upper 40's to low 50's and lows averaged in mid to upper 20's. Precipitation moderate averaging 0.50 in. Weekend fair to mild except light rain showers.

MICHIGAN: Temperatures rose sharply early week, ranging 3 to 6° above normal in southeast and 6 to 12° above normal elsewhere. Generally, 0.25 to 0.50 in. precipitation in Lower peninsula. Both maximum and minimum precipitation in south central of 1.15 and 0.13 in. Upper peninsula precipitation 0.25 to 0.75 in. along Lake Superior, less elsewhere. Snowcover melted in southern Lower peninsula with 3 to 7 in. in northern Lower. Snow depth of 18 to 36 in. near Lake Superior, 6 in. or less elsewhere.

Farming activities mainly caring for livestock and farm chores.

MINNESOTA: Temperatures averaged 10° above normal. Precipitation near or slightly above normal except south central where some portions 0.50 in. above normal. Snow totaling 2 to 4 in. fell over north. Otherwise snowfall was less than an inch. Snow depth at weekend ranged from 18 to 24 in. over north central and northeast, 5 to 10 in. northwest, central, and east central, 1 to 4 in. elsewhere.

MISSISSIPPI: Temperatures 4 to 7° below normal early week, above normal by weekend. Rains light.

Soil moisture adequate to surplus. Fieldwork: 2.0 days suitable. Fields in some parts of State dried enough to allow spring plowing. Warmer weather late week improved winter grazing crops. Winter wheat fair condition. Pasture and livestock fair to good condition. Hay and roughage supplies adequate. Feed grain supplies adequate to short. Diesel, gasoline and LP gas supplies adequate.

MISSOURI: Temperatures slightly above normal north and slightly below normal south. Light precipitation midweek.

MONTANA: Some precipitation over most of State. Amounts generally light to moderate with heavy precipitation across south and west. Temperatures about 8° above normal over southwest, 5° above normal west, south central, northeast, and southeast, near normal in central, and 5° below normal over north central area.

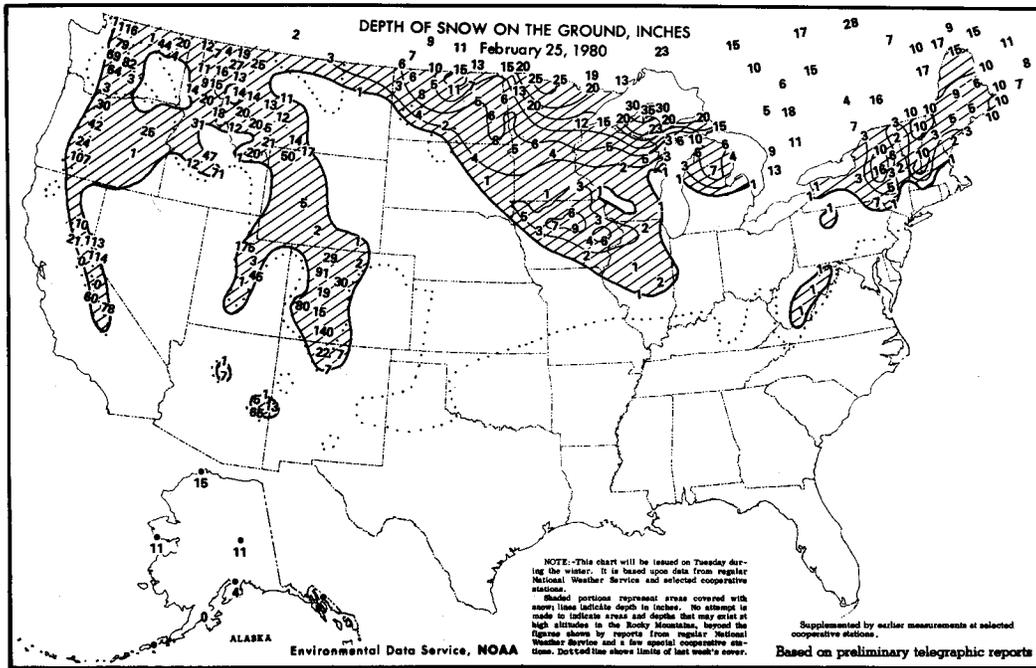
Winter wheat in fair condition. Wind damage to winter wheat mostly light despite poor snowcover. Calving and lambing just underway with 10% of calving and 5% of lambing complete. Grain and hay supplies adequate. Grazing open.

NEBRASKA: Precipitation light averaging 0.10 to 0.25 in. Temperatures 5 to 8° above normal.

NEVADA: Series of moist Pacific storms brought heavy rain; some minor flooding and road washouts. Snowfall heavy in mountains. Temperatures mostly mild, ranging 4 to 12° above normal. Extremes: 19 and 70°.

Precipitation aided winter grains. Calving and lambing gaining momentum.

NEW ENGLAND: Cold temperatures early week moderated appreciably by midweek. Colder weather



returned by weekend. Snow north and snow changing to rain south on 22d. Precipitation averaged between 0.50 to 0.60 in. water equivalent.

**NEW JERSEY:** Temperatures 1 to 4° below normal, averaging 28° north, 35° south, 36° coastal. Extremes: -10 and 59°. Precipitation below normal averaging 0.39 in., north, 0.37 in. south, 0.29 in. coastal.

Farmers caring for livestock, other winter chores.

**NEW MEXICO:** Recurring rains and snow west and central through early 22d. Most totals light but a few to near 1.00 in. Dry eastern plains.

Irrigated winter wheat and barley in good condition with moderate grazing. Dryland winter wheat in poor to fair condition. Lettuce and onions made good growth in south. Ranges in good condition. Livestock in good condition with supplemental feeding.

**NEW YORK:** Temperatures 1 to 10° above normal ranged from mid-20's to mid-30's. Light snow in north and central areas, rain and freezing rain in southeast. Precipitation below normal, and continued well below for month.

**NORTH CAROLINA:** Temperatures 4 to 6° below normal to well above normal by weekend. Precipitation light.

Fieldwork: 3.1 days suitable. Soil moisture adequate to surplus. Condition of wheat, oats, barley, rye fair to mostly good; pastures mostly fair to good. Supplies of hay, roughage, feed grains mostly adequate. Major activities: Tending livestock, plowing, seeding tobacco beds, performing general maintenance, spreading fertilizer.

**NORTH DAKOTA:** Occasional light snow and above normal temperatures. In some areas snow mixed with freezing drizzle. Most precipitation 0.61 to 0.63 in. north central and northwest. Elsewhere precipitation from 0.10 to 0.30 in. Temperatures averaged near normal northeast; 4 to 8° above normal elsewhere. Colder weather on weekend.

Extremes from 52° southwest to -15° north central.

Precipitation in some areas helpful for dry conditions. Mild winter permitted savings in both fuel and livestock feed.

**OHIO:** Temperatures very cold 18th, but rose 19th. Temperatures ranged from low of 6° northwest the 18th to high of 71° south on 22d. Average readings above normal.

Average precipitation 0.50 in.; about 0.20 in. less than normal. The 4 to 7 in. snowcover disappeared by 20th, except for scattered areas near Lake Erie.

**OKLAHOMA:** Temperatures averaged near normal north central but 3 to 6° above normal elsewhere. Temperatures cool at beginning and end of week but warmed into 60's, 70's and even a few 80's during midweek. Precipitation below normal statewide ranging from 0.12 in. northeast to 0.06 in. north central; elsewhere 0.01 in. or less.

**OREGON:** Temperatures west of Cascades ranged 6° above normal southern sections to about normal north. Eastern temperatures averaged much above normal in extreme east to near or slightly below normal elsewhere. Precipitation along coast totaled 2.00 to 3.00 in.; inland valleys averaged about 1.00 in.; eastern locations recorded 0.50 to 1.00 in., except less than 0.25 in. central basin.

Soil moisture surplus west, adequate east. Winter wheat condition mostly good. Weather holding up spray applications. Dormant sprays being applied in caneberry fields. Livestock condition mostly good. Hay in short supply, feed grains adequate. Range and pasture conditions variable.

**PENNSYLVANIA:** Average temperature 36°; 5° above normal. Cool early and late week. Average precipitation 0.45 in.; below normal.

Normal winter chores.

PUERTO RICO: Island average rainfall 0.03 in. or 0.61 in. below normal. Temperatures averaged about 76 to 78° on coasts and 73° interior. Extremes: 96 and 50°.

SOUTH CAROLINA: Below normal temperatures changed to unseasonably warm. Extremes: 15 and 80°. Lighter than usual rainfall; scattered showers near midweek and 23d.

Plowing where soils not too wet. Harvesting greens, pruning and setting fruit trees.

SOUTH DAKOTA: Mild temperatures averaging 5 to 13° above normal. Extremes: 60 to -10°. Light precipitation, greatest amount 0.25 in. Snow-cover 3 in. northeast; not appreciable elsewhere.

TENNESSEE: Fair early week; late week rainy. Precipitation averaged 0.10 in. west, 0.50 in. east. Temperatures 4 to 6° above normal.

Soil moisture adequate. Pastures and small grains fair condition. Cattle good condition; hay supplies adequate. Some work being done on tobacco plant beds.

TEXAS: Low pressure system brought dry, warm winds until week ending cold front returned temperatures to seasonal normals. Temperatures 4 to 10° above normal with virtually no rainfall.

Previous weekend's moderate plains snowfall vanished as warm temperatures moved into State. Small grains responded favorably to warm temperatures; additional fields available for grazing Low Plains, Edwards Plateau. Limited cotton planting began Valley. Land preparation active Valley, South Texas but winds caused Plains' farmers to delay fieldwork for fear of erosion. Preplant herbicides, fertilizers applied lower Blacklands, South Central Texas. First corn, sorghum fields seeded in Valley, South Texas although major planting activity will not commence until soil temperatures warm. Land preparation on schedule Central, South Texas but plowing on Plains, Cross-Timbers delayed due to winds. Small grains responded to warm temperatures; high winds caused some wheat to "blow out" on Plains, overall damage minimal. Drier conditions helped control powdery mildew but greenbugs still problem. Oat fields toppedressed East Texas.

Warmer temperatures returned; ranges, pastures began greening following recent moisture. Winter grass, weeds, wheat, oats and rye made good growth and provided limited grazing. Supplemental feeding continued; requirements diminished as forage became more plentiful. Calving, lambing, kidding continued.

Lower Rio Grande Valley harvests cabbage, carrots, lettuce continued fair volume. Young cabbage made good growth. Planting peppers continued. Melons slow in coming up; some affected by "die-back" of emerged plants, requiring replanting. Onions made good progress and harvest expected to begin soon. Citrus harvest resumed following rainfall previous week. San Antonio-Winter Garden land preparation continued and planting spring vegetables underway. Eagle Pass spinach harvest completed. Laredo spinach harvest continued. Onions doing well. South Texas spinach, carrot harvests continued. Watermelon planting in progress. El Paso, early planted cabbage emerged. Onion sets being transplanted. East Texas land preparation continued; planting onions, potatoes, cool season crops continued. North Texas planting potatoes, onions, cabbage, radishes, peas active. High Plains, seeded preparation underway; some potatoes planted. Some peach trees blooming south. Buds continued to swell north. Dormant oil applied. Pecan trees being pruned, sprayed.

UTAH: Recurring precipitation statewide. Amounts generally moderate to heavy. Light to moderate few localities. Heavy precipitation caused considerable damage to crops, highways and homes northwest and southwest. Average temperatures ranged from 1 to 15° above normal.

Livestock receiving supplemental feed. Cleaning livestock pens and assessing flood damage continued in Cache Valley and southwest, especially Enterprise area. Calves and lambs continued to drop. Some sales of apples and onions.

VIRGINIA: Temperatures averaged a little above normal. Cold at beginning and much warmer at end of week. Extremes: 76 and 5°. Rain occurring late week averaged around 0.33 in.

Mild weather held newborn livestock losses to minimum. Muddy conditions in southwest hindered farm mobility. Topsoil moisture adequate to surplus. Fieldwork: 1.9 days favorable. Winter grains good to excellent. Supplies of hay, other roughage surplus. Feed grain supplies adequate. Farm fuel supplies adequate. TGE (transmissible gastroenteritis) outbreak south-east caused heavy farrowing losses. Other activities: topdressing small grains, pastures; overseeding grazing areas with clover and other grasses; preparing and seeding flue-cured tobacco beds southside; marketing farm-stored corn, soybeans in Tidewater region.

WASHINGTON: West: Temperatures averaged 1° above normal; precipitation near normal.

Harvest of forced rhubarb continued. Pruning caneberrries. Calving and lambing active. Variety of plants beginning to bud. Pruning ornamental and tree fruit starting. Hay supplies adequate. Livestock in good condition.

East: Temperatures averaged 2 to 4° above normal; precipitation averaged 0.10 to 0.40 in. above normal.

Run-off caused slight erosion in winter grains; still considered to be in good shape. Pruning tree fruits and grapes continued. Livestock producers busy with calving and lambing and feeding. Hay supplies adequate, though expensive.

WEST VIRGINIA: Temperatures above average. Extremes: 71 and -7°. Precipitation near normal north, below normal elsewhere.

Soil moisture adequate to surplus. Fieldwork: 1.4 days suitable. Hay, grain, other feed supplies adequate. Fuels adequate to tight.

WISCONSIN: Temperatures above normal; highs in mid to upper 30's, lows in 20's and 30's. Precipitation light. Light snow and freezing drizzle north 19th, 22d, with 1 to 2 in. snow accumulation. Thunderstorms south 21st produced up to 0.75 in. rain. Rain and snow mix south 22d added 0.20 in. precipitation. Colder air moved into north and west weekend. Snow depths averaged 4 in. as of 22d, decline of 2 in. from two weeks earlier. Southern half had only trace of snow remaining by weekend. Northern areas had up to 1 foot snow on ground except larger amounts near Lake Superior snowbelt. Frost depths averaged 29 in. as of 22d, increase of 5 in. from two weeks earlier. Most areas had 2 feet or more hard frost in ground.

WYOMING: Temperatures above normal; eastern portions warmest. Minimum temperatures normal for this time of year. Precipitation below normal.

Warmer temperatures reducing stress on livestock. Most livestock good condition. Lambing, calving underway. Hay supplies adequate. Winter wheat mostly good.

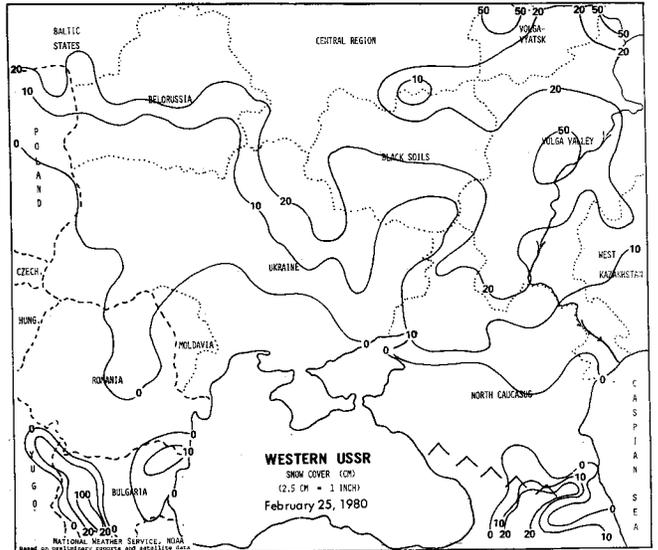
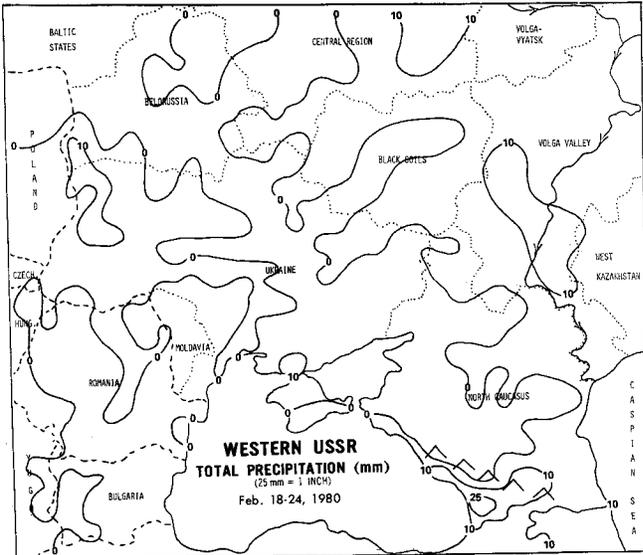
# International Weather and Crop Summary

18-24 February 1980

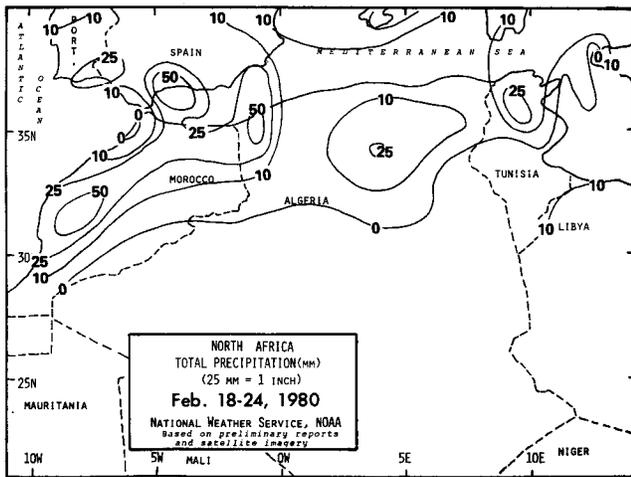
**HIGHLIGHTS:**

- USSR. Winter grains dormant...little change in snowcover; moderate temperatures.
  - EUROPE. Continued slow winter grain growth in the west...some beneficial rainfall in Spain.
  - CHINA. Some renewed growth of winter grains in the south...soil moisture adequate.
  - INDIA. Wheat should be near heading stage...much too dry, except near the Himalayas.
  - AFRICA. Northwestern: winter grains jointing\*...beneficial rains in some areas.  
South: maize nearly mature\*...generally favorable conditions.
  - ARGENTINA. Soybeans flowering...adequate soil moisture.  
Maize nearly mature.
  - BRAZIL. Harvesting soybeans in Parana,  
soybeans podding in Rio Grande do Sul...generally favorable conditions.
  - MEXICO. Vegetable harvesting...warm, sunny in major areas.  
Grain sorghum...planting begun around Matamoros.
- \*Based on normal crop calendar information.

USSR. Very little precipitation fell over the winter grain belt, but very little snow melted in most areas as freezing temperatures persisted. Conditions warmed in many areas during the week, and nowhere did extremes occur.

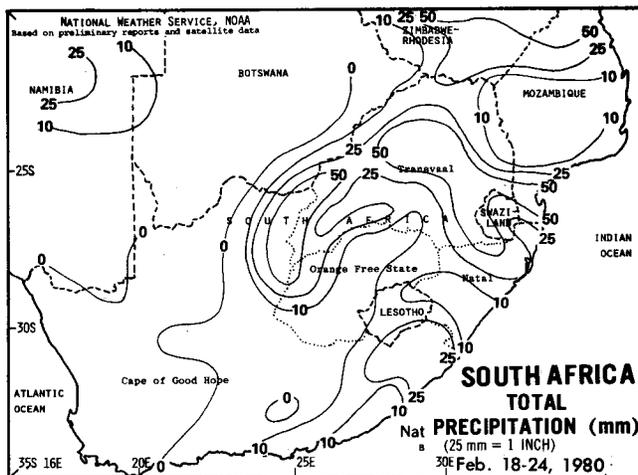
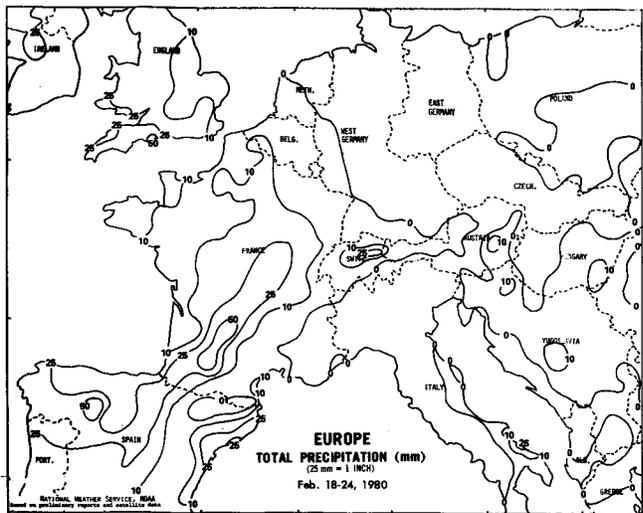


Based on preliminary reports and available data.

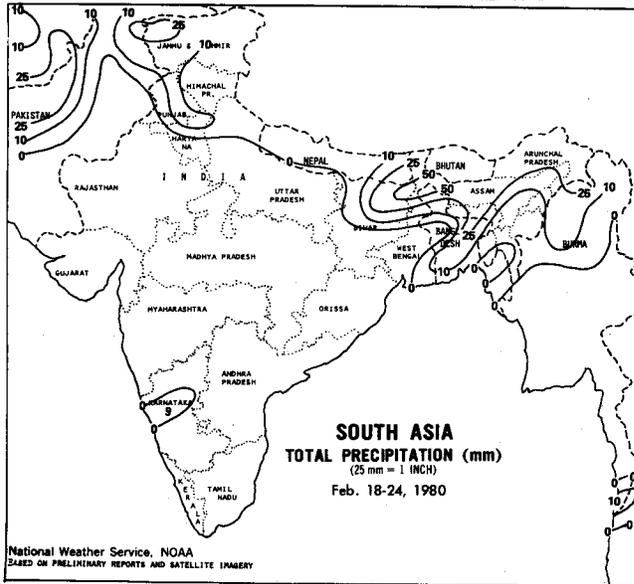


**NORTHWESTERN AFRICA.** Beneficial rains fell in Tunisia, extreme western Algeria, and southern winter grain areas of Morocco. Growing conditions can now be considered good in Tunisia, but dry pockets persist in Algerian grain areas. Four weeks had lapsed since the last rainfall over Moroccan wintergrains, and conditions were becoming too dry again south of Casablanca, so this week's moisture was quite timely. Northern grain areas received only light amounts, however, and in spite of heavier soils, moisture conditions have again become less than favorable.

**EUROPE.** Quite dry weather continued over much of the continent. Extensive portions of the Iberian Peninsula received precipitation of 10 to 30 mm, but soil moisture deficits persisted in many areas as conditions warmed further and water needs of winter grains increased. Abundant precipitation fell in a band across France, with totals ranging from 5 to 15 mm in the north. Likewise, grain areas in the United Kingdom received variable precipitation. Little or no moisture fell in other agricultural areas, but no serious moisture shortages existed, apart from Spain.

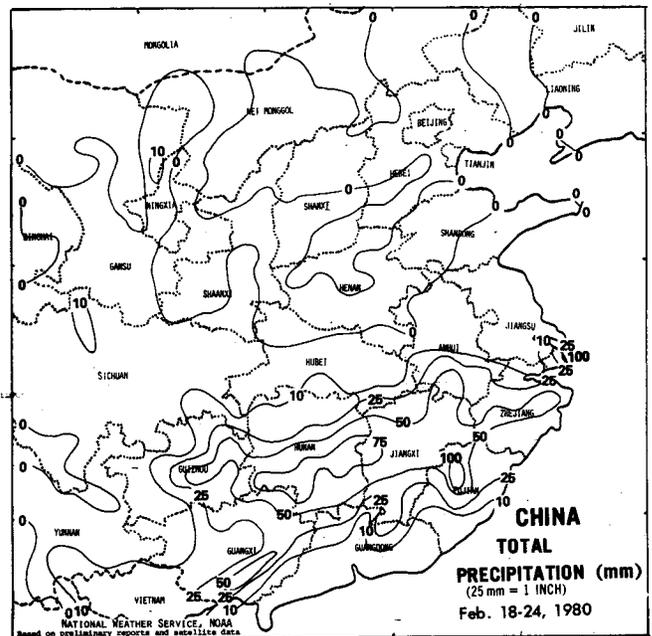


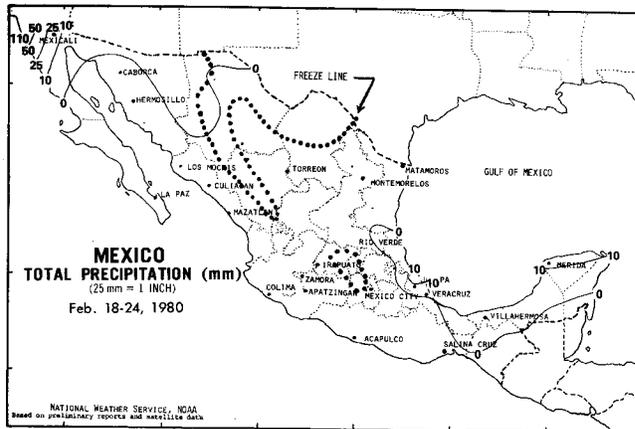
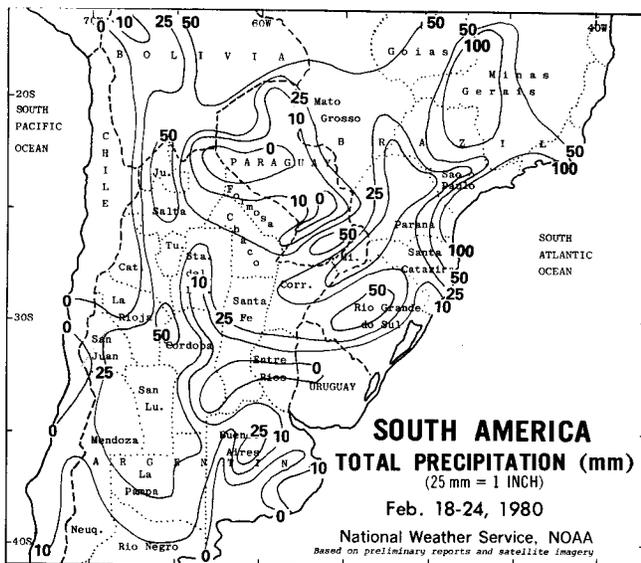
**SOUTH AFRICA.** Widespread abundant rainfall in the northwestern fringes of the Maize Triangle broke a recent trend of drier than normal weather. The rains probably benefited late-planted corn, but early varieties had nearly matured by the time this moisture arrived. Soil moisture in other areas ranged from somewhat below normal in southwestern portions of the Triangle to much above in the northeast. In general, the beneficial effects of abundant rainfall over most of Triangle this season outweighed the possible damage caused by local excesses.



**INDIA.** Portions of the wheat belt adjacent to the Himalayas continued to receive light weekly amounts of rainfall, bringing February totals up to near normal. Wheat in those areas should be in reasonable condition as it nears the heading stage, but dry conditions across the southern half of Punjab, Haryana, and Uttar Pradesh must be stressing all wheat which has not been irrigated in the last few weeks. Temperatures averaged about 3°C above normal, with daytime readings of about 32°C indicating a strong desiccating effect. More favorable conditions persisted to the east as above-normal rainfall of 10 to 25 mm spread to cover portions of Bihar, West Bengal, and all of Assam.

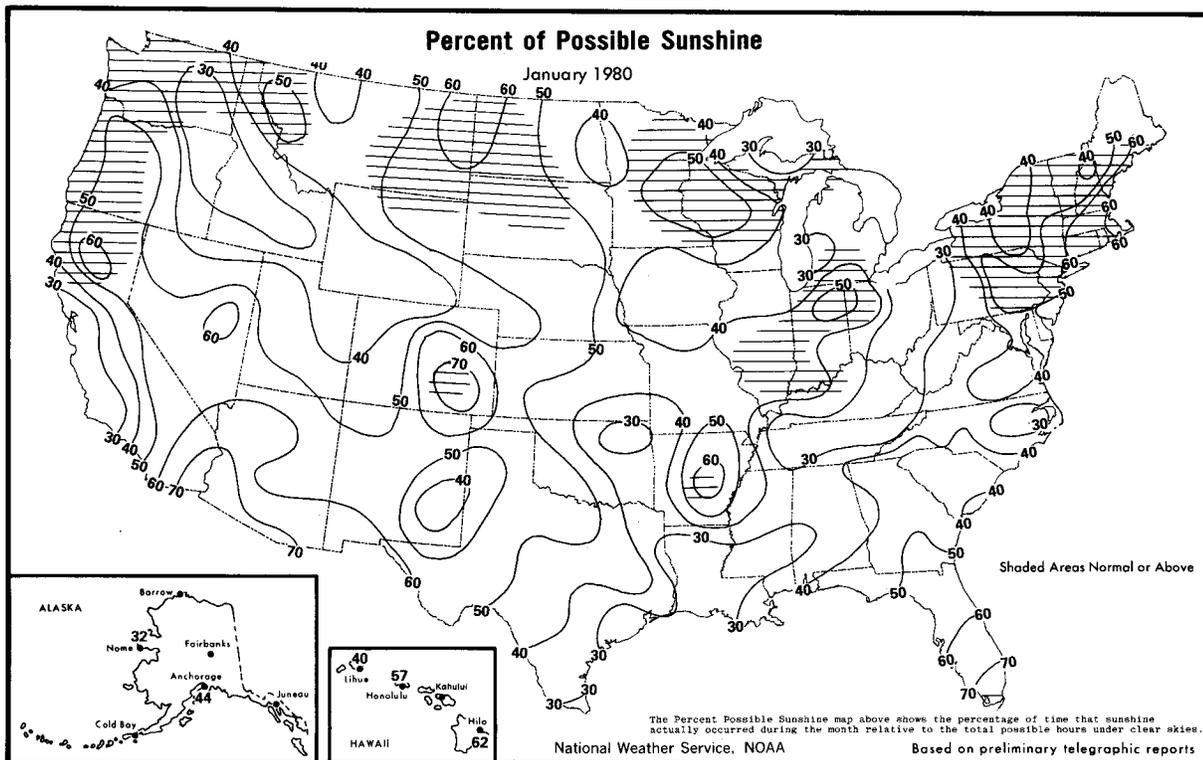
**CHINA.** Rainfall surged above normal south of the Yangtze River, and temperatures rose sufficiently for renewed winter grain growth in this minor production area. Temperatures in major areas to the north neared the threshold for growth, and though little or no precipitation fell, soil moisture should remain adequate from previous precipitation. Irrigation water should continue in good supply in the south, but moisture shortages persist north of the Yellow River.





**SOUTH AMERICA.** Only light rain of less than 5 mm fell over most portions of the Argentine soybean belt. Soil moisture should still remain adequate due to rainfall during the previous 2 weeks. Early soybeans are in flower, and evidently some late plantings have been attempted since the rains, but the chances of their maturing before frost arrives are slim. Generally favorable weather prevailed over most Brazilian soybean areas. Some locations in western Rio Grande do Sul do not yet have adequate moisture to promote a good flowering of soybeans, but light amounts continue to fall, and most soybean areas of the state have good soil moisture. Rains in Parana have interfered with soybean harvesting somewhat, but no serious problems exist.

**MEXICO.** Heavy rains from a series of winter storms flooded some areas in extreme northwestern Baja, California. Over 100 mm fell around Tijuana during the 9-day rainy period ending on the 21st. Smaller amounts, falling in the Mexicali cotton district, improved soil moisture but will likely delay cotton planting. Soil temperatures were estimated to average about 17°C. A few sprinkles dotted the southwestern citrus belt. However, seasonal sunny weather prevailed over most other areas including the major vegetable regions of the west coast and southern plateau where irrigation and harvesting are intensive now. Grain sorghum planting began this week around Matamoras with dry weather and warm soil temperatures averaging about 22°C. Culiacan's afternoon maxima averaged 31°C with a 54-percent relative humidity, while overnight minima averaged 14°C with an 83-percent humidity.

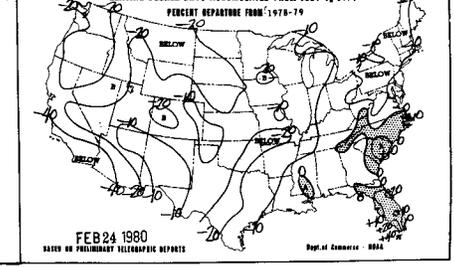
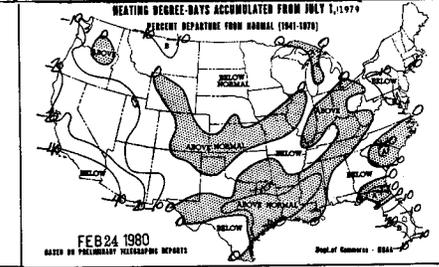
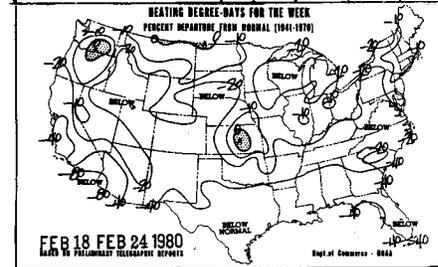


The Percent Possible Sunshine map above shows the percentage of time that sunshine actually occurred during the month relative to the total possible hours under clear skies. National Weather Service, NOAA. Based on preliminary telegraphic reports

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING FEB. 24, 1980.

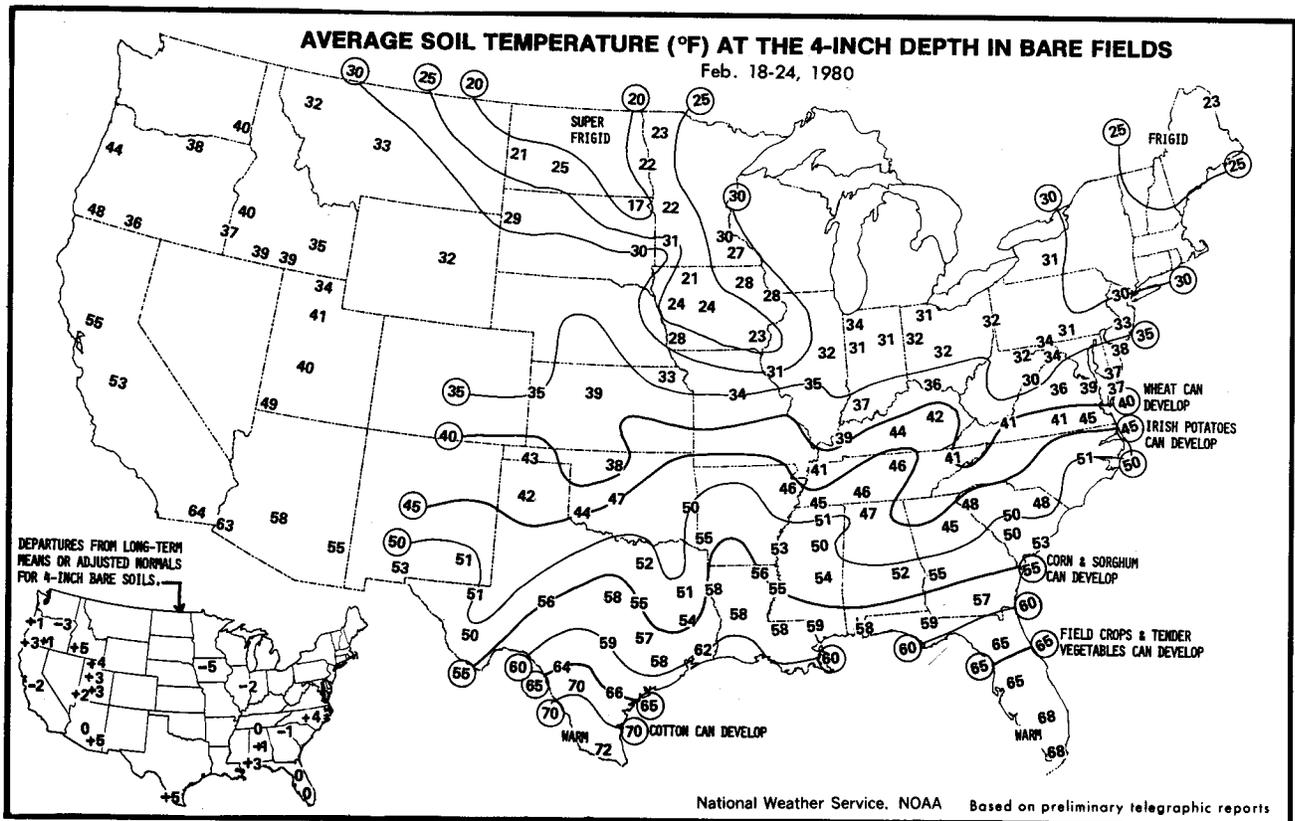
BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1979.

Table with columns for STATES AND STATIONS, WEEKLY ACCUMULATION, and SEASONAL ACCUMULATION. It lists data for various states including ALA., ARIZ., ARK., CALIF., COLO., CONN., DEL., D.C., FLA., GA., IDAHO, ILL., IND., IOWA, KANS., KY., LA., MAINE, MD., MASS., MICH., MINN., MISS., MONT., NEBR., NEV., N.H., N.J., N.MEX., N.Y., N.C., N.DAK., OHIO, OKLA., OREG., PA., R.I., S.C., S.DAK., TENN., TEXAS., UTAH, VT., VA., WASH., W.VA., WIS., and WYO.





# FIRST CLASS MAIL



Publication of the Weekly Weather and Crop Bulletin began in 1872 as the Weekly Weather Chronicle. It is issued under general authority of the Act of January 12, 1895 (44USC 213), 53d Congress, 3d Session. Contents of the Bulletin may be reprinted freely, with proper credit.

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