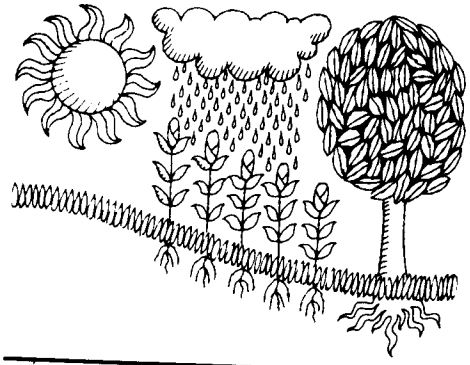


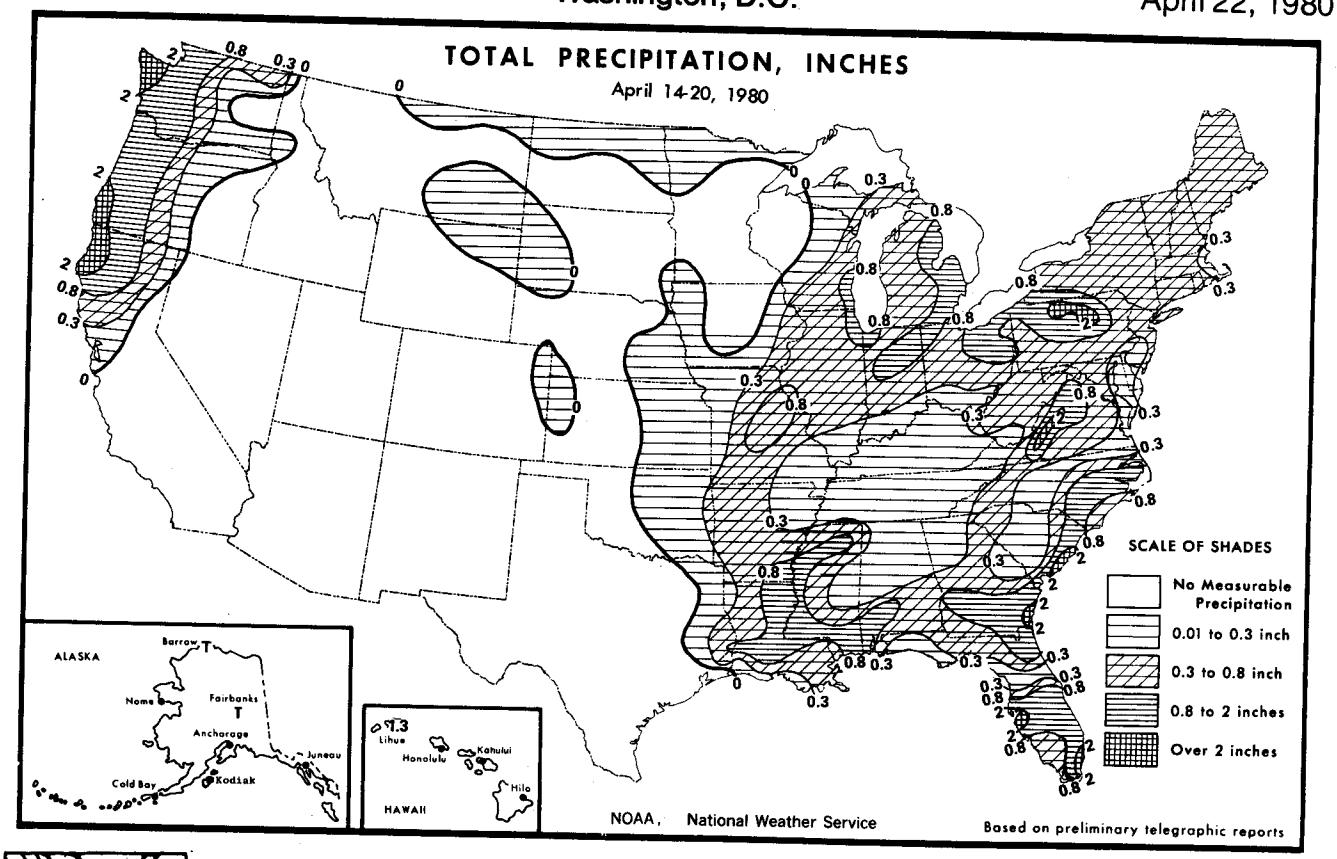
WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration, National Weather Service

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

World Food and Agricultural Outlook Situation Board

Volume 67, No. 17 Washington, D.C. April 22, 1980



National Weather Summary

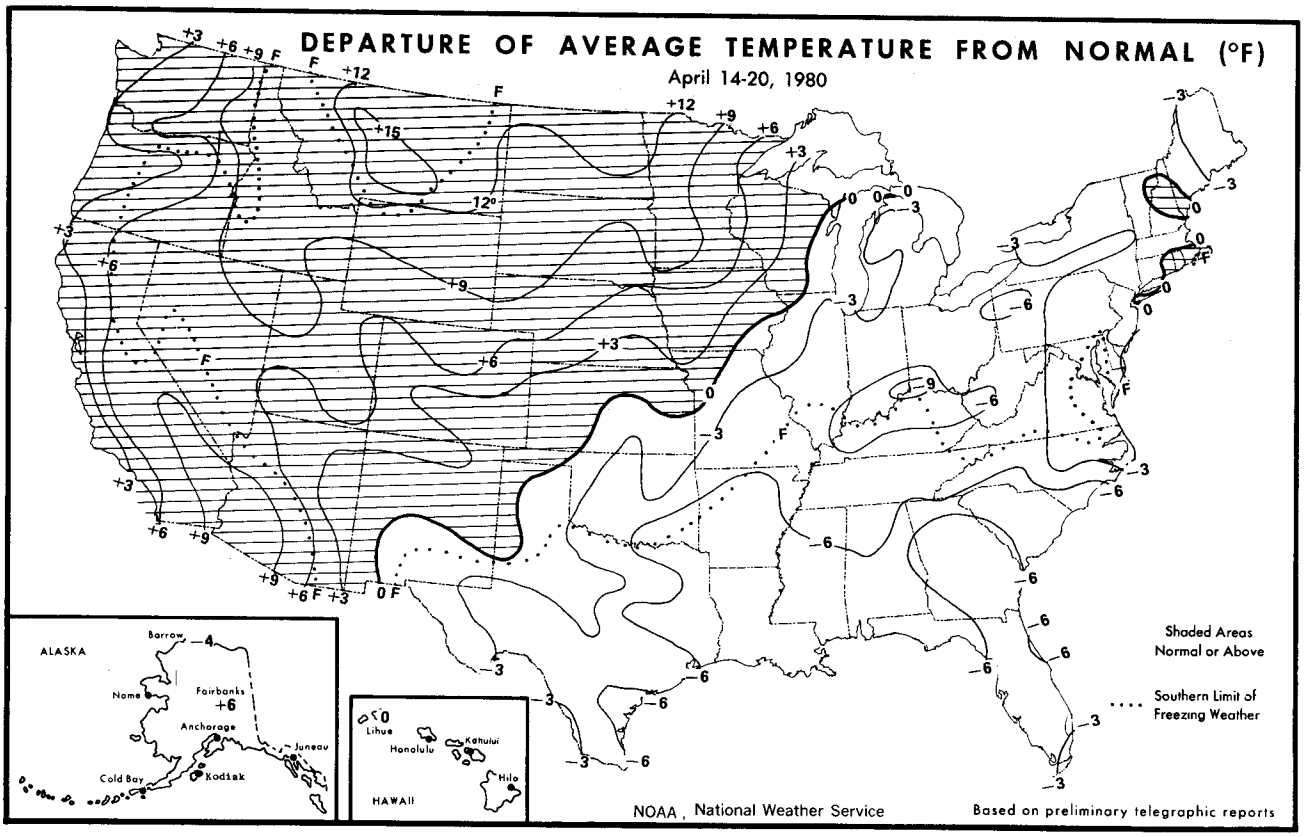
National Weather Summary
April 14 - 20

HIGHLIGHTS: Early in the week, unseasonal snow fell from eastern Arkansas to Iowa and into the Ohio Valley, and later the same area experienced record breaking warm temperatures. A storm system moved from Missouri into the Gulf of Mexico and triggered heavy thunderstorms in its wake. Many reports of heavy hail came from southern Louisiana to Florida. Tornadoes and large hail inflicted severe damage to several areas in northern Florida. A heat wave brought summer-like weather from the Southwest to Montana and eastward to the Mississippi River.

Monday...A low pressure system moved through the Ohio Valley and spread snow from eastern Arkansas to Michigan. Rainshowers and thunderstorms reached from the lower Great Lakes and Ohio Valley through the Northeast. Locally heavy rain in the Northeast caused some local flooding.

Record cold weather reached the Gulf Coast. The mercury dipped into the 30's across Texas and Louisiana. Elsewhere, evening showers and thundershowers were found along the Florida Coast, the mid-Atlantic Coast, and the Pacific Northwest.

Tuesday...Snow fell during the early morning from the Ohio Valley through the Great Lakes but warming temperatures caused rapid melting. Amounts of 4 to 6 inches covered the ground in Missouri, Illinois, and Iowa before the melting began. Rainshowers were scattered from New England into North Carolina, across the Appalachians into the Ohio and Tennessee Valleys during the afternoon and evening. Also, rainshowers and isolated thunderstorms were scattered from the upper Missouri Valley through eastern Colorado and the west central Plains.



Tuesday morning temperatures were rather cool in most of the East and in the South but were mild in the West. Hotter than normal temperatures were recorded in the Southwest as the mercury climbed into the mid-nineties.

Wednesday...Wet snow fell in New York as temperatures fell into the thirties. Scattered light rain, with snow at higher elevations, continued through most of the day from the central Appalachians into New England. Except for partly cloudy skies in the northern Plains, most of the rest of the Nation was clear. However, scattered light showers and thundershowers broke out over the Plains by early afternoon. As the rainy weather moved out of New England, cold dry air settled over the Northeast. Hot weather continued in the Southwest.

Thursday...Clear skies and light wind over the eastern third of the Nation combined for a record-breaking cold April morning. The Northeast was in the 20's with some places in New York State dipping into the teens. The record temperatures ranged from the 40's in the Florida Panhandle to the high 20's in the mid-Atlantic States.

Later in the day thunderstorms rumbled over the lower Mississippi Valley. A slow moving storm in Missouri triggered thunderstorms from eastern Texas into Alabama and northward from eastern Nebraska into Indiana. Local flooding occurred with some of these storms in the South and some produced large hail. Showers also spread from the Pacific Northwest into the northern Plateau region as a Pacific frontal system pushed toward the Rockies.

Friday...The slow moving frontal system continued to produce thunderstorms in the South. Some became violent by the end of the day. The storm center moved into Louisiana and severe weather extended through the southern portion of Louisiana, Mississippi, Alabama, and northern Florida. Most of the rest of the Nation enjoyed pleasant spring weather. Early afternoon temperatures soared into the 70's as far north as Montana, the Dakotas, Minnesota, and Wisconsin. Although eastern areas had a cool night they warmed pleasantly during the day.

Saturday...The storm center moved into the Gulf of Mexico. Showers and thunderstorms continued from the eastern Gulf Coast across Florida to the southern Atlantic Coast and north into the Carolinas. Several tornadoes were reported in northern Florida. Hail and wind damage occurred in some areas. Thunderstorms were also scattered over the upper Great Lakes and managed to produce a tornado near Alpena in northeastern lower Michigan.

Hot weather continued in the Southwest and some thermometers climbed as high as 110°. Warm weather also invaded the Plains--parts of the central Plains reached the high eighties.

Sunday...was sunny or partly cloudy over most of the Nation. Some thunderstorms continued in Florida. Showers accompanied a weak cold front that moved through the lower Great Lakes into Pennsylvania. Another cold front brought light rain to northern California and the Pacific Northwest.

A heat wave was in progress from the Southwest through all of the Plains and much of the Rocky Mountain area. Many record high temperature records were set. Ninety degree readings were reported from Texas through the northern Plains.

National Agricultural Summary

April 14 - 20

HIGHLIGHTS: Low temperatures brought some frost damage to vegetables and fruit from Texas northeastward through Arkansas, Tennessee, and Kentucky. The subnormal temperatures in the eastern half of the Nation slowed grass growth and held soil temperatures down through the early part of the week. Most of the Nation showed very little precipitation; soils began drying and farmers were able to accomplish more fieldwork. Farmers in the eastern north central States had mostly only 1 day suitable for fieldwork but as much as 4 or 5 days were available in western areas. In the South, wet soils continued to delay fieldwork and held the number of days suitable to only 3, while most of the West enjoyed almost a full week. Plowing in the Corn Belt was only slightly behind schedule except Indiana at 55%, 15 points below the average, and Ohio at 60% lagged the average by 20 points. Plowing in the South trailed the average by 15 to 30 points. Winter wheat rated good; jointing extended into Kansas. Spring wheat seeding in the 5 major producing States stood at 20%, well ahead of last year's late season 2%, and slightly ahead of the 17% average. Oats seeding lagged in the eastern north central States, but was on schedule in most of the western parts of the region. Barley seeding was off to a good start particularly in South Dakota. Cotton planting in the 14 major producing States reached 22%, 1 point below last year. Excluding California and Arizona, cotton planting stood at 11%, short of 1979's 12% and the 14% average. Corn planting stood at 3%, compared with 4% last year and the 6% average; very little acreage was seeded in the Corn Belt. Grain sorghum planting did not reach beyond the Texas border among the major producing States; Texas progress stood at 64%, surpassing 1979's 50% and the 53% average. Rice seeding in the 5 major producing States stood at 30%, falling between 1979's 26% and the 40% average. Virtually no soybeans were planted. Pastures rated fair to mostly good and improving although subnormal temperatures checked growth in the eastern half of the Nation, and dry soils slowed growth on the northern and southern Plains and parts of the Southwest. Fuel supplies held steady from the previous week. LP gas stood at 2% tight, 94% adequate, and 4% surplus. Diesel fuel rated 5% tight, 91% adequate, and 3% surplus. Gasoline scored 4% tight, 92% adequate, and 4% surplus.

SMALL GRAINS: Winter wheat rated fair to mostly good through major production areas. Oklahoma and Kansas reported excellent growth. On the northern Plains stands were greening but needed moisture. In Texas, dryland stands suffered from dry soils and some low Plains fields headed prematurely. Texas irrigated fields grew well and began jointing on the Plains. Early California fields began heading. In the Corn Belt, growth reached 5 inches, equaling last year but 2 inches short of the average.

Spring wheat seeding reached 20%. Both South Dakota and Idaho reached the halfway mark. South Dakota producers planted 40% of the acreage during the week. Oats seeding ranged from 2% in Wisconsin to 21% in Illinois; progress significantly lagged both last year and the average. In the western north central States, oats seeding ranged from 5% in Minnesota, which was 20 points below the average, to 40% in South Dakota, which was 6 points ahead of the average, and 55% in Iowa, which equaled the average.

CORN: Corn planting stood at 3%, short of last year's 4% and the 6% average. Minor acreages were planted in parts of the Corn Belt; however, most activity centered in the Southeast where 44% of the crop was in the ground, short of the 59% for last year and average. Late week weather raised soil temperatures and dried soils which should improve planting conditions in major production areas.

COTTON: Cotton planting reached 22% complete in 14 major producing States, 1 point below last year. Planting in the Southwest was well advanced and stood at 75% in California and 73% in Arizona. Early Arizona stands showed leaf development. Texas cotton planting centered in the Blacklands. Producers on the Plains applied irrigation water and herbicides. Low temperatures in South Texas may delay crop growth although replanting should be minimal.

OTHER CROPS: Grain sorghum seeding in Texas reached 64%, surpassing 1979's 50% and the 53% average. Other major producing States reported no acreage planted, so for the 7 State group, planting stood at 23%, compared with 18% last year and the 19% average. Texas planting reached the Cross-Timbers area. Insects caused some problems in southern Texas areas. Oklahoma growers had half of the sorghum acreage ready for planting, 5 points ahead of last year and average.

Rice seeding reached 30%, 4 points ahead of last year but 10 points below the average. Low temperatures produced minor damage in some Texas rice fields but stands should recover. California growers continued to prepare fields; limited planting began.

Peanut planting stood at 9% in Georgia, 5% in Alabama, and 9% in Texas. Progress fell behind recent years.

FRUITS & NUTS: Many deciduous trees bloomed in northern production areas. Apricots, cherries, pears, and prunes were in full bloom throughout the West. Eastern growers reported trees ranging from early pink to full bloom. Most peach trees were past bloom and began leafing out in southern areas. Low temperatures brought some frost to eastern areas but damage should prove minimal. California growers harvested freestone peaches. Oregon filberts and Texas pecans began leafing.

Florida citrus groves rated excellent as trees set new crop fruit and put on new growth. The Valencia harvest increased and the grapefruit harvest slowed. Texas citrus fruits developed well reaching marble size; managers irrigated and sprayed groves. Arizona growers harvested Valencias and grapefruit. California growers harvested Valencias.

VEGETABLES: Low temperatures brought frost to succulent vegetables across the middle South. Some stands of more susceptible crops will probably need to be replanted. Florida vegetable shipments held steady from the previous week although cucumbers and eggplant supplies increased considerably while carrots, cauliflower, strawberries, and tomatoes declined. Texas growers harvested peas, onions, cabbage, carrots, and parsley. Frost damaged tender crops in East and West Texas, the Trans-Pecos, San Antonio-Winter Garden, and Coastal Bend areas.

PASTURES & LIVESTOCK: Pastures generally rated fair to good and improving; subnormal temperatures slowed growth in the eastern half of the Nation. Dry soils curbed growth in the northern and southern Plains, southern Arizona, and parts of the Pacific Northwest. Ranchers began turning herds onto rangelands in northern areas. Calving and lambing were practically complete except in extreme northern parts of the Nation. Most areas reported only light losses of newborn.

Weather Data for the Week Ending April 20, 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. . .	71	45	81	38	58	- 6	.2	- .9	.2	20.5	225	81	32	0	0	2	0
Mobile.	73	50	82	44	62	- 7	.9	- .4	.4	26.8	250	87	41	0	0	3	0
Montgomery. . . .	70	48	77	42	59	- 7	.8	- .2	.6	14.0	159	87	42	0	0	2	1
ALASKA. Anchorage. .	47	28	51	23	38	1	0	- .1	0	.4	57	77	40	0	6	0	0
Barrow.	3	-8	4	-10	-4	- 4	T	- .1	T	0	0	75	71	0	5	1	0
Fairbanks	46	28	51	21	36	6	T	- .1	T	.2	29	58	33	0	7	0	0
Kodiak.	45	36	50	29	40	3	0	- .9	.4	4.4	72	77	57	0	2	4	0
Nome.	24	8	28	-3	16	- 3	0	- .1	.1	1.2	100	73	65	0	7	3	0
ARIZ. Flagstaff. . .	69	26	72	19	48	5	0	- .3	0	5.0	185	64	13	0	7	0	0
Phoenix	94	60	102	50	77	9	0	- .1	0	1.0	111	37	7	5	0	0	0
Tucson.	89	57	96	41	73	7	T	- .1	T	1.2	171	22	7	4	0	0	0
Winslow	78	36	84	24	57	2	0	- .1	0	.8	114	--	--	0	1	0	0
Yuma.	100	61	106	54	81	9	0	0	0	.5	100	30	11	7	0	0	0
ARK. Fort Smith. . .	72	40	82	30	56	- 7	.4	- .7	.4	4.1	63	90	31	0	1	1	0
Little Rock . . .	70	45	84	33	57	- 5	.4	- .8	.3	9.4	117	79	39	0	0	2	0
CALIF. Bakersfield .	84	54	94	49	69	6	0	- .2	0	1.4	108	--	--	1	0	0	0
Eureka.	59	47	67	44	53	3	2.3	1.6	2.1	9.7	145	99	69	0	0	3	1
Fresno.	85	51	94	45	68	7	T	- .3	T	2.1	81	70	24	2	0	0	0
Los Angeles . . .	69	55	72	53	62	0	T	- .3	T	2.2	71	91	60	0	0	0	0
Red Bluff	78	48	83	42	63	3	1.0	.6	1.0	3.6	100	78	26	0	0	1	1
San Diego.	73	60	75	57	67	6	0	- .2	0	2.3	105	78	57	0	0	0	0
San Francisco . .	66	48	71	45	57	1	.1	- .3	.1	3.0	83	89	51	0	0	1	0
Stockton.	80	50	87	45	65	6	T	- .3	T	1.6	57	--	34	0	0	0	0
COLO. Denver	72	39	81	29	56	7	0	- .5	0	1.6	67	46	11	0	1	0	0
Grand Junction. .	74	38	82	27	56	4	0	- .2	0	1.9	158	46	14	0	1	0	0
Pueblo.	77	33	85	23	55	2	0	- .3	0	1.5	115	--	10	0	3	0	0
CONN. Bridgeport . .	56	38	61	31	47	- 2	.5	- .3	.5	12.2	218	70	42	0	2	2	1
Hartford.	61	36	75	28	49	0	.7	- .2	.5	10.0	164	72	38	0	3	3	1
D.C. Washington. . .	69	46	80	35	57	0	.4	- .2	.4	6.2	124	77	43	0	0	1	0
FLA. Apalachicola. .	73	51	76	45	62	- 6	T	- .8	T	7.5	106	89	46	0	0	0	0
Daytona Beach . .	76	54	80	46	65	- 5	.3	- .3	.3	4.5	90	89	46	0	0	1	0
Ft. Myers	80	61	83	52	70	- 3	.5	.1	.5	1.7	40	90	46	0	0	1	1
Jacksonville. . .	74	52	78	45	63	- 5	1.2	.5	.7	9.8	178	91	50	0	0	3	1
Key West.	80	70	89	68	75	- 3	.6	0	.6	.8	26	77	55	0	0	1	1
Miami	79	66	82	58	72	- 3	2.3	1.9	2.2	10.1	240	78	54	0	0	2	1
Orlando	79	56	82	52	67	- 4	1.4	.8	1.9	4.6	88	96	42	0	0	2	1
Tallahassee . . .	74	45	79	37	60	- 9	.7	- .2	.6	15.5	187	91	39	0	0	2	1
Tampa	77	57	80	50	67	- 6	2.4	1.9	2.3	6.3	119	89	46	0	0	1	1
W. Palm Beach. . .	77	60	81	50	69	- 6	1.6	.8	1.4	3.9	71	90	52	0	0	2	1
GA. Atlanta.	72	47	80	40	59	- 3	T	- 1.1	T	13.0	151	81	32	0	0	1	0
Augusta	74	47	80	40	60	- 4	.2	- .6	T	12.9	190	84	34	0	0	3	0
Macon	73	49	78	43	61	- 5	.7	- .1	.4	14.2	192	90	34	0	0	3	0
Savannah.	71	51	75	45	61	- 6	1.0	.4	.6	10.5	172	84	43	0	0	2	1
HAWAII. Hilo	--	--	--	--	--	--	--	--	--	--	--	--	--	-	-	-	-
Honolulu.	82	70	84	68	76	1	.2	- .1	.2	3.4	81	87	58	0	0	2	0
Kahului	--	--	--	--	--	--	--	--	--	--	--	--	--	-	-	-	-
Lihue	--	--	--	--	--	--	--	--	--	--	--	--	--	-	-	-	-
IDAHO. Boise	76	44	82	36	60	11	0	- .3	0	2.4	141	56	18	0	0	0	0
Lewiston.	73	49	78	42	61	10	T	- .3	T	1.5	94	59	32	0	0	1	0
Pocatello	71	36	80	27	54	7	0	- .3	0	1.7	113	56	20	0	3	0	0
ILL. Cairo	67	47	81	37	57	- 4	.1	- .9	.1	6.8	93	--	--	0	0	2	0
Chicago	58	35	76	24	46	- 4	.9	0	.6	4.7	92	85	45	0	4	2	1
Moline.	63	36	81	27	50	- 2	.5	- .4	.4	3.9	80	85	40	0	4	2	0
Peoria.	61	37	79	30	49	- 4	.7	- .5	.5	5.5	98	87	48	0	3	2	1
Rockford.	60	33	79	23	46	- 3	.3	- .6	.3	3.5	69	84	52	0	5	2	0
Springfield . . .	62	40	82	31	51	- 4	.6	- .4	.5	6.4	116	81	52	0	2	2	1
IND. Evansville. . .	65	38	78	32	51	- 7	.2	- .7	.1	6.3	88	89	41	0	1	1	0
Ft. Wayne	56	36	75	29	46	- 5	.9	.1	.5	6.6	132	82	45	0	2	3	1
Indianapolis. . .	61	36	77	30	49	- 5	.5	- .4	.5	6.1	100	85	42	0	3	2	1
South Bend. . . .	59	38	76	30	49	- 1	.5	- .5	.3	6.9	125	91	53	0	2	2	0
IOWA. Burlington . .	63	39	81	27	51	- 1	.5	- .4	.5	4.8	94	--	--	0	2	1	1
Des Moines. . . .	69	41	86	31	55	4	0	- .7	0	1.9	48	78	37	0	1	0	0
Dubuque	62	36	79	29	49	0	.4	- .6	.4	2.9	53	78	49	0	3	1	0
Sioux City. . . .	73	39	91	24	56	5	T	- .5	T	2.4	86	83	29	1	2	1	0
KANS. Concordia. . .	68	41	86	28	54	0	.2	- .3	.2	4.9	169	80	40	0	1	1	0
Dodge City. . . .	74	40	89	26	57	2	0	- .4	0	3.2	145	74	24	0	1	0	0
Goodland.	71	36	84	23	53	3	.1	- .2	.1	3.8	224	82	24	0	1	1	0
Topeka.	69	40	86	33	55	- 1	.1	- .8	.1	5.1	116	79	36	0	0	1	0
Wichita	70	40	83	30	55	- 3	T	- .7	T	5.0	139	78	37	0	1	1	0
KY. Lexington. . . .	62	38	74	32	50	- 6	.3	- .6	.3	8.1	112	73	36	0	1	2	0
Louisville. . . .	64	38	78	33	51	- 6	.3	- .6	.2	6.5	86	83	37	0	0	2	0

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending April 20, 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	75	51	81	45	63	- 6	.8	- .4	.7	21.3	260	89	39	0	0	2	1
Lake Charles	75	50	82	39	63	- 7	0	- 1.0	0	10.1	163	96	47	0	0	0	0
New Orleans	74	50	80	44	62	- 8	.7	- .2	.7	24.8	310	85	47	0	0	1	1
Shreveport	75	45	82	36	60	- 7	.3	- 1.0	.3	7.4	101	99	40	0	0	2	0
MAINE.Caribou	53	33	64	25	43	5	.5	- .1	.2	5.1	138	70	29	0	4	3	0
Portland	55	32	61	25	43	0	.3	- .5	.3	8.6	154	81	39	0	4	4	0
MD.Baltimore	66	40	79	28	53	- 2	.2	- .5	.2	6.0	111	77	39	0	1	1	0
MASS.Boston	61	41	75	33	51	1	.2	- .6	.1	8.2	137	57	38	0	1	3	0
Chatham	53	39	58	34	47	--	.1	--	.1	7.3	122	75	57	0	0	3	0
MICH.Alpena	52	28	75	21	40	- 1	1.2	.6	.4	4.6	135	--	--	0	4	3	0
Detroit	56	34	71	28	45	- 4	1.2	.4	1.1	7.3	162	83	55	0	2	2	1
Flint	53	34	70	28	44	- 3	.8	.1	.6	4.4	113	85	59	0	4	4	1
Grand Rapids	59	35	77	25	47	- 1	.4	- .4	.3	4.8	104	88	50	0	3	2	0
Houghton Lake	52	28	68	19	40	- 3	.8	.2	.3	3.8	115	87	53	0	5	3	0
Lansing	56	33	72	25	44	- 3	.3	- .4	.3	3.5	83	83	55	0	4	2	0
Marquette	53	26	67	7	39	- 2	.3	- .3	.2	3.8	109	87	45	0	6	2	0
Muskegon	52	33	73	23	43	- 4	.4	- .4	.3	4.8	107	83	50	0	4	2	0
S. Ste. Marie	54	27	69	16	40	1	.7	.2	.3	4.5	145	66	46	0	6	3	0
MINN.Duluth	61	32	74	20	46	6	T	- .6	T	1.5	45	84	29	0	3	0	0
Internatl. Falls	64	31	81	20	48	8	T	- .4	T	1.3	62	69	25	0	4	1	0
Minneapolis	69	39	83	24	54	7	T	- .5	T	1.8	64	70	23	0	1	0	0
Rochester	66	38	82	27	52	6	T	- .6	T	2.0	62	80	39	0	2	0	0
St. Cloud	69	34	84	23	52	8	0	- .6	0	1.3	48	83	--	0	2	0	0
MISS.Jackson	73	45	81	36	59	- 8	.8	- .3	.8	24.8	292	97	39	0	0	2	1
Meridian	73	45	83	38	59	- 7	.2	- 1.0	.1	22.1	235	94	41	0	0	2	0
MO.Columbia	63	40	79	30	52	- 5	1.2	.3	.6	5.1	102	87	53	0	2	2	2
Kansas City	70	43	87	33	57	1	T	- .8	T	4.6	96	81	33	0	0	2	0
St. Louis	64	42	82	32	53	- 5	.5	- .5	.5	5.4	96	84	49	0	1	1	1
Springfield	66	40	80	31	53	- 5	.7	- .4	.5	5.6	98	85	42	0	1	2	1
MONT.Billings	78	46	90	40	62	16	T	- .4	T	1.8	90	42	13	1	0	1	0
Glasgow	77	40	91	35	58	14	T	- .2	T	.5	63	58	16	1	0	1	0
Great Falls	76	44	89	38	60	14	T	- .3	T	1.2	75	46	16	0	0	0	0
Havre	76	41	91	35	58	13	.1	- .1	T	1.9	190	77	19	1	0	2	0
Helena	73	36	85	30	55	10	0	- .2	0	1.3	118	66	18	0	3	0	0
Kalispell	70	35	79	28	53	10	T	- .2	T	1.4	100	81	28	0	2	0	0
Miles City	77	41	90	31	59	12	.2	- .1	.1	1.0	77	56	20	1	1	2	0
Missoula	74	35	84	26	55	10	T	- .2	T	1.3	108	80	23	0	2	0	0
NEBR.Grand Island	70	39	90	25	54	3	.2	- .4	.2	4.1	152	78	33	1	2	1	0
Lincoln	69	40	87	29	54	2	.3	- .3	.2	3.8	123	82	48	0	1	2	0
Norfolk	71	39	91	25	55	5	T	- .5	T	2.1	78	81	28	1	2	0	0
N.Platte	75	35	91	22	55	6	T	- .5	T	3.4	155	72	19	1	2	0	0
Omaha	69	43	87	29	56	5	.1	- .6	.1	2.9	88	80	46	0	1	2	0
Valentine	72	37	92	20	54	7	0	- .4	0	2.0	118	75	27	1	2	0	0
NEV.Ely	71	30	75	23	50	8	0	- .3	0	1.8	120	46	9	0	5	0	0
Las Vegas	88	53	94	47	71	6	0	- .1	0	.9	129	31	9	3	0	0	0
Reno	75	36	82	30	56	8	T	- .1	T	.9	113	69	15	0	2	0	0
Winnemucca	77	32	83	25	54	8	0	- .2	0	.4	44	45	9	0	3	0	0
N.H.Concord	61	29	75	22	45	0	.4	- .3	.3	6.2	141	70	29	0	5	4	0
N.J.Atlantic City	61	37	70	26	49	- 4	.4	- .4	.3	9.5	146	70	47	0	2	1	0
Trenton	63	41	73	31	52	- 1	.4	- .3	.3	10.0	175	--	--	0	1	2	0
N.MEX.Albuquerque	77	37	84	24	57	0	0	- .1	0	.6	86	45	5	0	1	1	0
Roswell	78	41	85	31	60	0	0	- .1	0	.9	129	--	--	0	1	0	0
N.Y.Albany	57	33	73	26	45	- 3	.5	- .1	.2	6.5	155	79	41	0	4	3	0
Binghamton	54	33	65	22	43	- 3	.7	- .1	.6	10.0	213	70	45	0	3	4	1
Buffalo	52	34	63	24	43	- 3	.7	- .1	.5	5.9	126	84	50	0	2	5	1
New York	60	42	69	32	51	- 1	.7	- .1	.7	12.4	203	67	40	0	1	2	1
Rochester	54	35	69	24	45	- 3	.4	- .2	.4	5.0	119	77	50	0	2	2	0
Syracuse	55	33	68	23	44	- 3	.4	- .4	.2	6.6	132	87	51	0	3	4	0
N.C.Asheville	65	41	74	34	53	- 4	.6	- .2	.5	12.4	180	87	32	0	0	1	1
Charlotte	67	42	75	37	55	- 7	.2	- .6	.1	10.2	152	82	29	0	0	1	0
Greensboro	67	41	76	30	54	- 6	.3	- .4	.3	7.2	131	63	29	0	1	1	0
Hatteras	66	48	73	37	57	- 3	1.5	.8	1.4	8.4	150	80	51	0	0	2	1
Raleigh	72	43	79	33	58	- 3	1.0	.3	1.0	6.0	111	94	35	0	0	1	1
Wilmington	68	47	74	38	58	- 7	.6	0	.6	5.5	95	77	40	0	0	1	1
N.DAK.Bismarck	74	35	89	23	54	10	T	- .4	T	.7	41	69	18	0	2	0	0
Fargo	73	38	94	25	56	12	T	- .5	T	.6	29	64	16	1	2	1	0
Williston	76	35	92	29	55	11	T	- .3	T	.5	36	72	20	1	3	1	0
OHIO.Akron-Canton	56	35	72	25	46	- 4	1.0	.2	.8	7.6	143	73	42	0	2	3	1
Cincinnati	58	34	77	23	46	- 9	.2	- .6	.1	7.8	126	91	49	0	3	2	0
Cleveland	55	34	70	24	44	- 5	1.1	.3	.9	6.5	125	79	49	0	2	3	1
Columbus	60	36	75	28	48	- 4	.5	- .4	.3	5.5	98	66	39	0	1	3	0
Dayton	59	35	75	26	47	- 5	.7	- .1	.4	7.4	137	82	42	0	3	3	0
Toledo	57	34	73	27	46	- 4	.8	.1	.7	6.0	140	84	48	0	2	2	1
Youngstown	54	30	70	18	42	- 7	.6	- .2	.4	7.2	133	73	64	0	4	2	0

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending April 20, 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
OKLA.Okla. City	73	41	83	27	57	- 5	T	- .8	T	1.4	35	79	27	0	1	1	0
Tulsa	75	46	86	36	60	- 2	.1	- .9	.1	4.2	84	71	33	0	0	2	0
OREG.Astoria	58	44	62	35	51	3	1.3	.2	.8	10.9	116	90	70	0	0	6	1
Burns	69	33	75	25	51	6	0	- .1	0	1.0	91	78	20	0	3	0	0
Medford	71	39	80	34	55	4	1.0	.8	1.0	3.0	136	88	33	0	0	1	1
Pendleton	69	43	77	37	56	4	T	- .2	T	1.7	113	74	40	0	0	1	0
Portland	65	46	75	40	56	5	1.0	.5	.5	5.7	116	93	56	0	0	3	1
Salem	63	43	72	34	53	3	1.1	.6	.6	7.0	123	95	58	0	0	3	1
PA.Allentown	62	37	74	30	50	- 2	.7	- .2	.4	6.5	112	74	43	0	2	3	0
Erie	50	34	67	22	42	- 5	1.0	.2	.5	6.8	139	--	--	0	2	5	1
Harrisburg	63	38	76	29	51	- 2	.5	- .2	.5	7.4	148	75	43	0	1	1	1
Philadelphia	64	40	76	27	52	- 2	.2	- .6	.2	8.8	154	71	33	0	1	2	0
Pittsburgh	57	35	72	21	46	- 5	.8	0	.5	8.1	145	81	41	0	2	4	1
Scranton	61	35	75	27	48	- 1	.6	- .1	.5	5.3	123	72	31	0	2	3	1
R.I.Providence	61	39	72	31	50	2	.4	- .4	.3	12.0	194	67	38	0	1	4	0
S.C.Charleston	71	47	77	45	59	- 6	2.1	1.5	2.0	11.2	175	86	43	0	0	3	1
Columbia	71	42	76	34	57	- 8	.2	- .6	.2	11.5	169	85	36	0	0	1	0
Greenville	67	44	74	38	55	- 7	.8	- .2	.8	14.4	176	82	34	0	0	1	1
S.DAK.Aberdeen	73	36	93	24	54	8	0	- .5	0	2.2	105	69	21	1	3	0	0
Huron	74	34	96	18	54	7	T	- .5	T	1.7	77	74	19	1	3	0	0
Rapid City	73	39	87	27	56	10	.3	- .2	.2	1.8	82	64	19	0	1	2	0
Sioux Falls	74	38	93	21	56	9	T	- .6	T	1.4	50	81	28	1	2	1	0
TENN.Chattanooga	69	41	79	37	55	- 7	.3	- .7	.1	19.5	232	82	30	0	0	2	0
Knoxville	70	42	78	35	56	- 5	.1	- .7	.1	11.0	157	91	39	0	0	2	0
Memphis	70	47	81	38	58	- 5	.1	- 1.2	.1	16.9	199	74	43	0	0	3	0
Nashville	70	43	81	37	57	- 5	T	- 1.0	T	10.3	136	77	31	0	0	1	0
TEX.Abilene	80	49	89	38	65	- 2	T	- .6	T	.8	33	52	14	0	0	0	0
Amarillo	74	36	85	27	55	- 3	T	- .3	T	1.7	131	60	14	0	1	0	0
Austin	81	48	90	38	65	- 5	0	- .9	0	3.8	93	73	22	1	0	0	0
Beaumont	77	49	82	36	63	- 7	0	- 1.0	0	7.3	135	96	46	0	0	0	0
Brownsville	83	56	90	38	70	- 6	0	- .3	0	.1	8	91	33	1	0	0	0
Corpus Christi	82	50	89	33	66	- 7	0	- .5	0	.6	26	80	30	0	0	0	0
Del Rio	86	51	89	39	69	- 4	0	- .4	0	.7	44	55	12	0	0	0	0
El Paso	83	43	92	35	63	- 2	0	0	0	.5	83	35	9	1	0	0	0
Fort Worth	78	48	83	41	63	- 3	0	- 1.1	0	2.4	46	78	28	0	0	0	0
Galveston	73	59	80	44	66	- 4	.1	- .5	.1	4.3	102	84	47	0	0	1	0
Houston	80	49	84	39	64	- 6	0	- .8	0	5.7	119	94	30	0	0	0	0
Lubbock	80	41	87	31	61	0	0	- .2	0	.4	31	53	11	0	1	0	0
Midland	80	40	87	35	60	- 5	0	- .2	0	.2	25	56	10	0	0	0	0
San Angelo	81	44	88	37	63	- 6	0	- .4	0	1.2	67	71	16	0	0	0	0
San Antonio	84	45	88	33	65	- 6	0	- .6	0	1.5	48	71	18	0	0	0	0
Victoria	80	51	84	35	66	- 6	0	- .6	0	2.3	70	88	33	0	0	0	0
Waco	76	45	81	36	61	- 8	T	- 1.0	T	4.2	88	88	32	0	0	0	0
Wichita Falls	79	43	90	32	61	- 3	0	- .8	0	1.1	30	73	20	1	1	0	0
UTAH.Blanding	73	38	78	28	55	7	0	- .2	0	1.9	136	43	9	0	1	0	0
Salt Lake City	75	42	85	35	59	8	0	- .5	0	2.7	90	55	20	0	0	0	0
VT.Burlington	54	34	70	27	44	0	.7	.1	.4	4.5	129	80	43	0	4	4	0
VA.Lynchburg	67	41	78	29	54	- 3	.7	.1	.7	7.4	145	73	43	0	1	1	1
Norfolk	67	46	76	39	56	- 2	.3	- .3	.3	4.2	86	70	39	0	0	1	0
Richmond	70	44	81	34	57	- 2	.4	- .2	.4	6.6	132	73	35	0	0	1	0
Roanoke	67	40	79	27	53	- 4	2.2	1.6	2.2	9.2	184	92	31	0	1	1	1
WASH.Colville	67	42	74	37	55	8	.5	.3	.5	3.4	213	--	--	0	0	1	1
Omak	68	43	71	32	55	6	0	- .2	T	1.7	131	59	49	0	1	2	0
Quillayute	55	41	59	33	48	2	4.0	2.1	1.5	17.7	111	97	70	0	0	5	3
Seattle-Tacoma	59	45	67	38	52	3	1.7	1.1	1.0	5.1	100	84	66	0	0	5	1
Spokane	68	44	73	38	56	9	T	- .2	T	1.3	57	72	35	0	0	0	0
Walla Walla	71	49	78	42	60	7	T	- .4	T	1.9	83	67	43	0	0	0	0
Yakima	68	44	75	33	56	6	.3	.2	.3	1.2	171	77	30	0	0	2	0
W.VA.Beckley	61	35	73	23	48	- 5	.2	- .6	.1	5.4	86	77	29	0	3	3	0
Charleston	65	36	78	26	51	- 6	.5	- .3	.4	7.2	120	79	27	0	1	2	0
Huntington	62	38	79	29	50	- 7	.6	- .1	.5	6.6	108	79	31	0	1	1	1
Parkersburg	64	38	76	30	51	- 4	.3	- .5	.3	6.2	107	77	36	0	1	2	0
WISC.Green Bay	57	33	73	25	45	0	.4	- .2	.2	3.2	97	92	43	0	4	2	0
La Crosse	67	39	81	30	53	4	0	- .6	0	2.4	67	90	42	0	3	0	0
Madison	61	32	79	22	47	0	.5	- .1	.4	2.9	81	89	39	0	3	2	0
Milwaukee	55	36	73	25	45	- 1	1.0	.3	.9	4.1	103	80	49	0	4	2	1
WYO.Casper	71	35	81	28	53	9	T	- .4	T	1.5	79	52	12	0	3	0	0
Cheyenne	66	35	76	25	51	7	0	- .4	0	1.7	81	56	23	0	2	0	0
Lander	70	35	78	30	53	9	0	- .6	0	2.4	89	54	13	0	3	0	0
Sheridan	74	36	83	29	55	10	.1	- .4	.1	1.6	62	62	19	0	2	0	0
P.R.San Juan	87	75	90	73	81	3	0	- .8	0	2.6	68	90	61	1	0	1	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 6° sub-normal; coolest early week. Drier weather, most rainfall amounts under 0.50 in. on 18th.

Fieldwork: 2.4 days suitable. Soil moisture mostly surplus. Activities: Land preparation, corn planting on drier soils. Planting progress: Corn 32%, 51% 1979, 41% average; cotton 6%, 8% 1979, 29% average; peanuts 5%, 15% 1979, 10% average; sorghum 3%, 5% 1979. Wheat 34% headed, 31% 1979; turning in some fields. Pastures improving.

ARIZONA: Sunny, dry weather prevailed. Deserts climbed into 100's 1st time this year. Weekend few light showers in southeast, mountain areas. Amounts less than 0.10 in. Temperatures 1 to 9° above normal.

Small grains making good progress. Most small grains heading, some color fading. Cotton 73% planted, 56% last year. Leaf development progressing earlier planted fields. Limited corn planting in progress. Seedbed preparations for sorghum in progress. Good progress continued sugarbeets, safflower. Alfalfa haying continued. Harvest lettuce, mixed vegetables seasonal progress. Above normal temperatures accelerated growth spring, early summer crops. Watermelons, cantaloups very good growth; thinning, weeding, some vine turning underway. Deciduous fruit trees, grapes growing well. Valencia harvest full swing, grapefruit harvest increasing. Citrus groves appear generally good condition. LP gas adequate. Diesel supplies adequate except north where supplies deficient to adequate. Gasoline supplies adequate except southeast supplies tight to adequate. Range, pasture fair to good condition. Water supplies short in some southern areas. Mostly adequate elsewhere. Pastures supplying average amounts feed. Cattle fair to good condition.

ARKANSAS: All areas received rainfall. Highest normal 65°, lowest 58°. Highest mean 61°, lowest 54°. Highest temperature 85°, lowest 25°.

Planting of cotton, soybean, rice halted. Fieldwork: 3 days suitable. Soil moisture mostly surplus. Water and frost damage in some areas. Diesel, gasoline and LP gas 87% adequate, 13% surplus. Wet conditions hampered soybean fieldwork. Rice planting progress minimal due to wet weather; 6% planted, 15% 1979, 30% average. Cotton 3% seeded, 3% 1979, 7% average. Corn 7% planted, 34% 1979, 46% average. Sorghum 4% seeded, 11% 1979, 19% average. Wheat condition good. Hail, frost and water damage. Most fields boot stage. Oats condition good. Spraying and pruning fruit trees. Apples and peaches good condition. Frost damaged some peaches. Strawberries good condition. Tomatoes severely damaged by frost. Pastures average. Fescue growing well. Alfalfa condition good. Cattle condition good.

CALIFORNIA: Warmest temperatures of year. Southeastern deserts reached 100°. Only a few light sprinkles on north coast; otherwise rain-free.

Cotton planting full swing, 75% planted, 87% last year. Most cotton Kern County and southern California planted; good germination. Most early small grains headed. Harvest of alfalfa, grain for hay, green chop increasing. Preparation of rice fields active. Very limited acreage planted. Planting active this week. Sugarbeet harvest, planting continued. Planting field corn, dry beans becoming active. Irrigating orchards and vineyards active San Joaquin Valley. Harvest freestone peaches began southern California. Avocado, Valencia oragne harvest continued. Artichokes moderate supply central coast. Asparagus harvest finishing desert, active other areas. Broccoli, cauliflower fairly heavy supply central coast. Celery harvest light south coast. Lettuce harvest peaked central San Joaquin, decreasing Kern, light central coast. Processing spinach harvest decreasing. Strawberry volume increasing, picking started San Joaquin Valley, still light central coast. Range, pastures, provide more than ample feed. North winds dried ranges, grasses beginning to mature. Calving beginning to taper north. Fuel supplies generally adequate.

COLORADO: Very little precipitation; greatest amount on eastern plains, less than 0.02 in. Temperatures generally below normal beginning of week but rose to record highs over parts of east by weekend.

Winter wheat very good condition. Barley seeded 43%, 32% 1979, 50% average. Oats seeded 24%, 16% 1979, 48% average. Sugarbeets 17%, 21% 1979, 34% average. Fieldwork: 3.5 days suitable. Ranges and pastures good to very good condition. Livestock good condition. Soil moisture supplies adequate. Fuel supplies adequate.

FLORIDA: Rain to most areas along with cooler temperatures midweek. Thunderstorms, hail, and few tornadoes 19th. Some crop damage from hail, south and northeast. Rainfall for period averaged 0.50 to 1.50 in., while temperatures ranged from 2 to 6° below normal.

Soil moisture generally adequate to surplus. Corn planting delayed by wet soils west. Early corn up, growing. Cool weather slowed growth. Blue mold a problem in tobacco. Peanut planting interrupted by rains. Sugarcane harvest complete. Young cane good growth. Small grains mostly good condition. Fuel supplies adequate. Pastures mostly good to excellent, except for scattered low-lying areas. Cattle in fair to good condition. Citrus tree condition excellent. Rain all areas, moisture adequate. New crop fruit set period. New growth all trees. Valencia orange harvest continued to increase. Grapefruit harvest slowing with supplies running out. General vegetable crop condition continued fair to very good. Quality, size, yields continue fair to very good but variable some crops. Overall vegetable shipments held steady from previous week. Supplies cucumbers, eggplant increased considerably; chinese cabbage, sweet corn, escarole, parsley, potatoes, radishes also increased. Snap beans, cabbage, lettuce, okra, peppers held steady but shipments carrots, cauliflower, strawberries, tomatoes decreased. Potato season winding down Dade County. Some quality problems but improving. Harvest declining southwest. Quality, size, yields remain good. Crops Hastings area making fair to good progress until hailstorm hit afternoon 19th. Considerable acreage flattened. Harvest expected

two more weeks west central area. Strawberry season about complete Plant City area. Watermelon crop fair to good southwest. Growth, progress improved. Harvest very light. Crops making good progress west central area. Bloom, fruit set evident. Crops improving southeast area. Vines running. Fruit set increasing. Crops north central, north, west fair condition. Growth good.

GEORGIA: Wet north, with amounts locally over 4.00 in; around 1.00 in. south. Below normal temperatures statewide ranged from near 50's north to mid-60's south.

Soil moisture adequate to mostly surplus. Fieldwork: 3 days suitable. Planting still slowed. Corn 50% planted, last year 88%, average 76%; mostly fair to good condition. Watermelons 52% planted, last year 88%, average 83%; fair to good condition. Cotton 13% planted, last year 52%, average 44%; mostly fair to good condition. Peanuts 9% planted, last year 27%, average 30%; mostly fair to good condition. Sorghum 5% planted, last year 14%. Small grains fair to mostly good. Cattle and hogs good. Vegetables poor to mostly fair condition. LP gas 94% adequate, diesel fuel 93% adequate, gasoline 93% adequate.

HAWAII: Weather variable. Some sections received heavy rains early week slowing crop progress.

Spoilage to leafy crops. Yields, quality reduced. Wet conditions partially curtailed sugar harvest some plantations. Vegetable supplies generally light to moderate. Banana supplies light. Papayas seasonally up; light rains beneficial. Pineapple harvesting steady. Wet fields not favorable to normal harvest for sugar. Pastures generally fair to good. Fuel supplies adequate.

IDAHO: Above normal temperatures. Extremes: 14 and 87°. Precipitation continued below normal with only measurable rainfall in north.

Planting percentages increase with 6 days suitable for fieldwork. Spring wheat 50%, spring barley 40%, both higher than 1979 levels. Sugarbeets 58% planted, 16 points higher than 1979. Onion planting well underway. Dry pea just below 1979 level at 12%. Lentil planting at 20%, 4 times the 1979 level. Winter wheat in fair condition. Continued potato planting. Apricots and cherries blooming. Calving near completion. Sheep shearing continues. Hay supplies tight. Range and pasture maturing well. Fuel supplies adequate.

ILLINOIS: Temperatures 6° below normal to 1° above normal. Precipitation 0.33 to 0.85 in. north, 0.10 to 0.20 in. south, 1 to 4 in. snow central.

Soil moisture mostly adequate. Corn planting less than 1% complete, 1% 1979, 5% average. Winter wheat good. Oat seeding 21% complete, 45% 1979, 70% average. Alfalfa good. Plowing 1980 corn, soybean acreage 78% complete, 70% 1979, 80% average. Pastures good. Fieldwork: 1 day suitable.

INDIANA: Temperatures to 25° and snow on 15th. Much sun, drying winds and temperatures to 80° afterwards. Precipitation averaged 0.10 in. south to 0.30 in. north. Sunshine 71% of possible.

Soil temperatures 3° below normal. Fieldwork: nil. Topsoil and subsoil moisture adequate to mostly surplus. Spring planted cropland 55% plowed, 1979 60%, average 70%. Wheat fair to mostly good; 5 in. tall, 1979 5 in., average 7 in.; 5% jointed, 1979 10%. Oats 5% seeded, 1979 30%, average 65%. Clover 60% seeded, 1979 70%. Tobacco plantbeds 35% seeded.

IOWA: Week began cool with snow over southeast and east central. By end of week temperatures rose to near or record-breaking daily levels.

Fieldwork: 3.7 days suitable. Oat acreage seeded 55%, last year 32%, normal 55%. Plowing 66% complete, last year 57%, normal 68%. Topsoil and subsoil moisture adequate. Cover crops fair to good condition. Livestock in good condition, replacements slow, tight money.

KANSAS: Precipitation limited to east and north, generally less than 0.10 in. Few locations southeast and northeast reported 0.25 to over 0.50 in. Temperatures ranged 54 to 58°, 4° above normal northwest, 3° below normal south central.

Wheat growth stimulated; 15% jointed, equal last year, 35% average. Soil-borne mosaic prevalent east two-thirds. Fieldwork moderately active. Oats 75% seeded, 50% last year, 85% average. Barley 75% seeded, 60% last year, 90% average. Corn 3% planted, 2% last year, 8% average. Pasture growth slow.

KENTUCKY: Slightly below normal temperatures and precipitation. Very cool early week then warming. Precipitation below normal and averaged around 0.50 in.

Fieldwork: 2.5 days suitable; 12 days behind normal. Soil mostly surplus. Plowing 46% complete, 62% normal. Corn planting 1% complete, 3% last year, 16% normal. Barley 3% headed. Tobacco beds 85% seeded, 100% normal. Plants emerged in 25% of beds, 54% last year. Plants small but in good condition. No major freeze damage to fruit.

LOUISIANA: Rains light statewide. Temperatures 6 to 9° below normal. Extremes: 34 and 84°.

Soil moisture surplus. Fieldwork: 1.7 days suitable. Corn planting 40%, 68% 1979, 69% average; emerged 30%, 54% 1979; condition fair. Rice planting 57%, 53% 1979, 62% average; emerged 45%; condition fair. Sugarcane fair, growth slow. Small grains good; 38% headed. Pastures, livestock good. Vegetables fair. Sweetpotato planting light. Volume strawberry harvest continued.

MARYLAND & DELAWARE: Temperatures averaged 1 to 7° below normal. Highs in mid-60's and lows in mid-40's. Precipitation averaged 0.54 in.

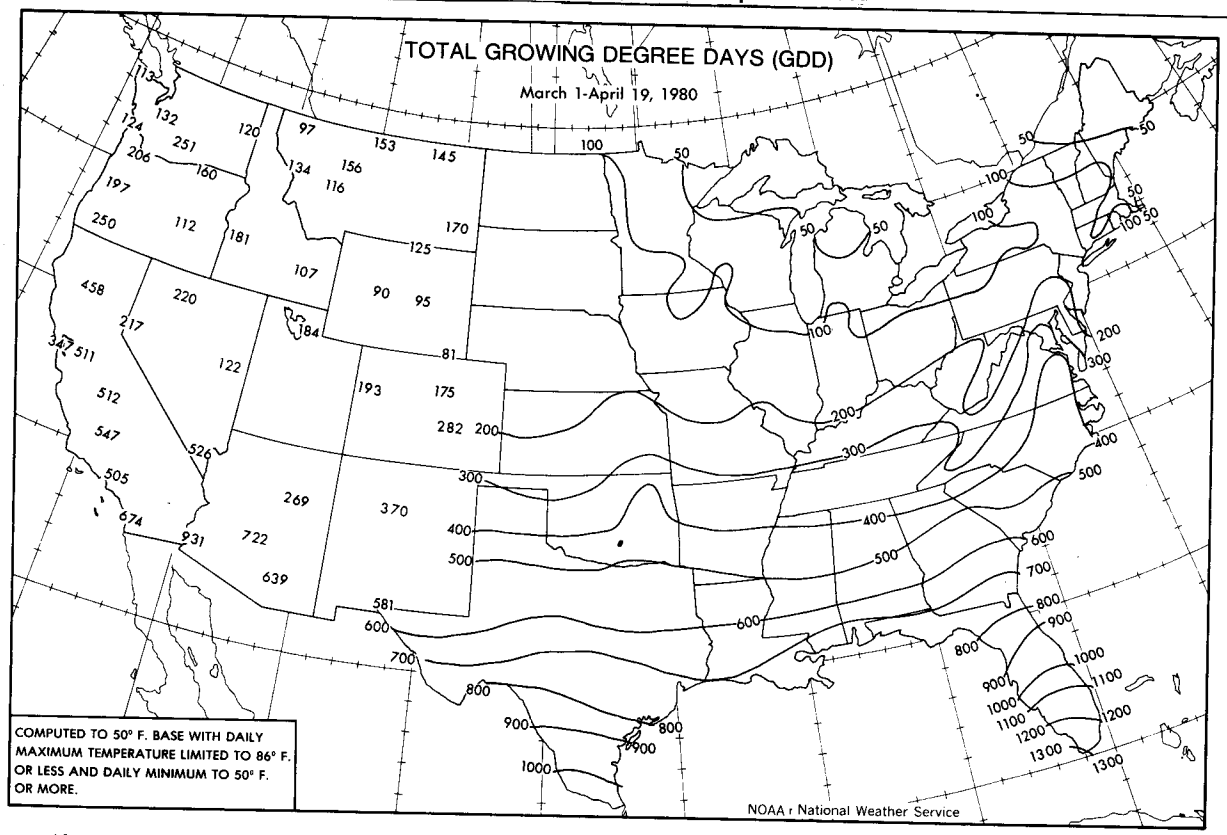
Plowing for corn about 50% complete. Small grains good to excellent condition. Tobacco growers spraying plant beds and marketing last year's crop. Fruit growers spraying and pruning trees. Apple full bloom expected about May 1.

MICHIGAN: Temperatures in Lower Peninsula varied from zero to 3° below normal. Upper Peninsula ranged from 2° below to 4° above normal. Precipitation fell mostly at beginning and end of week. Amounts varied from 1.00 in. eastern Lower to 0.50 in. western Lower and from 0.70 in. eastern Upper to 0.05 in. western Upper.

Main farm activities: Plowing, sugarbeet planting.

MINNESOTA: Temperatures averaged 6 to 10° above normal. Extremes: 94 and 17°. Precipitation averaged 0.50 in. or more below normal. Precipitation totals trace or less except for southwest with less than 0.20 in.

Small grain seeding accelerating west. Corn planting may begin this week. Soil moisture sur-



plus south; mostly adequate elsewhere, few areas short. Seeded: Spring wheat 10%, 1979 0%, normal 21%; oats 5%, 1979 1%, normal 24%; barley 5%, 1979 0%, normal 12%, sugarbeets 22%, 1979 0%, normal 4%. Corn ground 1% prepared, 1979 1%, normal 10%.

MISSISSIPPI: Temperatures 10° below normal. Average rainfall 1.00 to 2.00 in. Extremes: 30 to 83°. Some frosts in north.

Soil moisture mostly surplus to excessive. Fieldwork: 2.0 days suitable. Rains from previous week kept farmers off fields early week. By weekend some fields dry enough to be planted and fertilizer application began. Plowing 37% complete, 62% 1979, 67% average. Cotton less than 2% planted, 3% 1979, 9% average. Peanut planting just underway. Watermelon 36% planted, 73% 1979. Corn 32% planted, 49% 1979, 49% average; 15% up to stand, 31% average; condition good to fair. Rice 24% planted, 11% 1979, 36% average; 3% up to stand, 1% 1979, 10% average. Wheat 88% jointing, 94% 1979; 12% headed, 19% 1979; condition good to fair. Peaches mostly good condition. Pastures fair to good condition. Livestock fair to good condition. Fuel supplies adequate.

MISSOURI: Temperatures averaged 7° below normal. Precipitation averaged 0.25 in. northwest, 0.50 in. central, 1.00 in. southeast.

Fieldwork: 1.6 days suitable. Plowing 63% completed, last year 62%, normal 66%. Oats 39% sown, last year 27%, normal 73%. Corn 3% planted, last year 3%, normal 20%. Cotton 1% planted, last year 1%, normal 6%. Condition of winter wheat mostly good. Condition of pasture mostly fair to good. Topsoil moisture adequate to surplus. Fuel supplies adequate.

MONTANA: Very warm; temperatures averaged from 7 to 15° above normal. Very dry except for southeast where some areas received around 0.25 in. rain midweek.

Topsoil moisture short to adequate; northeast mostly short. Fieldwork: 5.8 days suitable. Winterkill of winter wheat mostly light to moderate. Planting progress:: Spring wheat 15%; barley and oats 10%; sugarbeets 40%. Calving 75%, lambing 65%, and shearing 65% complete. About 75% cattle and sheep still on supplemental feed.

NEBRASKA: Precipitation light averaging less than 0.10 in. Temperatures averaging 8° above normal west; 4° above normal east.

Oats planting 60% complete, year ago 42%; normal 60%. Winter wheat condition rated mostly good. Topsoil and subsoil moisture adequate. Fieldwork: 4.9 days suitable. Pastures greening. Most calving completed.

NEVADA: Cold, dry early; sunny and warm remainder of week. Temperatures averaged 8° above normal. Extremes: 93 and 16°. No precipitation.

Cutting alfalfa hay extreme southern valleys. Good progress fieldwork. Livestock starting to move to summer ranges.

NEW ENGLAND: Rain 14th 0.30 to 0.60 in. Cold front passed on 16th producing a few showers and flurries. Fair rest of week, with a few light showers 20th. Temperatures near normal.

NEW JERSEY: Temperatures averaged 1 to 3° below normal. Extremes: 25 and 78°. Rainfall averaged 0.48 in. north, 0.56 in. central, 0.96 in. south. Soil moisture in percent of field capacity 98% north, 95% central, 92% south. Soil temperatures 49° north, 53° central, 55° south.

Many farmers 10 days to 2 weeks behind schedule. Field activity increasing as fields dry out. Fieldwork: 3.4 days suitable. Plowing, discing, spreading fertilizer and lime, planting potatoes and vegetables and spraying fruit trees. Peaches in full bloom. No serious damage from freeze on 16th.

NEW MEXICO: Very cold beginning week, warming rapidly 15th and 16th and remaining warm through

weekend. Temperatures averaged near normal to a few degrees cooler than normal. No precipitation.

Soil moisture in short supply with light planting operations underway southeast and south central. Planting cotton underway in south Dona Ana County. Alfalfa fair to good condition. Irrigated wheat and barley in good condition with dryland crop in poor condition. Corn planting underway in south. Onions and lettuce good condition. Potato planting underway in Torrance County, emerging in Portales area. Ranges good condition. Thousands of sheep dead in De Baca-Guadalupe County area from storm April 11 and 12th. Cattle good condition.

NEW YORK: Cool with near normal precipitation. Temperatures averaged 1 to 3° below normal. Daytime highs in 30's and 40's midweek, 60's on 19th and 20th. Precipitation generally slightly below normal, up to 0.50 in. below normal in St. Lawrence Valley. Traces of snow in Adirondacks.

NORTH CAROLINA: Temperatures 1 to 5° below normal. Precipitation moderate. Midweek frost caused little damage.

Fieldwork: 3.3 days suitable. Soil moisture adequate to surplus. Condition of wheat, oats, barley, rye, mostly good, declining; pasture mostly good, improving; tobacco beds mostly good, declining; Irish potatoes mostly fair to good, declining; peaches fair to mostly good, improving; truck crops fair to good, improving. Tobacco plant supply adequate. Plantings: Irish potatoes 72%; corn 46%; 51% 1979, 57% average; cotton 5%, 20% 1979, 14% average; flue-cured tobacco 6%, 10% 1979, 11% average; sorghum, peanuts, soybeans underway; summer cabbage 15%, watermelons 20%, spring cucumbers and green peppers 25%, tomatoes 10%, summer snaps underway. Major activities: Spring planting and land preparation.

NORTH DAKOTA: Week began warm and dry, ended hot and dry. Southwest and south central recorded small amounts of precipitation. Record highs set during past four days. Northeast set new records on 18th 85°, and 20th 95°. Southwest set new record 20th with 93°. Extremes: 15 and 97°.

Seeding progress ahead of normal. Hard red spring 12% planted, 7% average. Durum 4%, 3% average. Oats 8%, 4% average. Barley 9%, 4% average. No acreage planted at this time last year, an extremely late planting season. Sugarbeet planting progress exceeds 20%. Soil moisture extremely short. Livestock in good to excellent condition. Calving and lambing winding up with losses light. Calving 78% complete, lambing 84% complete.

OHIO: Average temperatures 3 to 6° below normal. Week started damp and cool; temperatures rose during midweek, and by weekend summerlike weather prevailed. Precipitation 0.25 to 0.50 in. below normal. Soil temperatures averaged in 40's, but rapid warm-up expected. Cumulative growing degree days since April 1 20 to 50° below normal.

Farmers itching to get in fields and able to make some progress by end of period. Open weather over weekend should allow speed-up of plowing, land fitting and planting. Land plowed for spring planting 60%, 75% 1979, 80% average. Corn planted less than 5%, less than 5% 1979, 5% average. Oats planted 5%, 25% 1979, 55% average. Potatoes planted 5%, 15% 1979, 25% average. Tobacco sown 75%, 80% 1979, 90% average. Wheat height 3 in. Fieldwork: 1 day favorable. Pasture condition fair to good. Soil moisture surplus.

OKLAHOMA Dry, rainfall less than 0.10 in. Temperatures mostly 2 to 5° below normal except Panhandle near normal. Extremes: 25 and 90°.

Wheat fair to good condition; excellent growth. Wheat jointing 75%, 80% 1979, 80% average. Soil drier than last year and normal. Seedbed preparations: Cotton 50%, 40% 1979, 40% average; sorghum 50%, 45% 1979, 45% average; corn 75%, 90% 1979, 80% average. Corn planted 15%, 10% 1979, 15% average; up to stand 5%, 5% 1979, 5% average. Cooler temperatures and drier soil conditions; pasture and range development later than average.

OREGON: Temperatures quite warm, averaging 3 to 5° above normal. Precipitation nonexistent east Cascades; western portions had rain varying from only a few hundredths in southwest sections, to 0.30 to 0.40 in. in Willamette Valley and along coast.

Soil moisture supplies adequate. Winter wheat condition mostly good. Spring grain seeding and reseeding near complete in all but higher elevations. Fertilizing and spraying nearly complete west; underway east. Summer fallow operations well along. Good weather kept field activities going. Cherries, pears, prunes in full bloom; spray programs in full swing. Peaches past full bloom. Caneberry and strawberry planting underway. Cranberries showing good growth. Filberts leafing out, leaf roller sprays going on. Asparagus and rhubarb harvest starting. Potato and onion plantings progressing. Other vegetables going in. Livestock condition good west, fair to good east. Range and pasture conditions good west; fair east. Some pasture reseeding underway. Tansy ragwort spraying active. Range conditions improving. Hay short.

PENNSYLVANIA: Mild and wet first two days, clearing and turning much colder mid-period. Warming trend with generally sunny skies last three days. High temperatures remained in 30's and 40's with lows in teens and 20's 16th with snow flurries north. Much warmer by weekend when maxima reached into 70's. Readings 2 to 6° below normal. Extremes: 16 and 79°. Precipitation first several days totaled from 0.25 in. extreme east to 0.50 to 0.75 in. elsewhere.

Fieldwork: 3 days suitable. Soil moisture surplus. Activities: Plowing; discing, spreading manure, lime, and fertilizer; spraying; orchard pruning; trimming; tying grapes; planting oats, alfalfa, clover, potatoes, sweet corn, cabbage plants, and tobacco beds. Plowing 18%, last year 26%. Oats planted 8%, last year 20%. Potatoes less than 5%, 9% in 1979. Tobacco beds 60% sown, last year 90%. Barley and wheat preboot, condition good. Hay stands mostly good to fair condition. Feed from pastures mostly average. Peaches 6% pink, cherries 12%, apples under 5%.

PUERTO RICO: Island average rainfall 1.38 in. or 0.27 in. above normal. Temperatures averaged about 77 to 78° on coasts and 73 to 74° interior. Extremes: 93 and 58°.

SOUTH CAROLINA: Cooler than usual with midweek scattered frosts northwest, central. Latest temperatures near normal. Scattered showers mostly light, some locally heavy.

Soil moisture adequate to surplus. Plowing 44% completed. Corn condition fair; 43% planted, 84% last year, 80% average. Cotton fair; 6%

planted, 41% last year, 39% average. Tobacco fair to good with localized heavy rains washing out plants; 36% planted, 80% last year, 69% average. Peanuts 1% planted, 16% last year, 26% average. Sweetpotato 2% planted, 7% last year. Peaches fair to good, maintaining spray schedules. Wheat fair to good condition, some mildew due to excess moisture. Tomato condition good, but some midland frost, coastal wind injury; 89% planted, 95% last year. Cucumber fair condition; 65% planted, 93% last year. Snap beans fair to good; 82% planted, 88% last year.

SOUTH DAKOTA: Unseasonably warm temperatures averaged 5 to 13° above normal. Extremes: 97 and 14°.

Fieldwork substantially increased, almost uninterrupted. Soil moisture adequate most of east and south, short elsewhere. Fuel supplies adequate. Farm activities: Planting, discing stubble, calving, fence repair. Winter wheat and rye turning green, fair to good, needs rain; light to moderate kill of wheat, light kill on rye. Livestock good, range fair but needs moisture. Feed adequate, stock water low. Limited movement of livestock to pastures. Light death loss. Calving 67% complete; lambing over 85% complete. Oats seed 40%, 1979 7%, average 34%. Barley seeded 39%, 1979 4%, average 28%. Spring wheat seeded 51%, 1979 3%, average 32%. Flax planting 3%, 1979 3%, average 3%.

TENNESSEE: First of week heavy rains in all areas. Temperatures 5° below normal with warming trend late week. Rain again in west on 17th.

Fieldwork: 2.1 days suitable. Soil moisture surplus. Spring plowing 50% complete, 1979 52%, average 65%. Tobacco plantbeds 90% seeded, 1979 95%, 98% average. Corn planted 10%, 1979 11%, average 17%. Cotton 2% planted, 1% 1979, average 6%. Pastures fair to good. Gas and diesel fuel supplies adequate. Cattle in good condition. Frost midweek caused some fruit tree and vegetable damage. Activities: Plowing, planting when weather permitted.

TEXAS: High pressure dominated bringing clear skies and normal temperatures. Rainfall below normal; temperatures normal.

South Central, South Texas sustained brunt of damage inflicted by prior weekend's cold front; will cause some corn to be replanted; replanting of cotton, sorghum not as widespread. Snow, hail associated with front fell over Plains, Trans-Pecos, East Texas. Fortunately, few fields had been planted there, thus moisture was welcomed. Warmer, open weather prevalent rest of week enabling Central Texas producers to resume cotton planting, finish corn, sorghum plantings. While lower Rio Grande Valley escaped frost, freezing temperatures, high winds caused burn damage to cotton, corn, milo some localities. Earliest planted valley cotton fields began putting on squares. Cotton planting centered Blacklands as southern portions of State winding down plantings. Plains producers prewatering, applying herbicides as planting should begin early in May. Cold in South Texas might delay part of crop several weeks, although replanting minimal. American-Pima cotton that had been planted Trans-Pecos will probably be replanted due cold temperatures. Over 20% of state's corn crop planted during week; High Plains producers moved planting operations into high gear. Cold snap inflicted heavy damage to Central, South Texas stands. Number of fields will be replanted. Some older stands were stunted by cold. Third of Edwards Plateau sorghum crop planted while Plains, Cross-Timbers producers are just beginning. Planting in other areas either winding down or completed. Insects causing problems in South Texas localities; rootworms inflicting damage on lower Gulf Coast fields; yellow sugarcane aphids damaging lower Valley stands. Small grains made good growth where moisture adequate. Many Plains dryland wheat fields suffering for moisture; most Plains irrigated fields jointing. Few southern Low Plains wheat fields began to head prematurely from moisture stress but most heading occurring in Central, South Texas. Oat heading more widespread, occurring from South Texas to Cross-Timbers. Some emerged rice fields suffered minor damage from cold but many recovering fields flushed in preparation for herbicide application. Peanut planting active South Central Texas while land preparation continues Cross-Timbers, Edwards Plateau. Cotton planted 16%, 15% 1979, 16% average. Rice planted 85%, 53% 1979, 78% average; emerged 37%. Sorghum planted 64%, 50% 1979, 53% average. Wheat headed 7%, 0% 1979. Corn planted 63%, 47% 1979, 51% average. Peanuts planted 9%, 7% 1979, 13% average. Sugarbeets planted 87%, 86% 1979, 90% average.

New forage growth temporarily set back by cold temperatures. Native grasses greening, however, moisture badly needed most areas. Supplemental feeding continued to taper off. Sheep, goat shearing active. Livestock remained fair to good condition.

Lower Rio Grande Valley movement onions, cabbage, carrots, parsley active. Some wind damage to peppers, tomatoes, melons. Citrus fruits developing well and about marble size. Citrus groves being irrigated and sprayed. Coastal Bend area some damage to watermelons from cold weather. San Antonio-Winter Garden area, carrot harvest continued. Limited supplies of strawberries available. Cold temperatures, hail damaged young cucumbers and cantaloups. Some acreage required replanting. Potatoes, onions making good growth. East Texas frost damaged tender tomatoes, peppers, and required replanting. Planting sweet corn, green beans, squash, cucumbers continued. Potatoes making normal growth. North Texas, frost damage apparent to tender vegetables. Damage from cutworms continued where not treated. Onions, potatoes making normal growth. Trans-Pecos area lettuce, onions, cabbage growing well. Some chili peppers froze. Tomatoes, green peppers also received damage. High Plains onion transplanting, potato planting completed. Onions making good growth. Peach trees continued to leaf out, however, fruit set very limited many areas from freezing temperatures, hail storms. Pecans leafed out most areas, catkins appearing. Frost damage apparent on some trees. Tree spraying continued.

UTAH: Fair weather with generally clear skies and little or no precipitation. Rising trend in temperatures to average above normal. Near record maximum few localities over weekend. Averages ranged from 6° below to 3° above normal.

Soil moisture losses quite rapid due to high temperatures. Additional precipitation or irrigation required for good crop germination. Fieldwork: 6.5 days suitable. Planting made good progress in lower elevations. At higher elevations, fields still partially snow-covered and wet. Spring grain planting nearing halfway mark. Winter wheat and alfalfa wintered well. Both are beginning to grow. Pasture and ranges improving. Some cattle and sheep movement to spring ranges. Fuel supplies adequate.

VIRGINIA: Temperatures averaged little below normal. Freezing temperatures, scattered frost on 17th. Extremes: 75 and 24°. Rain early week averaged around 1.00 in. Bare soil temperature 4 in. depth averaged near 55°, down 1° from last week.

Winds dried soils; land preparation, seeding advanced. Topsoil moisture adequate to surplus. Fieldwork: 2.4 days suitable. Corn seedings 25% done, 20% 1979, 29% average; Tidewater, southeast progress 40%, 38% 1979. No significant soybean plantings yet, usual progress 2%. Peanuts 1% seeded, less than 1% 1979, 2% average. Pastures, hay good to excellent. Barley heading central Piedmont; some irregular growth, cereal leaf beetles noted in wheat, barley. Wheat condition rated good to excellent. Some rye silage, hay cut north. Frost damage to fruit limited; pears blooming north, central Piedmont; peaches in petal fall southeast. Strawberries planted southeast, some frost damage southern Piedmont. Eastern Shore: Potato acreage virtually all planted; seeding snap beans. Cattle turned to summer grazing.

WASHINGTON: West: Temperatures averaged 4 to 7° above normal. Precipitation slightly above normal. Rhubarb, cauliflower harvest on-going. Tulip picking, green chopping active. Early vegetable planting: Green peas, sweet corn, radishes, green onions, lettuce, strawberries. Pasture seeding. Supplies of hay short.

East: Temperatures averaged 4 to 7° above normal. Precipitation little below normal. Some high winds. Less frost protection needed. Cherries, apricots, peaches in full bloom. Pears blooming. Corn, potato planting in early stages. Peas, wheat, barley emerging. Spring grain planting, fertilizing, spraying continued. Soil moisture fair to good in dryland. Cheat grass a problem. Stringing hops. Irrigation widespread. Hay growing well. Range short.

WEST VIRGINIA: Temperatures above normal. Extremes: 14 and 77°. Precipitation normal. Snow flurries low lying areas, up to 3 in. in mountains.

Soil moisture adequate to surplus. Fieldwork: 2.2 days suitable. Hay, grain and fuel supplies adequate. Potatoes 15% planted, last year 29%. Oats 16% sown, last year 32%. Tobacco beds 36% planted, 10% emerged; last year 70% planted. Crop conditions mostly fair. Major activities: Spreading manure, fertilizer, plowing, seeding oats, fencing, equipment preparation, caring for livestock.

WISCONSIN: Temperatures averaged 3° above normal. Highs in 30's 14th but reached 70's and 80's 20th. Lows in 20's until midweek, then 30's and 40's. Extremes: 86 and 14°. Precipitation confined to south and east, mostly in snowstorm 14th which brought 2 to 4 in. wet snow, sleet, rain. Precipitation totals none north and west, 0.20 to 0.70 east central and south.

Fieldwork: 1 day suitable. Farmers began venturing out on land after midweek as field and weather conditions improved. Good drying weather weekend. Oats 2% planted, 1979 5%, normal 15%. Seeding should increase rapidly if weather continues favorable. Spring plowing 2% done, 1979 5%, normal 12%. Potatoes being planted in central sandy area. Work beginning on preparation of tobacco beds. Maple sap flow about completed with warm temperatures. Manure hauled where ground firm enough to support tractors and spreaders. Topsoil moisture supplies adequate to surplus. Warm, dry weather increasing danger of grass and forest fires.

WYOMING: Temperatures much above normal. Extremes: 8 and 82°. Precipitation below normal.

Topsoil moisture adequate. Acreage planted: Spring wheat 29%; oats 24%; sugarbeets 31%; barley 51%. Acreage emerged: Spring wheat 12%; barley 14%. Winter wheat mostly good condition. Spring calves born 66%. Range ewes lambed 34%. Farm flock ewes lambed 78%. Range sheep shorn 43%. Farm flock shorn 72%. Livestock producers plan to start moving livestock to summer range in early May. Fieldwork: 5 days suitable.

International Weather and Crop Summary

International Weather and Crop Summary
April 14 - 20

HIGHLIGHTS:

USSR. Winter grains greening-up in south and west...somewhat drier field conditions. Planting cotton...generally favorable conditions.

EUROPE. Winter grains greening-up in north...too dry in Poland.

CHINA. Wheat heading in Yangtze Valley*...adequate moisture. Planting spring wheat*...adequate moisture.

INDIA. Harvesting wheat in north*...hot and dry.

THAILAND. Planting dry-season rice*...some beneficial rainfall.

AUSTRALIA. Winter grain planting season near*...widespread beneficial rains.

NORTHWESTERN AFRICA. Winter grains turning color*...conditions a little too wet in Tunisia and East Algeria.

ARGENTINA. Late soybeans pod-filling*...some light frost.

BRAZIL. Harvesting soybeans...generally favorable weather.

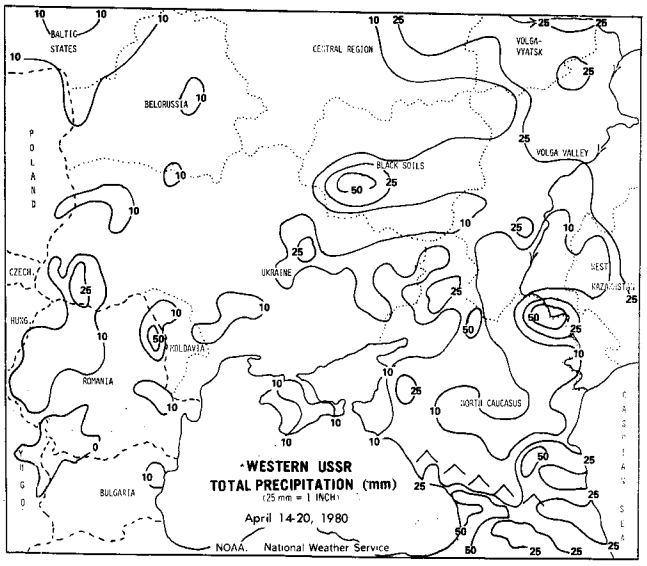
MEXICO. Heavy harvesting of west coast tomatoes...sunny, some hot afternoons.

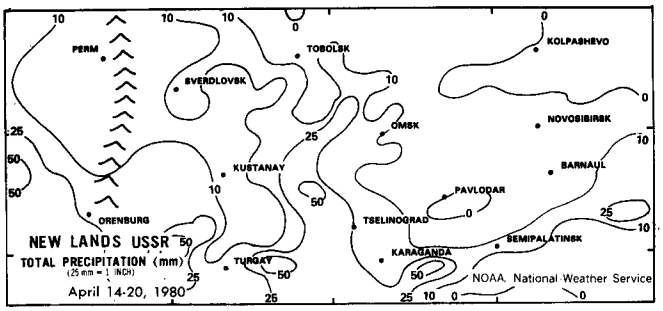
CANADA. Spring grain planting season near*...some areas too dry.

*Based on normal crop calendar information.

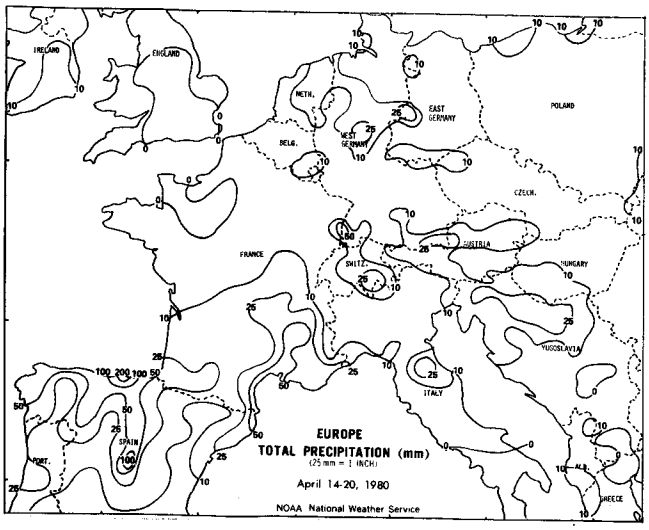
USSR. Extensive portions of the Ukraine got a break from the wet weather of recent weeks. Although nearly all locations received at least light rainfall, heavier than normal totals occurred only at scattered places. Temperatures rose to near normal during the week, and fieldwork probably progressed in most areas. To the east, relatively cold, wet weather persisted in the North Caucasus and Volga Valley. Rainfall amounts in the North Caucasus decreased from last week but remained above normal. Winter grains probably benefitted from the moisture, but the lower temperatures brought growth nearly to a halt.

Much of the New Lands received above-normal rainfall which melted most of the remaining snowcover. Heaviest amounts fell in central and southwestern areas where totals of 30 to 40 mm were common (roughly twice the normal). This moisture provided good conditions for the approaching spring grain planting season, and dryness persisted only in the vicinity of Pavlodar, Barnaul, and Novosibirsk.

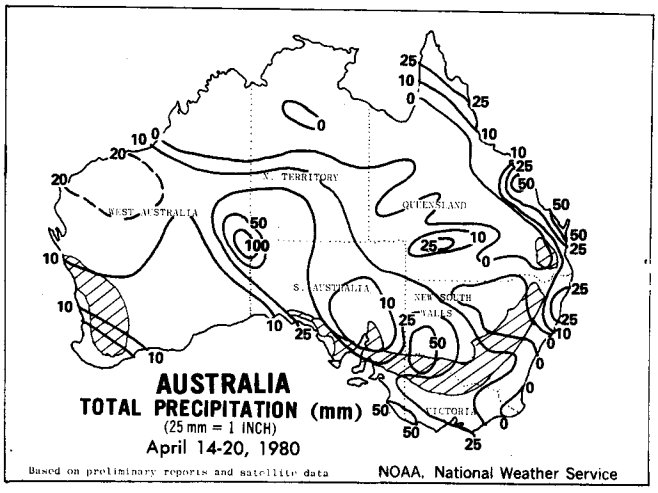




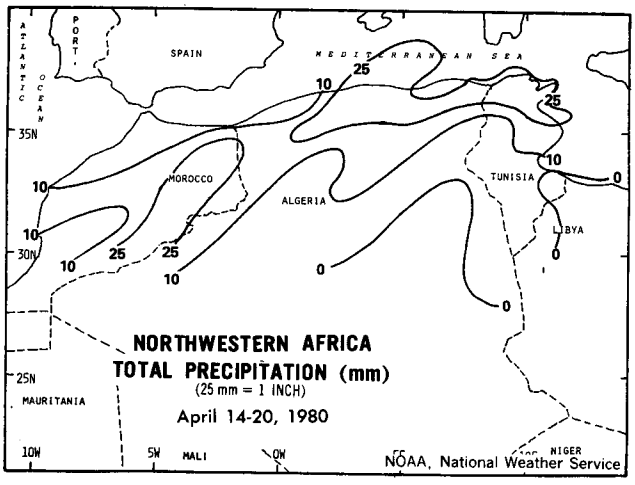
EUROPE. Conditions turned wetter in the southwest as above-normal rainfall of 20-40 mm swept across northern Spain and southern France. Spain's winter grains benefitted from this moisture, for they were still in the heading stage of development. Above-normal precipitation also benefitted winter grains in northern Yugoslavia and parts of West Germany. Precipitation in most other areas did not reach normal, but unfavorably dry soils existed only in Poland. Winter grains are just breaking dormancy there, and greater rainfall will be needed soon.

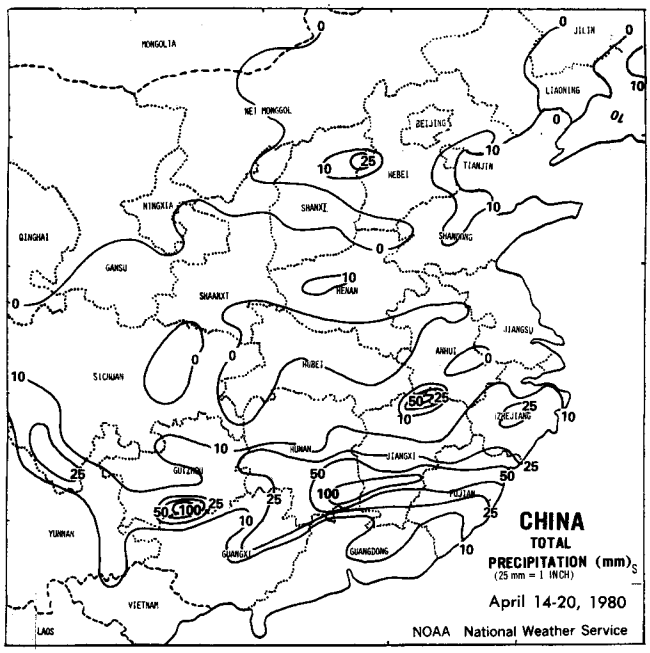


AUSTRALIA. Widespread rainfall in southern portions of the winter grain belt eased near-drought conditions. Many areas received a whole month's quantity of moisture (20 to 40 mm), allowing grain sowing to begin in West Australia, South Australia, Victoria, and southwestern New South Wales. Much more moisture will be needed in those areas to thoroughly wet the soil root zone. Dryness persisted in Queensland and northeastern NSW grain areas, and although planting can be delayed in those areas, livestock continues to suffer.



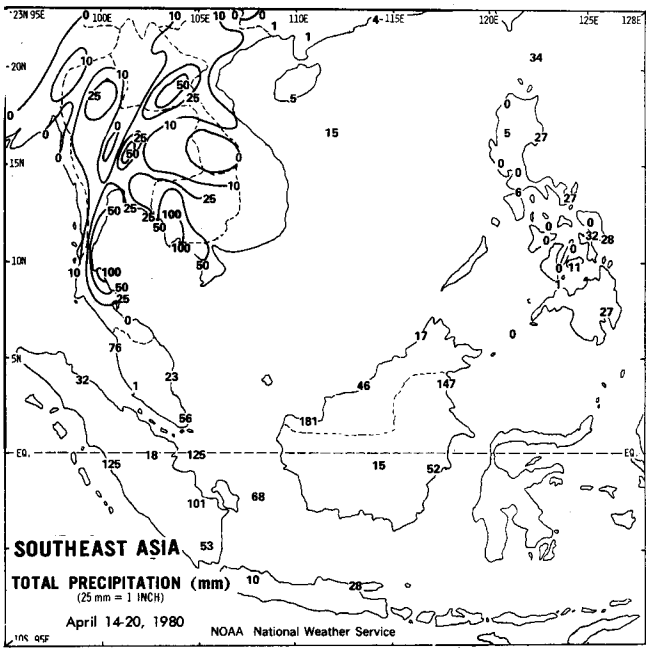
NORTHWESTERN AFRICA. Above-normal rainfall continued in winter grain areas of Tunisia and eastern Algeria, while amounts in Morocco and western Algeria stayed near normal or less. Quantities were probably not heavy enough to cause damage to maturing winter grains, but the moisture was not needed by the crop. Inland, near-desert areas of Morocco received unusually heavy rainfall.

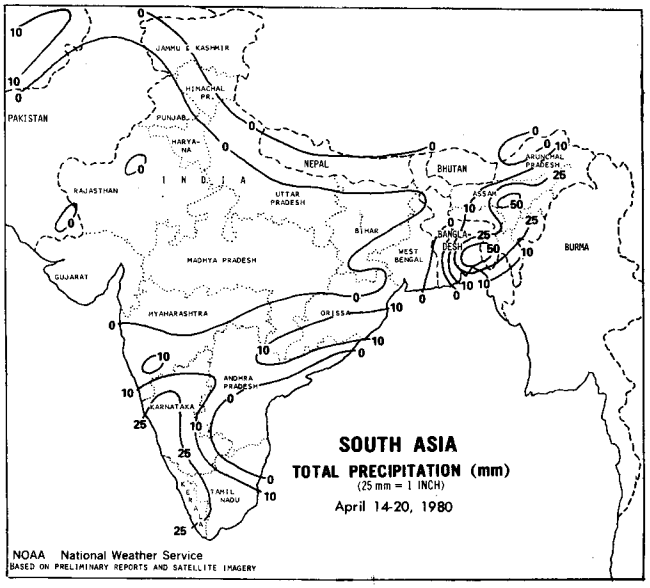




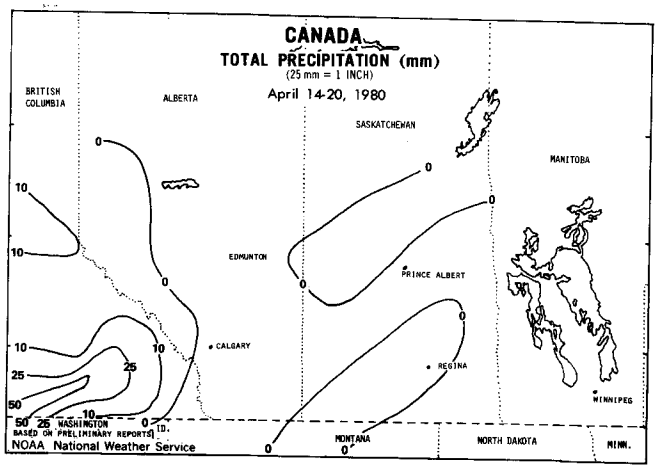
CHINA. Above-normal rainfall returned to a number of locations in the winter wheat belt, but for the most part moisture totals amounted to a few mm or none at all. Adequate soil moisture should exist as wheat in southern portions of the belt began to head. Heavy rainfall south of the Yangtze River retreated to the headwaters area along the southern rim of the Valley. Drier weather in most crop areas probably allowed progress in spring planting, but conditions remained far too wet in some vallies of Hunan and Jiangxi.

SOUTHEAST ASIA. Rainfall increased to near-normal in major rice areas of Thailand, benefitting the newly planted, dry-season crop. Some locations just to the north went rainless, but the major water source region in the far north received above-normal totals, adding needed water to depleted reservoirs. Discussion of weather impacts on crops in other countries on this map will begin as manpower levels increase in the near future.



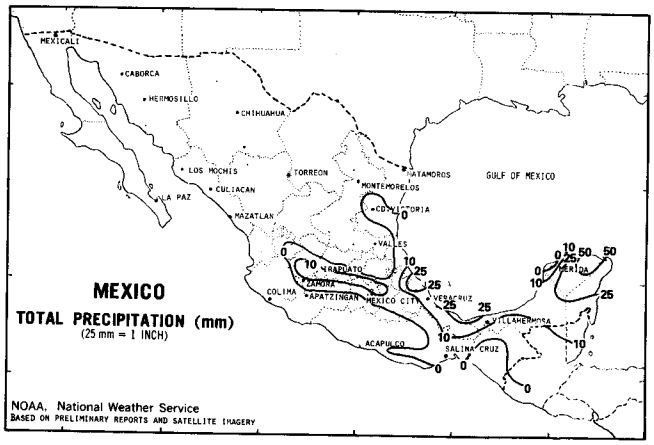


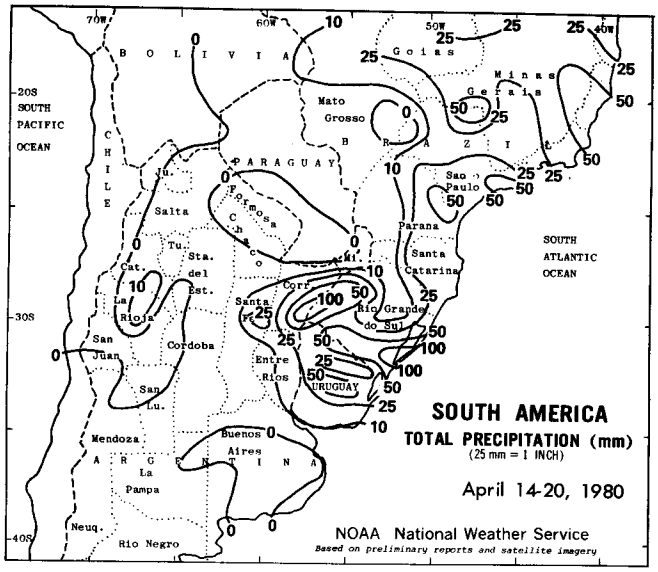
SOUTH ASIA. Typically dry but hotter than normal weather prevailed across northern India with harvest in progress. Pre-monsoon rainshower activity returned to the south and east, with above-normal moisture falling along portions of India's southwestern coast, in Orissa, and in parts of Bangladesh and Assam. No major crops benefitted from the moisture at this time.



CANADA. Most crop areas in the Prairie Provinces received no precipitation, and only light amounts fell in Saskatchewan. This dryness somewhat negates last week's rainfall in southern Alberta and worsens soil moisture deficits in Manitoba as planting time nears.

MEXICO. The western two-thirds of the country was sunny and dry, and water supplies dwindled in many reservoirs, especially those in the northwest. Irrigation needs were gradually increasing for cotton and corn. Water requirements of tomatoes should soon begin a seasonal decline. In the eastern citrus belt the nonirrigated part in the north was slightly dry, while the central portion had residual soil moisture from earlier rains, and the south benefited from this week's moderate rains. Grain sorghum and corn progressed well with generally adequate irrigation water in the northeast.



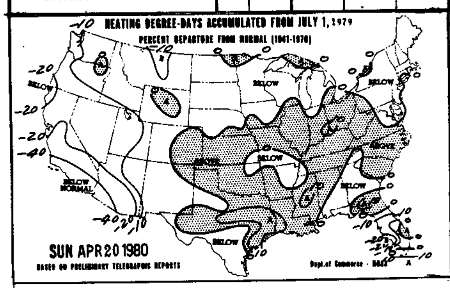


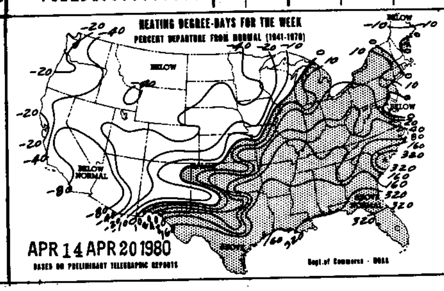
SOUTH AMERICA. Rainfall decreased to below normal in nearly all soybean areas. This allowed the harvest in Brazil to continue unimpeded for the most part, with heavier rainfall staying mainly to the east. Soybeans in Argentina had quite adequate soil moisture, with early-planted varieties nearly mature and late varieties pod-filling. However, sharply colder conditions threatened these later varieties. Freezing temperatures occurred to the west and south, and some light frost may have touched southwestern soybean areas, though probably no damage was done.

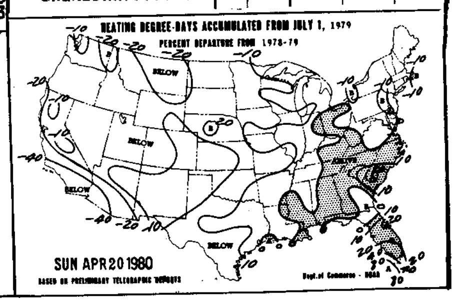
HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING APR. 20, 1980.

BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1979. THIS IS THE LAST CHART FOR THE SEASON - WILL RESUME IN THE FALL

STATES AND STATIONS	WEEKLY TOTAL	WEEKLY DEPARTURE*	SEASONAL ACCUMULATION + TOTAL	SEASONAL ACCUMULATION + DEPARTURE*	SEASONAL ACCUMULATION + DEPARTURE FROM 1978-79
ALA. BIRMINGHAM	48	27	2841	33	117
MOBILE	26	19	1638	-46	39
MONTGOMERY	37	24	2080	-172	103
ARIZ. FLAGSTAFF	119	-36	6371	-90	-556
PHOENIX	0	-12	1022	-521	-414
TUCSON	5	-11	1371	-370	-485
WINSLOW	56	-20	4376	-142	-392
YUMA	0	-7	384	-621	-784
ARK. FORT SMITH	61	37	3633	330	-236
LITTLE ROCK	57	32	3244	-69	-83
CALIF. BAKERSFIELD	4	-27	1491	-644	-386
EUREKA	83	-22	3032	-834	-983
FRESNO	5	-34	2133	-418	-218
LOS ANGELES	20	-24	835	-748	-623
RED BLUFF	16	-31	2132	-435	-192
SAN DIEGO	0	-31	520	-820	-529
SAN FRANCISCO	57	-9	2220	-413	-559
STOCKTON	6	-40	2085	-592	-417
COLO. DENVER	65	-50	5566	7	-400
GRAND JUNCTION	60	-29	5145	-220	-1211
PUEBLO	69	-17	5208	77	-588
CONN. BRIDGEPORT	122	12	5166	71	114
HARTFORD	112	-1	5774	-206	-493
DEL. WILMINGTON	78	-5	4487	-244	-525
D.C. WASHINGTON	54	0	3590	-498	-273
FLA. APALACHICOLA	22	17	1357	-4	-130
DAYTONA BEACH	11	11	819	-78	137
FORT MYERS	0	0	316	-141	57
JACKSONVILLE	13	11	1419	92	-88
KEY WEST	0	0	71	9	32
LAKELAND	3	3	614	-64	89
MIAMI	0	0	204	-2	24
ORLANDO	1	1	647	-86	76
TALLAHASSEE	37	30	1742	179	16
TAMPA	3	3	636	-82	71
WEST PALM BEACH	2	2	314	15	47
GA. ATLANTA	39	13	2797	-249	64
AUGUSTA	30	14	2707	180	258
MACON	28	20	2136	-89	-20
SAVANNAH	24	14	1907	-38	187
IDAHO. BOISE	36	-71	4955	-412	-1051
LEWISTON	28	-70	4616	-425	-1190
POCATELLO	78	-53	6091	-352	-1149
ILL. CAIRO	64	31	3954	186	-337
CHICAGO	101	4	5760	-31	-935
MOLINE	106	15	6325	228	-777
PEORIA	111	24	6159	349	-514
ROCKFORD	129	21	6712	244	-735
SPRINGFIELD	101	25	5529	190	-540
IND. EVANSVILLE	95	42	4859	382	-113
FORT WAYNE	130	29	6322	459	61
INDIANAPOLIS	114	32	5721	399	23
SOUTH BEND	113	3	5700	-366	-554
IOWA. BURLINGTON	102	14	6090	218	-618
DES MOINES	72	-26	6056	-344	-977
DUBUQUE	112	0	6776	-87	-1047
SIOUX CITY	64	-36	6475	-155	-1425
KANS. CONCORDIA	77	-2	5453	84	-670
DODGE CITY	58	-12	5258	418	-177
GOODLAND	81	-24	5746	8	-259
TOPEKA	70	2	5221	174	-782
WICHITA	69	13	4786	248	-501
KY. LEXINGTON	105	42	4824	271	3
LOUISVILLE	96	37	4568	91	30
LA. BATON ROUGE	15	10	1782	112	-77
LAKE CHARLES	18	17	1659	161	-52
NEW ORLEANS	20	17	1476	11	28
SHREVEPORT	33	23	2308	152	-78
MAINE. CARIBOU	155	-36	8164	-611	-413
PORTLAND	151	2	6712	-130	-265
MD. BALTIMORE	85	13	4401	-145	-76
MASS. BOSTON	96	-11	5215	-44	-176
MICH. ALPENA	167	2	7359	-367	-411
DETROIT	139	26	6371	346	-129
FLINT	149	23	6532	-1	-229
GRAND RAPIDS	126	5	6169	-188	-743
HOUGHTON LAKE	173	21	7506	-164	-498
LANSING	143	22	6571	123	-287
MARQUETTE	179	-7	8745	32	-495
MUSKEGON	154	24	6545	178	-546
S. STE. MARIE	172	-6	8388	94	-411
MINN. DULUTH	131	-44	8720	-160	-853
INTERNATL FALLS	120	-57	9798	77	-924
MINNEAPOLIS	75	-53	7416	-271	-713
ROCHESTER	90	-42	7467	-249	-1407
ST. CLOUD	90	-54	8219	-86	-1071
MISS. JACKSON	43	32	2649	364	207
MERIDIAN	39	26	2454	82	-56
MO. COLUMBIA	91	27	5185	298	-207
KANSAS CITY	60	-10	5284	138	-529
ST. LOUIS	86	31	4758	174	-597
SPRINGFIELD	81	25	4320	-96	-808
MONT. BILLINGS	28	-106	5975	-679	-1923
GLASGOW	50	-92	7581	-740	-2243
GREAT FALLS	39	-102	6342	-625	-1768
HAVRE	45	-93	7018	-1057	-2176
HELENA	70	-77	7012	-419	-1332
KALISPELL	83	-70	7041	-655	-1576
MILES CITY	44	-84	6690	-660	-2102
MISSOULA	70	-70	6663	-511	-1404
NEBR. GRAND ISLAND	75	-23	6125	28	-1115
LINCOLN	75	-12	5758	-183	-1269
NORFOLK	71	-35	6394	-233	-1213
NORTH PLATTE	68	-44	5951	-372	-1612
OMAHA	82	1	6177	376	-342
VALENTINE	81	-43	6524	-298	-1559
NEV. ELY	99	-62	6120	-799	-1265
LAS VEGAS	1	-24	2169	-401	-365
RENO	66	-57	4810	-600	-916
WINNEMUCCA	73	-61	5132	-837	-896
N.H. CONCORD	136	-3	6731	-104	-443
N.J. ATLANTIC CITY	109	23	4951	232	-93
TRENTON	93	11	4734	6	-105
N.MEX. ALBUQUERQUE	54	-5	3912	-267	-133
ROSWELL	30	-6	3411	-236	-255
N.Y. ALBANY	137	18	6259	-217	-511
BINGHAMTON	150	17	6551	-193	-346
BUFFALO	154	21	6163	-236	-395
NEW YORK	95	9	4593	-83	-328
ROCHESTER	142	18	6278	-23	-179
SYRACUSE	143	22	6135	-91	-398
N.C. ASHEVILLE	84	25	3932	-133	78
CHARLOTTE	70	43	3399	237	253
GREENSBORO	74	35	3759	30	2
HATTERAS	58	20	2748	97	222
RALEIGH	50	15	3530	95	279
WILMINGTON	56	39	2532	118	135
N.DAK. BISMARCK	73	-69	8131	-300	-1579
FARGO	73	-75	8668	-15	-1237
WILLISTON	67	-78	8033	-491	-1717
OHIO. AKRON-CANTON	131	23	5975	132	-112
CINCINNATI	131	59	5372	522	62
CLEVELAND	143	34	5995	236	272
COLUMBUS	116	25	5484	65	-141
DAYTON	124	35	5738	367	95
TOLEDO	132	24	6258	258	-243
YOUNGSTOWN	159	47	6266	260	83
OKLA. OKLAHOMA CITY	57	23	3681	51	-462
TULSA	35	2	3489	-137	-653
OREG. ASTORIA	98	-20	3880	-625	-881
BURNS	91	-49	6082	-362	-856
MEDFORD	69	-32	3892	-582	-646
PENDLETON	64	-30	5125	-278	-729
PORTLAND	64	-34	3834	-455	-760
SALEM	83	-20	4172	-133	-500
PA. ALLENTOWN	107	9	5127	-387	-354
ERIE	159	26	5937	-349	-705
HARRISBURG	93	14	4570	-447	-510
PHILADELPHIA	89	10	4655	-9	-77
PITTSBURGH	131	35	5774	171	-158
SCRANTON	114	6	5609	-313	-712
R.I. PROVIDENCE	106	-11	5232	-316	-579
S.C. CHARLESTON	41	32	2243	111	292
COLUMBIA	58	45	3006	429	606
GREENVILLE	67	41	3276	164	182
S.DAK. ABERDEEN	81	-54	7615	-464	-1603
HURON	83	-40	7138	-442	-1486
RAPID CITY	65	-68	6280	-448	-1356
SIOUX FALLS	67	-54	7030	-356	-1355
TENN. CHATTANOOGA	67	36	3596	171	275
KNOXVILLE	60	27	3552	151	75
MEMPHIS	46	23	3104	-84	-108
NASHVILLE	58	24	3765	143	-91
TEXAS. ABILENE	19	0	2519	-66	-326
AMARILLO	67	10	4403	366	-124
AUSTIN	12	5	1663	-73	-398
BEAUMONT	10	6	1606	88	143
BROWNSVILLE	7	7	653	1	-83
CORPUS CHRISTI	10	10	916	-14	-118
DEL RIO	6	6	1399	-124	-318
EL PASO	24	8	2652	-16	-76
FORT WORTH	20	4	2438	65	-282
GALVESTON	9	9	1311	87	-62
HOUSTON	11	11	1579	145	-127
LUBBOCK	31	-7	3315	-170	-261
MIDLAND	33	16	2771	161	-298
SAN ANGELO	23	11	2455	224	-255
SAN ANTONIO	12	8	1490	-80	-229
VICTORIA	10	10	1366	139	-142
WACO	32	24	2342	286	-224
WICHITA FALLS	35	16	3002	124	-440
UTAH SALT LAKE CITY	49	-56	4907	-640	-646
VT. BURLINGTON	143	-3	6866	-457	-692
VA. LYNCHBURG	80	27	4142	46	-153
NORFOLK	60	14	3444	51	-41
RICHMOND	57	12	3603	-230	-212
ROANOKE	81	22	4198	51	-180
WASH. QUILLAYUTE	117	-14	4525	-541	-732
SEATTLE-TACOMA	87	-23	4171	-406	-274
SPOKANE	64	-62	5838	-384	-1545
WALLA WALLA	33	-48	4533	11	-708
YAKIMA	62	-42	5473	-91	-847
W.VA. BECKLEY	119	32	5457	203	397
CHARLESTON	98	38	4694	286	200
HUNTINGTON	103	42	4608	171	13
PARKERSBURG	109	41	4691	69	-356
WIS. GREEN BAY	138	-1	7354	-163	-843
LACROSSE	82	-29	6855	-179	-655
MADISON	126	-2	7225	2	-598
MILWAUKEE	136	3	6530	-327	-662
WYO. CASPER	82	-65	7009	154	-812
CHEYENNE	100	-48	6487	-53	-377
LANDER	83	-64	7180	6	-1353
SHERIDAN	69	-72	6770	-239	-1756







SEEDING PROGRESS

FOR WEEK ENDING APRIL 20

COTTON

	1980	1979	AVG.
ALA	6	8	29
ARIZ	73	56	NA
ARK	3	3	7
CALIF	75	87	NA
GA	13	52	44
LA	0	2	9
MISS	2	3	9
MO	1	1	6
N MEX	3	3	3
N C	5	20	14
OKLA	0	0	0
S C	6	41	39
TENN	2	1	6
TEX	16	15	16
14 STATES	22	23	NA
EXCL CALIF. AND ARIZ.	11	12	14

THESE 14 STATES PRODUCED 99% OF THE 1979 COTTON CROP.

SPRING WHEAT

	1980	1979	AVG.
IDA	50	30	34
MINN	10	0	21
MONT	15	1/	25
N DAK	12	0	7
S DAK	51	3	32
5 STATES	20	2	17

THESE 5 STATES PRODUCED 91% OF THE 1979 SPRING WHEAT CROP EXCLUDING DURUM.

RICE

	1980	1979	AVG.
ARK	6	15	30
CALIF	1/	0	0
LA	57	53	62
MISS	24	11	36
TEX	85	53	78
5 STATES	30	25	40
EXCL CALIF	37	32	48

THESE 5 STATES PRODUCED 99% OF THE 1979 RICE CROP.

GRAIN SORGHUM

	1980	1979	AVG.
COLO	0	0	0
KANS	0	0	0
MO	0	0	0
NEBR	0	0	0
OKLA	0	0	0
S DAK	0	0	0
TEX	64	50	53
7 STATES	23	19	19

THESE 7 STATES PRODUCED 92% OF THE 1979 GRAIN SORGHUM CROP.

1/ LESS THAN 5%.

CORN

	1980	1979	AVG.
COLO	0	0	7
GA	50	88	76
ILL	0	1	5
IND	0	0	0
IOWA	0	0	1
KANS	3	2	8
KY	1	3	15
MICH	0	0	0
MINN	0	0	0
MO	3	3	20
NEBR	0	0	0
N C	46	51	57
OHIO	0	0	5
PA	0	0	5
S DAK	0	0	0
VA	25	20	29
WIS	0	0	0
17 STATES	3	4	6

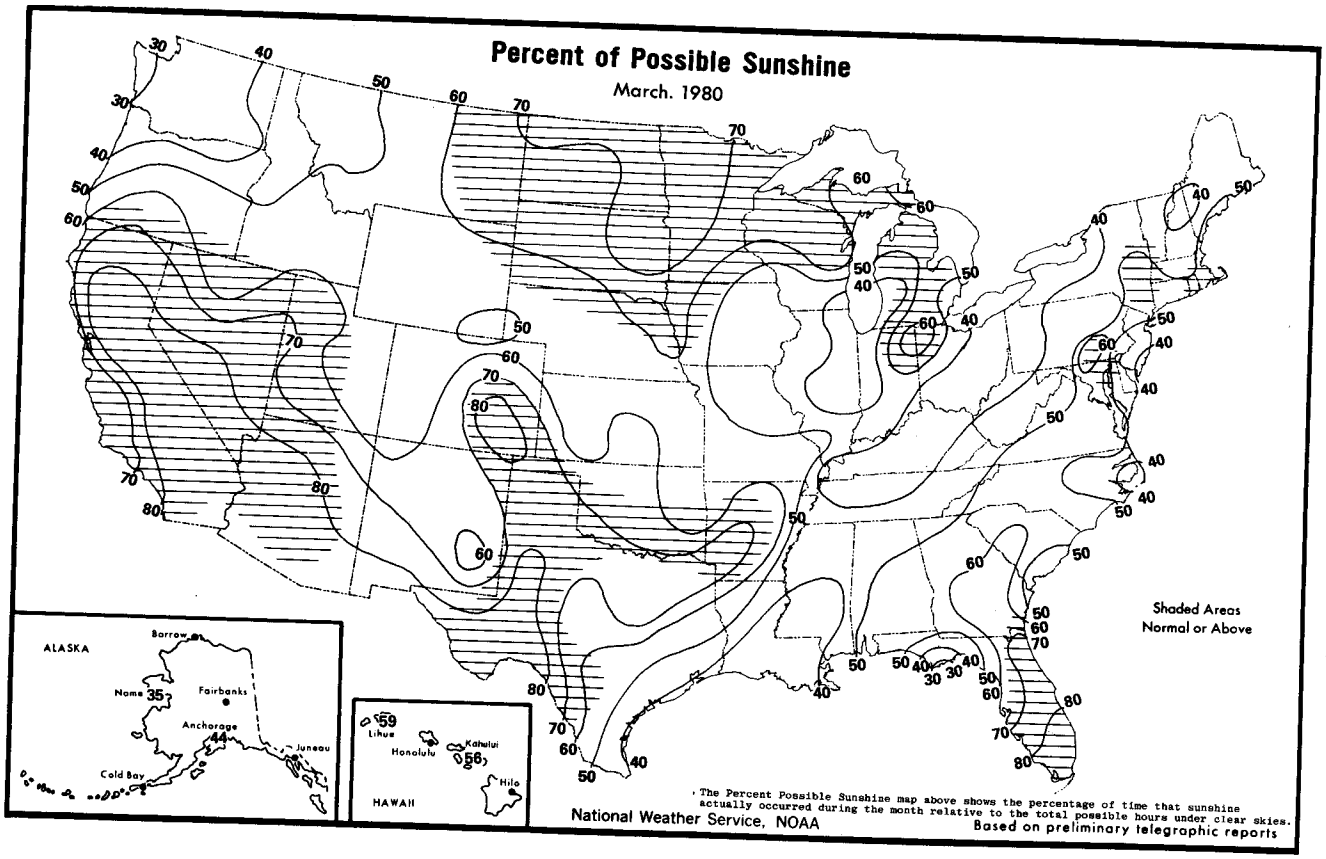
THESE 17 STATES PRODUCED 93% OF THE 1979 CORN CROP.

**** CORRECTIONS ****

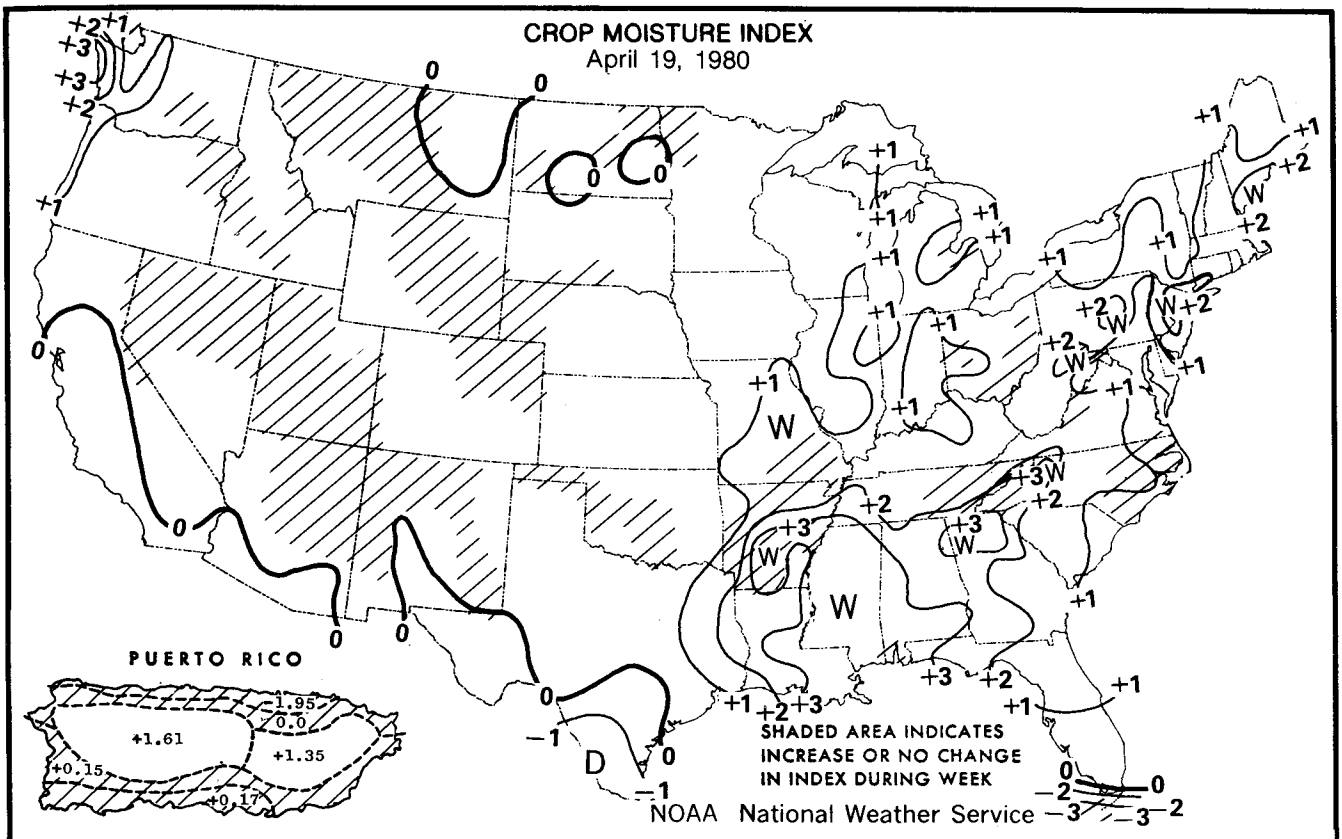
PLANTING PROGRESS FOR WEEK ENDING APRIL 13

COTTON

	1980	1979	AVG.
ARIZ	3*	32	NA*



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.



The Crop Moisture Index measures the degree to which moisture requirements of growing crops were met during the previous week. The index is computed from average weekly values of temperature and precipitation. These values are used to calculate the potential moisture demand. Taking into account the previous soil moisture condition and current rainfall, the actual moisture loss is determined.

If the potential moisture demand, or potential evapotranspiration, exceeds available moisture supplies, actual evapotranspiration is reduced and the CMI gives a negative value. However, if moisture meets or exceeds demand the index is positive.

Shaded areas indicate the index was unchanged or increased from the previous week's value; soils dried in the unshaded areas. Centers of positive and negative areas are identified by W for wet and D for dry.

Local moisture conditions may vary because of differences in rainfall distribution or soil types. The type of agriculture and stage of crop development must be considered when assessing the impact of moisture conditions based on the Crop Moisture Index. Some general guidelines follow.

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

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

GOOD DRYING WEATHER AND GREATER CROP MOISTURE DEMAND IN SOUTHEASTERN U.S. HAS IMPROVED THE WET SITUATION THERE BUT CONDITIONS ARE STILL EXCESSIVELY WET. THE AREA OF EXCESSIVE SOIL MOISTURE EXTENDS FROM EAST CENTRAL TEXAS TO WESTERN GEORGIA AND NORTH TO SOUTHERN TENNESSEE AND THE WESTERN CAROLINAS AND VIRGINIA. MORE DRY WEATHER IS NEEDED IN MUCH OF THE AREA EAST OF THE MISSISSIPPI RIVER. THE RIO GRANDE VALLEY IS GETTING DRYER AFTER ANOTHER WEEK OF NO RAIN. THE DRIEST PORTION IS THE LOWER RIO GRANDE WHERE THE USE OF IRRIGATION WATER IS INCREASING. EXCEPTFOR A WET AREA IN THE PACIFIC NORTHWEST, MOST OF THE PLAINS AND WESTERN U.S. HAVE NEAR NORMAL SOIL MOISTURE.

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service/Climatic Analysis Center
Managing Editor — Don Haddock
Meteorologists — Lyle Denny, Ray McInturff, Jim Williams
Meteorological Technician — Wes Byrd
Subscriptions — Tanya Sager

U.S. Department of Agriculture
Economics, Statistics, and Cooperatives Service
Editor/Writer — Jim Carlin
Statistician — Harry DeLong

World Food and Agricultural Outlook Situation Board
Weather Analyst — Laras Lambert

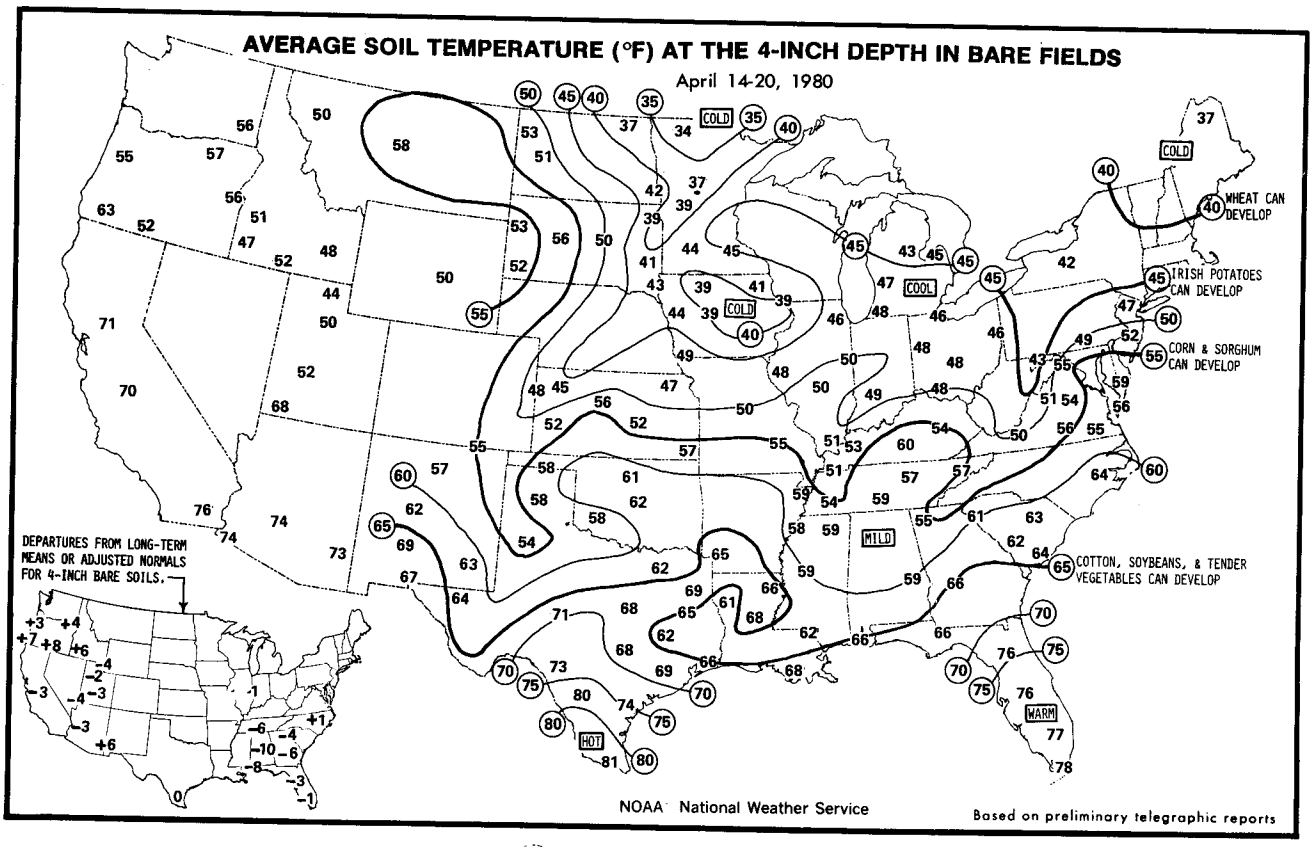
Publication of the Weekly Weather and Crop Bulletin began in 1872 as the Weekly Weather Chronicle. It is issued under general authority of the Act of January 12, 1895 (44USC 213), 53d Congress, 3d Session. Contents of the Bulletin may be reprinted freely, with proper credit.

Yearly subscription rate: $13.00 domestic and $18.00 foreign airmail. Order from the NOAA/USDA Joint Agricultural Weather Facility, USDA South Building, Room 3526, Washington, D.C. 20250. Make checks payable to Department of Commerce, NOAA.

NOAA/USDA Joint Agricultural
Weather Facility
USDA South Bldg., Room 3526
Washington, D.C. 20250

IMMEDIATE - U. S. Weather Report

This Report Will be Treated in All Respects as Letter Mail

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE
210

FIRST CLASS MAIL