

# WEEKLY WEATHER AND CROP BULLETIN

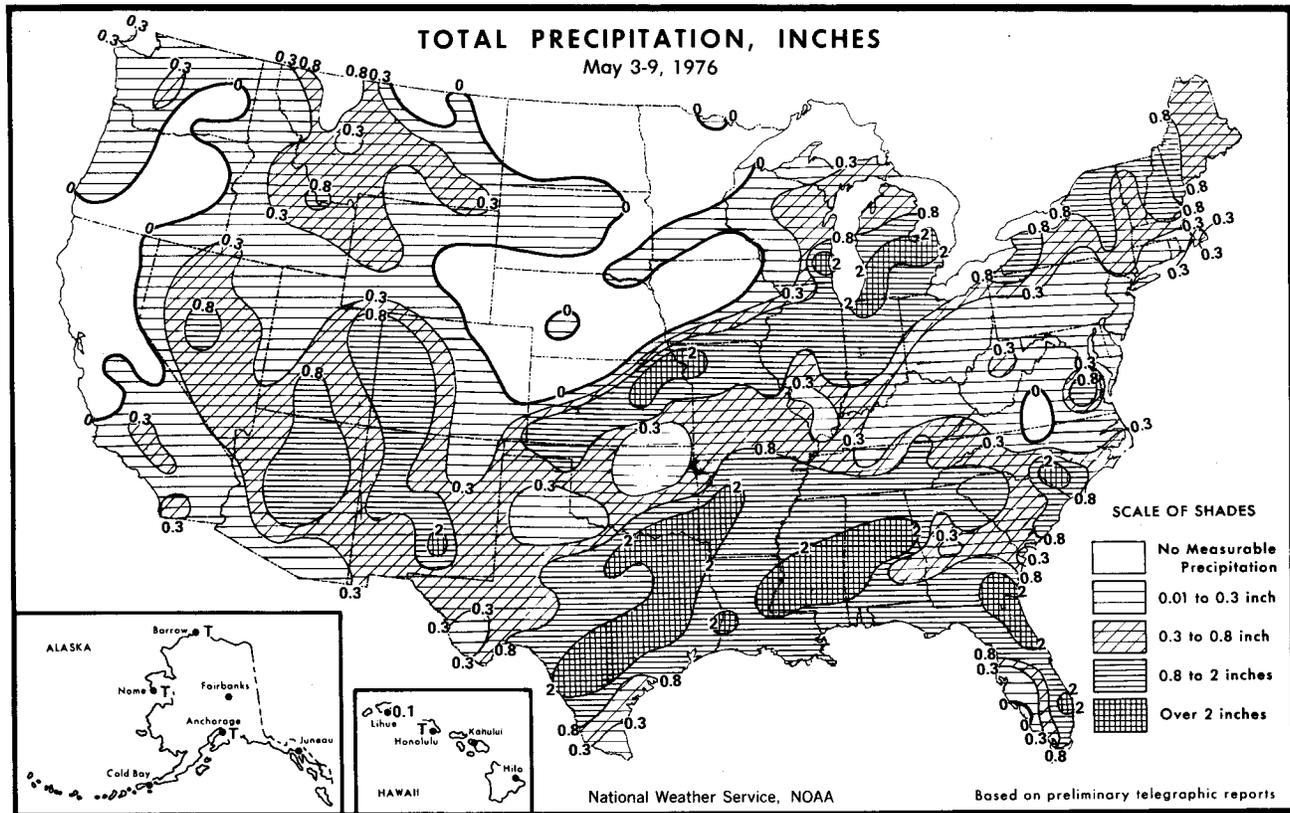
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## National Weather Summary

For the week of May 3 - May 9, 1976

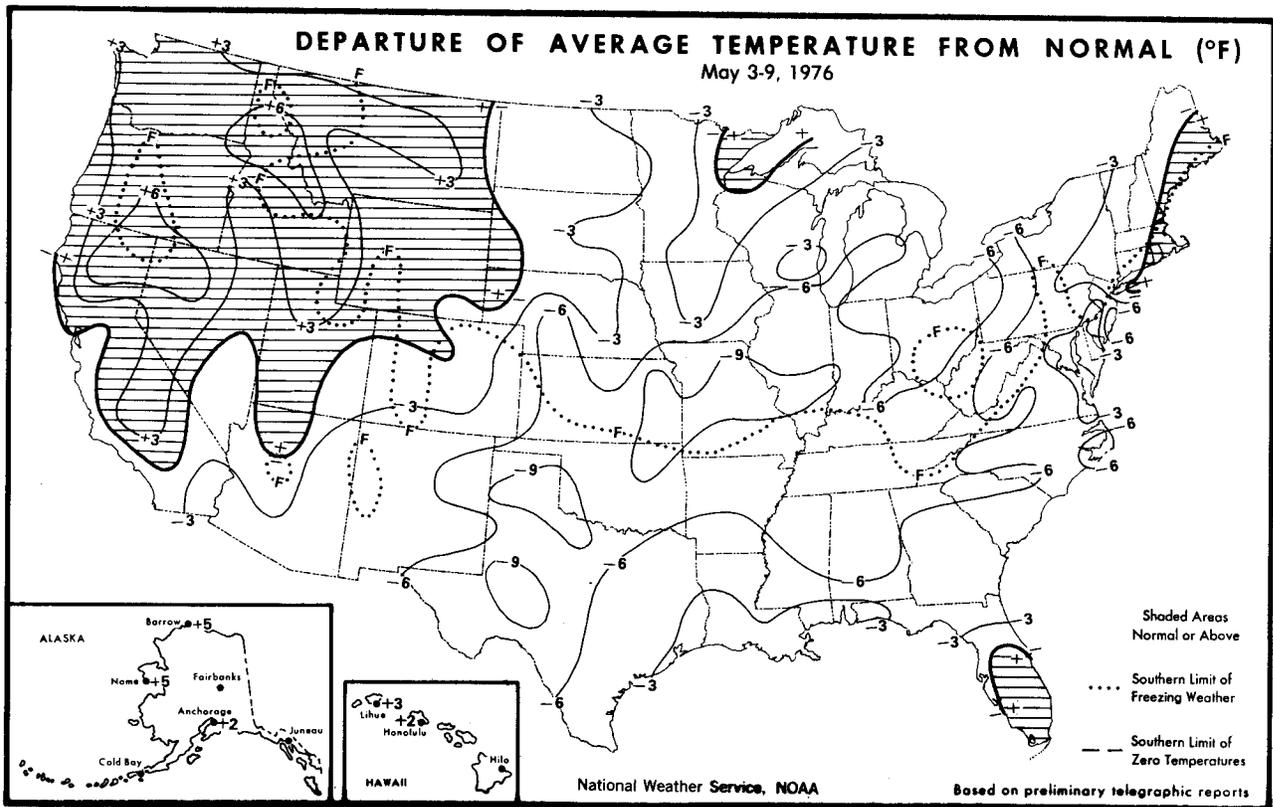
**HIGHLIGHTS:** A large polar outbreak moving southward and eastward spread cold air over all of the Nation east of the continental Divide. Many record low temperatures were set. The greatest departures from normal average temperatures for the week were from southern Illinois to west Texas where readings were 9 and 10° below normal. The Pacific Northwest was 4 to 6° above normal. Precipitation occurred along and ahead of the moving mass of cold air. One to 2 inches fell from southern Kansas through the Great Lakes area while the area from central Texas to South Carolina accumulated a similar amount and also reported severe weather in the form of hailstorms and tornadoes

Record low temperatures were broken or tied as the weekend cold front continued to push toward the Atlantic Coast on Monday morning. Record shattering lows ranged from North Platte, Nebr.,

20° to Ottuma, Iowa, 32°. In Albany, N.Y. the invasion of frigid air slashed 17° off a.m. readings in just 1 1/2 hours. Except for the Gulf and southern Atlantic Coast regions, cold air staked a claim on the entire Nation east of the Continental Divide. As the cold blast collided with warm, moist air over the area, strong thunderstorms developed. In tune with the winterlike temperatures, snow flurries skipped across the lower Great Lakes region. Showers focused on the northern Atlantic Coast States and were more scattered in central areas.

Tuesday again brought shivers to central and eastern U.S. as a large high pressure center over Kentucky spread unseasonable cool air from the Midwest to portions of the Atlantic Coast. Near or below freezing readings staged a takeover from the upper Mississippi Valley to the Appalachians.

During the day remnants of cold air maintained a grip on parts of the Northeast and Appalachians.



In the Midwest, though, temperatures climbed into the 60's in some sections, thanks to a southerly flow of moist air from Texas into the Great Lakes and Ohio Valley regions.

Confined mostly to the western U.S., widely scattered precipitation included some showers that sprang up in western Washington as a cold front approached the northern Pacific Coast.

Elsewhere thunderstorms and showers stretched from southwest Texas north along the Rockies into Montana then east across the Plains into Minnesota.

Moving southward through the Plains on Wednesday the cold front produced scattered showers and thundershowers from the northern Great Lakes region across the upper Mississippi Valley into the lower Great Plains. Some heavy thunderstorms spawned golfball size hail in Kyle, Texas.

At midweek near normal temperature returned to eastern States, ranging from 60's in the North to 80's in the South. Meantime, another cool air mass that spread across the central U.S. halted afternoon temperatures in the 40's in the Dakotas and Minnesota where just the day before readings in the 70's and 80's prevailed.

The large cold air mass from Canada settled over the north central U.S. overnight and plunged temperatures into the teens and 20's by Thursday morning. Roseau, Minn., in the extreme northwestern part of the State, reported a chilly 16° for the Nation's low. Other record lows were established as far south as North Platte, Neb., 24°. Precipitation, in the form of rain, showers or thunderstorms occurred along and ahead of the cold front from Texas to the eastern Great Lakes and into New England. Three tornadoes were reported in Alabama and damaging hail fell in Mississippi and in cen-

tral Texas. Flash flood warnings went out in Texas as a result of the heavy rains spawned by the fierce combat between the southward moving cold air and the determined northward flow of warm air.

The cold weather continued on Friday as the polar air moved south and eastward setting record low temperatures as far south as Missouri. By late Friday the leading edge of the cold air had moved into New England, to eastern Virginia, Alabama and into southern Texas. Thunderstorm activity continued along and ahead of the front with the most severe storms occurring in the South. Hail was reported in Alabama and Texas with the most damage occurring in southeast Texas where several tornadoes were also reported. Shower activity was reported in the Southwest where scattered activity occurred from central Nevada southward.

On Saturday the cold high pressure was centered over Illinois and dominated the entire eastern U.S. Toledo, Ohio reported a record low of 28° and Fort Smith, Ark., 42°. Showers and thunderstorms continued from southern Louisiana to the Carolinas along the now slow moving cold front. Rain showers and scattered thunderstorms continued in the Southwest and extended their coverage to west Texas.

Fine weather prevailed over much of the Nation on Sunday as the high pressure dominated the East. Abundant sunshine began to warm the eastern States to near normal temperatures. Southerly flow began bringing warmer weather back to the Plains--Grand Forks, N.Dak. reported a high of 86°. Light showers and a few thunderstorms dotted the Plains States from Kansas to southern Texas during the day and also portions of Florida, Colorado, and western Montana. Cloudiness covered the Pacific Coast, southern Alabama and Georgia. Otherwise the Nation was clear to partly cloudy.

## National Agricultural Summary

for the week of May 3 - May 9, 1976

**HIGHLIGHTS:** Subnormal temperatures slowed crop development in northern areas of the Nation. Frost on the third and again near the end of the period damaged fruit trees in the northeast quarter of the United States but extent of the damage was unknown. Spring planting advanced very quickly, increasing the gap between current year progress and previous years' planting rate. Soil moisture was adequate in the North Central States and west South Central States but short elsewhere.

**SMALL GRAINS:** The spring wheat crop was 79% planted, compared with 16% last year and 52% average. Planting advanced 13 percentage points last week. Most of the increase occurred in North Dakota where 20% of the crop was planted in one week, putting the crop at 70% complete. Planting in Minnesota and South Dakota was almost complete.

The winter wheat crop advanced toward maturity with harvest underway in California and Texas. In Kansas, adequate soil moisture and cool temperatures provided ideal conditions for wheat which was 95% jointed, compared with 70% last year and 90% average. About 30% of the Kansas crop was headed; 5% in 1975 and 25% average. In Oklahoma, wheat was 80% headed, against 72% a year earlier, and 79% average. Six percent of the crop was in the dough stage compared with 2% in 1975. Harvest should begin in 10 days with normal weather. In Texas, harvest was active in the extreme south. Maturity in other areas varied from early bloom to hard dough stage. In Colorado 39% of the crop was jointed, compared with 42% in 1975 and 60% average.

In the North Central States, maturity was ahead of last year. The Illinois crop was 70% headed, compared with 19% in 1975 and 23% average. Minimal freeze damage occurred in extreme northern areas and mostly only slowed growth.

**CORN:** Planting advanced to 60% complete, almost double the 33% in 1975 and 35% average. Almost 30% of the crop was planted last week. In the east North Central States, planting stood at 58% complete compared with 32% last year and 27% average. About 56% of the corn crop was planted in the west North Central States, compared with 23% in 1975 and 31% average. This is an increase of almost 40 percentage points from the previous week. Iowa and Minnesota led the advance with about half the crop planted in one week. In the Dakotas, Nebraska, and Kansas progress was ahead of last year and a little above normal. Some of the early planted corn in the major producing States was slow to emerge and yellow because of the cold weather. Many areas need warmer soils for good germination. Farmers cultivated some of the southern crop and in extreme southern Texas the crop was tasselling.

**COTTON:** Planting of the cotton crop passed the halfway mark and stood at 51% complete; 34% in 1975 and 36% average. Rain and cold soils forced growers to replant some fields in Alabama, Missouri, Arkansas, and Texas. The crop was only in fair condition because of dry weather in the Eastern States and rainy, cold weather in the Delta and Texas. Only 28% of the cotton was planted, behind last year but ahead of normal. Elsewhere the crop was nearly 80% planted except in Oklahoma where only a few fields were planted. Seedbeds must be reworked before planting can

continue in Oklahoma.

**OTHER CROPS:** Soybean planting was underway in most areas. Only 10% of the crop was planted compared with 6% both last year and average. Farmers were planting corn and cotton before moving on to soybeans nevertheless planting was well along for this time of year.

Rice planting neared completion in the Delta areas of Arkansas, Louisiana, and Mississippi and in Texas. Good stands developed in Louisiana.

In Arkansas, cool weather yellowed the crop. About a third of the crop was up in Mississippi. Planting was active in California but some water problems developed.

Flue-cured tobacco transplanting advanced into Virginia where 12% of the crop was set out. In North Carolina 67% of the crop was planted and in fair condition. Farther south transplanting was virtually complete. Cold weather slowed progress in Tennessee where 10% of the crop was transplanted. Kentucky tobacco beds were in good condition and some plants were ready to be set out.

Sorghum planting was well along in Texas and Arkansas but only beginning in most other States. In the major States where planting was underway 38% of the crop was planted, behind the 41% last year but ahead of the 36% average. Some replanting was necessary in Texas and Arkansas. Early stands were headed in southern Texas.

**FRUITS AND NUTS:** Freeze damage occurred in the Northeastern quarter of the Nation, reducing crop prospects as far south as Tennessee and west into Kansas. No analysis of the damage was available. The cold weather also created poor pollinating conditions in New York and Michigan. Peach harvest was underway in California, Florida, Georgia, and Texas. Peaches sized well in Arkansas. Cherry picking began in California.

Citrus harvest was winding down in Texas but valencia oranges moved to market from Florida, California and Arizona. Grapefruit harvest was active in Arizona and California. Rain helped Florida groves but growers still irrigated. Elsewhere groves were in good condition.

**VEGETABLES:** Planting was active in the northern production areas. Some frost damage hit early vegetable plantings. Virginia vegetables were under stress from dry weather. In Florida vegetable shipments increased 16%. Sweet corn, potatoes, watermelons, and tomatoes led the increase.

Harvests of cabbage, carrots, onions, tomatoes, cucumbers, and peppers were active in southern Texas. In northern areas vegetables made good progress. In California spring harvests of strawberry, artichoke, broccoli, and cauliflower were active.

**PASTURE AND LIVESTOCK:** Pastures were short in a few Eastern sections where recent rainfall was far below normal. Throughout the Central States and the West, pastures and rangeland were in fair to good condition providing an adequate amount of forage. California grasslands did not provide adequate roughage, forcing most cattlemen to provide supplemental feed. Cattle and lambs were marketed earlier and lighter in California. Haying was underway. Alfalfa was sprayed to control weevil infestations. Cattle were in good condition.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., May 9, 1976

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA.Birmingham . . .	61	-7	2.0	+1.1	La.Baton Rouge . . .	70	-3	1.0	-.1	Youngstown . . .	50	-4	.2	-.7
Mobile . . .	71	-2	1.8	+.8	Lake Charles . . .	72	-1	1.0	-.1	OKLA.,Okla. City . . .	58	-8	.2	-1.0
Montgomery . . .	63	-7	.7	-.1	New Orleans . . .	72	-1	1.3	+.4	Tulsa . . .	57	-9	.1	-1.0
ALASKA.Anchorage . . .	42	+2	T	-.1	Shreveport . . .	67	-4	1.3	+.1	OREG.Astoria . . .	54	+3	.1	-.6
Barrow . . .	18	+5	T	-.1	MAINE.Caribou . . .	45	-1	.6	0	Burns . . .	54	+4	T	-.2
Fairbanks . . .	---	---	---	---	Portland . . .	50	+1	.5	-.3	Medford . . .	58	+3	T	-.3
Juneau . . .	---	---	---	---	MD.Baltimore . . .	58	-3	.3	-.5	Pendleton . . .	61	+5	0	-.3
Kodiak . . .	---	---	---	---	MASS.Boston . . .	58	+3	.2	-.6	Portland . . .	59	+4	T	-.5
Nome . . .	35	+5	T	-.2	Chatham . . .	52	---	.5	---	Salem . . .	57	+3	T	-.5
ARIZ.Flagstaff . . .	48	0	1.4	+1.2	MICH.Alpena . . .	44	-3	.5	-.1	PA.Allentown . . .	53	-4	.1	-.8
Phoenix . . .	72	-2	1.0	+.9	Detroit . . .	51	-4	1.8	+1.0	Erie . . .	47	-4	.9	+.1
Tucson . . .	67	-4	.1	0	Flint . . .	47	-6	2.0	+1.3	Harrisburg . . .	56	-4	T	-.8
Winslow . . .	56	-4	.8	+.7	Grand Rapids . . .	46	-8	2.9	+2.2	Philadelphia . . .	58	-2	.4	-.3
Yuma . . .	72	-5	.1	+.1	Houghton Lake . . .	44	-5	.5	-.1	Pittsburgh . . .	51	-6	.2	-.6
ARK.Fort Smith . . .	60	-8	.6	-.7	Lansing . . .	48	-5	1.4	+.7	Scranton . . .	53	-3	.3	-.5
Little Rock . . .	61	-6	1.1	-.2	Marquette . . .	45	-2	.1	-.5	R.I. Providence . . .	54	0	.1	-.7
CALIF.Bakersfield . . .	72	+4	.6	+.5	Muskegon . . .	44	-8	1.6	+1.0	S.C.Charleston . . .	67	-3	.9	+.2
Eureka . . .	51	0	T	-.6	S. Ste. Marie . . .	41	-5	.6	0	Columbia . . .	66	-4	.4	-.3
Fresno . . .	67	+2	T	-.1	MINN.Duluth . . .	47	+1	T	-.7	Greenville . . .	59	-8	1.6	+.9
Los Angeles . . .	60	-4	.1	0	Internatl Falls . . .	44	-3	T	-.5	S.D.Aberdeen . . .	50	-2	T	-.6
Red Bluff . . .	72	+7	T	-.3	Minneapolis . . .	52	-2	T	-.7	Huron . . .	49	-5	T	-.5
San Diego . . .	63	0	.3	+.2	Rochester . . .	50	-3	T	-.7	Rapid City . . .	52	0	.1	-.5
San Francisco . . .	57	0	T	-.2	St. Cloud . . .	47	-5	T	-.7	Sioux Falls . . .	51	-3	T	-.7
Stockton . . .	62	-1	0	-.2	MISS.Jackson . . .	66	-4	2.2	+1.1	TENN.Chattanooga . . .	59	-7	1.0	+.2
COLO.Denver . . .	54	0	.1	-.5	Meridian . . .	63	-7	2.8	+1.9	Knoxville . . .	59	-7	.6	-.2
Grand Junction . . .	58	-1	1.0	+.9	MO.Columbia . . .	51	-11	.6	-.5	Memphis . . .	60	-8	1.3	+.2
Pueblo . . .	56	-2	.1	-.3	Kansas City . . .	54	-8	1.7	+.8	Nashville . . .	58	-8	.2	-.8
CONN.Bridgeport . . .	53	-2	T	-.3	St. Louis . . .	54	-9	.2	-.6	TEX.Abilene . . .	62	-8	.9	0
Hartford . . .	54	-1	.3	-.5	Springfield . . .	54	-8	.5	-.6	Amarillo . . .	64	-9	.2	-.3
D.C.Washington . . .	61	-2	T	-.8	MONT.Billings . . .	53	+1	.2	-.2	Austin . . .	68	-5	2.4	+1.5
FLA.Apalachicola . . .	69	-4	.8	+.2	Glasgow . . .	54	+3	T	-.2	Beaumont . . .	71	-3	1.2	+.1
Daytona Beach . . .	71	-2	2.4	+2.0	Great Falls . . .	55	+4	.4	0	Brownsville . . .	75	-3	T	-.5
Ft. Myers . . .	76	0	T	-.6	Havre . . .	54	+2	T	-.3	Corpus Christi . . .	72	-4	.6	-.1
Jacksonville . . .	67	-5	4.1	+3.5	Helena . . .	52	+2	.1	-.2	Dallas . . .	---	---	---	---
Key West . . .	80	0	.6	+.1	Kalispell . . .	53	+4	.4	+.1	Del Rio . . .	68	-8	1.4	+.9
Lakeland . . .	77	+1	.1	-.5	Miles City . . .	56	+3	T	-.4	El Paso . . .	63	-6	.7	+.6
Miami . . .	79	+2	1.4	+.3	Missoula . . .	56	+6	.2	-.1	Fort Worth . . .	64	-6	1.9	+.8
Orlando . . .	76	+1	1.6	+1.1	NEBR.Grand Island . . .	54	-3	0	-.8	Galveston . . .	72	-2	1.3	+.6
Tallahassee . . .	69	-4	1.1	+.3	Lincoln . . .	56	-3	0	-.7	Houston . . .	69	-5	1.2	+.1
Tampa . . .	75	-1	.2	-.2	Norfolk . . .	54	-3	0	-.7	Lubbock . . .	60	-6	.1	-.6
W.Palm Beach . . .	77	+1	2.1	+1.1	N.Platte . . .	48	-7	.1	-.6	Midland . . .	61	-9	.7	+.2
GA.Atlanta . . .	62	-5	.5	-.4	Omaha . . .	55	-3	T	-.8	San Angelo . . .	63	-9	.6	0
Augusta . . .	65	-4	.5	-.3	Valentine . . .	52	-2	0	-.6	San Antonio . . .	68	-6	4.3	+3.6
Macon . . .	65	-6	.3	-.5	NEV.Ely . . .	48	0	.5	+.3	Victoria . . .	71	-4	.6	-.3
Savannah . . .	66	-5	.1	-.7	Las Vegas . . .	70	0	.3	+.2	Waco . . .	67	-5	1.7	+.6
HAWAII.Hilo . . .	---	---	---	---	Reno . . .	55	+3	.1	0	Wichita Falls . . .	61	-9	.3	-.7
Honolulu . . .	78	+2	T	-.2	Winnemucca . . .	58	+7	.3	+.1	UTAH.Blanding . . .	52	-2	.7	+.6
Kahului . . .	---	---	---	---	N.H.Concord . . .	50	-2	.9	+.2	Salt Lake City . . .	59	+3	.1	-.3
Lihue . . .	78	+3	.1	-.5	N.J.Atlantic City . . .	53	-6	.3	-.5	VT.Burlington . . .	48	-3	.7	+.1
IDAHO.Boise . . .	57	+2	.1	-.2	Trenton . . .	58	-1	.1	-.7	VA.Lynchburg . . .	56	-7	T	-.7
Lewiston . . .	62	+6	T	-.3	N.MEX.Albuquerque . . .	56	-6	.8	+.7	Norfolk . . .	63	-1	.1	-.6
Pocatello . . .	56	+4	.2	-.1	Roswell . . .	61	-5	.8	+.6	Richmond . . .	60	-4	.9	+.1
ILL.Cairo . . .	58	-8	.3	-.8	N.Y.Albany . . .	52	-2	.7	0	Roanoke . . .	57	-5	0	-.8
Chicago . . .	50	-7	1.5	+.7	Binghamton . . .	49	-3	.2	-.6	WASH.Colville . . .	56	+3	.1	-.2
Moline . . .	50	-8	1.7	+.9	Buffalo . . .	46	-6	1.3	+.6	Omak . . .	---	---	---	---
Peoria . . .	51	-7	1.8	+.8	New York . . .	59	0	T	-.8	Quillayute . . .	52	+3	.3	-.9
Rockford . . .	48	-7	.6	-.3	Rochester . . .	49	-4	.5	-.1	Seattle-Tacoma . . .	58	+5	.1	-.3
Springfield . . .	53	-7	.5	-.3	Syracuse . . .	49	-5	.7	0	Spokane . . .	57	+5	T	-.3
IND.Evansville . . .	55	-8	.3	-.7	N.C.Asheville . . .	55	-6	.8	+.1	Walla Walla . . .	62	+4	T	-.4
Ft. Wayne . . .	51	-5	.8	0	Charlotte . . .	60	-6	.7	+.1	Yakima . . .	59	+4	0	-.1
Indianapolis . . .	51	-8	1.0	+.1	Greensboro . . .	59	-5	T	-.6	W.Va.Beckley . . .	52	-4	.2	-.6
South Bend . . .	50	-5	3.2	+2.5	Hatteras . . .	57	-7	.5	-.2	Charleston . . .	56	-6	.3	-.5
IOWA.Burlington . . .	52	-7	1.4	+.6	Raleigh . . .	61	-4	.3	-.4	Huntington . . .	56	-6	.3	-.5
Des Moines . . .	56	-2	T	-.9	Wilmington . . .	65	-4	.6	-.2	Parkersburg . . .	55	-6	.2	-.6
Dubuque . . .	50	-5	.3	-.7	N.DAK.Bismarck . . .	49	-2	0	-.4	WIS.Green Bay . . .	46	-5	.3	-.4
Sioux City . . .	52	-6	0	-.7	Fargo . . .	49	-2	T	-.5	La Crosse . . .	51	-5	T	-.8
KANS.Concordia . . .	55	-5	.1	-.7	Williston . . .	50	-1	0	-.3	Madison . . .	50	-3	.3	-.4
Dodge City . . .	54	-7	.9	+.3	OHIO.Akron-Canton . . .	50	-5	.2	-.7	Milwaukee . . .	49	-2	2.0	+1.4
Goodland . . .	52	-4	T	-.5	Cincinnati . . .	54	-6	.1	-.7	WYO.Casper . . .	51	+1	T	-.4
Topeka . . .	51	-10	.9	+.1	Cleveland . . .	50	-5	.6	-.2	Cheyenne . . .	49	-1	T	-.5
Wichita . . .	55	-8	.3	-.5	Columbus . . .	53	-5	.2	-.7	Lander . . .	51	+1	.3	-.3
KY.Lexington . . .	54	-8	.1	-.8	Dayton . . .	52	-6	.1	-.7	Sheridan . . .	52	+1	.2	-.3
Louisville . . .	57	-5	.1	-.8	Toledo . . .	51	-4	.9	+.2	P.R.San Juan . . .	80	+1	.4	-1.0

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## State Summaries of Weather and Agriculture

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

**ALABAMA:** Cool trend continued. Temperatures 5° below normal. Record low 37° Birmingham 4th. Moderate to heavy rains 7th, 8th, 9th.

Fieldwork: 5 days suitable. Cotton 89% planted, 66% 1975, average 74%. Fair condition. Some replanting. Corn 86% planted, 62% 1975, average 64%. Fair to good condition. Peanuts 76% planted, 66% 1975, average 74%. Soybeans 16% planted, 13% 1975. Sorghum planting starting. Small grains fair to good, 85% headed. Few hay crops harvested. Pastures fair to good.

**ARIZONA:** Temperatures 2 to 5° below normal. Little rainfall western border. Moisture fell over entire State.

Limit planting, replanting cotton. Cool temperatures Pima County delayed normal development, some seedling disease. Yuma County cold conditions, season 3 weeks behind. Final irrigation wheat, barley. Freezing caused damage. Seed fields harvested. Harvest sugarbeets underway. Irrigation, harvest, grazing alfalfa. Harvest lettuce declining. Elsewhere lettuce satisfactory growth. Potato, dry onion harvest commencing. Cantaloups good growth. Fruits increasing in size. Harvest valencias and grapefruits continues. Citrus groves good condition. Ranges central, White Mountains good condition. Ranges below 3,000 feet poor to fair. Water supplies adequate. Cattle, calves good condition. Shipments fat cattle slaughter moderate, lamb shipments declining.

**ARKANSAS:** Cool with general precipitation heaviest south. Precipitation 2.53 in. to 0.05 in. Temperature extremes: 85 to 30°.

Warmer days and nights needed to promote growth. Soybean seeding 12% complete, 8% year ago, average 7%. Cotton 72% planted, 32% last year, 38% average, numerous replantings. Rice seeding 91% complete, 72% 1975, average 67%. Many fields yellowing due to cool weather. Corn acreage 90% planted. Sorghum planting 70% complete, 48% last year, some replanting necessary. Increased disease dampened small grain prospects some areas. Peach size good. Hay harvest continued, some fields cut second time. Yields generally below normal.

**CALIFORNIA:** Scattered thundershowers Sierra Nevada and sections south midweek into weekend. Amounts generally light. Windy at times Sacramento Valley, otherwise, fair except some coastal low cloudiness. Highs 70's coastal valleys, upper 70's and 80's Central Valley and near 100° low southeast deserts beginning week and 70's by weekend. Lows coastal valleys 40's. Central Valley mostly 50's and 55 to 65° low southeast Deserts. Averages near normal except slightly above Central Valley and about 4° below northeast interior basins.

Wheat harvest began desert. Rice planting continues, some water problems. Spring sugarbeet digging continues, new crop looks good. Cotton late. Alfalfa active, grain hay beginning coast and San Joaquin Valley. Land preparation and planting continues, corn, milo, dry beans. Irrigation, cultivation, weed, and insect controls active. Peach harvest underway. Thinning early peaches, nectarines, plums, and apricots. Harvesting early cherries Stockton. Navel orange picking continues. Cullage of dried fruit heavy. Valencia orange harvest increasing. Grapefruit and lemon picking active. Avocado harvest active,

high oil content. Vegetable scene steady. Spring harvest activity increasing. Strawberries, artichokes, broccoli, and cauliflower very active. Lettuce harvest down. Carrots steady. Spring potatoes increasing. Supplemental feeding most areas. Sheep, cattle being moved summer range. Water supplies below normal. Cattle, sheep marketed earlier, lighter.

**COLORADO:** Temperatures generally warming early week. Cold front 5th brought cool showery conditions. Precipitation Colorado Basin 0.68 in., Rio Grande 0.71 in. Weeklong temperatures near normal.

Winter wheat condition very poor southeast, fair to good elsewhere, 39% jointed, 42% 1975, 60% average. Sugarbeets 90% planted, 92% 1975, 78% average. Corn 51% planted, 51% 1975, 41% average; 7% emerged. Spring barley 90% seeded, 92% 1975, 85% average, 64% emerged, condition good. Oats 84% seeded, 80% 1975, 59% average. Oats emerged 60%, 77% 1975, 43% average. Condition good. Soil moisture generally short. Livestock condition good. Ranges and pastures very poor southeast, fair to good elsewhere.

**FLORIDA:** Partly cloudy with scattered thundershowers. Temperatures near normal. Rainfall moderate, ranging 0.10 in. to 3.75 in. isolated locations.

Soil moisture adequate west and north, short other areas. Showers weekend helpful. Corn, sugarcane and tobacco good condition, but more moisture needed. Peanut planting active west, complete other areas. Planting soybeans underway. Small grain harvest about to begin. Peach and nectarine harvest increasing. Pasture conditions range from fair to excellent in Panhandle, poor to fair elsewhere. Pasture grasses putting on new growth as showers restore moisture supplies. Central, south Florida pastures recovering from dry period. Cattle, calves fair to good condition. Some rain most citrus areas, many growers still irrigating. New crop fruit sizing well, valencia harvest active. Harvest spring vegetables increased 16%. Sweet corn, potatoes, watermelons, and tomatoes showed substantial gains. Movement near peak level. Tomato production heavy important Palmetto-Ruskin area. Size very good: 68% large to extra large. Quality excellent. Other crops increasing in volume were celery, green peppers, and carrots. Crops remaining steady were cabbage, eggplant, escarole and radishes. Crops declining were snap beans, chinese cabbage, cucumbers, lettuce, squash, and strawberries.

**GEORGIA:** Much needed rain 1st and 2d, north on 7th. Amounts 0.75 to 1.50 in., except 2.50 in. southeast. Temperatures 3° below normal. Cool at midweek, freezing in mountains on 4th and 5th. Scattered showers 8th, cool 8th and 9th.

Soil moisture short southeast, extremely variable north, short to adequate. Adequate elsewhere. Fieldwork: 5 days suitable. Cool weather slowing plant growth. Soaking rain needed, showers 8th helpful. Corn condition fair to mostly good, planting 94% complete, last year 83%, average 86%. Tobacco transplanting complete, some being laid by, condition good. Cotton condition fair to good, planted 86%, last year 68%, average 75%. Cotton 56% up to stand, last year 36%, average 43%. Peanuts fair to mostly good, 82% planted, last year

68%, average 80%. Spraying active. Soybeans fair to mostly good, 11% planted, last year 14%, average 16%. Small grains fair to good. Peaches good, beginning to harvest. Apples good, light cold damage north. Watermelons good. Pastures fair to good. Cattle fair to mostly good. Hogs good.

HAWAII: Weather improving. Showers light with more sunny periods.

Irrigation increasing. Spray frequent to control disease and insect infestation. Vegetable supplies of head and mustard cabbage heavy, others adequate. Banana, papaya, pineapple, supply light. Sugar harvest active. Pasture good condition.

IDAHO: Temperatures averaged 3 to 4° above normal north and 1 to 3° above normal south. Precipitation ranged from none to 0.83 in.

Fieldwork planting operations rapid headway. Higher elevation fields too wet. Winter wheat crop good condition. Seeding spring wheat and spring barley 45% complete, 40% and 30% 1975. Potato planting 30% complete, 15% 1975. Livestock excellent condition with few health problems. Cattle and sheep summer ranges. Grass growth good, provides excellent condition.

ILLINOIS: Temperatures 5 to 9° below normal. Freezing many areas. Precipitation: 0.25 in. south, more than 2.00 in. northeast.

Corn 69% planted, 48% 1975, 33% average. Soybeans 11% planted, 8% 1975, 3% average. Winter wheat 19% excellent, 72% good, 9% fair; 70% headed, 19% 1975, 23% average; 18% filled, none 1975, 3% average. Oats 10% excellent, 72% good, 18% fair. Alfalfa and red clover hay mostly good. Pastures mostly good, supplying 84% livestock roughage requirements. Soil moisture 28% short, 44% adequate, 28% surplus. Fieldwork: 4.5 days suitable.

INDIANA: Rainfall 0.80 to 1.90 in. extreme north but only 0.60 central and 0.30 south. Temperatures 28 to 32° mornings of 8th and 9th except middle 30's near Ohio River. Air temperatures 5° below normal.

Fieldwork: 5 days. Plowing complete. Corn 65% planted, 1975 25%, average 20%. Soybeans 5% planted, 1975 and average, just underway. Wheat 17 in. tall, 1975 9 in., average 12 in. Wheat fair to good. Wheat 70% jointed. Oats 5 in. tall, 1975 4 in. Barley 80% headed. Rye 60% headed. Few tobacco plants set. Topsoil and subsoil moisture short to adequate. Pastures mostly fair.

IOWA: Temperatures 3 to 5° below normal except 1° below north central. Precipitation amounts 0.25 in. to locally 1.75 in. southeast, south central, east central. North and west had none.

Fieldwork advanced rapidly. Cool temperatures hampered growth, development. Some frost damage to crops, should recover. Moisture supplies decreased, need rain, warmer temperatures. Corn planting 65% complete, 27% last year, 36% average. Some early corn emerged, yellow due to cool weather. Oats mostly good. Growth slow, stands normal. Winter wheat growth slow, condition fair to good. Hay crops fair to good. Weevil problems, unknown damage. Topsoil moisture adequate. Subsoil moisture adequate. Fieldwork: 5.5 days suitable. Livestock good. Calving nearly complete. Calving, litter rates good. Pasture condition fair to good. Need rain, warmth to supply more feed.

KANSAS: Temperatures mid-50's, 2° below normal northwest, 5 to 7° below normal elsewhere. Significant precipitation mostly 0.50 in. to 1.50 in. in 100 mile wide band from Meade to Hiawatha with locally over 2.00 in. northeast. Frost morning of

May 3d with lows 28° to 30° common over east and north central. Mid-30's elsewhere.

Adequate soil moisture, cool temperatures. Ideal conditions for wheat. Wheat 95% jointed, 70% last year, 90% average, 30% headed, 5% last year, 25% average. Frost 3d, extensive damage to fruit and early vegetables, some damage to wheat, extent unknown. Corn 40% planted, same as average, 25% last year. Sorghum 5% planted, same as average and last year. Soybeans only a few fields planted, normal and last year 5%.

KENTUCKY: Temperatures 5 to 10° below normal with freezing temperatures 4th. Rainfall less than 0.25 in. as scattered showers on 3d and again on 6th and 7th.

Soil moisture progressively shorter, scattered showers little relief, except west. Corn planting 75% done, most advanced this date on record, soybean planting underway, week ahead last year. Tobacco plant beds good condition, with water; 67% plants size half dollar some ready to set. Fruit crops damaged by freezes, apples 50% crop, peaches 25 to 50% full crop, strawberry picking started on short crop.

LOUISIANA: Temperatures normal south, 4° below north. Extremes: 89 and 45°. Showers 6th to 8th; 1.00 to 4.00 in.

Fieldwork: 5.4 days suitable. Cotton 69% planted, 13% last year, 49% average. Some replanting necessary. Rice 92% planted, 82% last year, 85% average. Stands mostly good. Soybeans 13% planted, 3% last year, 12% average. Corn 93% planted, 64% last year. Some early corn laid by. Sugarcane fair growth; fertilization virtually complete; weeds under control. Sweetpotato transplanting over 25% complete, 15% last year. Small grains matured rapidly. Pastures near average. Cattle fair to good flesh.

MARYLAND & DELAWARE: Temperatures near normal. Extremes: upper 20's, mid-80's. Precipitation 0.10 to 3.03 in.

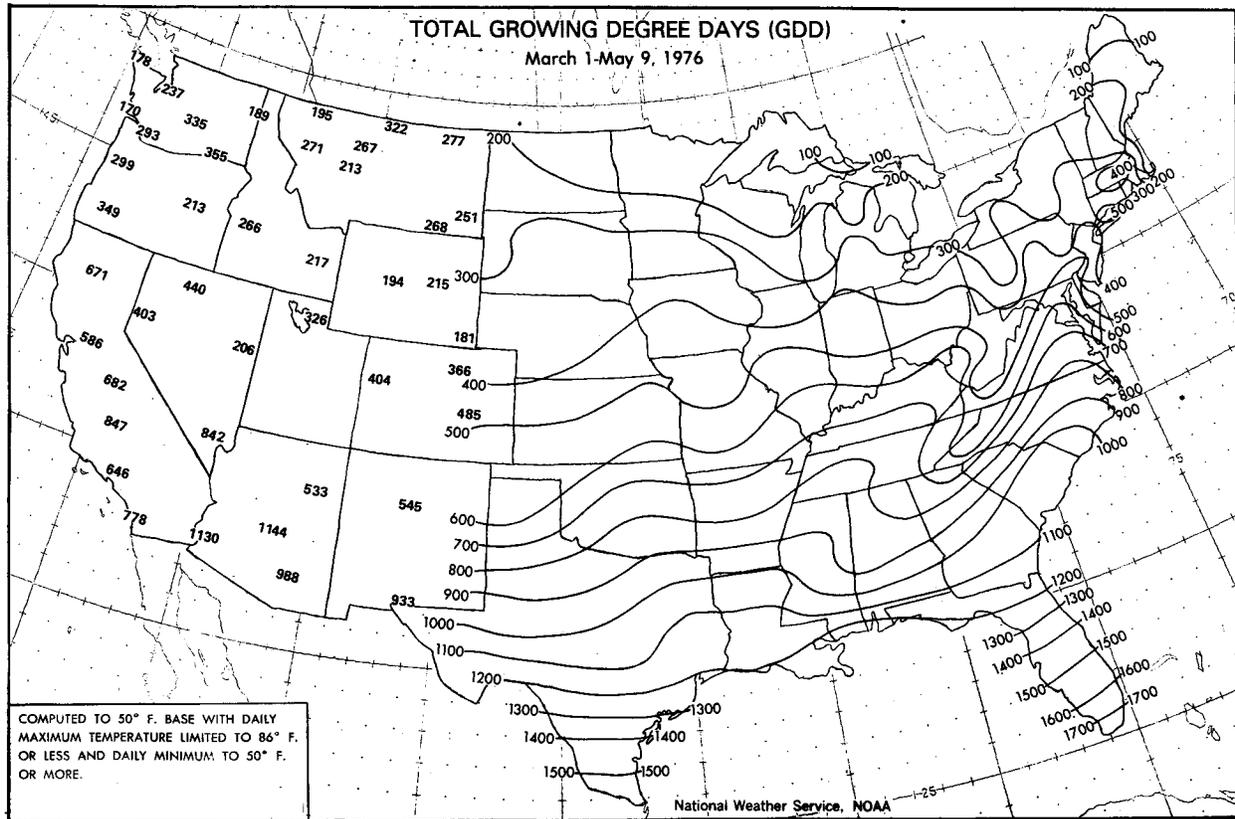
Corn planting 65% complete, 25% 1975, 43% average. Many fields emerged, stands generally good. Cool weather delaying soybean planting. Small grains fair to good condition. First cutting alfalfa started. Spraying for alfalfa weevil. Additional freeze damage to fruit crop occurred morning of May 5th. Extent unknown.

MICHIGAN: Temperatures 2 to 8° below normal. Lowest departure west central, southwestern Lower and southwestern Upper. Average temperatures low 50's southeastern Lower to low 40's over Upper. Precipitation 3.00 in. central and southern Lower.

Cold temperatures, high winds, and rain slowed crop growth and field activities. Heavy winds caused some soil erosion over Lower. Plowing two-thirds complete, 50% last year, 56% normally. Fieldwork: 2 days suitable. Soil moisture surplus. Corn 17% planted, 3% last year, 15% average. Oats 85% seeded, 40% last year, 65% average. Sugarbeets 90% planted, 32% last year, 61% normally. Potatoes 30% planted, 21% last year, 25% average.

Repeated frosts delayed fruit bud development. Pollination poor, bees not very active. Asparagus picking 10% complete, none last year, 6% average. Wet soils and cold weather delayed early vegetable plantings.

MINNESOTA: Temperatures 3° below normal. Warmest over weekend. Extremes: 90 and 18°. Precipitation well below normal with deficiencies of 1.50 in. to 2.50 in. since beginning of growing season. Amounts this week ranged from none to near 0.10 in.



or 0.50 in. to 0.70 in. below normal. Fieldwork: very rapid all areas. Moisture short to very short. Cool temperatures slowed grain, hay, pasture growth. Percent seeded: spring wheat 95%, 1975 17%, normal 49%; oats 96%, 1975 30%, normal 61%; barley 88%, 1975 9%, normal 39%; flax 53%, 1975 15%, normal 34%. Progress 4 weeks ahead of normal. Percent planted: corn 75%, 1975 6%, normal 30%; soybeans 11%, 1975 0%, normal 4%; sugarbeets 99%, 1975 14%, normal 45%.

**MISSISSIPPI:** Temperatures 5 to 10° subnormal. Extremes: 88 and 31. Greatest 24-hour rainfall 3.49 in.

Soil moisture short to adequate. Fieldwork: 4.7 days suitable. Cotton 78% planted, 22% 1975, 55% average; 21% up to stand, 10% 1975, 26% average. Soybeans 6% planted, 3% 1975; 6% average. Rice 85% planted, 38% 1975, 55% average; 31% up to stand, 21% 1975. Corn 87% planted, 45% 1975, 54% average; 57% up to stand, 32% 1975. Winter wheat 97% headed, 92% 1975. Oats 94% headed, 94% 1975. Sorghum 22% planted, 7% 1975, 17% average. Sweetpotatoes 20% planted, 12% 1975, 20% average. Cotton in poor to fair condition. Other crops in fair to good condition.

**MISSOURI:** Temperatures 7 to 10° below normal. Precipitation 1.00 in. to 1.25 in. north, 0.25 in. elsewhere.

Fieldwork: 3.0 days suitable. Soil moisture 14% short, 66% adequate, 20% surplus. Corn planting 70% complete, 1975 41%, average 41%. Condition of corn poor. Frost damage reported, heaviest northwest. Cotton planting Bootheel 82% complete, 1975 50%, normal 43%. Substantial replanting occurring. Grain sorghum planting 18% complete, 1975 9%, normal 13%. Soybean plantings 8% complete, 1975 7%, normal 6%. Freeze damage apples,

peaches light to moderate, grapes severe. Wheat condition fair to good. Frost damage to wheat extent not known as this time.

**MONTANA:** Mild with temperatures near, to 4° above normal. Few showers 3d. Rain 4th with snow mountains. Dry weekend, except few scattered thunderstorms.

Seeding progress good. Soil moisture adequate. About 70% spring wheat and barley sown--last year 5% and normal 60%. Oats 65% sown, corn 25%, potatoes 10%, dry beans 15%, sugarbeets 80%--all ahead of last year. Winter wheat condition good. Ranges grazed although 50% livestock on supplemental feed. About 30% cattle and sheep moved to summer pasture. Calving 90% done, lambing 85% shearing, 75% complete.

**NEBRASKA:** Temperatures below normal. Frost early week. Light showers southeast midweek.

Topsoil moisture declined, short 28%. Subsoil moisture short 58%. Winter wheat condition poor 23%. Fair 60%, good 17%; 35% wheat jointed, 20% last year. Corn 30% planted same last year, normal 20%. Alfalfa and wild hay condition fair. Pasture and range feed supplies improving, need warmer weather.

**NEVADA:** Temperatures well above normal central and north, average south. Cold front 6th and 7th brought cold weather with 6 in. snow. Scattered showers weekend.

Seeding spring crops gaining momentum. Vegetative growth slow. Run off water short but reservoirs are at above average levels. Calving nearing completion. Sheep shearing and lambing proceeding at normal rate. Movement to spring ranges delayed because of limited growth of spring grasses. Livestock in good condition.

NEW ENGLAND: Rainfall May 3d and 7th 0.50 in. to 1.00 in. north and west, less in south. Cold fronts 3d and 6th caused alternating cool and warm. Concord, N. H. reported 26° 5th and 86° 6th.

Cold and rain halted fieldwork. Spotty frost damage to all fruits May 3d, 4th, 5th. South potato and corn planting underway, not started north. Pastures and hay fields growing.

NEW JERSEY: Temperatures 3° below normal, frost many areas. Extremes: 29 and 84°. Rainfall 0.08 in. north, 0.31 in. central and 0.18 in. south. Estimated soil moisture, in percent of field capacity averaged: 88% north, 80% central and 75% south. Four inch soil temperature averaged: 56° north and 60° south.

Cold night temperatures harmful, frost reported. Winds dried topsoil, some areas need rain. Vegetable planting continues active. Potatoes up. Peach, apple and blueberry prospect uncertain. Strawberry prospects good, harvest to start in South Jersey. Field corn planting increasing. Alfalfa weevil widespread, spraying active.

NEW MEXICO: Significant rainfall 4th to 8th. Over 1.00 in. Central Valley and Central Highlands 0.75 in. southeast Plains. Slightest amounts southwest and northeast corners.

Soil moisture short. Some field activities interrupted from precipitation. Ranges and livestock fair, lambing near complete, calving well advanced. Cotton 80% planted south beginning north. Some hail damage and frozen cotton with some replanting. Alfalfa good, first cutting started extreme south. Corn 80% planted, emerged to acceptable stands. Dryland wheat poor, irrigated winter wheat and barley fair in east, good elsewhere. Jointing complete, heading started, some hail damage and possibly frozen stalks. Durum wheat good. Apple blooming complete, crop good. Lettuce and onions good with lettuce harvest started. Pecans blooming.

NEW YORK: Temperatures below normal. Precipitation near to above normal western third, near to below normal elsewhere. Week began cool with light precipitation. Scattered frost interior 5th, with afternoon temperatures from upper 60's to lower 80's. Colder weather 6th and 7th accompanied by rain. Partly cloudy and cool over weekend with scattered valley frost.

Cool, wet weather delayed fieldwork. Corn planting 7% oat planting 55%. Wheat condition good. Some livestock on pasture. Long Island potatoes emerging while Upstate planting 50% complete. Onion fields some areas excessively wet making herbicide spraying difficult. Direct seeding of cabbage underway, some early emerged. Planting green peas 65% complete. Cool, wet conditions holding back grape development. Applying herbicides and fertilizer. Pollinating conditions west poor as weather cold and windy. Sweet cherry set appears good. Strawberry set excellent Long Island while Upstate in bloom.

NORTH CAROLINA: Temperatures near normal to 5° above. Below freezing in mountains 5th. Thunderstorms with rainfall moderate to heavy. Fieldwork: 5.2 days suitable. Soil moisture mostly short to adequate. Flue-cured tobacco 67% transplanted, 1975 55%, average 50%. Some plant shortages exist. Tobacco transplanted earlier fair condition. Corn 86% planted, 1975 79%, average 72%; condition fair to good. Soybeans 11% planted, 1975 9%, average 14%. Peanuts 39% planted, 1975 29%, average 38%. Cotton 80%

planted, 1975 68%, average 69%. Sweetpotatoes 10% planted, 1975 15%. Sorghum 20% planted, 1975 14%. Wheat condition 35% poor, 55% fair and 10% good. Other small grains range poor to good, mostly fair.

NORTH DAKOTA: Temperatures 7° below normal. Extremes: 82 to 18°. Precipitation 0.66 in. below normal southeast to 0.37 in. below normal southwest. Weekend warm, trace of rain south.

Hard red spring wheat 74% planted compared with 45% average and 7% last year. Durum 54% planted, 33% average and 4% last year. Barley and oats over 60% planted, ahead of normal. Row crop planting ahead of normal. Recent freeze damage minimal to small grains. Moisture supplies adequate. Pastures fair to good.

OHIO: Warmer early then below normal remainder. Freezing temperatures 8th and 9th. Precipitation 3 days ranging 0.14 in. southwest to 1.51 in. northwest.

Nearly 1.5 million acres corn planted last week. Corn planting 70% done, 35% 1975 and 40% normal. Soybeans 15% planted, 10% 1975 and normal. Potatoes, 70% planted, 60% 1975 and 55% normal. Oats 75% emerged. Wheat: average height 13", 60% jointed. Soil moisture supplies: 42% short, 56% adequate, and 2% surplus. Fieldwork: 5 days suitable.

OKLAHOMA: Temperatures 6 to 8° below normal. Precipitation ranged from 0.15 in. north central to 1.69 in. southeast. Weekend mild with rain most areas.

Cool weather slowed maturity small grains, and wet cold soils permitted little progress on summer row crops. Wheat 80% headed, 72% year ago, 79% average, 6% dough stage, 2% year ago. First harvest approximately 10 days, weather permitting. Oats 77% headed, average 71%. Barley 80% headed, 88% average. Both crops good to fair condition. Corn planting 33% complete Panhandle, near complete elsewhere. Corn needs warmer soils to complete planting better growth. Sorghum planting 15% complete, average 6%, no planting in northwest. Few early fields cotton and peanuts planted. Most seedbeds need reworking before widespread planting begins. Topsoil moisture adequate to near adequate. Range grasses making rapid growth. Supplemental feeding unnecessary. Cattle making good gains with condition rated good or better.

OREGON: Temperatures a few degrees above normal. Extremes: mid-80's, mid-30's west; upper 80's, upper 20's east. Precipitation spotty with above normal amounts only on the north coast and east.

Fall seeded grains in good to excellent condition. Spring grains progressing normally. Strawberries and cherries in bloom. Spray being applied to fruit. Potatoes and onions emerging. Other vegetables being seeded. Livestock in good condition. Feed supplies adequate. Pastures improving.

PENNSYLVANIA: Sunny, cool and dry. Temperatures 1 to 6° below normal with most maxima in 50's and 60's and minima frequently 30's and 40's. Extremes: 83 and 24°. Widespread early morning frost and freezing temperatures mid-period and weekend. Few showers and little rainfall. Amounts 0.25 in. or less.

Soil moisture adequate to short. Fieldwork: 5 days suitable. Activities: liming, grape tying, orchard spraying, spraying clover and

alfalfa, plowing, planting oats, potatoes and corn plus some sweet corn and tomatoes. Plowing 89%, two weeks ahead of 1975 at 70%. Oats planting 92%, week ahead of last year's 75%. Potatoes 63% planted, 10 days ahead of 1975 at 44%. Corn planted 27%, 10 days ahead of 1975 at 5%. Barley 27% boot, 12% headed, mostly south. Wheat 27% boot. Hay mostly fair to good, needs rain, especially south. Feed from pastures average to below, needs rain also. Fruit past bloom except north where peaches and apples about 20% full bloom.

PUERTO RICO: Island rainfall 1.18 in., 0.36 in. below normal. Temperatures about 78° on coasts and 72° interior.

Sugarcane harvest and new plantings active. Cultivation of coffee underway. Flowering and bean development progressing well. Good weather for tobacco harvest and drying in shed. Recuperation of pastures. Soil preparation and planting main activities food crop zones. Plantains, bananas, vegetables and citrus being harvested western/interior.

SOUTH CAROLINA: Temperatures several degrees below normal, considerably below normal early week, several degrees above normal on 6th. Rainfall heaviest northwest amounts varied from over 2.00 in. in mountains to scattered amounts in south.

Crop conditions improving due to rain. Small grains still in poor to fair condition, rain too late to help; some producers cutting small grains for hay. Corn fair to good. Soybean planting underway. Peach condition fair to good. Tobacco: field stands mostly fair, budworm infestations high, also flea beetles, aphids, cutworms. Some producers still retransplanting. Tobacco planted: 1976, 97%; 1975, 97%; average, 94%. Corn planted: 1976, 98%; 1975, 89%; average 89%. Cotton planted: 1976, 84%; 1975, 66%; average 75%. Soybeans planted: 1976, 9%; 1975, 10%; average 8%.

SOUTH DAKOTA: Temperatures near normal. Extremes: 91 and 14°. Frosts 3d and 7th. Lows: 14 to 30°. Freeze damage slight to heavy. Precipitation light.

Topsoil moisture short except southwest, southeast and extreme north central area where moisture adequate. Fieldwork ahead of normal. Spring plowing 84% complete, 1975 48%, normal 66%. Corn planting 22% complete, 1975 11%, normal 23%. Spring wheat 99% seeded, 1975 48%, normal 86%. Barley 99% seeded, 1975 51%, normal 83%. Oats 99% seeded, 1975 59%, 87% normal. Soybeans 5% planted, 1975 0%, normal 0%. Sorghum 5% planted, 1975 0%, normal 0%. Pasture growth continues slow in cool weather. Cattle moving to pastures as feed supplies are depleted. Many pastures still haven't recovered from last year's overgrazing.

TENNESSEE: Rainfall 3d and again 6th and 7th. Temperatures 6 to 9° below normal. Rainfall 1.00 to 1.50 in. east and 0.50 to 1.00 in. in middle and west.

East very dry with pastures and crops showing effects. First cutting alfalfa 25% completed but short middle and east. Fieldwork: 5 days suitable. Frost damage to crops, fruits, and vegetables varied from slight in west to heavy in east. Corn, cotton and soybean planting made good progress. Corn 80% planted, 60% last year and 54% average. Cotton 80% planted, 45% last year and 50% average. Soybeans 15% planted, 8% last year and average. Small grain development 10 days to 2 weeks ahead of normal but short straw.

Wheat near 95% headed, 80% last year, 70% average. Barley near 95% headed, 80% last year, 79% average. Oats 90% headed, 70% last year and 75% average. Plowing 90% completed 3 weeks ahead of normal. Pastures poor. Soil moisture 53% short, 42% adequate, and 5% surplus. About 10% of tobacco transplanting has been completed but progress slow due to cool, dry weather.

TEXAS: Rains began midweek, continued through weekend. Amounts above normal except Panhandle, lower coast. Cold air returned 3d and weekend, freezing temperatures Panhandle 3d. Temperatures 5° below normal.

Wheat, flax harvest underway south, south central; wet fields delay progress. Planting cotton, corn, sorghum, peanuts satisfactory progress most areas. Rains local floods delayed operations; replanting necessary. Early soybeans seeded Upper Gulf Coast, East Texas High Plains.

Cabbage, carrot, onion harvest remains active. Cucumbers, peppers, few cantaloups being picked. Movement tomatoes slow. Sweetpotato planting underway. Irish potatoes continue make good progress. Peaches continue show good development with harvest early varieties continuing south. Citrus harvest virtually complete. Final picking oranges fresh market underway.

Livestock excellent gains response improved grazing conditions. Abundant grazing available Low Plains southward. Shearing active but nearing completion. Screwworm activity continues increase. First hay baled but rains causing delays, minor losses.

UTAH: General shower and thunderstorm activity latter part. Amounts moderate to heavy in shower areas but locally light to moderate north. Temperatures near normal 5° above normal.

Fieldwork: 7 days suitable. Winter wheat fair to good. Small grains 75 to 85% planted. Green peas 75% planted and sugarbeets 60%. Fruit crops good condition. Livestock good condition. Range feed fair to good. Livestock movement to spring and summer range in full progress.

VIRGINIA: Temperatures slightly below normal. Extremes: 84 and 25°. Moderate to heavy rains first of period. Averaged about 1.00 in.

Fieldwork: 5.3 days suitable. Topsoil moisture: 71% short, 29% adequate. Corn planting: 73% complete; 1975, 50%; average 45%. Herbicide applications active. Some poor stands replanted. Soybeans 13% planted. Peanuts 38% planted, Smallgrains received insect control. Some insilage cut. All grains short. Flue-cured tobacco 12% set. Potatoes being cultivated. Other vegetables showing stress from dry weather. Fruit production prospects questionable after more cold weather. Pasture conditions below normal. Early hay yields below normal. More livestock moved to pasture. Some hay fed to supplement short pasture.

WASHINGTON: West: Temperatures near normal to 2° above normal. Precipitation above normal except west Olympic Coast.

Planting: Pastures, silage corn, spring grains, vegetable crops. Early peas emerging. Strawberries blooming. Pasture growth good with limited grazing.

East: Temperatures 2 to 4° above normal except central basin and east slopes. Precipitation near normal.

Planting: potatoes, field corn, dry beans,

alfalfa and pastures. Cutting asparagus. Alfalfa nearing first cutting stage. Dryland crops good condition. Weed spraying and summerfallow active. Grass and livestock good condition.

WEST VIRGINIA: Temperatures below normal, sub-freezing overnight lows. Precipitation below normal.

Fieldwork: 5.2 days suitable. Soil moisture short to adequate. Condition of growing crops mostly fair. Planted: oats 93%, potatoes 91%, corn 42%, tobacco beds 74% emerged. Farm activities: planting corn, gardening and fencing.

WISCONSIN: Cool with frost 4th. Warming trend 4th and 5th with temperatures in 60's and 70's. New arctic air mass 5th trigger showers and thunderstorms. Most precipitation less than 0.50 in. except southeast where 1.00 to 2.00 in. Frost mornings 6th, 7th, 8th. Some rain and snow north and east 7th before warmer temperatures in 70's and lower 80's weekend.

Corn planting active south. Corn 20% planted, 1975 7%, normal 10%. Early corn planted in April slow to emerge in cold soils. Spring

plowing 60% done, 1975 30%, normal 55%. Oats 70% seeded, 1975 28%, normal 70%. Soil moisture 10% short, 65% adequate, 25% surplus. Crop growth slowed by cold temperatures early May but should improve with recent warm weather. Hay fields doing well but some alfalfa nipped by frost. More cows going out on pasture as growth picks up. Planting continues for potatoes and vegetables. Most tobacco beds seeded. Some frost damage to fruit trees but extent of injury not known yet.

WYOMING: Temperatures normal or little above. Below normal readings east. Precipitation 0.02 in. to 0.65 in. below normal with wettest being Wind River drainage.

Major activities: Crop seeding, care of livestock. Moisture: topsoil 19% short, 81% adequate; subsoil 48% short, 52% adequate. Planting ahead of normal. Spring wheat 73% seeded, oats 59%, barley 81%, sugarbeets 96%, potatoes 8%, corn 12%. Winter wheat prospects 59% fair, 41% good. Alfalfa prospects good. Farm flock shearing ahead of normal. Range sheep shearing, lambing and calving normal.

Heating Degree Days (Base 65° F.)

April 1976

ALA. Birmingham . . .	129	MAINE, Caribou . . .	793	OKLA. Okla. City . . .	128
Mobile . . . . .	8	Portland . . . . .	594	Tulsa . . . . .	126
Montgomery . . . .	67	MD. Baltimore . . . .	293	OREG. Astoria . . . .	483
ALASKA, Anchorage . .	897	MASS. Boston . . . . .	331	Burns U. . . . .	687
Barrow . . . . .	2911	Chatham . . . . .	515	Medford . . . . .	503
Fairbanks . . . . .	861	MICH. Alpena . . . . .	612	Pendleton . . . . .	423
Juneau . . . . .	---	Detroit . . . . .	473	Portland . . . . .	437
Nome . . . . .	---	Flint . . . . .	518	Salem . . . . .	529
ARIZ. Flagstaff . . . .	702	Grand Rapids . . . . .	526	PA. Allentown . . . . .	414
Phoenix . . . . .	52	Houghton Lake . . . . .	590	Erie . . . . .	580
Tucson . . . . .	88	Lansing . . . . .	528	Harrisburg . . . . .	354
Winslow . . . . .	366	Marquette U . . . . .	653	Philadelphia . . . . .	307
Yuma . . . . .	48	S. Ste. Marie . . . . .	746	Pittsburgh . . . . .	453
ARK. Fort Smith . . . .	123	MINN. Duluth . . . . .	667	Scranton . . . . .	451
Little Rock . . . . .	143	Internatl Falls . . . . .	659	R. I. Providence . . . .	403
CALIF. Bakersfield . . .	140	Minneapolis . . . . .	405	S. C. Charleston . . . .	94
Eureka U. . . . .	491	Rochester . . . . .	468	Columbia . . . . .	97
Fresno . . . . .	242	St. Cloud . . . . .	501	Greenville . . . . .	190
Los Angeles U. . . . .	211	MISS. Jackson . . . . .	59	S. DAK. Aberdeen . . . .	454
Red Bluff . . . . .	269	Meridian . . . . .	80	Huron . . . . .	502
Stockton . . . . .	339	MO. Columbia . . . . .	307	Rapid City . . . . .	535
San Diego . . . . .	115	Kansas City . . . . .	277	Sioux Falls . . . . .	418
San Francisco . . . . .	344	St. Louis . . . . .	288	TENN. Chattanooga . . .	180
COLO. Denver . . . . .	469	Springfield . . . . .	245	Knoxville . . . . .	203
Grand Junction . . . . .	386	MONT. Billings . . . . .	559	Memphis . . . . .	100
Pueblo . . . . .	401	Glasgow . . . . .	510	Nashville . . . . .	183
CONN. Bridgeport . . . .	420	Great Falls . . . . .	565	TEX. Abilene . . . . .	65
Hartford . . . . .	391	Hayre . . . . .	492	Amarillo . . . . .	253
D. C. Washington . . . .	236	Helena . . . . .	649	Austin . . . . .	19
FLA. Apalachicola . . . .	20	Kalispell . . . . .	598	Beaumont . . . . .	17
Ft. Myers . . . . .	000	Miles City . . . . .	488	Brownsville . . . . .	0
Jacksonville . . . . .	43	Missoula . . . . .	554	Corpus Christi . . . . .	1
Key West . . . . .	0	NEBR. Grand Island . . . .	354	Del Rio . . . . .	3
Lakeland U. . . . .	0	Lincoln . . . . .	328	El Paso . . . . .	91
Miami . . . . .	0	Norfolk . . . . .	352	Fort Worth . . . . .	48
Orlando . . . . .	0	North Platte . . . . .	521	Galveston U. . . . .	0
Daytona Beach . . . . .	16	Omaha . . . . .	261	Houston . . . . .	26
Tallahassee . . . . .	32	Valentine . . . . .	483	Lubbock . . . . .	116
Tampa . . . . .	2	NEV. Ely . . . . .	749	Midland . . . . .	73
GA. Atlanta . . . . .	124	Las Vegas . . . . .	124	San Angelo . . . . .	48
Augusta . . . . .	97	Reno . . . . .	610	San Antonio . . . . .	11
Macon . . . . .	62	Winnemucca . . . . .	568	Victoria . . . . .	2
Savannah . . . . .	69	N. H. Concord . . . . .	565	Waco . . . . .	38
IDAHO, Boise . . . . .	524	N. J. Atlantic City . . . . .	411	Wichita Falls . . . . .	73
Lewiston . . . . .	439	Trenton U. . . . .	337	UTAH, Blanding R. . . . .	---
Pocatello . . . . .	615	N. MEX. Albuquerque . . . .	304	Salt Lake City . . . . .	464
ILL. Cairo U. . . . .	179	Roswell . . . . .	278	VT. Burlington . . . . .	545
Chicago . . . . .	504	N. Y. Albany . . . . .	472	VA. Lynchburg . . . . .	273
Moline . . . . .	385	Binghamton . . . . .	554	Norfolk . . . . .	188
Peoria . . . . .	351	Buffalo . . . . .	557	Richmond . . . . .	227
Rockford . . . . .	473	New York . . . . .	320	Roanoke . . . . .	271
Springfield . . . . .	321	Rochester . . . . .	507	WASH. Colville . . . . .	570
IND. Evansville . . . . .	275	Syracuse . . . . .	509	Omak . . . . .	---
Fort Wayne . . . . .	404	N. C. Asheville . . . . .	296	Quillayute . . . . .	542
Indianapolis . . . . .	363	Charlotte . . . . .	193	Seattle-Tacoma . . . . .	465
South Bend . . . . .	407	Greensboro . . . . .	199	Spokane . . . . .	588
IOWA, Burlington . . . . .	359	Hatteras R. . . . .	190	Walla Walla U. . . . .	421
Des Moines . . . . .	302	Raleigh . . . . .	194	Yakima . . . . .	500
Dubuque . . . . .	461	Wilmington . . . . .	122	W. VA. Beckley . . . . .	421
Sioux City . . . . .	361	N. DAK. Bismarck . . . . .	550	Charleston . . . . .	342
KANS. Concordia . . . . .	310	Fargo . . . . .	533	Huntington . . . . .	314
Dodge City . . . . .	249	Williston U . . . . .	556	Parkersburg U. . . . .	367
Goodland . . . . .	414	OHIO, Akron-Canton . . . . .	484	WIS. Green Bay . . . . .	579
Topeka . . . . .	269	Cincinnati U. . . . .	321	Madison . . . . .	477
Wichita . . . . .	238	Cleveland . . . . .	493	Milwaukee . . . . .	507
KY. Lexington . . . . .	339	Columbus . . . . .	440	WYO. Casper . . . . .	625
Louisville . . . . .	266	Dayton . . . . .	403	Cheyenne . . . . .	658
LA. Baton Rouge . . . . .	13	Toledo . . . . .	497	Lander . . . . .	624
Lake Charles . . . . .	9	Youngstown . . . . .	468	Sheridan . . . . .	587
New Orleans . . . . .	21				
Shreveport . . . . .	38				

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

### Winter Wheat Crop Off 12 Percent From 1975

The 1976 winter wheat crop, hurt by dry weather that increased acreage abandonment and brought lower yields, is expected to amount to 1,459 million bushels, second only to last year's record breaking harvest of 1,651 million.

The Department of Agriculture's Crop Reporting Board, providing its first national estimate of the wheat crop since last December, said the 12 percent downturn from 1975 was attributed to fewer acres expected to be harvested for grain and yields cut by drought in the Southern Great Plains. Compared with the Board's estimate of the 1976 crop made last December, the current expectation is down 2 percent. Prospective production has increased nearly 4 percent since April 1 in the five drought plagued States of Colorado, Kansas, New Mexico, Oklahoma, and Texas.

Acreage abandonment is reflected in the fact that farmers intend to harvest only 83 percent of the 57.2 million acres planted to the current crop of winter wheat. A year ago 92 percent of the planted acreage was harvested for grain and 90 percent in 1974. An estimated 47.3 million acres of wheat land will be harvested for grain this year, down 8 percent from a year earlier.

The current view is for a national average yield of 30.8 bushels per acre. This is short of the 32 bushel level in 1975, but 1.2 bushels better than the weather reduced 1974 crop.

Generally, yield per harvested acre is expected to be below last year in the Southern Great Plains and along the eastern seaboard, while average yields elsewhere are expected to equal or

exceed last year's. Notable exceptions are lower yields forecast in Indiana, Ohio, Montana, Oregon, and California.

Here are some production crop estimates for several major winter wheat States:

The Kansas crop is pointing toward 302 million bushels against 351 million last year. Yields are off 1 bushel per acre to date and acreage harvested for grain may slip from 12.1 million to 10.8.

This year Washington may be the second ranking wheat producing State with 141 million bushels, up sharply from the 134 million in 1975. Yields match the 1975 level, but there's more acreage for harvest.

The Oklahoma crop may hit only 122 million bushels, against the 161 million of a year ago. Yields, cut by drought, tumbled from 24 to 21 bushels per acre and grain may be harvested from 5.8 million acres, a year ago the total was 6.7 million.

In Montana, wheat farmers are looking for nearly 91 million bushels--last year the harvest meant 105 million. The average yield slumped from 35 to 30 bushels to the acre, with relatively little change in acreage for harvest.

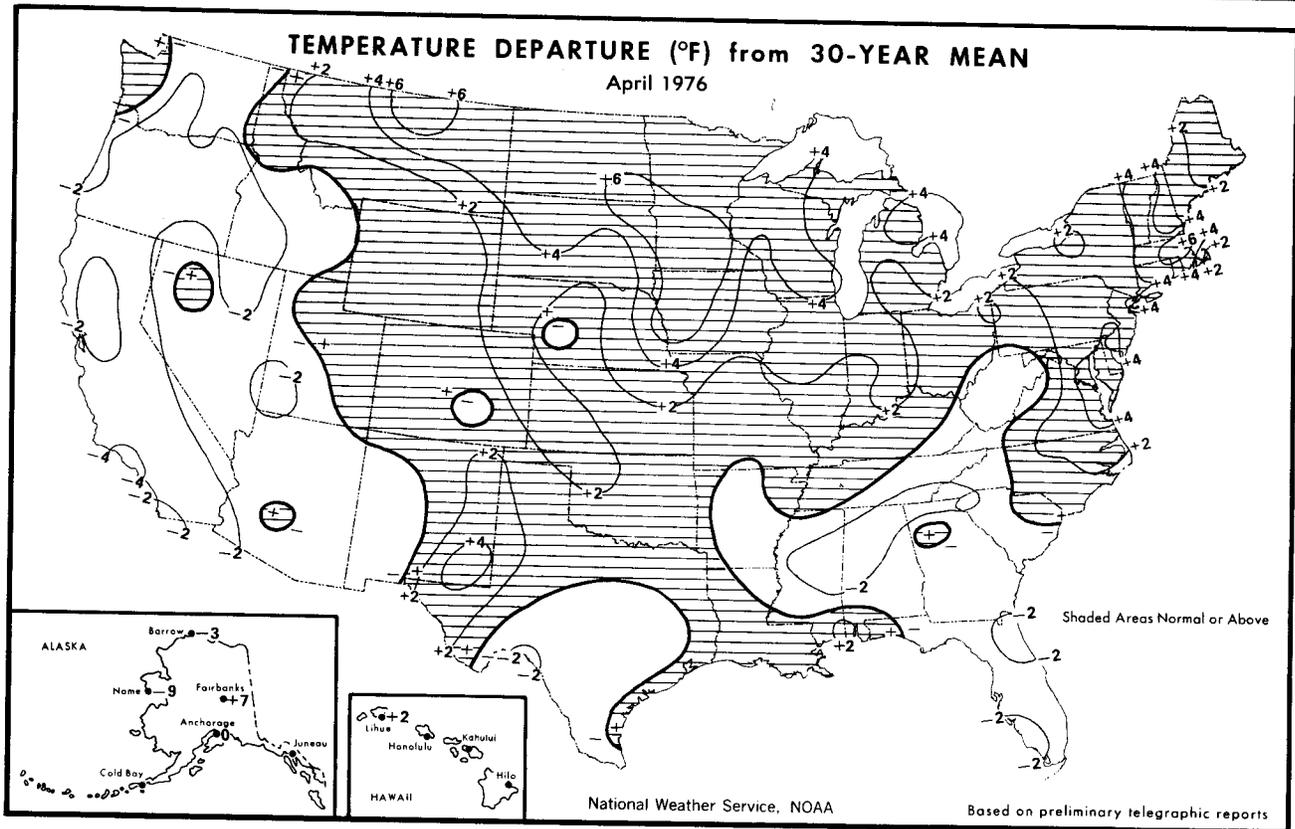
The sharpest production drop among the major wheat States is shaping up in Texas. The crop there may be only 70.2 million bushels, compared with 131 a year ago. The estimated yield, on average, may be 18 bushels, down from the 23 bushels reported in 1975. And harvested land may amount to only 3.9 million acres, which would be a decline of 1.8 million.

#### WATER SUPPLY OUTLOOK FOR THE WESTERN UNITED STATES Issued as of May 1, 1976

The table below shows the runoff forecast in percent of the 15-year (1958-72) average. The forecasts are for the remainder of the water year (October thru September), except for the full water year for the Sacramento and San Joaquin Basins, and April 1 to September 30, 1976, for the Missouri, Yellowstone, and North Platte Basins. The publication "Water Supply Outlook for the Western United States," issued as of May 1, 1976, contains the complete water supply forecasts for about 375 stations in the Western United States.

River	Station	Forecast 1,000 Acre-feet	Percent 15-year average
Columbia	Grand Coulee, WA	65,300	105
Columbia	The Dalles, OR	102,000	111
Snake	Lower Granite, WA	27,200	122
Sacramento	Red Bluff, CA	4,500	50
San Joaquin	Big Creek, CA	500	38
Weber	Gateway, UT	264	113
Jordan	Utah Lake, UT	217	110
Truckee	Lake Tahoe-Farad	60	28
Colorado	Lake Powell infl.	6,667	98
Green	Green River, UT	2,822	105
San Juan	Bluff, UT	890	105
Rio Grande	San Marcial, NM	320	123
Arkansas	Pueblo, CO	265	79
Missouri	Ft. Peck, MT	6,200	131
Yellowstone	Sidney, MT	9,510	136
North Platte	Glendo, WY	820	99

Office of Hydrology  
National Weather Service



### April Weather Summary

**HIGHLIGHTS:** Significant departures from normal temperatures during April were confined mostly to the upper Midwest and upper Plains and the Northeast where averages were up to 8° above normal. Most other areas were near or slightly below normal. California was relatively cool with average temperatures ranging 2 to 4° below normal. Precipitation favored the western Great Plains where it was badly needed. The previously very dry area of western Kansas, Oklahoma and Texas received well over 100% of the normal rainfall. The moisture was very beneficial to winter wheat and provided needed soil moisture for spring planting. Subsoil moisture was also replenished in the western Corn Belt. Parts of the mid-South and much of the East Coast had a very dry April. The seriously dry situation in California was only partially relieved by slightly above normal rain in the northwest and south.

Early in the month a storm developing in the lower Mississippi Valley produced numerous thunderstorms and tornadoes in the mid-South and copious precipitation as it moved northeastward through the Appalachians and off the coast of New England. Temperatures were running above normal before the storm developed but dropped to below normal readings behind the storm as it moved through New England.

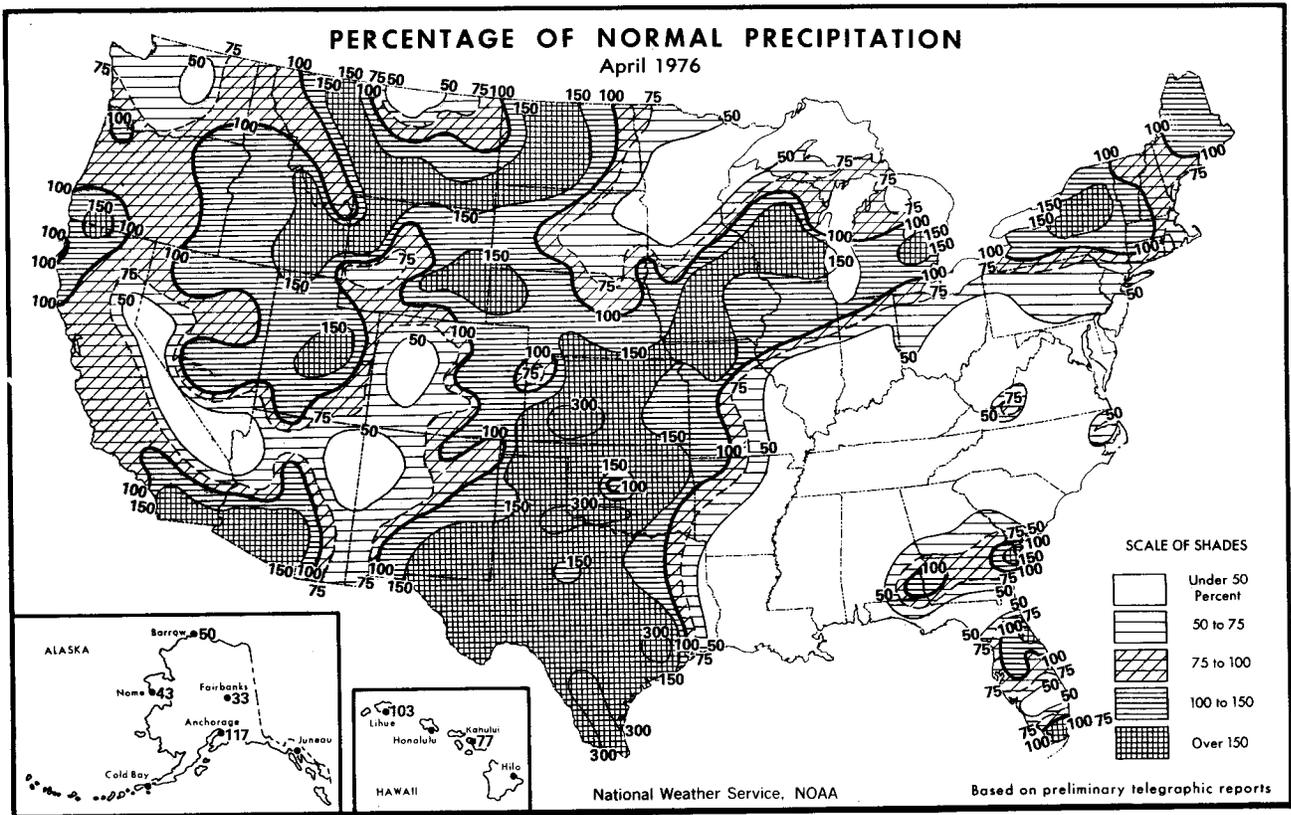
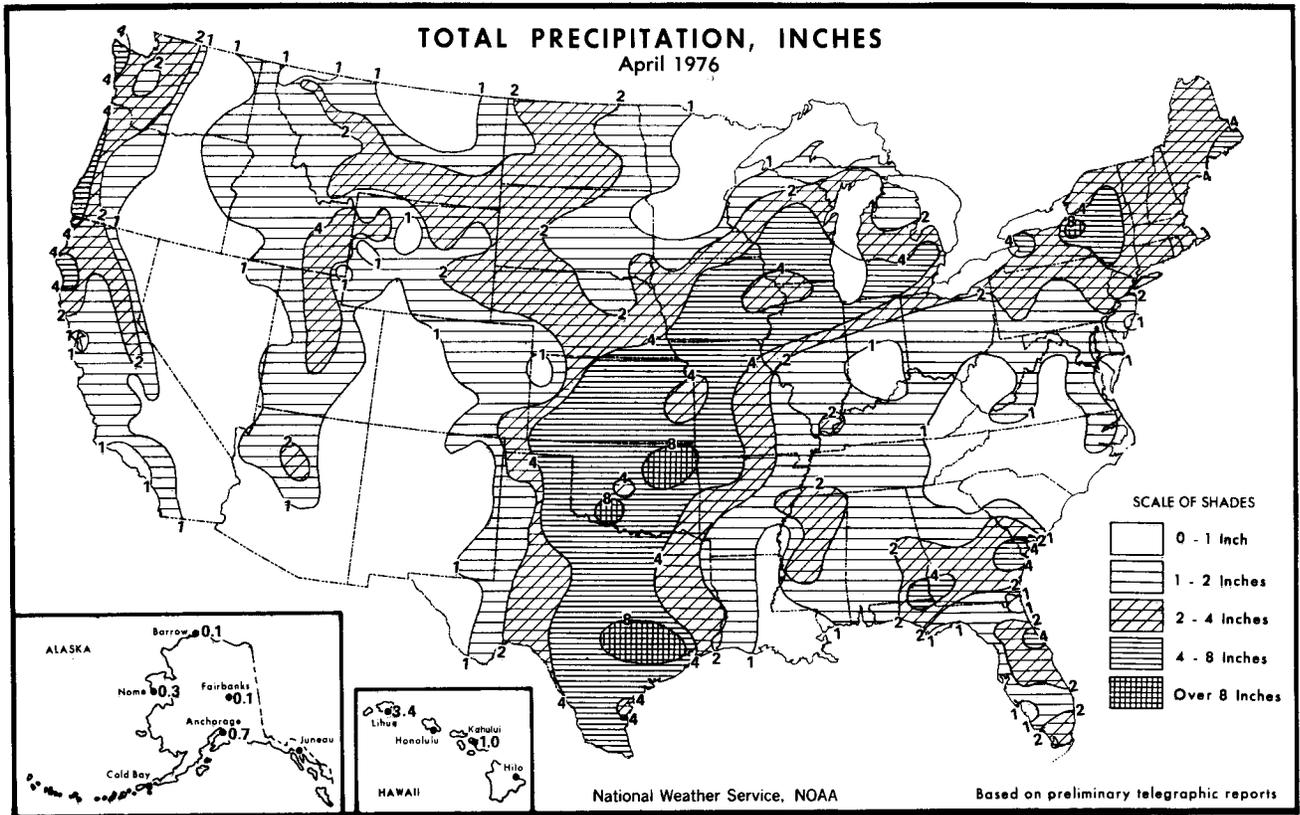
During the next week a high pressure system was centered in the Ohio Valley and kept eastern temperatures as much as 7° below normal and precipitation at a minimum. Most of the area west of the Mississippi River recorded above normal temperatures--up to 9° above in the central Plains and 15° above normal in Montana. California was the temperature exception in the West--the Valley averaged 6° below normal. Most of the week's rain-

fall occurred in Florida, the Great Plains and near the West Coast. The rain in California was most welcome although most of it was confined to the northwest coastal area. Rain in western Nebraska will help replenish the badly depleted soil moisture.

The midweek of the month started cold in the East and then began a record breaking hot spell that accelerated the beginning of spring growth. All areas east of the Continental Divide, except Florida, were warmer than normal and many record breaking high temperatures were recorded. The Great Lakes area was the warmest relative to normal as temperatures averaged up to 15° above normal. Alpena, Mich. had a record high of 86°. West of the Divide the temperatures were in sharp contrast to the East. Along the inter-mountain plateau temperatures ranged 6 to 9° below normal. Precipitation was sparse in the East except for New York where substantial rain fell. Most of the period's rainfall was in the Plains. Much of the area recorded over 2 inches of rain which came mostly from thunderstorm activity. Although some damage from hail and tornadoes was noted, the area generally benefited from the additional moisture.

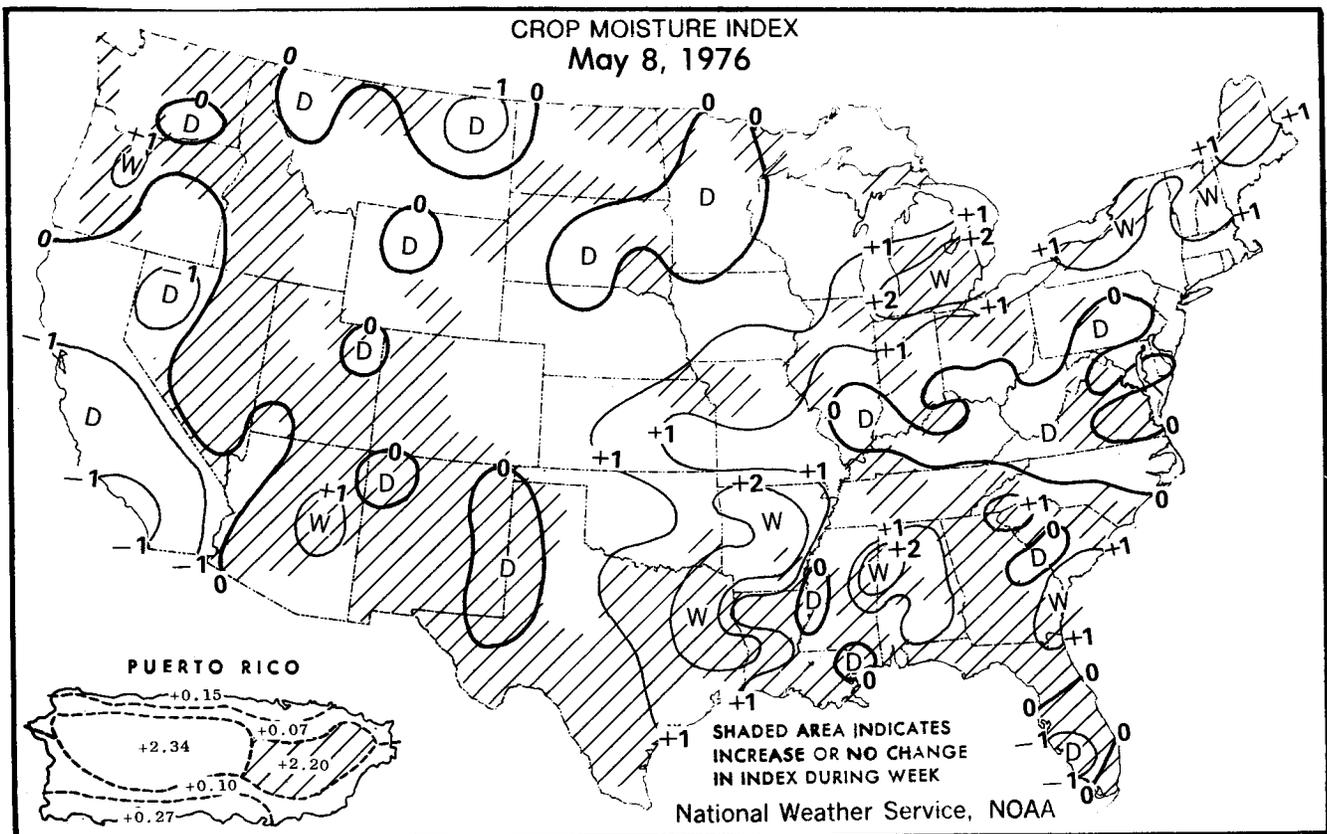
The hot spell in the East ended on April 23rd as thunderstorms preceded a cooler air mass over the area and by the end of the month most of the Nation was again below normal.

During the last week of the month temperatures in a band from west Kansas to West Virginia averaged 9 to 12° below normal. Thunderstorms prevailed from the southern Plains through the Great Lakes and by the end of the month was moving through the East where much needed rain was added to the very dry topsoil. Some stations along the mid-Atlantic Coast reported little or no rain.



Temperature and Precipitation Data for April 1976

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA.Birmingham . . .	61	-2	2.0	-2.6	La.Baton Rouge . . .	68	0	.4	-4.7	Youngstown . . .	50	+2	1.6	-2.1
Mobile . . .	70	+2	1.7	-3.9	Lake Charles . . .	69	0	1.2	-3.1	OKLA.Okla. City . . .	62	+2	2.9	-1.6
Montgomery . . .	64	-1	1.7	-2.8	New Orleans . . .	69	0	.3	-3.9	Tulsa . . .	62	+1	8.3	+4.1
ALASKA.Anchorage . . .	35	0	.7	+ .1	Shreveport . . .	67	+1	1.8	-3.4	OREG.Astoria . . .	49	+1	3.6	-1.0
Barrow . . .	4	-3	.1	- .1	MAINE.Caribou . . .	38	+1	3.3	+ .9	Burns . . .	42	-2	.6	- .1
Fairbanks . . .	36	+7	.1	- .2	Portland . . .	45	+2	2.4	- .9	Medford . . .	48	-3	1.7	+ .7
Juneau . . .	---	---	---	---	MD.Baltimore . . .	57	+3	1.3	-1.8	Pendleton . . .	50	-1	1.1	+ .1
Kodiak . . .	---	---	---	---	MASS.Boston . . .	55	+6	2.0	-1.5	Portland . . .	50	-1	2.3	+ .1
Nome . . .	10	-9	.3	- .4	Chatham . . .	48	+1	2.1	-1.5	Salem . . .	47	-3	2.0	- .3
ARIZ.Flagstaff . . .	41	-1	3.1	+1.8	MICH.Alpena . . .	45	+5	1.3	-1.1	PA.Allentown . . .	52	+2	2.2	-1.6
Phoenix . . .	69	+1	.7	+ .4	Detroit . . .	50	+2	3.2	0	Erie . . .	46	+1	2.7	- .9
Tucson . . .	65	-1	.6	+ .2	Flint . . .	48	+2	5.6	+2.7	Harrisburg . . .	55	+2	1.6	-1.4
Winslow . . .	53	-1	.2	- .2	Grand Rapids . . .	48	+1	4.8	+1.4	Philadelphia . . .	57	+4	2.1	-1.2
Yuma . . .	68	-3	.4	+ .3	Houghton Lake . . .	46	+4	1.9	- .5	Pittsburgh . . .	51	+1	1.2	-2.2
ARK.Fort Smith . . .	62	0	3.8	- .9	Lansing . . .	48	+1	3.6	+ .7	Scranton . . .	51	+2	2.3	-1.1
Little Rock . . .	61	-1	1.9	-3.4	Marquette . . .	43	+3	1.8	- .8	R.I. Providence . . .	53	+6	2.0	-1.7
CALIF.Bakersfield . . .	61	-2	.8	- .1	Muskegon . . .	47	+2	2.1	0	S.C.Charleston . . .	64	-1	.6	-2.4
Eureka . . .	48	-2	2.8	- .2	S. Ste. Marie . . .	40	+2	1.9	-1.9	Columbia . . .	64	0	.8	-2.7
Fresno . . .	57	-3	.9	- .3	MINN.Duluth . . .	43	+4	.7	-1.9	Greenville . . .	59	-2	.7	-3.6
Los Angeles . . .	58	-4	.8	- .5	Internatl Falls . . .	43	+5	.9	- .8	S.D.Aberdeen . . .	50	+6	1.3	- .7
Red Bluff . . .	56	-4	1.7	- .1	Minneapolis . . .	52	+7	.8	-1.2	Huron . . .	48	+2	1.1	- .9
San Diego . . .	61	0	1.3	+ .5	Rochester . . .	50	+5	2.8	+ .4	Rapid City . . .	47	+2	2.7	+ .6
San Francisco . . .	53	-2	.9	- .7	St. Cloud . . .	48	+5	.9	-1.4	Sioux Falls . . .	51	+5	2.2	- .1
Stockton . . .	54	-5	1.1	- .3	MISS.Jackson . . .	65	-1	2.1	-2.6	TENN.Chattanooga . . .	59	-2	1.0	-3.4
COLO.Denver . . .	49	+1	1.3	- .6	Meridian . . .	63	-2	1.0	-4.1	Knoxville . . .	59	-1	.4	-3.2
Grand Junction . . .	52	0	.4	- .4	MO.Columbia . . .	55	0	2.2	-1.6	Memphis . . .	64	+1	2.4	-3.0
Pueblo . . .	51	-1	.9	- .4	Kansas City . . .	56	+1	3.3	-2.2	Nashville . . .	60	0	1.5	-2.6
CONN.Bridgeport . . .	51	+3	2.4	-1.0	St. Louis . . .	57	0	1.4	-2.5	TEX.Abilene . . .	65	0	3.7	+1.2
Hartford . . .	53	+5	3.9	+ .1	Springfield . . .	57	0	5.4	+1.1	Amarillo . . .	57	0	1.7	+ .5
D.C.Washington . . .	60	+4	1.2	-1.7	MONT.Billings . . .	46	+1	3.5	+1.9	Austin . . .	68	-1	8.1	+4.6
FLA.Apalachicola . . .	67	-1	.4	-3.2	Glasgow . . .	48	+5	.6	- .1	Beaumont . . .	69	0	1.9	-2.3
Daytona Beach . . .	68	-2	4.3	+1.9	Great Falls . . .	46	+3	2.3	+1.1	Brownsville . . .	74	-1	5.7	+4.4
Ft. Myers . . .	71	-2	.9	-1.1	Havre . . .	49	+6	.4	- .6	Corpus Christi . . .	74	+1	3.7	+1.5
Jacksonville . . .	65	-3	.6	-2.5	Helena . . .	43	0	1.3	+ .4	Dallas . . .	---	---	---	---
Key West . . .	76	-2	4.8	+2.6	Kalispell . . .	45	+3	1.0	0	Del Rio . . .	70	-2	2.5	+ .9
Lakeland . . .	72	0	3.3	+ .7	Miles City . . .	49	+4	1.4	+ .1	El Paso . . .	64	0	.3	+ .1
Miami . . .	75	0	4.2	+ .6	Missoula . . .	46	+2	.9	- .1	Fort Worth . . .	65	0	5.7	+1.4
Orlando . . .	71	0	2.2	- .5	NEBR.Grand Island . . .	53	+3	2.8	+ .3	Galveston . . .	70	+1	2.5	- .1
Tallahassee . . .	67	-1	1.7	-2.4	Lincoln . . .	54	+3	3.6	+1.1	Houston . . .	68	-1	10.9	+7.4
Tampa . . .	71	-1	1.8	- .3	Norfolk . . .	53	+4	1.8	- .4	Lubbock . . .	62	+2	1.8	+ .7
W.Palm Beach . . .	73	-1	1.3	-2.2	N.Platte . . .	47	-1	2.8	+ .9	Midland . . .	65	+1	2.0	+1.1
GA.Atlanta . . .	62	+1	1.5	-3.1	Omaha . . .	57	+7	3.0	+ .2	San Angelo . . .	66	-1	3.4	+1.7
Augusta . . .	63	-1	2.0	-1.4	Valentine . . .	49	+3	2.0	+ .2	San Antonio . . .	69	-1	5.7	+3.2
Macon . . .	65	-1	1.9	-1.7	NEV.Fly . . .	40	-1	.8	- .2	Victoria . . .	71	0	5.9	+3.2
Savannah . . .	65	-1	5.6	+2.7	Las Vegas . . .	63	-1	1.1	- .2	Waco . . .	66	-1	6.5	+2.5
HAWAII.Hilo . . .	---	---	---	---	Reno . . .	45	-2	.2	- .3	Wichita Falls . . .	64	0	5.4	+2.2
Honolulu . . .	---	---	---	---	Winnemucca . . .	46	+1	.8	+ .1	UTAH.Blanding . . .	47	0	.8	- .1
Kahului . . .	74	0	1.0	- .3	N.H.Concord . . .	47	+3	2.4	- .5	Salt Lake City . . .	49	0	2.5	+ .4
Lihue . . .	75	+2	3.4	+ .1	N.J.Atlantic City . . .	52	0	.8	-2.6	VT.Burlington . . .	47	+4	2.5	- .1
IDAHO.Boise . . .	47	-2	1.6	+ .5	Trenton . . .	55	+3	1.2	-2.0	VA.Lynchburg . . .	58	+1	.3	-2.4
Lewiston . . .	50	0	1.3	+ .2	N.MEX.Albuquerque . . .	55	-1	.3	- .2	Norfolk . . .	62	+4	1.0	-1.7
Pocatello . . .	44	-1	2.8	+1.7	Roswell . . .	64	+4	.8	+ .3	Richmond . . .	61	+3	1.1	-1.7
ILL.Cairo . . .	61	+1	1.2	-3.2	N.Y.Albany . . .	50	+3	3.6	+ .9	Roanoke . . .	57	+1	2.3	- .5
Chicago . . .	53	+3	4.8	+1.0	Binghamton . . .	47	+2	2.7	- .5	WASH.Colville . . .	46	-1	.8	- .2
Moline . . .	53	+2	4.2	+ .4	Buffalo . . .	47	+2	4.0	+ .8	Omak . . .	48	-1	.4	- .6
Peoria . . .	54	+3	4.9	+ .5	New York . . .	56	+4	2.5	-1.1	Quillayute . . .	47	+1	4.3	-3.9
Rockford . . .	50	+2	3.6	- .9	Rochester . . .	49	+3	3.8	+1.1	Seattle-Tacoma . . .	50	+1	1.7	- .8
Springfield . . .	55	+2	1.1	-3.0	Syracuse . . .	48	+1	8.1	+5.0	Spokane . . .	45	-1	1.0	- .1
IND.Evansville . . .	57	0	1.3	-2.8	N.C.Asheville . . .	55	-1	.3	-3.2	Walla Walla . . .	51	-2	1.4	0
Ft. Wayne . . .	52	+3	2.0	-1.6	Charlotte . . .	60	-1	.3	-3.1	Yakima . . .	48	-2	.3	- .2
Indianapolis . . .	53	+1	1.0	-2.9	Greensboro . . .	61	+2	.6	-2.2	W.Va.Beckley . . .	52	0	.3	-3.0
South Bend . . .	53	+5	5.2	+1.2	Hatteras . . .	60	+1	.6	-2.5	Charleston . . .	55	-1	.5	-2.8
IOWA.Burlington . . .	53	+2	4.3	+ .5	Raleigh . . .	61	+1	.2	-2.9	Huntington . . .	56	0	.7	-2.6
Des Moines . . .	55	+5	7.8	+4.9	Wilmington . . .	64	+1	.9	-2.0	Parkersburg . . .	54	-1	1.0	-2.5
Dubuque . . .	50	+2	3.7	- .5	N.DAK.Bismarck . . .	47	+4	2.8	+1.4	WIS.Green Bay . . .	46	+2	2.4	- .3
Sioux City . . .	53	+4	2.2	0	Fargo . . .	47	+5	1.2	- .9	La Crosse . . .	50	+2	4.4	+1.8
KANS.Concordia . . .	55	+2	4.4	+2.1	Williston . . .	46	+4	1.1	- .1	Madison . . .	49	+4	4.8	+2.1
Dodge City . . .	57	+3	6.3	+4.6	OHIO.Akron-Canton . . .	49	0	1.6	-1.7	Milwaukee . . .	49	+4	5.0	+2.2
Goodland . . .	51	+2	.9	- .5	Cincinnati . . .	56	+2	1.2	-2.4	WYO.Casper . . .	44	+1	1.5	0
Topeka . . .	57	+2	4.9	+1.3	Cleveland . . .	49	+1	2.2	-1.3	Cheyenne . . .	43	0	1.8	+ .2
Wichita . . .	58	+1	5.6	+2.6	Columbus . . .	51	0	1.4	-2.3	Lander . . .	44	+1	1.2	-1.2
KY.Lexington . . .	55	0	1.2	-2.7	Dayton . . .	52	+1	1.7	-1.6	Sheridan . . .	45	+1	2.2	+ .1
Louisville . . .	58	+2	.8	-3.3	Toledo . . .	49	+1	2.8	- .2	P.R.San Juan . . .	78	0	3.9	+ .5



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 AREA: INDEX INCREASED OR DID NOT CHANGE**

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



**FIRST CLASS MAIL**

**PLANTING PROGRESS**

PERCENT OF ACREAGE PLANTED  
 (as of May 9)

	corn		
	1976	1975	Avg.
Ga.	94	83	86
Ill.	69	48	33
Ind.	65	25	20
Iowa	65	27	36
Kans.	40	25	40
Ky.	75	34	39
Mich.	17	3	15
Minn.	75	6	30
Mo.	70	41	41
Neb.	30	30	20
N. C.	86	79	72
Ohio	70	35	40
S. Dak.	22	11	23
Wis.	20	7	10
U. S.	60	33	35

These 14 States produced 89%  
 of the Nation's corn in 1975.

	cotton		
	1976	1975	Avg.
Ala.	89	66	74
Ark.	72	32	38
Ga.	86	68	75
La.	69	13	49
Miss.	78	22	55
Mo.	82	50	43
N. C.	80	68	69
Okla.	0	0	0
S. C.	84	66	75
Tenn.	80	45	50
Tex.	28	33	21
11-States	51	34	36

These 11 States produced 68%  
 of the Nation's cotton in 1975.

	wheat		
	1976	1975	Avg
Ida.	45	40	30
Minn.	95	17	49
Mont.	70	5	60
N. Dak.	74	7	43
S. Dak.	99	48	86
5-States	80	16	52

These 5 States produced 95%  
 of the Nation's Spring Wheat  
 (other than Durum) in 1975.