

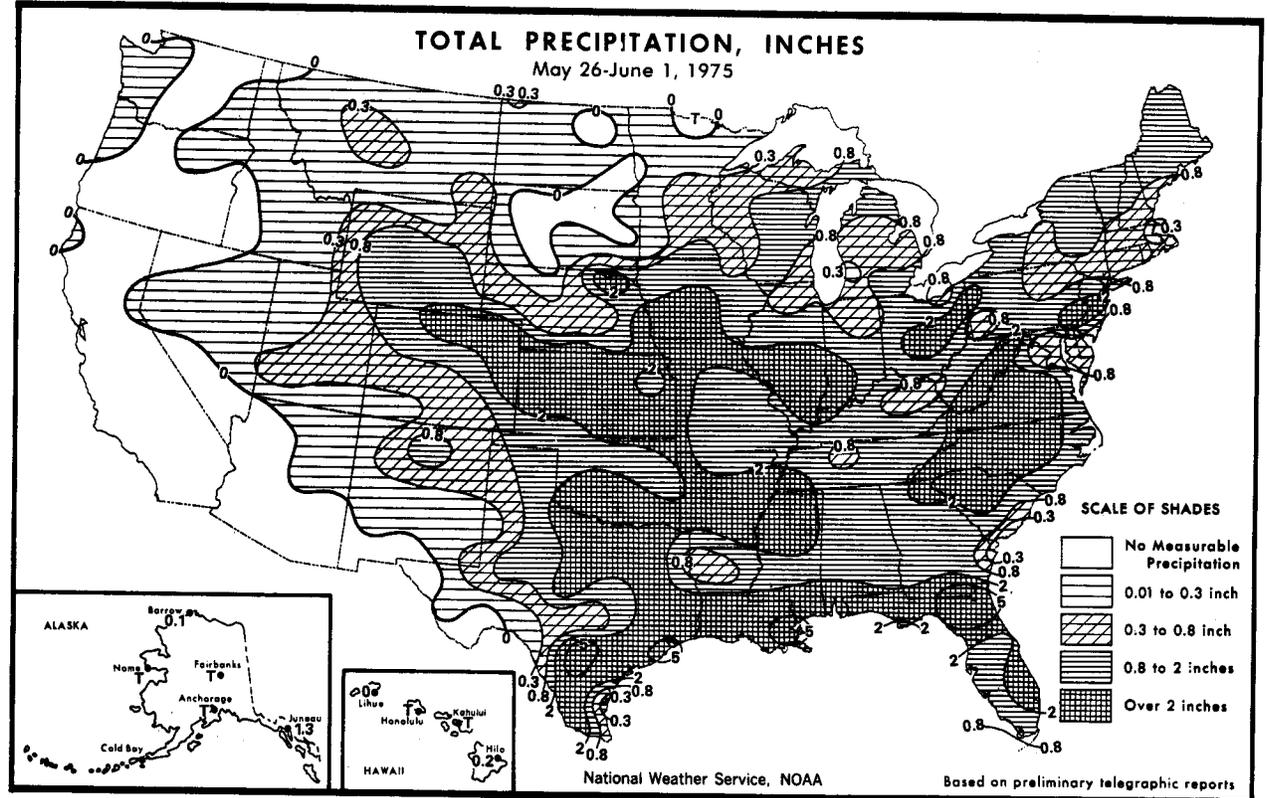
# Weekly Weather & Crop Bulletin

U. S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration

U. S. DEPARTMENT OF AGRICULTURE  
Statistical Reporting Service

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### NATIONAL WEATHER SUMMARY

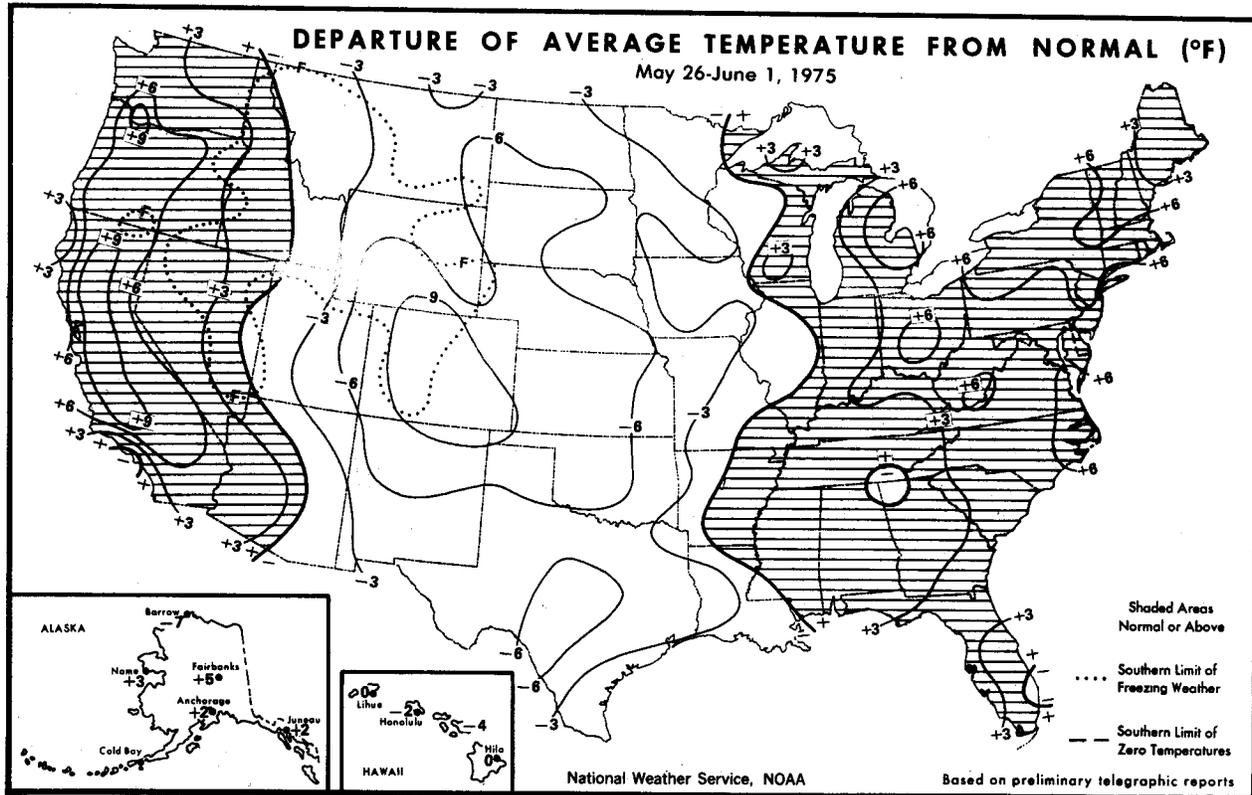
For the Week of May 26 - June 1

**HIGHLIGHTS:** From the east central Rockies, the Southern and Central Plains to the Atlantic Coast an inch or more of rain fell during the week. Two inches or better fell on much of the Central and Southern Plains, the Gulf Coast, the central Appalachians and the east central Piedmont area. Temperatures were below normal in the Rockies and Plains and above normal east of the Mississippi and the Far west.

**PRECIPITATION:** Monday, Memorial Day, was rather wet for much of the Nation from Texas to the Great Lakes and eastward. Lines of severe thunderstorms produced locally heavy rain, hail and high wind. Most activity stretched from north central Texas through Arkansas and Tennessee and the northern part of the mid-South. More widely scattered showers and thunderstorms occurred in other parts of the East.

By Tuesday, the cooler air had moved to central New England and south to Delaware, into Tennessee, central Oklahoma and through central Texas. Another cool outbreak was moving off the High Plains. Rain fell ahead of the front in New England with showers lingering behind. Showers and occasional thunderstorms occurred in the east Central States. Elsewhere showers and some severe weather was reported in the Central Plains. Later, thunderstorms developed in north central Texas, Oklahoma, Arkansas and Louisiana. Light rain fell in the Rocky Mountains.

In the early morning, Wednesday, flash floods resulted from locally heavy rains in Missouri. Later, thunderstorms pummeled both ends of the Gulf Coast and continued from Minnesota to Wisconsin to Colorado and Nebraska south through Texas and Louisiana. More storms developed over the Florida Peninsula. A few showers remained in the northern Rock-



ies with more in the southern Plateau. Severe storms spawned seven late afternoon and evening tornadoes in the Texas Panhandle.

On Thursday the next cool outbreak had moved into the High Plains. Warm moist air from the Gulf of Mexico was moving north and lifting over the previous cooler air along a line from Oklahoma to North Carolina. As marble sized hail fell in Wichita Falls, Tex., snow was falling in Denver, Colorado, floods were occurring in the Southern Plains and fire danger was climbing in the dry rangeland of the Northern Plains. The snow in Denver covered only a small area but was the heaviest so late in the season, with four inches reported. Thunderstorms continued in the eastern half of the Nation, excluding the eastern Great Lakes and New England. Lines of severe weather moved eastward from northwest and eastern Texas into Kansas, Arkansas and Louisiana.

The cool air moved eastward to the Michigan area Friday but held back in the South to northwest Missouri and through central Texas. Rain and thunderstorms occurred along the Atlantic and Gulf Coast States and from the middle Mississippi Valley to the Great Lakes. Golf ball sized hail fell at Quincy, Illinois and near St. Louis, Missouri. A twister was reported near Champaign, Illinois. Severe weather occurred all along the Texas Coastal Plain and in southern Louisiana.

The cool air, now reinforced by southward flow from Canada, moved eastward on Saturday into New England and western New York and to southeastern Louisiana. Precipitation was generally confined to the area along the front and eastward to the coast. However, late in the day, severe weather broke out along a trough of low pressure in the Central and Northern Plains. Hail, the size of ping pong balls fell near the town of Hunter in

north central Kansas along a path up to four miles wide. Much of the wheat in the area was destroyed. A tornado was sighted in south central Nebraska. Elsewhere, thunderstorms with hail occurred in Ohio and a tornado hit near Chattanooga, Tennessee. Heavy rain fell in many areas of the East.

By the end of the week, Sunday, the front had moved off the coast of New England and lay near stationary from North Carolina through Alabama. Another front was moving onshore in the Pacific Northwest. The trough of low pressure continued to produce scattered showers and thundershowers in the Plains and the midwest. Most activity was in the East and associated with the front moving off shore. Some heavy rain fell in the Southeast. Elsewhere an area of thunderstorms developed over Oregon and northern California.

**TEMPERATURE:** The cool air moved eastward and by the end of the week had engulfed most of the United States except the Far West. On Monday temperatures were quite warm west of the Rockies with many readings in the 80's and 90's. In the East temperatures rose to the 60's and 70's in the northern part and 80's and a few 90's in the Southeast.

By midweek 80's and 90's reached into Virginia. The eastern Rockies and the North and Central Plains were cooler than normal. On Thursday morning Colorado Springs set a record low with a report of 34°. The West Coast, except for the shore area, was quite warm. Some stations in the Southwest broke the 100° mark.

The cool air moving eastward caused some record low temperatures on Sunday in the Southern Plains. Records were set at Amarillo, Tex. 44°, Wichita, Kan. 44°, Austin, Tex. 58° and others in Texas.

## NATIONAL AGRICULTURAL SUMMARY

For the week of May 26-June 1

**HIGHLIGHTS:** Row crop planting and development made good progress although slowed by rainfall later in the week. By June 1st, the corn crop was 96% planted, ahead of both 1974's 83% and the average 89%. Cotton was 83% finished and soybean planting had advanced rapidly to 67%. Warm weather in the East aided development of winter wheat and small grains. Winter wheat harvest was delayed in the Southern Plain States by wet conditions.

**SMALL GRAINS:** Above normal temperatures and rainfall over the eastern half of the Nation aided small grain growth. Subnormal temperatures continued to limit progress in the Plain States and West.

Wheat, oats, and barley harvest proceeded rapidly in Texas until heavy rains accompanied by high winds stopped it in midweek. Lodging of small grains yet to be harvested is now common. Harvest in Oklahoma was delayed by wet fields where 80% of the wheat is in the dough stage. Although rains should help fill wheat heads, some losses occurred southwest and central Oklahoma from flooding. Winter wheat development was aided by rain in western and north central Kansas with 95% of the crop headed.

Winter wheat in Indiana was 85% headed; in Ohio 75%; and in Illinois 95% with 60% filling. In Nebraska, wheat was in fair to good condition with 50% headed.

Spring wheat seeding in the five major States was 90% complete, ahead of 1974's 83% but slightly below the average 93%. Seeding is now finished in Minnesota and South Dakota.

**CORN:** Near normal temperatures and rainfall totaling 0.5 to 3.0 in. over most of the Corn Belt boosted growth and development of early planted corn. By June 1st, 96% of the United States' corn acreage was in the ground, ahead of the 83% of 1974 and the usual 89%.

Corn planting in the North Central States was 97% finished, well ahead of the slow 1974 pace of 81% and the normal 89%. Planting was complete in Iowa with 87% emerged. In Illinois, the crop was virtually all planted and emerged corn was in excellent condition. All States in the region were ahead of last year's progress and average except Nebraska which equaled the normal pace.

The South Atlantic States' planting progress at 95% equals the norm but is slightly below the 97% of 1974. Planting in the South Central States is ahead of average and last year.

**COTTON:** Cotton planting advanced in all areas except Oklahoma and Texas where wet fields delayed progress. Planting in the 11 major Southern States was 83% completed by June 1st, trailing the 87% of 1974 and the 88% normal. Planting in Texas reached 79% finished the same as 1974 but below the 82% average. Oklahoma at 31% continues to lag

behind the 1974 pace of 80% and average 58%. A number of fields in the High and Low plains of Texas and Oklahoma will need replanting due to standing water. Elsewhere in the South, cotton planting is nearing completion, except in Louisiana which is 75% done.

In the West, cotton planting was virtually completed. Cotton is 75% emerged in New Mexico compared to 90% last year. In Arizona growth increased although the crop is 2-4 weeks later than normal. The California crop grew well and thinning was active.

**SOYBEANS:** Farmers in the Midwest and Southeast with virtually all the corn planted are now making rapid gains with soybeans. The U. S. crop as of June 1st was two-thirds in the ground, ahead of both the 1974 schedule of 42% and the usual 53%. North central States have planted 80% of this year's acreage while in the Southern States only 41% was completed. In Illinois, the Nation's leading soybean producing State, 87% is in, compared to the slow pace of 16% in 1974. Indiana's crop, 65% emerged, shows good stands. In Iowa 50% of the beans have emerged.

**OTHER CROPS:** Rains and wet fields held back sorghum planting in the Southwest. Two-thirds of the crop is now planted in the 7 major States compared to 64% last year and 60% normal. Flue-cured tobacco in North Carolina is 94% set, while burley is 60% transplanted. Despite showers in Kentucky burley tobacco is now one-fourth set.

Potato planting is 25% finished in Maine; and 69% in Idaho, compared to 90% in 1974.

**FRUITS AND NUTS:** Above normal temperatures in the East and California hastened fruit growth and maturity. Good to heavy sets are evident with most tree fruits. Recent rains in Florida improved citrus tree conditions as new crop fruit drop abated.

Valencia orange, grapefruit, and lemon harvests continued active in California. Early harvest of peaches in the southeast increased.

**VEGETABLES:** Vegetable planting continued at a swift pace in the northern growing areas. Harvest of lettuce was active in New Jersey. Asparagus was 70% harvested in Maryland. Florida vegetables continued ample although supplies declined. The California harvest was active on broccoli, cauliflower, celery, lettuce, and tomatoes in Imperial Valley.

**PASTURES AND LIVESTOCK:** Warmer temperatures and rainfall in the eastern half of the Nation and the Southwest improved pastures. Cooler weather in the Mountain States, however, slowed grass development. Cattle and sheep movement to higher elevation summer ranges continues. Livestock are in good condition and making expected gains.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., June 1, 1975

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 . . .	75	+ 1	1.0	+ .2	La. Baton Rouge . . .	75	- 2	2.9	+2.0	Youngstown . . .	66	+ 4	3.0	+2.2
Mobile . . .	79	+ 1	2.6	+ 1.3	Lake Charles . . .	76	- 2	4.6	+3.5	OKLA. Okla. City . . .	66	- 6	2.1	+ .9
Montgomery . . .	76	+ 1	1.2	+ .4	New Orleans . . .	76	- 2	5.3	+4.3	Tulsa . . .	68	- 4	1.4	+ .2
ALASKA. Anchorage . . .	52	+ 2	T	- .1	Shreveport . . .	73	- 3	.6	+ .4	OREG. Astoria . . .	58	+ 4	T	- .6
Barrow . . .	19	- 7	.1	- 0	MAINE. Caribou . . .	56	+ 1	.8	+ .1	Burns . . .	59	+ 4	T	- .3
Fairbanks . . .	59	+ 5	T	- .2	Portland . . .	60	+ 3	.8	- 0	Medford . . .	68	+ 8	0	- .3
Juneau . . .	52	+ 2	1.3	+ .6	MD. Baltimore . . .	72	+ 4	.4	- .4	Pendleton . . .	67	+ 6	.1	- .2
Kodiak . . .	---	---	---	---	MASS. Boston . . .	69	+ 6	.2	- .6	Portland . . .	67	+ 8	T	- .4
Nome . . .	43	+ 3	T	- .1	Chatham . . .	62	---	.3	---	Salem . . .	63	+ 5	T	- .4
ARIZ. Flagstaff . . .	54	+ 1	T	- .1	MICH. Alpena . . .	61	+ 6	1.6	+1.0	PA. Allentown . . .	69	+ 5	1.7	+ .9
Phoenix . . .	84	+ 4	0	0	Detroit . . .	67	+ 4	1.8	+1.0	Erie . . .	65	+ 6	1.1	+ .3
Tucson . . .	75	- 2	0	0	Flint . . .	66	+ 6	.6	- .1	Harrisburg . . .	70	+ 3	1.0	+ .2
Winslow . . .	65	- 2	.2	+ .2	Grand Rapids . . .	64	+ 2	.2	- .5	Philadelphia . . .	72	+ 5	2.3	+1.5
Yuma . . .	84	+ 3	0	0	Houghton Lake . . .	61	+ 4	.6	- .1	Pittsburgh . . .	67	+ 3	.5	- .3
ARK. Fort Smith . . .	69	- 4	1.5	+ .3	Lansing . . .	65	+ 4	1.1	+ .2	Scranton . . .	68	+ 5	.6	- .2
Little Rock . . .	75	+ 1	2.8	+1.7	Marquette . . .	54	0	.5	- .2	R.I. Providence . . .	68	+ 7	.6	- .1
CALIF. Bakersfield . . .	84	+11	0	0	Muskegon . . .	62	+ 2	.7	+ .1	S.C. Charleston . . .	80	+ 5	.2	- .9
Eureka . . .	54	0	T	- .4	S. Ste. Marie . . .	55	+ 2	1.2	+ .4	Columbia . . .	79	+ 4	2.2	+1.4
Fresno . . .	78	+ 8	0	0	MINN. Duluth . . .	54	0	T	- .7	Greenville . . .	74	+ 2	2.8	+2.1
Los Angeles . . .	65	- 1	0	0	Internatl Falls . . .	54	1	T	- .8	S.D. Aberdeen . . .	52	- 8	T	- .7
Red Bluff . . .	81	+10	T	- .1	Minneapolis . . .	59	- 3	.4	- .5	Huron . . .	56	- 5	T	- .8
San Diego . . .	64	0	T	0	Rochester . . .	58	- 3	.8	- .2	Rapid City . . .	52	- 7	T	- .8
San Francisco . . .	65	+ 5	0	0	St. Cloud . . .	57	- 3	.5	- .5	Sioux Falls . . .	59	- 3	T	- .9
Stockton . . .	78	+10	0	0	MISS. Jackson . . .	77	+ 1	1.0	+ .1	TENN. Chattanooga . . .	71	- 1	1.7	+1.0
COLO. Denver . . .	52	- 9	1.6	+1.0	Meridian . . .	78	+ 2	1.9	+1.1	Knoxville . . .	73	+ 1	1.0	+ .2
Grand Junction . . .	59	- 7	.5	+ .4	MO. Columbia . . .	65	- 3	.9	- .2	Memphis . . .	74	0	3.5	+2.6
Pueblo . . .	56	- 9	.4	0	Kansas City . . .	65	- 4	2.7	+1.6	Nashville . . .	74	+ 2	.7	- .2
CONN. Bridgeport . . .	67	+ 4	.7	0	St. Louis . . .	68	- 2	1.0	+ .1	TEX. Abilene . . .	70	- 6	.9	+ .1
Hartford . . .	69	+ 6	.5	- .3	Springfield . . .	67	- 2	.9	- .2	Amarillo . . .	63	- 7	.5	- .1
D.C. Washington . . .	75	+ 5	.5	- .3	MONT. Billings . . .	54	- 4	T	- .6	Austin . . .	73	- 5	.7	- .3
FLA. Apalachicola . . .	80	+ 3	1.0	+ .2	Glasgow . . .	54	- 3	.1	- .4	Beaumont . . .	75	- 3	4.3	+3.2
Daytona Beach . . .	80	+ 3	2.0	+1.0	Great Falls . . .	54	- 2	.3	- .4	Brownsville . . .	80	- 1	.4	- .3
Ft. Myers . . .	82	+ 3	.8	- .6	Havre . . .	54	- 4	T	- .5	Corpus Christi . . .	80	0	.2	- .5
Jacksonville . . .	80	+ 3	5.4	+4.4	Helena . . .	53	- 2	.1	- .4	Del Rio . . .	75	- 6	.1	- .5
Key West . . .	83	+ 1	.5	- .3	Kalispell . . .	53	- 1	T	- .5	El Paso . . .	72	- 4	T	- .1
Lakeland . . .	80	+ 1	1.0	- .1	Miles City . . .	55	- 5	.3	- .3	Fort Worth . . .	73	- 3	2.5	+1.6
Miami . . .	80	+ 1	1.1	- .7	Missoula . . .	54	- 1	.1	- .4	Galveston . . .	78	- 1	7.9	+7.1
Orlando . . .	80	+ 2	1.9	+ .9	NEBR. Grand Island . . .	59	- 6	.7	- .3	Houston . . .	75	- 3	4.0	+2.8
Tallahassee . . .	79	+ 2	4.7	+3.6	Lincoln . . .	59	- 7	1.3	+ .3	Lubbock . . .	68	- 4	.2	- .6
Tampa . . .	84	+ 5	1.4	+ .5	Norfolk . . .	60	- 4	.7	- .3	Midland . . .	72	- 4	.8	- .3
W. Palm Beach . . .	78	- 1	3.0	+1.5	N. Platte . . .	54	- 9	.7	- .1	San Angelo . . .	73	- 5	.7	+ .1
GA. Atlanta . . .	74	+ 2	1.0	+ .2	Omaha . . .	62	- 3	1.5	+ .4	San Antonio . . .	74	- 5	6.9	+6.2
Augusta . . .	77	+ 2	1.6	+ .8	Valentine . . .	56	- 5	T	- .8	Victoria . . .	77	- 2	2.7	+1.8
Macon . . .	78	+ 1	1.4	+ .6	NEV. Ely . . .	53	0	T	- .2	Waco . . .	72	- 6	.9	0
Savannah . . .	80	+ 4	2.2	- .9	Las Vegas . . .	81	+ 4	0	0	Wichita Falls . . .	71	- 5	2.4	+1.4
HAWAII. Hilo . . .	74	0	.2	-1.6	Reno . . .	61	+ 4	T	- .1	UTAH. Blanding . . .	57	- 4	.2	+ .1
Honolulu . . .	76	- 2	T	- .2	Winnemucca . . .	61	+ 4	T	- .2	Salt Lake City . . .	59	- 2	.1	- .2
Kahului . . .	72	- 4	T	- .1	N.H. Concord . . .	65	+ 5	.7	- 0	VT. Burlington . . .	66	+ 6	.9	+ .2
Lihue . . .	76	0	0	- .5	N.J. Atlantic City . . .	70	+ 4	.5	- .3	VA. Lynchburg . . .	72	+ 3	4.6	+3.8
IDAHO. Boise . . .	62	+ 2	T	- .3	Trenton . . .	72	+ 6	2.2	+1.4	Norfolk . . .	76	+ 6	1.4	+ .6
Lewiston . . .	64	+ 3	.2	- .2	N.MEX. Albuquerque . . .	64	- 6	.3	+ .2	Richmond . . .	73	+ 3	2.4	+1.6
Pocatello . . .	56	- 1	T	- .3	Roswell . . .	68	- 5	.1	- .2	Roanoke . . .	71	+ 3	3.4	+2.6
ILL. Cairo . . .	73	0	1.9	+ .7	N.Y. Albany . . .	66	+ 4	.9	+ .2	WASH. Colville . . .	59	+ 1	T	- .4
Chicago . . .	65	0	1.4	+ .6	Binghamton . . .	66	+ 6	.6	- .2	Omak . . .	61	+ 1	0	- .3
Moline . . .	63	- 3	.8	- .1	Buffalo . . .	67	+ 7	1.3	+ .7	Quillayute . . .	57	+ 4	T	- .9
Peoria . . .	65	- 1	1.8	+ .9	New York . . .	71	+ 5	1.5	+ .8	Seattle-Tacoma . . .	62	+ 5	.1	- .3
Rockford . . .	64	+ 1	.3	- .6	Rochester . . .	67	+ 6	1.1	+ .5	Spokane . . .	60	+ 2	T	- .4
Springfield . . .	67	- 1	3.4	+2.6	Syracuse . . .	68	+ 7	.6	- .1	Walla Walla . . .	67	+ 4	.1	- .3
IND. Evansville . . .	70	0	2.2	+1.3	N.C. Asheville . . .	70	+ 3	2.7	+1.9	Yakima . . .	65	+ 4	T	- .1
Ft. Wayne . . .	65	+ 1	.6	- .3	Charlotte . . .	75	+ 3	3.5	+2.8	W. Va. Beckley . . .	62	+ 6	2.4	+1.5
Indianapolis . . .	67	0	1.1	+ .1	Greensboro . . .	75	+ 4	2.7	+1.9	Charleston . . .	71	+ 3	1.5	+ .7
South Bend . . .	65	+ 2	.5	- .2	Hatteras . . .	76	+ 6	.9	0	Huntington . . .	73	+ 5	.5	- .3
IOWA. Burlington . . .	64	- 2	1.1	+ .2	Raleigh . . .	74	+ 3	2.8	+2.0	Parkersburg . . .	71	+ 3	1.8	+1.0
Des Moines . . .	64	- 1	2.1	+1.0	Wilmingon . . .	79	+ 5	1.5	+ .5	WIS. Green Bay . . .	61	+ 2	1.9	+1.2
Dubuque . . .	62	0	1.3	+ .1	N.DAK. Bismarck . . .	53	- 5	T	- .7	La Crosse . . .	60	- 3	.3	- .7
Sioux City . . .	61	- 4	1.8	+ .8	Fargo . . .	56	- 3	T	- .6	Madison . . .	63	+ 3	1.6	+ .7
KANS. Concordia . . .	60	- 7	2.4	+1.3	Williston . . .	53	- 5	T	- .5	Milwaukee . . .	61	+ 2	.4	- .7
Dodge City . . .	61	- 7	1.6	+ .8	OHIO. Akron-Canton . . .	68	+ 5	1.9	+ .9	WYO. Casper . . .	50	- 6	1.1	+ .3
Goodland . . .	55	- 8	3.5	+2.9	Cincinnati . . .	71	+ 4	1.8	+ .9	Cheyenne . . .	47	- 9	2.0	+1.4
Topeka . . .	64	- 5	1.5	+ .4	Cleveland . . .	67	+ 4	.5	- .3	Lander . . .	49	- 7	.9	+ .3
Wichita . . .	62	- 8	3.8	+2.9	Columbus . . .	72	+ 7	2.7	+1.7	Sheridan . . .	52	- 4	.1	- .6
KY. Lexington . . .	71	+ 2	.8	- .2	Dayton . . .	70	+ 4	1.0	+ .1	P.R. San Juan . . .	67	+ 2	.1	-1.4
Louisville . . .	72	+ 3	1.1	+ .1	Toledo . . .	67	+ 3	1.2	+ .4					

Based on 1941-70 Normals CORRECT COLUMBUS, OHIO PRECIPITATION DEPARTURE FOR MAY 25, 1975 TO READ - .6.

Standard copy for the Weekly Weather and Crop Bulletin is prepared by: Dr. Richard E. Felch, Lyle M. Denny, Orus W. Byrd, National Weather Service, NOAA; Larry Dell, Statistical Reporting Service, USDA.

## 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:** Scattered showers and thundershowers over southern areas with accumulations more than 2.00 in. Warmest temperatures early, cooler during weekend. Four days suitable fieldwork. Moisture adequate. Corn 94% planted, 100% 1974 and average 100%. Cotton virtually all planted, same 1974 and average. Peanuts 97% planted, 100% 1974, normal 100%. Soybeans 65% planted, 62% 1974, average 57%. Wheat 93% turning color, 40% harvested. First cutting hay 40% harvested. All crops good condition.

**ALASKA:** Subsoil supply adequate to surplus throughout Railbelt area. Top soil dry throughout the Matanuska Valley to surplus Homer.

Planting of crops was near completion. Potato planting held up by wet ground. Prospects new seed growth good to excellent throughout the Railbelt. Tanana Valley dry. Temperatures near or above normal Mat. Valley with only small amounts of rain reported. Temperatures near to slightly below normal. Kenai Peninsula conditions near normal precipitation. Temperatures still much below normal.

**ARIZONA:** Showers east, northeast midweek. Amounts 0.10 to 0.30 in. Temperatures east 2 to 4° below normal. Elsewhere hot, dry. Temperatures 1 to 4° above normal.

Cotton growth increasing. Stands poor to good. Growth two weeks to month later than normal. Harvest small grains increasing. Safflower good growth. Harvest sugarbeets complete Yuma, full swing Salt River Valley. Early planted grain sorghum good stands. Planting continued. Mixed vegetable harvest Salt River Valley. Lettuce harvest began Cochise county 27th. Chili stands vary, some insect damage. Cantaloup, watermelon, maturity late central west. Peach, apricot picking Salt River valley. First grape harvest expected two weeks. Valencia orange, grapefruit harvest central, west. Ranges, pastures mostly fair. Water supplies normal. Cattle, calves good.

**ARKANSAS:** Average temperatures in 70's, range 1 above to 5° below normal. Extremes: 91 and 46°. Rainfall heaviest midweek. Totals 0.2 to 3.4 in.

Midweek rains hampered fieldwork. Soil moisture adequate to surplus. Fieldwork: 3 days suitable. Cotton planting 98% complete, 97% 1974, 98% average. Rains assured good germination and growth. Applications post-emergence herbicides began. Insecticides applied thrip control few local areas. Rice planting 96% complete, 95% 1974, 96% average. Rice received first flood and growing well. Fields too dry, but after rains planting increased at rapid pace. Soybeans 44% planted, 44% 1974, 49% average. Wheat, oats nearly mature. Harvesting expected begin soon. Rains slowed hay cutting. Fescue harvest almost complete. Pastures providing adequate forage, but heavily stocked. Cattle good condition, gaining weight.

**CALIFORNIA:** Fair, dry weather inland areas with sunny days and warm nights. Night and morning low clouds south coast and at times central and north coasts. Warming trend north and central California with highs central valley near 100° weekend and in 90's low valleys coast range. Highs near 100° southeast interior and generally 60's and 70's immediate coast. Weekly averages near normal south

and north coast and extreme southeast portion and 5 to 10° above central valley and San Francisco Bay region.

Small grain harvest cotton growing well, thinning active. Sugarbeets show good progress. Rice doing well. Alfalfa cut and baled. Corn, milo, safflower good. Warm weather, winds, sunburn, breakage. Early cherries harvest near complete, bings beginning. Thinning clings where necessary. Early nectarines, plums, freestones harvest. Mildew, insect control vineyards, grapes buckshot size. Table grape harvest starting. Olive bloom. Walnuts, almonds developing, some wind damage. Valencia quality improving. Lemons slow, trees laden ripe fruit. Artichoke heavy. Most asparagus to processors. Broccoli, cauliflower good supply. Imperial cantaloup harvest beginning June 6. Carrots tapering Imperial, beginning Salinas. Celery lighter, southern. Lettuce heavy Salinas, Santa Maria. Imperial onion past peak, beginning Kern, Fresno. Potato increasing Kern. Strawberry active, some diversion freezers. Market tomatoes increasing Imperial. Watermelons beginning Imperial. Range feed continues dry central valley. Cattle moved irrigated pastures, mountain pastures. Bee colonies removed citrus groves, strength good. Stock water ample. Milk, egg production seasonal level.

**COLORADO:** Precipitation 1.00 to 5.65 in. east--0.25 to 0.90 in. west. Snowfall 5.6 in. Denver 28-29--record for season. Up to 2 ft. snow East Divide. Temperatures 6-9° below normal. Low's lower elevations 33° Denver, 34° Ft. Collins, Colorado Springs, Trinidad.

General rains eastern plains beneficial. Winter wheat 50% headed, 76% 1974, 60% average. Wheat standing for harvest fair to good condition. Sugarbeets 93% emerged, 19% thinned. Corn 93% seeded, 95% 1974, 92% average. Limited replant necessary areas heavy rainfall. Sorghum 36% planted, 50% 1974, 53% average. Fall potato planting essentially complete. Pinto beans 22% seeded, 43% 1974, 29% average. Emerging row crops good to excellent condition. Alfalfa good. Range and pasture condition improved by recent rains. Additional moisture needed some locales southeast.

**FLORIDA:** Partly cloudy, warm. Scattered thundershowers most areas late week. Temperatures averaged 1 to 2° above normal. Rainfall heaviest southeast and Panhandle. Some totals above 3.00 in. Soil moisture variable, improved south, getting short north, west.

Corn good condition. Tobacco fair condition. Soybean planting active. Peanut planting about complete. Small grain harvest active. Peach harvest continues. Sugarcane good. Pasture fair to excellent, mostly fair. Cattle and calves, fair to good. Citrus tree condition improved, more moisture needed. Some irrigation continuing, new crop fruit drop abated. Orange harvest active. Most crops declining vegetable season nears end, south. Good volume central, north. Watermelon harvest up sharply, north area active. Sweet corn harvest active Zellwood, near end Belle Glade, pepper increasing. Celery, eggplant supplies steady. Snap beans, cabbage, carrots, cucumbers, squash, tomatoes, potatoes declined seasonally. Season mostly over lettuce, escarole, radishes.

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GEORGIA: Temperature 2 to 4° above normal. Rain-fall variable, averaged 0.80 to 1.30 in. west, 0.50 to 1.00 in. east. Greatest 2.63 in. central Georgia. Moderate heavy rain over State 30th, 31st, in south half on 1st.

Prior to general weekend rains, soil moisture variable but mostly adequate. Field work active, 5 days suitable. Haying active. Late plantings continued very active. Most crops show improvement. Cotton good, 2% squaring, weed and insect controls active. Corn good, final cultivation and fertilization central and south. Peanuts good, showed improvement. Weed, disease and insect control very active, 2% blooming. Soybeans good, 54% planted, 1974 62%, average 58%. Very active sorghum plantings, 43% complete, equal 1974 and average. Tobacco unchanged at fair to good, limited harvest began. Peaches fair to good, condition declining, harvest increasing, 18% picked, last year 1%, average 4%. Watermelons fair to good and improving, some disease problems. Vegetables, fair to good, late but improving. Pastures off slightly, still good. Cattle and hogs good, face flies cattle increasing problem.

HAWAII: Warm and dry most sections. Continued rains Kona slowing crop progress. Melon production Oahu increasing. Vegetable supplies adequate. Banana supplies light. Papaya production increasing seasonally. Pastures fair to good. Some areas getting dry. Pineapple harvest getting active. Sugar harvest active.

IDAHO: Temperatures cool. Gradual warming with temperatures nearing normal or slightly above by week's end. East below normal by 6 to 10°. Elsewhere departures not so great. Light precipitation early and midweek. Amounts below normal. Orofino with 0.27 in. received the highest amount. Favorable weather fieldwork. Planting final stages grain crops. Higher elevations still wet. Winter wheat condition fair to good. 92% spring wheat planted, 97% 1974. 84% spring barley planted, 97% 1974. Potatoes 69% planted, 90% 1974. Pasture grasses making good growth but behind normal. Livestock moving range pastures.

ILLINOIS: Temperatures averaged 1° above normal to 2° below normal. Precipitation 0.33 in. to 3.33 in. Fieldwork: 3.5 days suitable. Corn good to excellent condition. Crop virtually all planted, 72% 1974, average 82%. Soybean planting 87% complete, 16% 1974, average 45%. Planting most advanced central and east, slowest extreme south. Winter wheat good to excellent, 95% heading, 100% 1974, average 96%; 60% filling, 86% 1974, average 72%. Oats fair to good, 25% heading, 38% 1974, average 27%; 5% filling. Hay crops good to excellent. First crop alfalfa 29% cut, 13% 1974, average 19%. Red clover hay 35% cut, 8% 1974, average 19%. Red clover hay 35% cut, 8% 1974, average 14%. Sorghum planting 45% complete. Pastures good to excellent. Soil moisture 6% short, 69% adequate, 25% surplus.

INDIANA: Cool and sunny early, mostly cloudy and showery thereafter. Humidities, air and soil temperatures above normal. Precipitation 1.00 to 1.50 in. except little less east central. Fieldwork averaged 4 days. Topsoil and subsoil moisture adequate. Corn 95% planted, 60% in 1974, 85% average. Corn 85% emerged, stands good. Corn 5 in. tall, 4 in. in 1974, 2 in. average. Soybeans 80% planted, 20% in 1974, 50% average. Soybeans 65% emerged, fair to good stands. Soybeans 2 in. tall, 1 in. in 1974 and average. Wheat

85% headed, 90% in 1974, 75% average. Less than 5% ripening. Oats 10% headed. Alfalfa hay 35% cut first time. Clover hay 15% cut. Pastures fair to mostly good.

IOWA: Temperatures 2-4° below normal. Precipitation well above normal south and west near normal northeast. Scattered rains helped previously dry fields. Fieldwork 4 days suitable. Due lack rain herbicides ineffective. Uneven stands corn many areas. Alfalfa weevil infestations, some severe. Some hail damage north central, southwest. Corn 100% planted, 84% 1974, 100% average. Corn 87% emerged. Stand corn normal. Soybeans 85% planted, 40% 1974, 67% average. Soybeans 50% emerged. First cutting alfalfa 8% completed. Topsoil moisture 6% short, 78% adequate, 16% surplus.

KANSAS: Below normal temperatures and abundant rainfall. Heaviest amounts 4.00 in. or more. Previously dry southwest received 1.43 to 2.83 in. Considerable hail activity with rainfall north-west and north central.

Good rain across the State, aided wheat western third and north central. Crop condition good. Wheat 95% headed, same 1974 and average. 5% wheat turned, 10% 1974, 15% average. Corn 95% planted, same 1974 and average. Soybean 40% planted, same average, 35% 1974. Sorghum 35% planted, same as average, 40% 1974. Alfalfa first cutting 55% complete, same average, 75% 1974. Rains improved range and pasture condition.

KENTUCKY: Mostly warm and humid. Temperatures averaged 2° above normal. Scattered showers daily but more numerous weekend. Totals variable, some over 3.00 in.

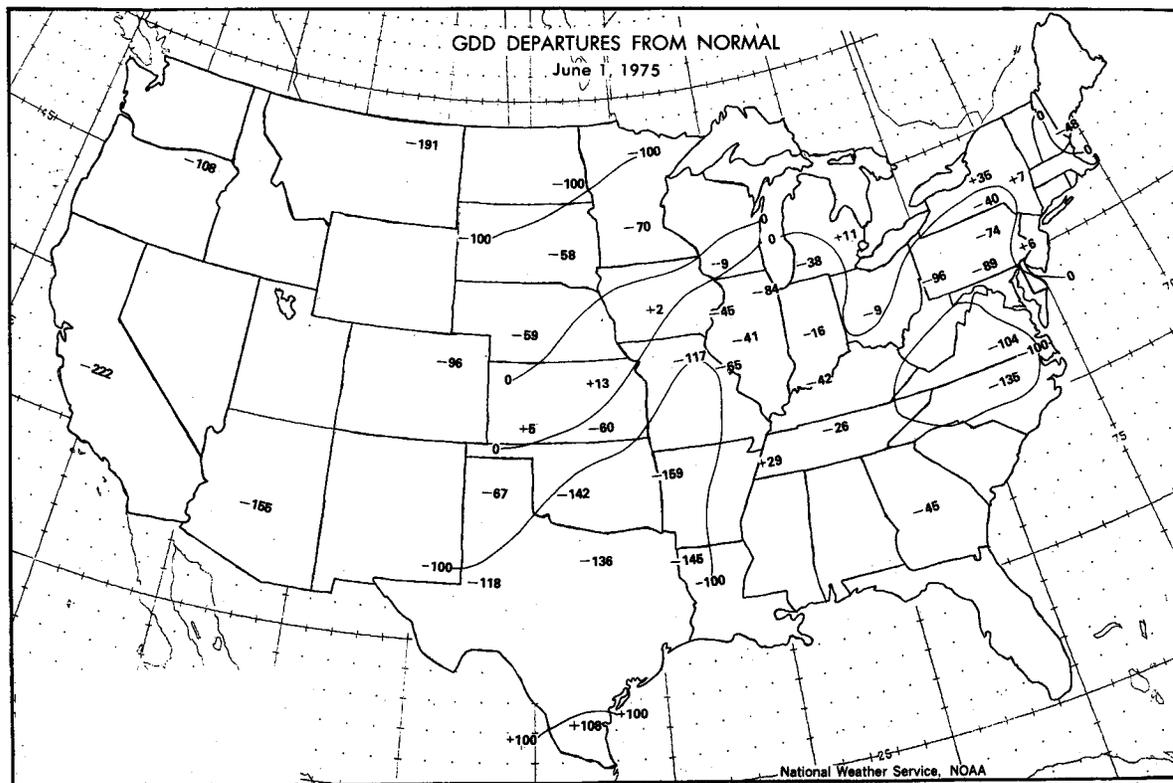
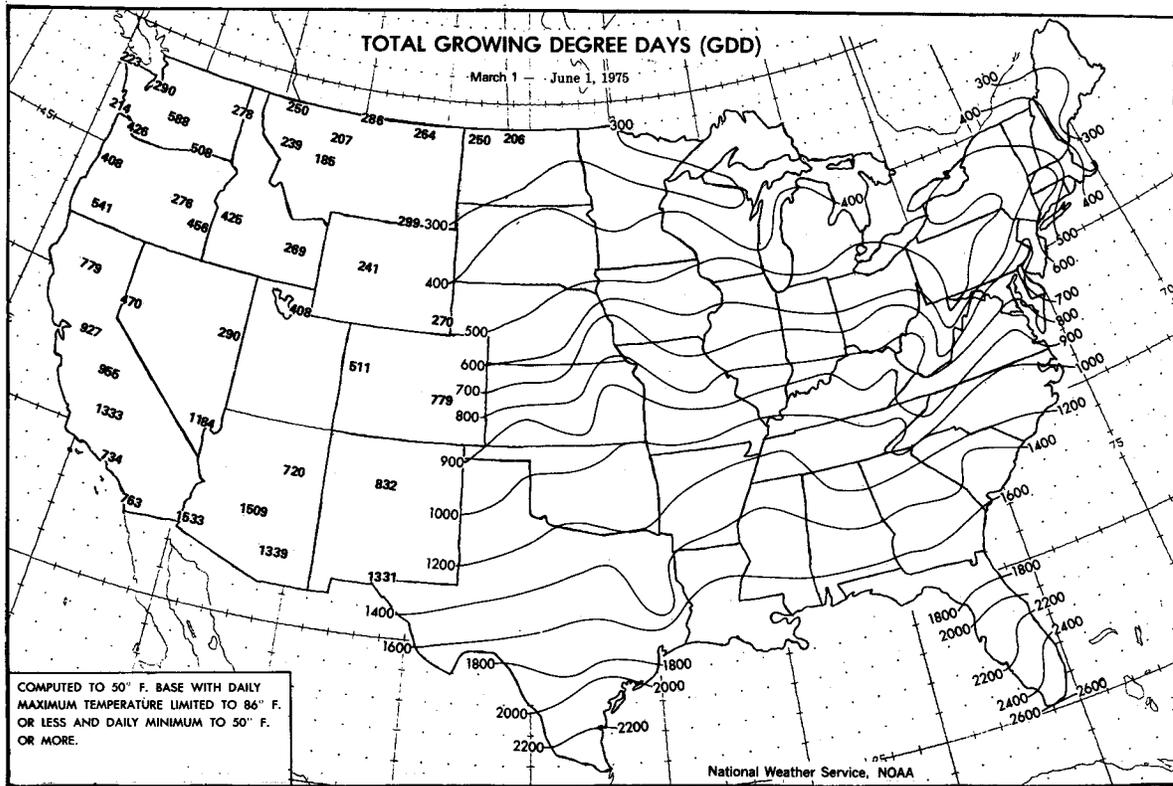
Despite showers, about 4.5 days favorable fieldwork. Soybean seeding and tobacco setting very active, hay cutting between showers. Soil moisture generally adequate. Corn planting nearing completion, 87% compared 92% 1974 and 81% average. Soybean seeding 42% finished versus 34% 1974 and average 30%. Corn and beans up to good stands, better than 90% full. Burley tobacco 24% set, darks 26%, plants adequate; except local shortages south and west. Barley nearing harvest, half wheat turning, remainder headed and blooming. Pasture grasses top condition.

LOUISIANA: Temperatures 1 to 5° below normal. Extremes: 94° Alexandria May 27 and 56° Shreveport June 1. Locally heavy rainfall ranged 1:00 to 5:00 in.

Soil moisture excessive most areas. Fieldwork favorable 3.7 days. Main activities land preparation, planting, cultivation, and pesticide application. Cotton 75% planted, 98% 1974, 97% average. Over 50% up to stand. Corn planting virtually complete. Some insect damage late corn. Sorghum 25% planted, 60% 1974. Applying fertilizer, herbicides and insecticide in rice. 90% up to stand. Soybeans 40% planted, 66% 1974, 66% average. Sugarcane stands and growth good. Fertilization and cultivation near completion. Sweetpotato transplanting 60% complete. Small grain 33% harvested, about normal. Livestock fair to good.

MARYLAND AND DELAWARE: Temperatures 1 to 4° above normal. Highs, low 80's to low 90's except 75° Garrett County; lows, mid 40's to 60°. Precipitation scattered, .0 to 2.29 in. Weekend warm with showers.

Fieldwork progress good. Topsoil moisture mostly adequate. Corn 88% planted, 95% 1974, 89% average. Soybeans 36% planted, 38% 1974, 37% average. Wheat 100% headed, barley turning color. Hay and



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pasture growth good. Tobacco 15% planted, 30% 1974, 27% average. Vegetable growers planting sweet potatoes, lima beans. Asparagus 70% harvested. Strawberry harvest continues. Good apple and peach prospects.

**MICHIGAN:** Warm averaging 4° above normal. Departures 0° Marquette, 9° Saginaw. Precipitation heaviest southwest, lightest Northwest. Rainfall averaged 1 in. ranging 2.32 Grand Junction to 0.20 in. Houghton.

Another warm week pushed crop growth. Soil moisture adequate most areas. Fieldwork 4.5 days. Plowing 90% completed. Corn coming up well, 90% planted 68% 1974, 80% average. Soybean 60% completed, 28% 1974, 40% average. Oats 98% planted, 99% 1974, 91% average. Wheat good, starting to head south. Dry beans 10% planted, 1% 1974, 6% average. Potatoes 80% planted equal 1974, 53% average. Alfalfa weevil active. Hay first cutting started south. Pasture feed supplies average lower peninsula, above average upper peninsula. Foliage fruit trees good. Start thinning apples west central. Transplanting vegetables active. Asparagus 60% harvested.

**MINNESOTA:** A cool, dry week. Temperatures averaged 2 to 3° below normal. Precipitation 0.30 to 0.40 in. below normal central and north; 0.70 to 0.90 in. below normal west central and southwest; and normal or about 0.90 in. south central and southeast.

Planting crops nearing completion except small percentage soybeans, flax and potatoes (Red River Valley), processing sweet corn. Early growth aided by favorable dry sunny conditions. Spring wheat 82% emerged; 1974 44%; average 73%. Oats 88% emerged; 1974 70%; average 82%. Barley 76% emerged; 1974 34%; average 66%. Corn 76% emerged; 1974 65%, average 70%. Processing green peas; all emerged, good condition. Soybeans planted 88%, 1974 69%; average 74%. Sugarbeets all planted, 1974 70%; average 77%. Potatoes planted 87%; 1974 35%; average 56%. Sweet corn 68% planted. Soil moisture mostly adequate except short to adequate southwest, west central.

**MISSISSIPPI:** Rainfall averaged 1 in. most northwest. Temperatures: Slightly above normal. Extremes: 96 and 60°. Greatest 24-hour rainfall 3.58 in. at Cleveland 29th.

Soil moisture: Ranged mostly excessive north to mostly adequate south. Fieldwork: 2.8 days suitable. Cotton 92% planted, 97% 1974, 98% average; 72% up to stand, 91% 1974, 80% average. Corn 82% planted, 90% 1974, 87% average; 67% up to stand, 87% 1974. Soybeans 26% planted, 42% 1974, 54% normal; 17% up to stand, 38% 1974. Rice 76% planted, 94% normal; 55% up to stand. Sorghum 35%, sweet potatoes 58%, peanuts 70% planted. Cotton, corn, wheat, soybeans, Irish potatoes, truck crops, livestock and pastures mostly fair to good condition. Rice fair and peaches poor to fair condition.

**MISSOURI:** Below normal 3 to 5° North Prairie, 5° above normal Bootheel, normal elsewhere. Precipitation heavy northwest, 3.00 in. average, elsewhere 1.50 in. average except 0.75 in. average Ozark zones.

Fieldwork: 3 days suitable. Soil moisture adequate to surplus except east central, southwest. Corn 91% planted, 81% 1974, 84% average. Soybeans 64% planted, 30% 1974, 35% average. Wheat fair to good, 29% turning color, 35% 1974. First cutting alfalfa 46% harvested, 43% 1974, 47% average. Some cut worm and armyworm damage.

**MONTANA:** Cool first of week. Temperatures averaged near normal to 6° below. Numerous light showers throughout week. Most amounts below normal. Isolated heavy showers north central, south central and southeast.

Land preparation and seeding progressed rapidly. Percent complete compared with normals: Spring wheat 80% versus 78%; barley 75% versus 85%; oats 70% versus 81%; corn 50% versus 61%; sugarbeets 95%, normally complete; potatoes 55% versus 56%. Growth and condition emerged stands fair to good. Soil moisture generally adequate. Growth and condition winter wheat good to excellent. About 5% in boot. Hay and range grass growth slow. About 75% cattle and sheep moved to summer pastures.

**NEBRASKA:** Cool temperatures, 4 to 9° below normal. Rain fell throughout week, heaviest early.

Corn planting 95% completed, 1974 near normal 100%. Spraying for cutworms. Sorghum 70% planted, equals 1974, normal 60%. Soybeans 75% planted, 60% year ago, 55% normal. Winter wheat fair to good condition. Average 81%, 78% last week and 86% 1974. Wheat 50% headed. Alfalfa good condition, 30% first cutting harvested. Wild hay fair to good condition. Topsoil moisture supplies 27% short, 60% adequate, 13% surplus. Subsoil moisture supplies short 69%, 16% 1974. Pasture and range feed supplies short.

**NEVADA:** Summer-like weather. Precipitation practically nil. Temperatures slightly above normal except slightly below normal extreme northeast. Temperatures ranged from 15°, Mountain City and McDermitt to 103° Las Vegas.

Crops responding to warm weather. First cuttings hay starting northwestern valleys. Second cutting alfalfa starting extreme south. Ranges greening up. Lot of snow high elevations. Calving, lambing and shearing nearing completion. Water supply good to excellent.

**NEW ENGLAND:** Scattered showers northern New England May 26-28, but none south. Temperatures 5° to 10° above normal May 28th and 29th. Excessively dry except Aroostook County, Maine. Season slightly ahead due warm temperatures.

Planting corn, oats approaching completion. Insects and weed infestations large. First hay cutting light. Fruit bloom past, orchardist applying thinning sprays. Maine potato crop 25% planted. Concern possible cut seed decay. Vegetable planting continues strong.

**NEW JERSEY:** Temperatures averaged 4 to 5° above normal. Extremes: 44° at Newton on 29th, 88° at Freehold on 31st. Weekly rainfall 1.76 in. north, 1.05 in. central and 0.88 in. south. Estimated soil moisture in % of field capacity averaged 92% north, 72% central and 81% in south. Four inch soil temperature Monday morning 67 to 69° north and central and 68 to 71° in south.

Weekend showers beneficial. Hot weather advanced crop growth. Growing conditions excellent. Tomato planting about complete. Pepper, eggplant and sweet potato transplanting active. Iceberg lettuce harvest increasing. Potatoes up. Strawberry harvest underway. Apples and peaches sizing well. Fruit spraying active. Wheat heading. 1st cutting hay general. Pasture growth active.

**NEW MEXICO:** Another abnormally cold week with temperatures averaging 5 to 8° below normal. Warm turning much colder midweek, rising temperatures 30th-1st. Widespread rains midweek storm. Rainfall totals 0.25 in. or less west and south, up to 2.00 in. northeast.

Topsoil moisture short, subsoil to adequate. Cotton 75% emerged, 1974 90%. Some insect problems southwest. Alfalfa: 1st cut 90% done south with 2nd starting, 1st cut north slow due water shortage, cool temperatures. Wheat, barley fair to good. Wheat heading near 95%. Corn planting 65% done, 1974 75%. Oats good. Substantial lettuce acreage abandonment. Lettuce 67% harvested. Apples fair. Peanut planting started east. Ranges fair, need moisture. Livestock fair to good. Cattle moving to mountain pastures.

**NEW YORK:** Temperatures well above normal averaging plus 6°. High 87° Dansville, Syracuse and Cobleskill; low 39° Saranac Lake. Showers and thunderstorms 30th-1st.

Continued hot, dry, soil moisture short most areas. Corn 82% planted, 1974 61%, average 52%. Rapid germination. Good growth. Oats 96% planted. Wheat, potatoes, hay and pastures good condition. Colorado potato beetle damage significant Long Island. Cabbage transplanting suffering dry conditions. All other vegetables good condition. Good to heavy set tree fruits, thinning underway.

**NORTH CAROLINA:** Near normal temperatures and above normal precipitation. Rainfall amounts quite variable due to scattered thunderstorms.

Fieldwork: 3.5 days suitable. Soil moisture 5% short, 59% adequate, 36% surplus. Flue-cured tobacco 94% set, 1974 94%, average 89%. Burley tobacco 60% transplanted, 1974 53%. Flue-cured fields fair to mostly good condition. Corn 95% planted, 1974 95%, average 92%. Soybeans 61% planted, 1974 61%, average 59%. Peanuts 97% planted 1974 92%, average 93%. Cotton 99% planted, 1974 99%, average 97%. Sweetpotatoes 58% transplanted, 1974 60%. Sorghum 55% sown, 1974 50%. Pasture condition 1% poor, 23% fair, 66% good, 10% excellent. Small grains fair to mostly good. Peaches 17% fair, 63% good.

**NORTH DAKOTA:** Temperatures below normal to normal. Range from 6° below normal southwest to normal northeast. East central and southeast 1° below normal. Extremes: 80° Lisbon, 37° Upland. Precipitation average below normal. Range 0.69 in. below normal southeast to 0.40 in. below normal north central. Weekend fair temperatures with scattered thundershowers.

Hard red spring wheat about 85% planted, 1974 64%, normal 92%. Durum wheat about 75% planted, 1974 45%, normal 88%. Oats about 80% planted, 1974 65%, normal 90%. Barley about 85% planted, 1974 50%, normal 88%. Planting row crops making excellent progress. Pastures providing good grazing. Soil moisture mostly adequate to plentiful.

**OHIO:** Mild temperatures prevailed with high 70's to 80's. High 90° southwest and low 50° northwest. Rain spotty, heaviest 1st. Precipitation ranged 3.41 in. northeast to .50 in. northwest.

Fieldwork: 5 days suitable. Corn planting virtually completed, 95% 1974, 85% normal. Soybeans 85% planted, 70% 1974, 55% normal. Tobacco 15% set, 30% 1974, 25% normal. Percent headed: Wheat 75%, 70% 1974, 65% normal; oats 10%, 10% 1974, 5% normal; barley 80%, 70% 1974, 75% normal. Alfalfa cutting 25% done, 15% 1974, 20% normal. Clover-timothy cutting 15% done, 10% both 1974 and normal. Crop conditions mostly good. Soil moisture: 23% short, 63% adequate and 14% surplus. Central and southwest driest.

**OKLAHOMA:** Temperatures averaged 1 to 5° below normal. Precipitation average 1.70 in. Panhandle to 2.70 in. northeast. Weekend warm, mostly dry.

Wet week delayed start wheat harvest, row crop planting near standstill. Wheat 80% dough stage, week later than 1975. Harvest start southwest when fields dry. Panhandle rains should help fill headed wheat. Some loss flooding southwest and central. Small oat and barley crops good condition. Corn 75% up to stand, good. Planting other row crops small advance. Sorghums 37% planted, 59% 1974; cotton 31%, 80% 1974. Peanuts 26%, 58% 1974; soybeans 41%, 39% 1974. Replanting will be heavy. First cutting alfalfa 86% complete, rains hampering bailing. Top moisture surplus in 68% State. Ranges need sunshine, grazing good to excellent. Cattle making gains.

**OREGON:** Temperatures below normal east, above normal west. Maximums in 80's. Minimums in 20's. Precipitation along coast ranged 0.13 to 0.05 in., 0.03 in. western interior valley, 0.18 in. or less east.

Wheat in full boot, some beginning to head. Barley is heading. First cutting alfalfa down early areas. Some freeze damage spring grains. Cherries and prunes look good. No frost problems most fruits. Strawberries showing fruit. Asparagus, radish harvest continues. Sweet corn, beans, beets, cucumbers, broccoli planting continue. Some frost problems potato fields southeastern counties. Range conditions improving. Early spring ranges nearly depleted. Livestock looks good. Cattle gaining flesh. Lambs moving market.

**PENNSYLVANIA:** Seasonably cool and dry early, warm and very humid later returning pleasantly cool and dry conditions weekend. Temperatures 1 to 3° above normal but several degrees cooler than previous week. Extremes: 34 to 85°. Showers and thunderstorms produced 1.00 to 3.00 in. rainfall northwest, north central and southeast. Only narrow band from southwest to northeast corners reported less than 0.50 in. totals.

Soil moisture adequate. Major activities planting corn and potatoes, spraying, cultivating, filling silos, hay making. Plowing virtually complete, couple days earlier than 1974. Potatoes 95% planted, 1974 90%. Corn planting 86%, 81% in 1974. Barley 71% headed, 1974 83%. Wheat 46% headed, 1974 50%. Hay condition good, first cutting alfalfa 14%, 1974 17%. Feed from pastures average. Fruit crop past bloom.

**PUERTO RICO:** A dry week with island average rainfall 0.17 to 1.66 in. below normal. Highest total 0.71 San Sebastian followed by 0.65 in. at Morovis. Highest 24-hour total 0.71 in. at San Sebastian. Temperatures averaged 79° coasts and 74° interior with mean station temperatures ranging 81.4° at San Juan to 64.1° at Adjuntas. Highest maximum 91, lowest minimum 55°.

Weather favored sugarcane planting and soil fertilizing but dry weather south coast affecting normal development of ratoons. Good coffee flowering. Tobacco drying in the shed continued under favorable weather. Pastures deteriorating due lack of rain. Rains needed badly islandwide for good development of food crops.

**SOUTH CAROLINA:** Light rain 28 and 29th. Heavier showers 1.00 to 2.00 in. 30 and 31st over northwest, northeast. Mountains heaviest with 5.00 plus in. Totals 1.00 to 2.00 in. above normal except south. Temperatures well above normal early week, moderated with rainfall. Final averages ranged 3 to 5° above normal.

Cotton planting complete. Corn fair to good, all planted. Tobacco good. Small grains fair to

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good. Wheat 12% harvested, 11% 1974. Oats 21% harvested, 25% 1974. Barley 19% harvested, 22% 1974. Rye 12% harvested, 22% 1974. Peaches 3% harvested, 2% 1974. Sweetpotatoes 63% planted, 64% 1974, 60% average. Grain hays 79% harvested, 87% 1974, 70% average. Sorghum 39% planted, 40% 1974, 40% average. Soybeans 62% planted, 62% 1974, 56% average.

**SOUTH DAKOTA:** Temperatures averaged 8° above normal. Extremes: 86° Vermillion 26th, 30° Harrington 26 and 30th. Precipitation very light, largest amount Yankton 0.70 in.

Fieldwork made rapid progress. Flax 83% seeded, 1974 92%, normal 83%. Corn 93% planted, 1974 92%, normal 88%. Soybeans 88% planted, 1974 77%, normal 71%. Sorghum 55% planted, 1974 and normal 45%. Winter wheat and rye development behind normal. Over half in or past boot stage, 18% and 12%, respectively, headed. Spring wheat, oats and barley starting to boot earliest areas. Average height corn 3 in. Cultivating corn and swath alfalfa early stages. Livestock normal condition. Some pastures and ranges becoming short. Weeds problem most areas.

**TENNESSEE:** Temperatures averaged low 70's, slightly above normal in plateau and east and near normal elsewhere. Precipitation averaged around 1.50 in. west and less than 0.50 in. elsewhere.

Corn 87% planted, 1974 81%, normal 85%. Cotton 91% planted, 1974 88%, normal 94%. Soybeans 43% planted, 1974 21%, normal 46%. Wheat 81% yellow, 1974 77%, normal 54%. Oats 67% yellow, 1974 67%, normal 35%. Barley 82% yellow, 1974 86%, normal 63%. Hay cutting lagging due rains. Tobacco 57% transplanted, 1974 70%, normal 65%. Plants small and in short supply.

**TEXAS:** Heavy rains mostly beneficial. Downpours delayed harvest crops some portions. Rainfall above normal all areas except extreme west, southwest. Temperatures averaged 6° below normal west, northwest, north while readings south, east near to several degrees below normal.

Wheat, oat, barley harvest satisfactory progress early week before rain, high winds stopped harvest operations. Lodging common across State result high winds, rain, some hail damage. Planting cotton, corn, sorghum, peanuts, soybeans satisfactory progress early week. Some stands need replanting. Sunflowers excellent progress. Wheat: Harvest moderate progress early. Oats: Harvest reached 11% completion compared with 10% 1974. Cotton: Planting good progress early week. Sorghum: Planting progress good early. Much dry land crops too far along to be helped by rains. Percent harvested: Wheat 1975 4%, 1974 22%, average 17%; oats 1975 11, 1974 49, average 47; barley 1975 6, 1974 35, average 29; flax 1975 99, 1974 95, average 98. Percent planted: Cotton 1975 79, 1974 79, average 82; corn 1975 100, 1974 100, average 99; sorghum 1975 84, 1974 77, average 74; peanuts 1975 45, 1974 47, average 42; rice 1975 100, 1974 98, average 98; soybeans 1975 35, 1974 39, average 23. Onion harvest Rio Grande Valley nears completion. Potato harvest complete. Coastal Bend: Some watermelons, blackeyed peas lost hail, heavy rains. Watermelon harvest continues. San Antonio-Winter Garden: Onion, carrot, cucumber harvest continues, cantaloups starting move. Hail, high winds, wet conditions have caused some damage vegetable crops, delayed harvest. Upper coast: Heavy rains some damage vegetable crops. East: Sweetpotato planting hampered by wet conditions. Rainfall delayed land preparation, planting beans, peas, watermelons. Squash, potato harvest continues. Knox-

Haskell: Potatoes suffering excessive rainfall. Some hail damage. Harvest begin soon. Trans-Pecos: Onion, cabbage harvest continues. Hail damage cantaloups Pecos county. Peach harvest south, south central continues active. Harvest rapidly approaching east, north. Citrus: Recent rains improved groves conditions. Ranges furnishing excellent grazing. Livestock condition improving. Hay harvest suffered setbacks most areas excellent moisture subsequent summer crops.

**UTAH:** Rainstorm most sections midweek. Accumulated moisture moderate to locally heavy. Fair weather rising temperatures late week. Average temperatures continued cold averages 4 to 10° below normal.

Considerable progress made land preparation and planting late spring crops. Sugarbeet planting virtually complete. About 75% field corn and sweet corn planted. Potatoes 80%; snap beans 85%. Tomatoes after being frozen out last week, about 50%. Alfalfa hay fair condition growth slow. Livestock receiving green feed. Supplemented with short hay supplies.

**VIRGINIA:** Temperatures several degrees above normal. Extremes 95, 51°. Rainfall varied from 6 in. Galax, less than 0.01 some stations, occurring scattered showers, thunderstorms.

Fieldwork: 4.5 days suitable. Wet conditions north and west. Corn planting 88% complete, average stands, week late. Applying nitrogen, cultivating. Applying pesticides armyworm infestation several counties. Soybean planting rapid progress. Germination good. Peanut planting near completion. Stands 5% below average. Land plastering started. Rapid progress transplanting tobacco. Some flue-cured finished, resetting. Local plant supplies improved. Cultivating, applying pesticides and topdressing. Tight fire-cured plant supply. Barley harvest start June 6-10. Wheat start June 15-20. Spraying armyworms several localities. Haying all areas. Some losses reduced quality due rainy weather west and southwest. Pastures excellent. Fruit spraying and thinning. Scattered irrigation commercial potatoes Eastern Shore.

**WASHINGTON:** West: Near normal temperatures except slightly below normal southwest. Precipitation well below normal. Planting broccoli, cauliflower, green peas, silage corn. Seed cabbage at peak bloom. Caneberries in or near full bloom. Chopping grass hay. Spraying for tansy. East: Readings from 1 to 3° subnormal. Precipitation light and below normal. Reseeding blown out sugarbeets. Seeding: dry beans, potatoes, field corn, pasture, alfalfa, sweet corn. Cutting hay, asparagus. Other activities: Hop training, fertilizing, cultivating, irrigating. Applying chemical thinning sprays in orchards. Fruit set excellent most orchards except some Golden Delicious shortage of bloom. Field peas full bloom. Winter wheat fields showed much improvement. Some coming out boot stage. Weed spraying winding down. Insecticides applied pea leaf weevils. Bluegrass headed out. Pastures improving although short some areas.

**WEST VIRGINIA:** Temperatures and precipitation well above normal. Highs 50° Clay and Romney. Low 44° Cannaan Valley and Bartow. Precipitation averaged over 2 in. central and 1.5 in. elsewhere.

Fieldwork: suitable 3.4 days. Soil moisture adequate to surplus. Main farm activities: Gardening, haying and planting corn. Condition grow-

ing crops good except tobacco. Tobacco growth slow. Planted: Oats and potatoes near 100%, corn 79%. Emerged: Oats 90%, potatoes 88%. Hay 1st cutting 10% complete. Cereal leaf beetle oats eastern pan-handle. Some blight potatoes. Face flies annoying cattle.

WISCONSIN: Temperatures averaged near normal. Highs were upper 60's and 70's. Weekly totals exceeded 1.00 in. except in north, west, and southeast.

Crops off fine start. Corn 95% planted, 1974 and normal 80%. Rapid emergence of corn. Much chemical treatment corn weed control. Soybeans 60% planted, 1974 20%, normal 40%. Oats and small grains coming good. Some atrazine carryover problems oat fields. Haying underway with very good crops north and west but spotty south, central, and east. Winterkill extensive older stands. Pastures very good condition. Planting home gardens and commercial vegetable crops continuing. Most peas in, early crop doing well. Potato planting well along. Sweet corn

planting ahead. Early corn progressing good. Prospects excellent for apples and cherries. Strawberries look good. Soil moisture 20% short, 75% adequate, 5% surplus.

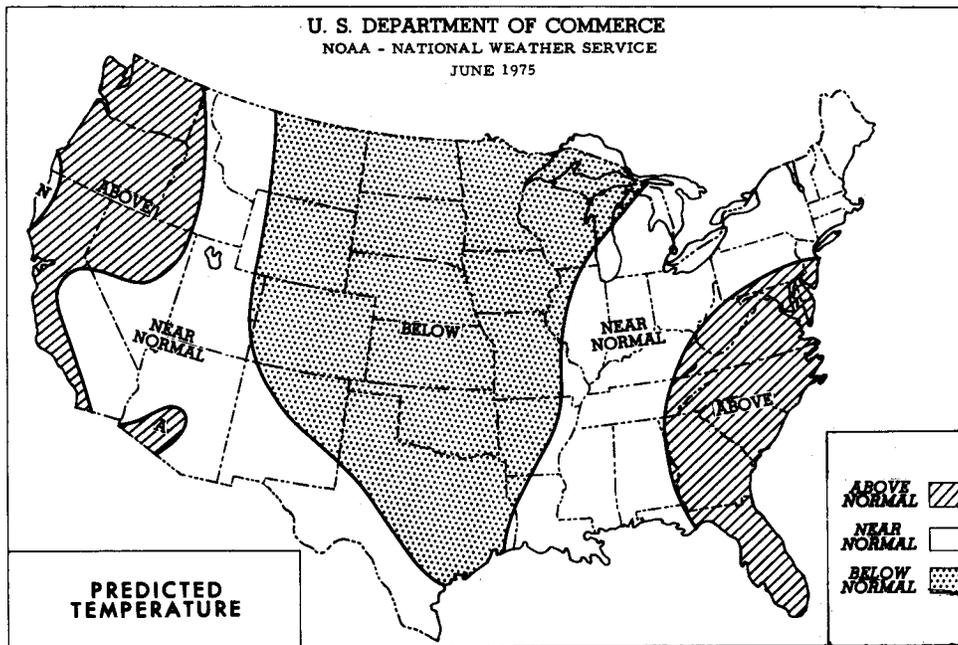
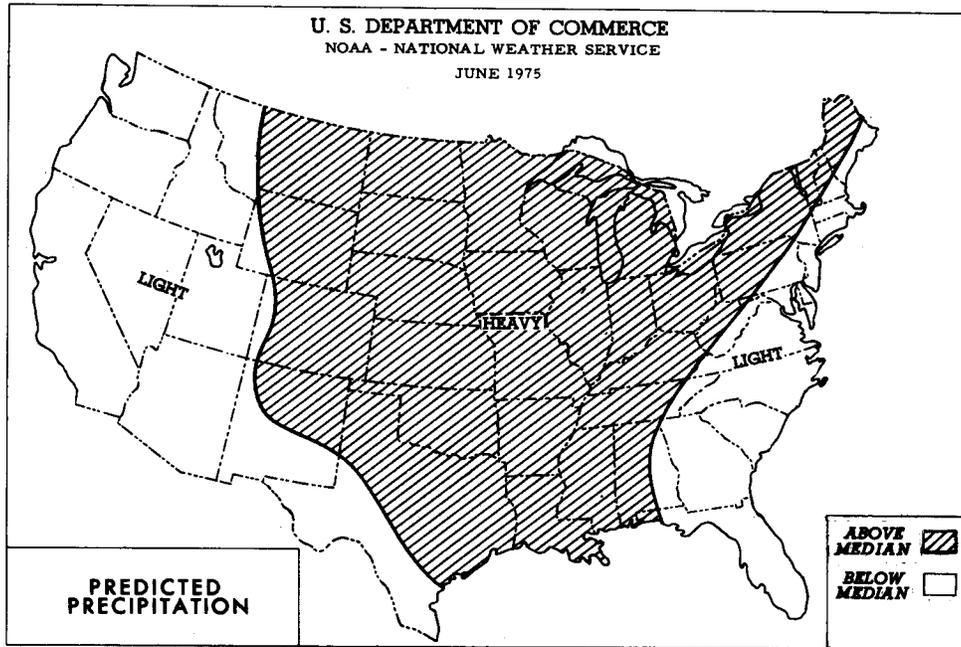
WYOMING: Precipitation wide spread latter week with southeast above normal. Most other locations reported less than normal with few locations reporting no precipitation. Temperatures 4-6 degrees below normal. High temperatures in mid-60's and 70's. Lows mid-20's to mid-30's with teens dominant northwest. Topsoil moisture now adequate. Prospects winter wheat and spring grains boosted by rains. Spring planting slowed, 3 weeks behind 1974. Spring wheat; 65% planted, 50% emerged. Oats: 75% emerged. Barley: 80% planted, 60% emerged. Sugarbeets: Planting nearly completed, 70% emerged. Corn: 70% planted, 35% emerged. Potatoes 40% planted, 10% emerged. Dry beans 33% planted. Winter wheat started to head. About 85% range ewes lambed. Summer grazing prospects improved but late. Stock water supplies adequate.

Heating Degree Days (Base 65° F.)  
May 1975

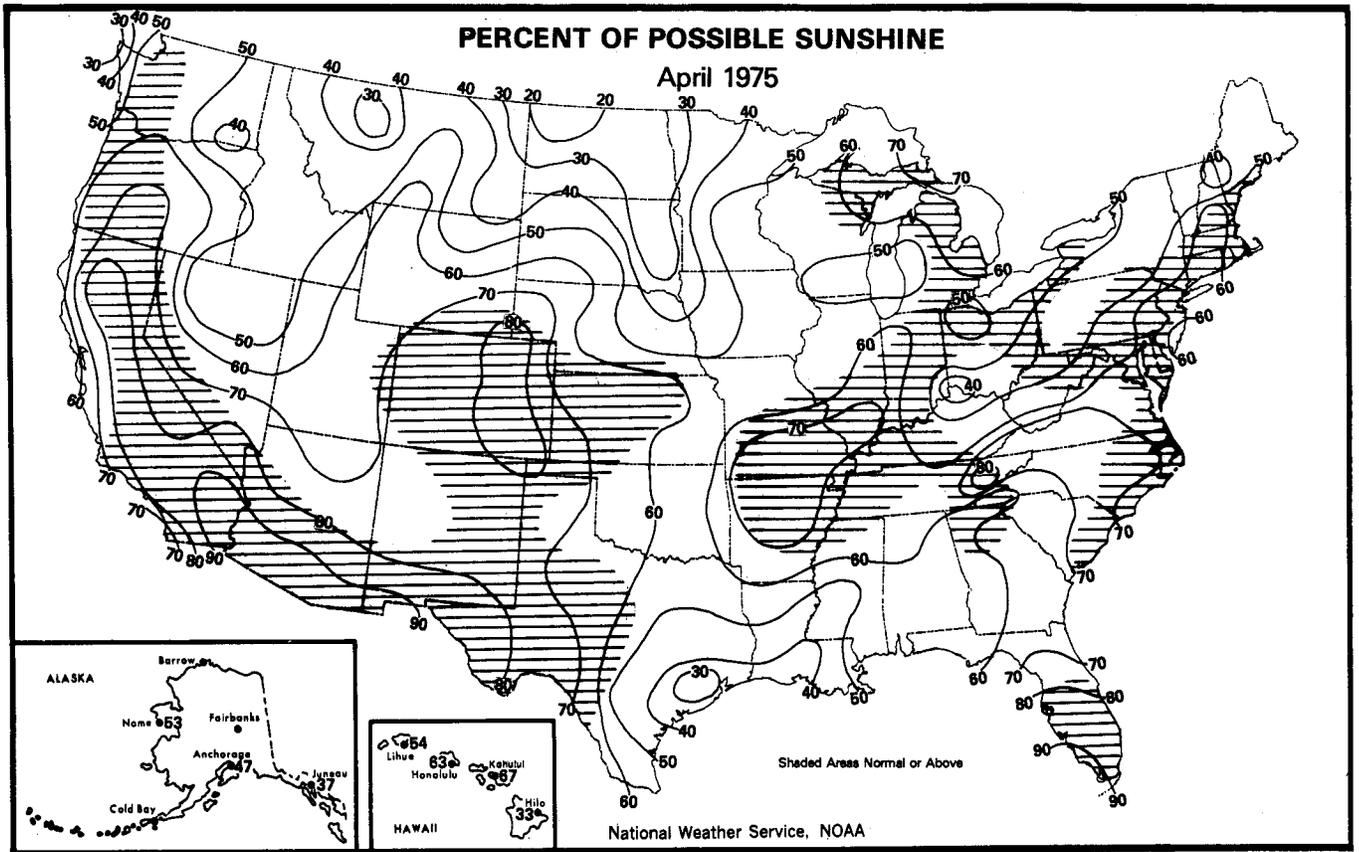
ALA. Birmingham . . . . .	2	MAINE, Caribou . . . . .	343	OKLA. Okla. City . . . . .	29
Mobile . . . . .	0	Portland . . . . .	286	Tulsa . . . . .	19
Montgomery . . . . .	2	MD. Baltimore . . . . .	66	OREG. Astoria . . . . .	375
ALASKA, Anchorage . . . . .	575	MASS. Boston . . . . .	162	Burns U . . . . .	440
Barrow . . . . .	---	Chatham . . . . .	345	Medford . . . . .	249
Fairbanks . . . . .	347	MICH. Alpena . . . . .	251	Pendleton . . . . .	194
Juneau . . . . .	---	Detroit . . . . .	142	Portland . . . . .	240
Nome . . . . .	959	Flint . . . . .	162	Salem . . . . .	327
ARIZ. Flagstaff . . . . .	536	Grand Rapids . . . . .	191	PA. Allentown . . . . .	98
Phoenix . . . . .	4	Houghton Lake . . . . .	212	Erie . . . . .	203
Tucson . . . . .	29	Lansing . . . . .	180	Harrisburg . . . . .	97
Winslow . . . . .	204	Marquette U . . . . .	319	Philadelphia . . . . .	66
Yuma . . . . .	5	S. Ste. Marie . . . . .	298	Pittsburgh . . . . .	118
ARK. Fort Smith . . . . .	10	MINN. Duluth . . . . .	358	Scranton . . . . .	88
Little Rock . . . . .	5	Internatl Falls . . . . .	332	R. I. Providence . . . . .	160
CALIF. Bakersfield . . . . .	30	Minneapolis . . . . .	188	S. C. Charleston . . . . .	0
Bureka U . . . . .	417	Rochester . . . . .	196	Columbia . . . . .	308
Fresno . . . . .	53	St. Cloud . . . . .	223	Greenville . . . . .	9
Los Angeles U . . . . .	68	MIS. Jackson . . . . .	0	S. DAK. Aberdeen . . . . .	184
Red Bluff . . . . .	65	Meridian . . . . .	0	Huron . . . . .	195
Stockton . . . . .	56	Vicksburg U . . . . .	---	Rapid City . . . . .	343
San Diego . . . . .	83	MO. Columbia . . . . .	67	Sioux Falls . . . . .	157
San Francisco . . . . .	220	Kansas City . . . . .	42	TENN. Chattanooga . . . . .	14
COLOR. Denver . . . . .	332	St. Louis . . . . .	48	Knoxville . . . . .	9
Grand Junction . . . . .	249	Springfield . . . . .	55	Memphis . . . . .	2
Pueblo . . . . .	166	MONT. Billings . . . . .	418	Nashville . . . . .	6
CONN. Bridgeport . . . . .	141	Glasgow . . . . .	372	TEX. Abilene . . . . .	7
Hartford . . . . .	111	Great Falls . . . . .	460	Amarillo . . . . .	68
D. C. Washington . . . . .	24	Havre . . . . .	355	Austin . . . . .	0
FLA. Apalachicola . . . . .	0	Helena . . . . .	501	Beaumont . . . . .	0
Ft. Myers . . . . .	0	Kalispell . . . . .	459	Brownsville . . . . .	0
Jacksonville . . . . .	0	Miles City . . . . .	328	Corpus Christi . . . . .	0
Key West . . . . .	0	Missoula . . . . .	483	Dallas . . . . .	---
Lakeland U . . . . .	0	NEBR. Grand Island . . . . .	127	Del Rio . . . . .	0
Miami . . . . .	0	Lincoln . . . . .	117	El Paso . . . . .	13
Orlando . . . . .	0	Norfolk . . . . .	105	Fort Worth . . . . .	0
Daytona Beach . . . . .	0	North Platte . . . . .	247	Galveston U . . . . .	0
Tallahassee . . . . .	0	Omaha . . . . .	72	Houston . . . . .	0
Tampa . . . . .	0	Valentine . . . . .	236	Lubbock . . . . .	18
GA. Atlanta . . . . .	2	NEV. Ely . . . . .	533	Midland . . . . .	2
Augusta . . . . .	3	Las Vegas . . . . .	37	San Angelo . . . . .	1
Macon . . . . .	0	Reno . . . . .	332	San Antonio . . . . .	0
Savannah . . . . .	0	Winnemucca . . . . .	339	Victoria . . . . .	0
IDAHO, Boise . . . . .	275	N. H. Concord . . . . .	152	Waco . . . . .	0
Lewiston . . . . .	230	N. J. Atlantic City . . . . .	121	Wichita Falls . . . . .	0
Pocatello . . . . .	435	Trenton U . . . . .	85	UTAH, Blanding R . . . . .	---
ILL. Cairo U . . . . .	1	N. MEX. Albuquerque . . . . .	143	Salt Lake City . . . . .	334
Chicago . . . . .	142	Roswell . . . . .	36	VT. Burlington . . . . .	117
Moline . . . . .	117	N. Y. Albany . . . . .	145	VA. Lynchburg . . . . .	45
Peoria . . . . .	92	Binghamton . . . . .	147	Norfolk . . . . .	47
Rockford . . . . .	150	Buffalo . . . . .	175	Richmond . . . . .	44
Springfield . . . . .	63	New York . . . . .	105	Roanoke . . . . .	60
IND. Evansville . . . . .	23	Rochester . . . . .	139	WASH. Colville . . . . .	346
Fort Wayne . . . . .	135	Syracuse . . . . .	138	Osak . . . . .	---
Indianapolis . . . . .	78	N. C. Asheville . . . . .	46	Quillayute . . . . .	417
South Bend . . . . .	136	Charlotte . . . . .	12	Seattle-Tacoma . . . . .	317
IOWA, Burlington . . . . .	78	Greensboro . . . . .	26	Spokane . . . . .	375
Des Moines . . . . .	89	Hatteras R . . . . .	26	Walla Walla U . . . . .	28
Dubuque . . . . .	149	Raleigh . . . . .	34	Yakima . . . . .	232
Sioux City . . . . .	97	Wilmington . . . . .	0	W. VA. Beckley . . . . .	118
KANS. Concordia . . . . .	90	N. DAK. Bismarck . . . . .	345	Charleston . . . . .	59
Dodge City . . . . .	78	Fargo . . . . .	265	Huntington . . . . .	43
Goodland . . . . .	226	Williston U . . . . .	371	Parkersburg U . . . . .	48
Topeka . . . . .	46	OHIO. Akron-Canton . . . . .	122	WIS. Green Bay . . . . .	205
Wichita . . . . .	72	Cincinnati U . . . . .	50	Madison . . . . .	150
KY. Lexington . . . . .	51	Cleveland . . . . .	154	Milwaukee . . . . .	267
Louisville . . . . .	22	Columbus . . . . .	73	WTO. Casper . . . . .	493
LA. Baton Rouge . . . . .	0	Darton . . . . .	54	Cheyenne . . . . .	506
Lake Charles . . . . .	0	Toledo . . . . .	148	Lander . . . . .	518
New Orleans . . . . .	0	Youngstown . . . . .	148	Sheridan . . . . .	450
Shreveport . . . . .	0				

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

**AVERAGE MONTHLY WEATHER OUTLOOK**



AGRICULTURAL IMPLICATIONS OF THE AVERAGE MONTHLY OUTLOOK: Above normal moisture in the western Great Plains and Rocky Mountains would provide needed moisture to the developing wheat crop. However in southern areas this could hamper harvest operations. Below normal temperatures would slow crop development in both the Great Plains and Corn Belt. Soil moisture conditions in the Pacific tier of States are already below normal. The situation would be intensified by below normal precipitation and above normal precipitation.

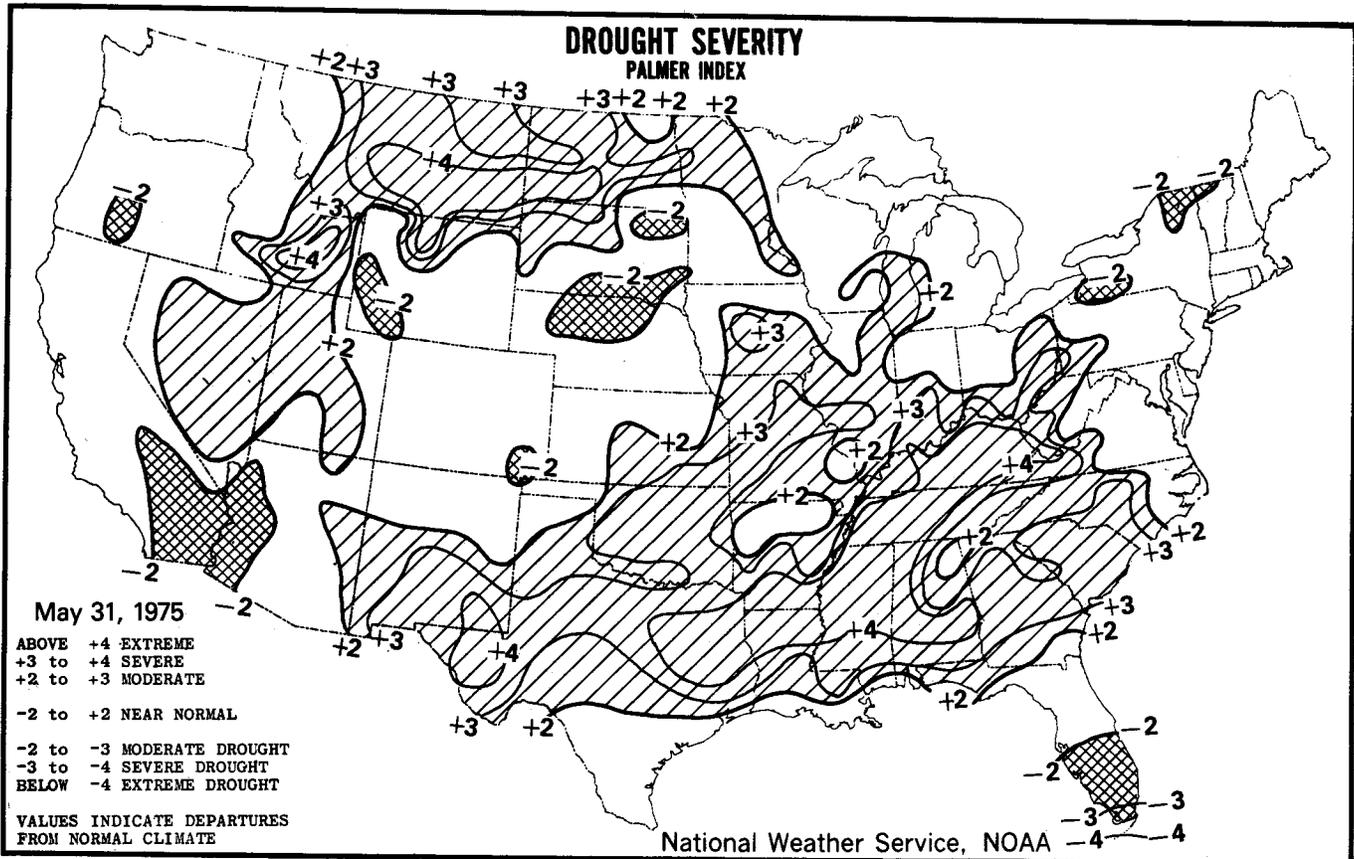


**WORLD WEATHER AND CROP UPDATE**

Shower and thunderstorm activity increased considerably in the major agricultural areas of the USSR in late May, and the weather continues to be unsettled.

In Northeast China showers have become more frequent but erratic and inadequate to relieve drought.

India has been receiving showers and thunderstorms with increasing frequency suggesting a timely beginning of the summer monsoon.



THE AREA OF EASTERN COLORADO THAT HAS BEEN DRY SINCE LATE LAST SUMMER IS RESPONDING TO RECENT RAIN AND IS NOW NEAR NORMAL. SOME AREAS IN SOUTHEAST COLORADO STILL NEED MORE RAIN. THE DRY AREA INDICATED IN SOUTHERN SOUTH DAKOTA AND NORTH CENTRAL NEBRASKA HAS GIVEN RISE TO SOME CAUTIONS ABOUT POSSIBLE RANGELAND FIRES. THE MODERATE TO SEVERE DROUGHT IN SOUTHERN FLORIDA IMPROVED SOME WITH THE SEASONAL RAIN BUT MORE RAIN IS NEEDED. NEW YORK STATE AND NEW ENGLAND ARE BECOMING DRIER AND WILL BEAR WATCHING.

THE PALMER AND CROP MOISTURE INDICES

The Palmer Index was designed to evaluate the scope, severity, and frequency of prolonged periods of abnormally wet or dry weather. For this purpose it works reasonably well. However, it does not provide a measure of the current status of agricultural drought; i.e. the effects of short periods of very dry weather. For this reason the Crop Moisture Index was developed to respond rapidly to changes in the soil moisture situation and take into account only those moisture aspects which affect vegetation and field operations.

If one is interested in the overall soil moisture situation, which will integrate the effects of the past weather over weeks and even months, the Palmer Index provides the best evaluation. However, if one is interested in the availability of moisture to meet current demands, the Crop Moisture Index is the most useful. For example, a recent rain might have replenished the soil sufficiently to meet the current demands. However if the Palmer Index is highly negative, one can interpret this to mean that the overall soil moisture situation is very poor.

A negative CMI value means that the demand for moisture, or the potential evapotranspiration, has been greater than available supplies so that actual transpiration has been reduced. On the other hand, positive CMI values mean that either actual evapotranspiration exceeded the expected amount, or

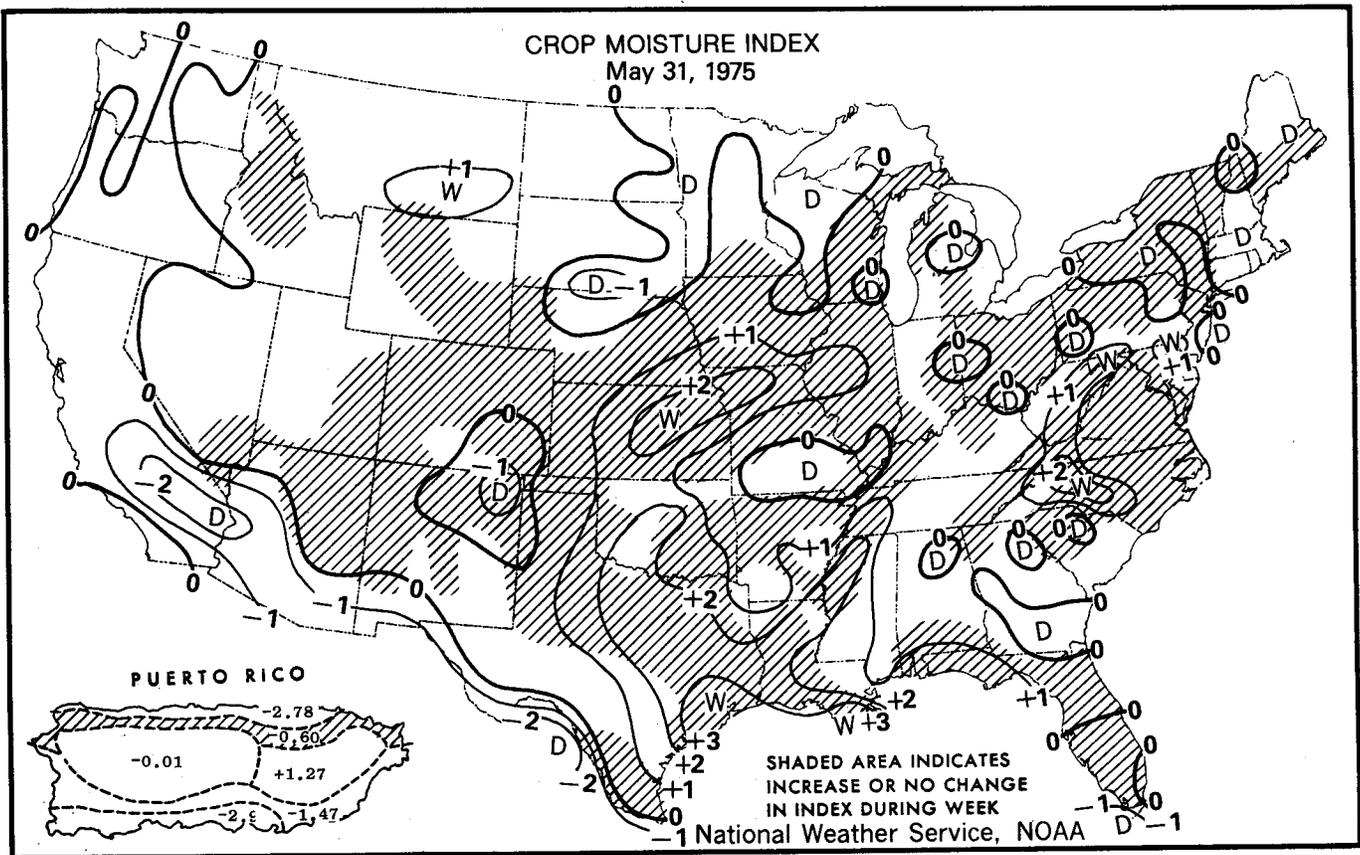
recent rainfall exceeded the moisture requirements of the crops and the additional moisture was added to the soil or was regarded as runoff.

Negative Palmer Index values imply negative abnormalities of either evapotranspiration, the amount of moisture stored in or added to the soil, or of runoff, or a combination of all these types of moisture shortages. In other words, negative PI values simply indicate that the weather has been abnormally dry, and do not specify the exact nature of the effects of the dry weather.

However, positive PI values indicate that the moisture supply either from current or antecedent rainfall exceeded the amount required to sustain soil moisture levels that would be considered as normal and appropriate for the climate of the area.

In brief summary, Palmer Index values are based on all aspects of the moisture situation, but the Crop Moisture values refer only to the crop moisture situation. In addition, the PI values are highly dependent on antecedent moisture conditions, whereas CMI values are much more responsive to weekly or current rainfall, or the lack of it.

The CMI map will appear each week in the Bulletin during the season from now through October. The Palmer Index will be published only in the first issue of each month during the same period.



The map above gives a general picture of how wet or dry the nation was last week. The lines show the crop moisture situation according to an index computed from values of temperature and precipitation by areas. Previous weekly computations of soil moisture account for the effect of prior weather.

Shaded areas are those where precipitation increased the index last week or where soils did not dry. 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

areas dried last week. The centers of wet or dry areas are marked: W for wet; D for dry. Use the legend to interpret.

Local variations caused by isolated rain or by soil differences are not shown. Any interpretation must consider the type of agriculture and the stage of crop development.

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



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**1975 PLANTING PROGRESS**

PERCENT OF ACREAGE PLANTED  
 (as of June 1)

COTTON				CORN			SOYBEANS				
Average	1974	1975		Average	1974	1975	Average	1974	1975		
ALA.	100	100	1/	GA.	100	100	100	ALA.	62	65	65
ARK.	98	97	98	ILL.	82	72	100	ARK.	49	44	44
GA.	100	100	100	IND.	85	60	95	GA.	58	62	54
LA.	97	98	75	IOWA	100	84	100	ILL.	45	16	87
MISS.	98	97	92	KANS.	95	95	95	IND.	50	20	80
MO.	100	100	1/	KY.	81	92	100	IOWA	67	40	85
N. C.	97	99	99	MICH.	80	68	90	KANS.	35	40	40
OKLA.	58	80	31	MINN.	90	90	93	KY.	30	34	42
S. C.	96	96	100	MO.	84	81	91	LA.	66	66	40
TENN.	94	88	91	NEB.	95	100	95	MICH.	40	28	60
TEX.	82	79	79	N. C.	92	95	95	MINN.	74	69	88
11-States	88	87	83	OHIO	85	95	1/	MISS.	54	42	26
				S. DAK.	88	92	93	MO.	35	30	64
				WIS.	80	80	95	NEB.	55	60	75
				U. S.	89	83	96	N. C.	59	61	61
								OHIO	55	70	85
								S. C.	56	62	62
								TENN.	46	21	43

These 11 States produced 68% of the Nation's cotton in 1974.

These 14 States produced 88% of the Nation's corn in 1974.

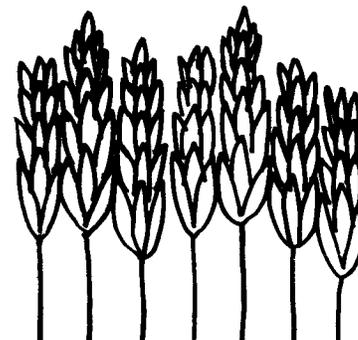
These 18 States produced 95% of the Nation's Soybeans in 1974.

SORGHUM			
Average	1974	1975	
COLO.	53	50	36
KANS.	35	40	35
MO.	41	45	65
NEB.	60	70	70
OKLA.	51	57	37
S. DAK.	45	45	55
TEX.	74	77	84
7-States	60	64	66

These 7 States produced 90% of the Nation's Sorghum grain in 1974.

SPRING WHEAT (Other than Durum)			
Average	1974	1975	
IDA.	2/	97	84
MINN.	2/	2/	100
MONT.	78	2/	80
N. DAK.	92	64	85
S. DAK.	100	100	100
5-States	93	83	90

These 5 States produced 93% of the Nation's Spring Wheat (other than Durum) in 1974.



1/Virtually complete  
 2/Not available