

# Weekly Weather & Crop Bulletin

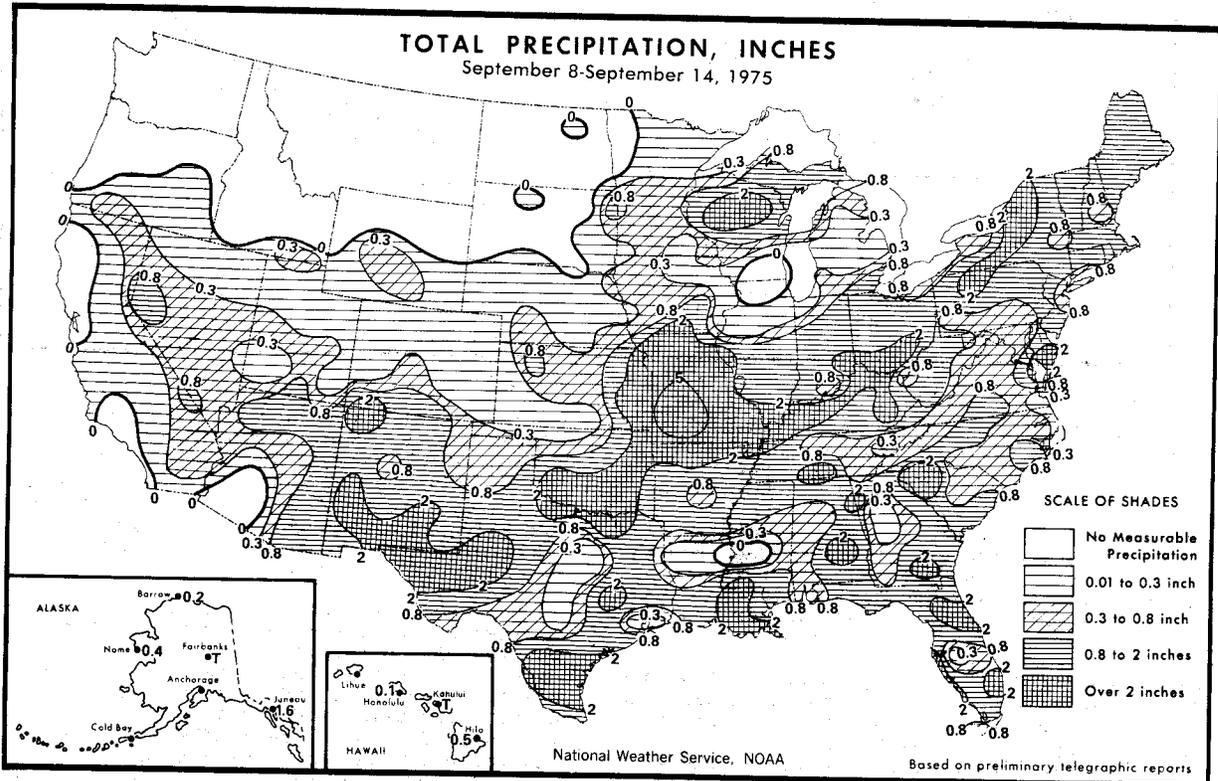
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## NATIONAL WEATHER SUMMARY

For the week of September 8-14

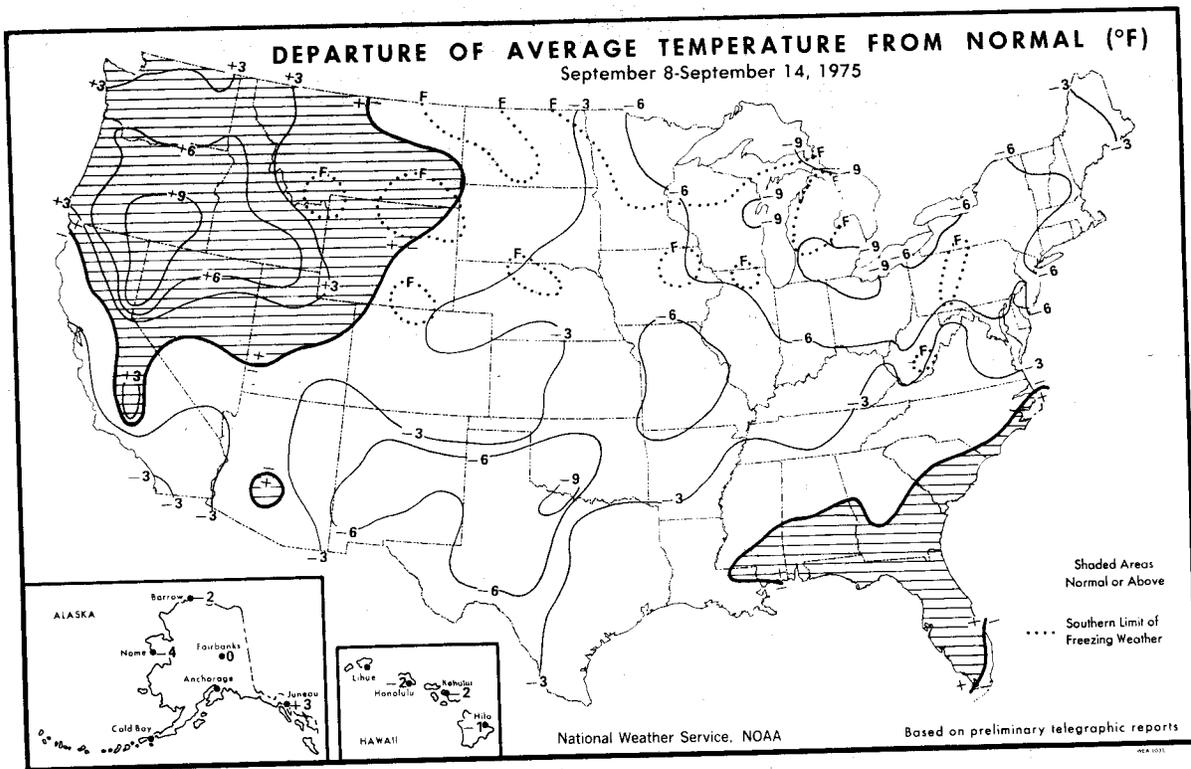
**HIGHLIGHTS:** Cold air moved into north central U.S. on Friday leaving record lows and some frost in its path as it headed towards the Atlantic. The unseasonably cool air blanketed the eastern two-thirds of the Nation over the weekend. Weekly temperatures in the Great Lakes region averaged as much as 10° below the normal for mid-September. In contrast, above normal temperatures warmed the Pacific Northwest and West Coast States. At mid-week severe weather and heavy rains erupted in the Midwest and South.

Slow moving frontal systems across the Nation on Monday spelled little change from the weekend weather pattern. The morning weather check showed mostly fair conditions, cool temperatures, and limited precipitation around the Nation. The exception--the Southwest, where cloudy skies and scattered thundershowers continued.

In the afternoon thundershowers lined the Gulf and south Atlantic Coasts. Severe weather broke out in parts of Florida; winds gusted to 80 mph in Ocala and toppled power lines and trees near Tallahassee. A few thundershowers developed from northern New England into Pennsylvania and across parts of Illinois and Iowa, but mostly clear skies dominated the middle Atlantic States and north-west quarter of the Nation.

Monday's high pressure system over Lake Superior marked the center of a cool air mass that hovered over north central United States. High temperatures in the upper Mississippi Valley and western Great Lakes areas scored only in the 50's and 60's, and even stopped at 47° in Marquette, Mich. Temperatures elsewhere east of the Rockies ranged from 70's in the North to 80's and 90's in the South.

Cold morning air on Tuesday broke record lows



in the Great Lakes region and delivered light to killing frosts to parts of southern Michigan. By noon, though, area temperatures moved into the 50's. Southwest Arizona reigned as the warmest spot in the Nation (Yuma, 80°).

Precipitation remained hidden across most of the Nation. Scattered activity extended from the southern Atlantic Coast into the southern Plains and from the west central Plains into California. Meantime the northeast quarter and northern areas from the Pacific Coast into the Plains fared under clear skies.

Moving eastward, the high pressure system carried autumn weather on Wednesday to the upper Ohio Valley and central Appalachians through New England. Freezing a.m. temperatures gripped the north central mountains of Pennsylvania, where Philipsburg and Bradford, at 30°, vied for the low for the Nation.

Scattered severe weather marred the afternoon weather scene when it erupted in the Midwest and South. With renewed strength, thunderstorms kicked up a tornado in Springfield, Mo. that destroyed 5 homes, damaged 22 others, and left 5 persons injured. Elsewhere thunderstorms spotted the Gulf and south Atlantic Coasts and the middle Mississippi and western Ohio Valleys.

By sunrise Thursday, however, thunderstorms and heavy rains diminished in the Midwest. Signs of fall turned up in the upper Mississippi Valley and northern Plains. Behind the cold front, morning minimums dipped into the 30's in parts of North Dakota and the first snowfall blanketed the Black Hills of South Dakota. Later on, however, the cold Canadian Air gave rise to heavy thunderstorms, some frost, and a few damaging windstorms as it streamed through the central Plains toward the middle Mississippi Valley.

Over the weekend Florida and south central Texas were the only areas to escape the unseasonably

cold air that spread across the eastern two-thirds of the Nation. West of the Divide, warm air settled over the Pacific Northwest and fair skies and highs in the 80's and 90's favored California.

Friday morning's mercury dipped into the 30's and a few 20's through the northern Rockies and upper Great Lakes. Some daily record lows: Omaha, Nebr. 37°, Sheridan, Wyo. 37°, and Kansas City, Mo. 45°.

Centered over Nebraska the cold air pushed southward. Clouds moderated temperatures in the central Plains but clear skies let the mercury slip into the freezing range in North Dakota, Minnesota, Wisconsin, and Michigan. Moderate to heavy rains persisted along the cold front from New England through the middle Mississippi Valley and through Texas into New Mexico.

On Saturday morning clear skies continued over the northern tier of States. The result--more record lows in the upper Mississippi Valley and Great Lakes region. Precipitation diminished considerably. Some rains, though, fell over much of Oklahoma into parts of Texas and from northeast Michigan through the lower Great Lakes into north New England.

Morning temperatures on Sunday slipped even lower in the Northeast, but remained above normal for mid-September over the West Coast States. The cold air chilled a number of spots to record low levels as it headed eastward: Detroit, Mich. 37°, Toledo, Ohio 31°, and Atlantic City, N.J. 37°.

Then a warming trend pushed afternoon highs into the 60's in the upper Great Lakes region and from the mid 70's to mid 80's in Minnesota and the northern Plains.

In central U.S. warm air flowing northward across the cool air produced occasional rain and drizzle from southwest Texas into northern Missouri and western Illinois.

## NATIONAL AGRICULTURAL SUMMARY

For the Week of September 8-14

**HIGHLIGHTS:** Subnormal temperatures across much of the eastern half of the Nation brought scattered frost as far south as northern Illinois and Indiana. Frost damage to row crops was insignificant in most areas although there was some loss in low lying sections. Spring wheat harvest gained momentum in the near rain-free Northern Plains and Pacific Northwest.

**SMALL GRAINS:** Favorable weather and conditions aided small grain harvest in most Northern States.

Winter wheat combining was in the final stage in all States. Harvest was 90% done in Montana and 75% in Idaho.

Spring wheat harvest reached 86% completion by September 14th, much behind normal. Combining made normal progress in most remaining areas and was 60% done in Montana; 88% in North Dakota; and 90% in Minnesota.

Seeding of the 1976 winter wheat crop was over 10% finished by September 14th. In Kansas 10% was in the ground, about normal. In Texas only 13% had been seeded, much behind the normal 49%; and 6% in Oklahoma, behind the usual 12%.

**CORN:** Development of corn continued at an excellent pace, despite subnormal temperatures over the major producing areas. Frost damage was light, except in low lying areas in several northern States. Harvest of this year's corn for grain made good progress with about 5% out of the field.

In the North Central States, nearly two-thirds of the corn was mature and safe from frost, about double the progress of the 1974 crop. In Illinois, corn was 90% mature versus 39% in 1974 and average 53%. The Iowa crop was 72% safe from frost, compared with 42% in 1974 and a usual 57%. Corn was 55% mature in Ohio and 40% in both Indiana and Nebraska. Harvest started in Nebraska and Ohio, continued in Indiana, was 5% finished in Illinois, and 15% complete in Missouri.

Corn harvesting continued in the South where the weather permitted. In North Carolina, 22% was harvested, 24% in Alabama, 25% in Georgia, 30% in Texas, and 43% in South Carolina.

**COTTON:** Cotton condition continues mostly fair despite cooler temperatures and high insect populations.

Cotton harvesting started in Arkansas, Georgia, and North Carolina and was 14% finished in Texas, where normally 17% has been harvested. Harvest was delayed in the Texas Lower Rio Grande Valley and Coastal Bend areas but made satisfactory progress in the Blacklands and South Central.

Boll opening continued to progress ahead of 1974 and normal in South Carolina and Tennessee, but behind in Alabama, Arkansas, and Mississippi.

Cotton picking started in the California Desert area. In central Arizona final irrigation was being applied and preparations for harvest were underway. Forty percent of the bolls were open on the west side. Cotton continues late in New Mexico.

**SOYBEANS:** Soybean development continued at a steady pace even though cooler temperatures dominated much of the major growing area. Scattered light frost hit several States, but damage was insignificant in most regions.

In many areas of the North Central States, much of the crop has leaves shedding and early fields have reached maturity. In Illinois, 60% of the soybeans were shedding leaves against only 10% in 1974 and normal 21%; 8% of the crop was harvested, much ahead of 1974 and average. In Iowa, 30% of the soybeans were shedding leaves versus 17% in 1974 and a usual 33%. Soybeans were 20% mature in both Ohio and Minnesota; 12% in Missouri; and 10% in Indiana. Harvest was also underway in Ohio; 5 days ahead of average in Indiana and 3% finished in Missouri.

Rain improved soybean prospects in Arkansas and early fields are maturing rapidly throughout much of the Southern growing area.

**OTHER CROPS:** Sorghum harvest reached completion from the Texas Blacklands south and was making excellent progress in the southern Low Plains and Cross-Timbers. Early harvest started on the High Plains. Harvest was 5% finished in Kansas; 13% in Oklahoma; and 17% in Missouri. In Nebraska, 35% of the crop was ripe.

Flue-cured tobacco harvest was virtually complete in North Carolina and 54% of the Burley crop had been harvested. In Kentucky, Burley was 61% cut and Darks were 57%, both ahead of average.

Peanuts were 40% dug and 26% threshed in Georgia; 42% dug and 31% combined in Alabama and 13% harvested in Oklahoma, 27% in Texas, and 41% in Mississippi.

Potato harvesting started in southwest Idaho, the Red River Valley of Minnesota, and North Dakota; digging for processing was underway in Aroostook County, Maine; and total harvest was 45% finished in Ohio.

Rice harvest started in California; was 14% done in Arkansas; 78% in Louisiana; and 97% in Texas.

**FRUITS AND NUTS:** Harvest of early Delicious apples was active in Washington and harvest of other varieties continued in full swing in most Northern States where color improved. Grape harvest accelerated in New York as more varieties matured. In California, harvesting of Tokay and other table grapes was active. Scattered rains fell in the southern half of the San Joaquin Valley, with over 50% of the raisin crop on the ground.

**VEGETABLES:** Harvest of fresh market and processing vegetables was on the decline in New York, but the fall vegetable harvest was active in New Jersey and Oregon. In California, moderate supplies of cantaloupe, carrots, celery, lettuce, and sweet corn were available. Vegetable plantings continued active in Florida, but wet weather slowed seeding in several Southern areas of Texas.

**PASTURES AND LIVESTOCK:** Pastures and fall grazing continue to gain over much of the Eastern half of the Nation and Pacific Northwest as soil moisture supplies improve. Hay making continues active in many areas where earlier adverse weather affected supplies. Supplemental feeding is necessary in some areas of Nebraska to offset short pastures and range feed. Livestock remain in mostly good condition throughout the Nation.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Sept. 14, 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 . . .	74	-1	.1	-.8	La. Baton Rouge . . .	79	0	2.7	+1.8	Youngstown . . .	57	-7	1.3	+.7
Mobile . . .	80	+1	.6	-1.1	Lake Charles . . .	78	-1	1.1	+.1	OKLA. Okla. City . . .	67	-7	1.4	+.6
Montgomery . . .	80	+3	2.4	+1.3	New Orleans . . .	78	-1	1.4	0	Tulsa . . .	71	-4	1.9	+.9
ALASKA Anchorage . . .					Shreveport . . .	77	-2	.1	-.6	OREG. Astoria . . .	62	+3	0	-.5
Barrow . . .	30	-2	.2	+.1	MAINE. Caribou . . .	54	-2	1.3	+.5	Burns . . .	69	+9	T	-.1
Fairbanks . . .	47	0	T	-.3	Portland . . .	55	-5	.9	+.2	Medford . . .	74	+8	.6	+.5
Juneau . . .	53	+3	1.6	0	MD. Baltimore . . .	64	-9	.5	-.3	Pendleton . . .	72	+6	0	-.1
Kodiak . . .					MASS. Boston . . .	63	-3	1.0	+.2	Portland . . .	71	+8	0	-.3
Nome . . .	40	-4	.4	-.2	Chatham . . .	59	-9	1.0	---	Salem . . .	68	+5	0	-.1
ARIZ. Flagstaff . . .	59	0	.4	0	MICH. Alpena . . .	51	-7	.4	-.4	PA. Allentown . . .	60	-6	1.7	+.8
Phoenix . . .	86	+1	T	-.2	Detroit . . .	56	-9	1.0	+.5	Erie . . .	58	-5	.3	-.1
Tucson . . .	80	-1	.4	0	Flint . . .	54	-8	.2	-.4	Harrisburg . . .	62	-7	.4	-.2
Winslow . . .	68	-5	.3	+.1	Grand Rapids . . .	54	-10	.1	-.7	Philadelphia . . .	66	-4	.9	+.2
Yuma . . .	86	-3	0	-.1	Houghton Lake . . .	50	-8	.2	-.6	Pittsburgh . . .	57	-8	.7	+.1
ARK. Fort Smith . . .	71	-4	1.0	+.2	Lansing . . .	53	-10	.1	-.5	Scranton . . .	57	-7	1.3	+.6
Little Rock . . .	71	-4	.5	-.3	Marquette . . .	51	-7	.9	+.1	R.I. Providence . . .	60	-5	1.2	+.4
CALIF. Bakersfield . . .	82	+4	T	0	Muskegon . . .	55	-8	.1	-.7	S.C. Charleston . . .	78	+2	1.2	+.1
Eureka . . .	55	-2	T	-.1	S. Ste. Marie . . .	48	-9	1.8	+.8	Columbia . . .	76	0	.6	-.5
Fresno . . .	75	0	.2	+.2	MINN. Duluth . . .	48	-8	T	-.8	Greenville . . .	72	-1	2.5	+1.6
Los Angeles . . .	68	-5	0	-.1	Internatl Falls . . .	47	-7	.1	-.7	S.D. Aberdeen . . .	60	-1	.2	-.4
Red Bluff . . .	79	+2	T	-.1	Minneapolis . . .	58	-3	.4	-.3	Huron . . .	59	-3	0	-.3
San Diego . . .	68	-2	T	0	Rochester . . .	55	-5	.1	-.7	Rapid City . . .	59	-1	T	-.3
San Francisco . . .	61	-4	T	0	St. Cloud . . .	54	-5	.6	-.1	Sioux Falls . . .	59	-3	.2	-.5
Stockton . . .	72	-1	T	0	MISS. Jackson . . .	76	-1	0	-.8	TENN. Chattanooga . . .	71	-2	.6	-.3
COLO. Denver . . .	61	-3	.1	-.2	Meridian . . .	78	+1	.7	-.1	Knoxville . . .	71	-2	1.1	+.4
Grand Junction . . .	66	-1	.2	0	MO. Columbia . . .	63	-7	2.8	+1.7	Memphis . . .	73	-2	1.4	+.4
Pueblo . . .	66	-2	.1	-.1	Kansas City . . .	64	-6	3.6	+2.6	Nashville . . .	70	-4	.5	+.1
CONN. Bridgeport . . .	64	-4	.9	0	St. Louis . . .	65	-6	1.1	+.4	TEX. Abilene . . .	70	-7	1.5	+.3
Hartford . . .	60	-4	.9	0	Springfield . . .	64	-7	6.3	+5.3	Amarillo . . .	64	-7	.2	-.3
D.C. Washington . . .	68	-4	.5	-.3	MONT. Billings . . .	62	+2	0	-.4	Austin . . .	78	-2	.3	-.6
FLA. Apalachicola . . .	79	-1	1.7	-.7	Glasgow . . .	58	-1	0	-.2	Beaumont . . .	80	0	.3	-1.0
Daytona Beach . . .	80	0	4.1	+2.4	Great Falls . . .	59	+1	0	-.3	Brownsville . . .	81	-1	1.4	+.1
Ft. Myers . . .	82	0	3.5	+1.3	Havre . . .	58	0	T	-.3	Corpus Christi . . .	82	0	4.4	+3.2
Jacksonville . . .	80	+1	.9	-1.0	Helena . . .	57	0	0	-.2	Del Rio . . .	76	-5	.4	-.3
Key West . . .	83	-1	.5	-1.2	Kalispell . . .	59	+4	0	-.3	El Paso . . .	72	-4	2.1	+1.8
Lakeland . . .	81	0	.3	-1.2	Miles City . . .	63	+2	T	-.3	Fort Worth . . .	77	-2	1.1	-.6
Miami . . .	82	0	1.3	-.7	Missoula . . .	60	+3	0	-.3	Galveston . . .	80	-1	1.4	0
Orlando . . .	81	0	1.2	-.6	NEBR. Grand Island . . .	63	-3	.1	-.5	Houston . . .	78	-2	.2	-.9
Tallahassee . . .	80	+1	.8	-.9	Lincoln . . .	64	-3	.3	-.4	Lubbock . . .	65	-7	1.7	+1.2
Tampa . . .	83	+2	2.9	+1.3	Norfolk . . .	62	-3	.1	-.5	Midland . . .	69	-8	2.5	+2.1
W. Palm Beach . . .	81	-1	3.3	+1.0	N. Platte . . .	59	-5	.3	-.2	San Angelo . . .	71	-7	1.2	+.6
GA. Atlanta . . .	74	0	.2	-.6	Omaha . . .	63	-3	.1	-.7	San Antonio . . .	79	-1	T	-.9
Augusta . . .	75	0	.9	+.1	Valentine . . .	60	-3	.2	-.2	Victoria . . .	81	0	1.8	+.7
Macon . . .	75	-2	T	-.8	NEV. Ely . . .	59	+1	.6	+.5	Waco . . .	79	-1	T	-.8
Savannah . . .	78	+1	1.0	-.4	Las Vegas . . .	79	-3	.3	+.2	Wichita Falls . . .	69	-10	3.4	+2.7
HAWAII. Hilo . . .	75	-1	.5	-1.2	Reno . . .	71	+9	.9	+.8	UTAH. Blanding . . .	61	-4	.2	0
Honolulu . . .	79	-2	.1	0	Winnemucca . . .	67	+6	.2	+.1	Salt Lake City . . .	70	+3	1.1	0
Kahului . . .	77	-2	T	-.1	N.H. Concord . . .	54	-7	.5	-.3	VT. Burlington . . .	56	+5	1.4	+.7
Lihue . . .					N.J. Atlantic City . . .	60	-9	1.3	+.5	VA. Lynchburg . . .	67	-2	.9	+.1
IDAHO. Boise . . .	72	+7	T	-.1	Trenton . . .	63	-6	.5	-.3	Norfolk . . .	70	-3	.2	-.8
Lewiston . . .	71	+6	0	-.1	N.MEX. Albuquerque . . .	66	-6	.5	+.3	Richmond . . .	68	-4	.5	-.4
Pocatello . . .	67	+6	0	-.1	Roswell . . .	57	-5	2.2	+1.8	Roanoke . . .	67	-2	.2	-.6
ILL. Cairo . . .	69	-4	2.9	+1.1	N.Y. Albany . . .	68	-5	.6	-.2	WASH. Colville . . .	62	+2	0	-.2
Chicago . . .	60	-7	T	-.7	Binghamton . . .	54	-8	1.0	+.3	Omak . . .	67	+3	0	-.1
Moline . . .	61	-5	T	-.9	Buffalo . . .	57	-6	.3	-.5	Quillayute . . .	60	+2	T	-1.0
Peoria . . .	62	-5	.2	-.7	New York . . .	64	-5	.7	-.1	Seattle-Tacoma . . .	66	+5	0	-.4
Rockford . . .	66	-9	T	-1.0	Rochester . . .	58	-6	.6	0	Spokane . . .	65	+4	0	-.2
Springfield . . .	55	-4	.9	+.1	Syracuse . . .	56	-8	2.4	+1.8	Walla Walla . . .	71	+4	0	-.2
IND. Evansville . . .	67	-4	1.4	+.7	N.C. Asheville . . .	68	0	.6	-.2	Yakima . . .	66	+3	0	-.1
Ft. Wayne . . .	59	-7	1.7	+1.1	Charlotte . . .	72	-1	.3	-.5	W.Va. Beckley . . .	60	4	1.3	+.5
Indianapolis . . .	62	-6	1.5	+.8	Greensboro . . .	71	0	1.5	+.7	Charleston . . .	64	-5	1.4	+.7
South Bend . . .	59	-6	.1	-.6	Hatteras . . .	76	+1	.1	-1.3	Huntington . . .	66	-3	.7	0
IOWA. Burlington . . .	63	-4	.3	-.6	Raleigh . . .	71	-1	.7	-.2	Parkersburg . . .	62	-7	1.3	+.6
Des Moines . . .	62	-4	.3	-.5	Wilmington . . .	76	0	.7	-.7	WIS. Green Bay . . .	51	-9	1.4	+.6
Dubuque . . .	56	-7	.1	-1.0	N.DAK. Bismarck . . .	57	-2	0	-.3	La Crosse . . .	56	-7	.7	-.1
Sioux City . . .	62	-3	.6	-.1	Fargo . . .	55	-4	0	-.5	Madison . . .	55	-6	T	-.8
KANS. Concordia . . .	65	-4	.6	-.2	Williston . . .	56	-2	T	-.3	Milwaukee . . .	56	-6	T	-.8
Dodge City . . .	68	-2	.1	-.3	OHIO. Akron-Canton . . .	57	-8	1.3	+.7	WYO. Casper . . .	59	-1	T	-.2
Goodland . . .	65	-1	.1	-.3	Cincinnati . . .	63	-6	2.0	+1.4	Cheyenne . . .	57	-3	.1	-.2
Topeka . . .	65	-5	2.0	+1.2	Cleveland . . .	62	-5	1.7	+1.1	Lander . . .	61	+1	.3	+.1
Wichita . . .	67	-5	.1	-.8	Columbus . . .	62	-5	1.7	+1.1	Sheridan . . .	60	+1	0	-.1
KY. Lexington . . .	74	+4	1.8	+1.2	Dayton . . .	62	-6	1.7	+1.1	P.R. San Juan . . .	83	+2	.4	-1.1
Louisville . . .	67	-4	.5	-.2	Toledo . . .	55	-10	1.2	+.6					

Based on 1941-70 Normals

The Weekly Weather and Crop Bulletin is published by the National Weather Service, NOAA, and Statistical Reporting Service, USDA.  
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prepared by Dr. Richard E. Felch, agricultural climatologist, Lyle M. Denny, Orus W. Byrd, meteorologists, DeLon Brown, agricultural statistician, and Susan E. Atkins, editor.

## 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:** Weather warm and humid with scattered thundershowers from early week till 12th, when clear weather and below normal temperatures occurred.

Principle activities as the weather permitted included: Harvesting corn, peanuts and a few fields of soybeans and cotton, spraying pesticides readying harvest equipment, preparing and seeding fall and winter crops and haying. The good to excellent corn crop 77% mature and 24% harvested for grain; last year 83% mature and 17% harvested. Soybeans in good condition 33% turning yellow, 9% mature; 1974, mature 23%. Cotton in fair condition; 11% bolls open, 1974 16%. Peanuts in good condition; 42% dug, 31% combined. Hay harvest 84%. Soil moisture short to adequate.

**ALASKA:** Tanana Valley: Average temperatures slightly above normal. Generally cloudy week. Dry over west half of valley and wet east. Matanuska Valley: Temperatures slightly below normal. Much cloudy weather and a very wet week. Kenai Peninsula: Temperatures below normal. Light frost midweek. Very wet cool week. Kodiak: Near normal temperatures and precipitation a little below normal.

Cool wet weather prevailed, hampering all crop harvesting. Only a small amount of grain has been combined with very high moisture content. Potato harvest about 25% completed, wet fields slowing digging. Ground moisture supply adequate in Tanana Valley, but surplus in Matanuska Valley and Kenai Peninsula.

**ARIZONA:** Showers most areas, heaviest east. Temperatures 2 to 4° below normal.

Cotton fair to good; final boll setting; preparation harvest. Central areas final irrigations; good condition west, 40% open. Grain sorghum good progress west, harvest early fields. Harvest alfalfa seed complete west. Irrigation alfalfa hay, renovation some fields. Lettuce good progress Cochise County. Other lettuce, mixed vegetables good progress central, west. Melons fall harvest Salt River Valley, favorable progress. Limited lemon harvest Yuma County. Range condition mostly fair. Ranchers culling herds. Sheepmen buying feeder lambs for winter pasture.

**ARKANSAS:** Warm temperatures early dropped significantly late. Extremes: 93 and 43°. Rainfall occurred throughout, greatest amount 4.70 in. Amounts more than 2.00 in. common north half, lesser amounts elsewhere.

Soil moisture adequate. Fieldwork 4.5 days included harvesting rice, sorghum, hay, preparing small grain land. First cotton ginned; 12% bolls open, 15% 1974; defoliation underway. Showers filled immature bolls and started second growth. Serious bollworm and weevil infestations. Rice combining 14% complete, 6% 1974. Showers and wind lodged some rice, slowed harvest. Soybeans maturing rapidly; rains improved prospects. Early varieties filling pods, showing leaf yellowing. Late beans bloomed profusely. Sorghum combining 39% complete. Wheat planted for grazing. Rains improved regrowth of Bermuda and native grasses. Hay cutting continued. Grasslands provided adequate forage, few pastures overstocked. Cattle making good gains. Delicious and Jonathan apples being picked. Grape harvest continued.

**CALIFORNIA:** Scattered showers and thundershowers southeast deserts, central, Sierra Nevada and northern mountains. Cooling early week inland north and central, otherwise little change. Extremes: 50's and near 100°.

Some damage hay, dry beans from showers. Planting small grain started. Cotton picking started desert. Rice harvest started. Milo harvest increasing Desert. Field corn maturing. Cutting dry beans increasing. Safflower harvest complete some areas. Stone fruit harvest declining seasonally. Bartlett pear harvest virtually complete, winter pear harvest continues. Prune picking active. Almond shaking increasing. Walnut harvest underway San Joaquin Valley and south. Scattered rain south half of San Joaquin Valley on 13th with over 50% raisin crop on ground. Damage expected slight to moderate. Tokay and other table grape harvest continues. Wine grape harvest increasing, some north coast wineries crushing. Apple picking increasing. Fig harvest slow. Valencia orange season approaches completion. Lemon harvest started Coachella Valley; Riverside grapefruit harvest near end. Avocado harvest seasonally active. Broccoli, cauliflower, carrots continue moderate Salinas; cantaloup at Firebaugh-Mendota; celery San Luis Obispo; sweet corn Orange County. Honey dew winding down Yuba City. Lettuce heavy Salinas. Potato full swing Shasta. Market tomato continues Orange County; canning tomatoes continues Sacramento Valley, completed Madera. Livestock doing well, calving underway.

**COLORADO:** Temperatures 1 to 4° below normal east. Near or above seasonal mountains and west. Precipitation range 0.20 in. Arkansas and Platte River basins, 0.75 in. Colorado and Rio Grande Basins.

Corn silage 30% harvested, 46% 1974, 33% average. Corn for grain 92% dough stage; 67% dented. Dry beans 37% cut, 15% threshed. Winter wheat 53% seeded, 40% 1974, 36% average. Topsoil moisture remains short. Sorghum 90% headed, 61% colored. Third cutting alfalfa 26%, spring barley 75% harvested. Ranges and pastures good except southeast. Livestock good condition.

**FLORIDA:** Normal summer time weather except for a cool front in central peninsula on 14th. Temperatures averaged near normal except slightly below normal north over weekend. Rainfall generally moderate, but excessive amounts of 4.00 to 6.00 in. central.

Field crops mostly good condition, except soybeans fair. Corn and peanut harvest full swing. Sugarcane being cut for seed. Haymaking active. Land being prepared for fall grains and winter grazing. Pastures good to excellent condition. Cattle and calves good condition. Citrus grove conditions excellent. Soil moisture short to adequate, some irrigation. Grapefruit harvest active. Growing conditions and plant growth all vegetable crops good to excellent. Planting active. Tomatoes light bloom evident. Light harvest underway, cucumbers, squash.

**GEORGIA:** Moderate to heavy showers produced 1.00 to 3.00 in. of rain over most areas. Extreme southeast and near the southwest border being drier with only 0.50 in. Temperatures averaged 1 to 2° above normal most areas. Showers ended on 13th with fair and cooler 14th.

Soil moisture varied, mostly adequate. Fieldwork very active with 5 days suitable. About 20% peanut crop harvested during period, now 40% dug, 26% threshed, 1974 29% and 17%, average 67% and 54%; condition and yields good. Corn 25% harvested, 1974 16%, average 14%, condition good. Cotton fair to good, less than 1% harvested, 1974 2%, average 7%. Soybeans fair to mostly good, many insects, harvest barely begun. Tobacco marketing continued, most stalks destroyed. Pecans declined, mostly fair to good, no harvest. Small grains 2% seeded. Haying and silage active between showers. Pastures fair to good. Cattle and hogs good. Northern area apple harvest active.

**HAWAII:** Growing conditions favorable for crop growth. Some light showers fell in windward areas of all Islands. Most fruit and vegetable plantings required heavy irrigation. Sugar plantations on Kauai continue to ration irrigation water. Vegetable supplies adequate. Melon production up from late crop. Banana production moderate to heavy. Papaya production increasing. Some pastures in Kauai remain poor. Pineapple harvesting further decline. Sugar harvesting steady.

**IDAHO:** Warming trend end week. Temperatures 2 to 5° above normal most areas. Highs 80's, lows 40's. Limited precipitation.

Favorable weather good crop development. Harvesting operations good progress. Small grain harvest full swing, except higher elevation fields. Potato crop developed well, some growers roll vines and spraying to kill vines. Powdery mildew sugarbeets southwest and south central. Winter wheat 75% harvested, 100% 1974. Spring wheat 70% harvested, 90% 1974. Hops 30% harvested, 45% 1974. Onions 35% harvested, 25% 1974. Potato harvest started limited scale southwest, active most areas in 2 weeks. Winter wheat 20% seeded, 15% 1974. Winter barley 10% seeded, 5% 1974. Pastures and ranges drying out, providing adequate forage. Cattle move off ranges.

**ILLINOIS:** Temperatures 4 to 9° below normal. Scattered frost north 13th. Precipitation under 0.10 in. north, 2.75 in. south.

Corn mostly good to excellent; 90% mature, 39% 1974, average 53%, 5% harvested, 0% 1974, average 1%. Soybeans mostly good to excellent; 87% turning yellow, 29% 1974, average 59%, 60% shedding leaves, 10% 1974, average 21%; 8% combined, 0% 1974, average 1%. Alfalfa hay mostly good to excellent; 3d crop 81% cut, 77% 1974, average 73%. Winter wheat seeding 4% complete, 4% 1974 and average. Pastures mostly good to excellent. Soil moisture 4% short, 82% adequate, 14% surplus. Fieldwork: 5 days suitable.

**INDIANA:** Some frost in low areas central and north but no significant damage as temperatures touched 32° at Goshen. Temperatures averaged 5° below normal. Some high 80's early week. Rainfall 1.00 in. north, 1.30 in. central, 1.50 in. southwest, and 2.50 in. southeast.

Fieldwork averaged 5 days. Topsoil and subsoil moisture mostly adequate. Corn harvest starting. Corn 40% mature, 1974 10%, average 30%. Soybean combining started two weeks ahead of 1974, 5 days ahead of average. Soybeans 10% mature. Wheat land 65% plowed, same as 1974 and average. Silos 45% filled, 1974 20%. Tobacco 35% harvested, 1974 25%, 1973 40%. Pastures fair to good.

**IOWA:** Temperatures 4° below normal with abrupt change to colder late in week. Seasons first frost and freezing temperatures 12th north, 13th northeast. Several record minima. Rainfall below normal despite scattered showers, thunderstorms 10th, 11th; 0.50 in. west to 1.00 in. south, few locally heavy amounts.

Scattered light frost morning 12th caused little or no damage. Need 1 to 4 week frost free weather for crops to be safe from frost. Amount of field loss from lodging unknown. Condition fair to good; 94% dented, 71% 1974; 72% safe from frost, 42% 1974, 57% average. Soybeans 72% leaves turning, 40% 1974; 30% shedding leaves, 17% 1974, 33% average; condition mostly good. Third cutting alfalfa 71% harvested. Winter wheat 15% planted. Hay, pasture condition improved mostly good. Soil moisture adequate. Fieldwork average 5.5 days suitable.

**KANSAS:** Temperatures averaged near normal northwest to 2 to 4° below normal central and east, all areas from 5 to 10° below normal after 10th. General rains 1.00 to 2.00 in. east 10th locally 3.00 to 4.00 in. Spotty precipitation in west.

Corn 50% mature, same as 1974 and average; 10% harvested, 5% in 1974 and average. Sorghum grain 25% mature, 10% 1974, 20% average; 5% harvested, same as 1974 and average. Wheat planted, 10% same as 1974 and average. Alfalfa harvested 3d cutting, 95% complete. Fourth cutting 20% completed, 25% average and 1974. Alfalfa seeded, 70% completed. Barley seeded 5%, same as 1974 and average.

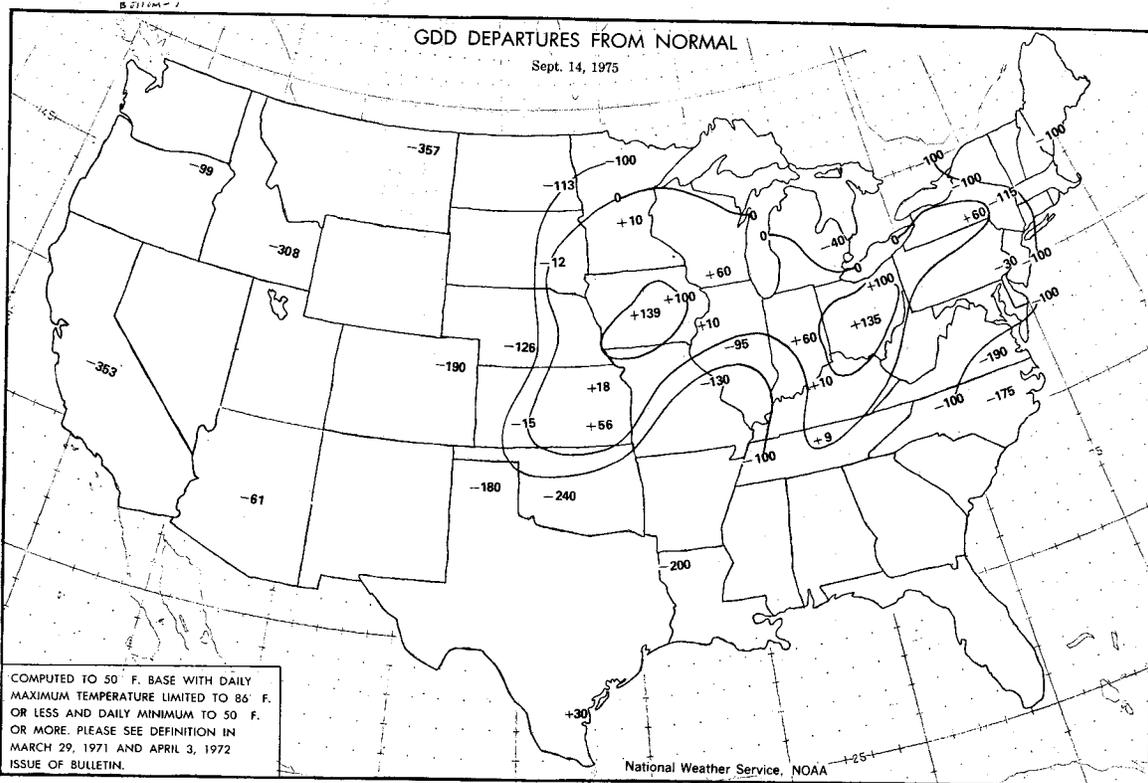
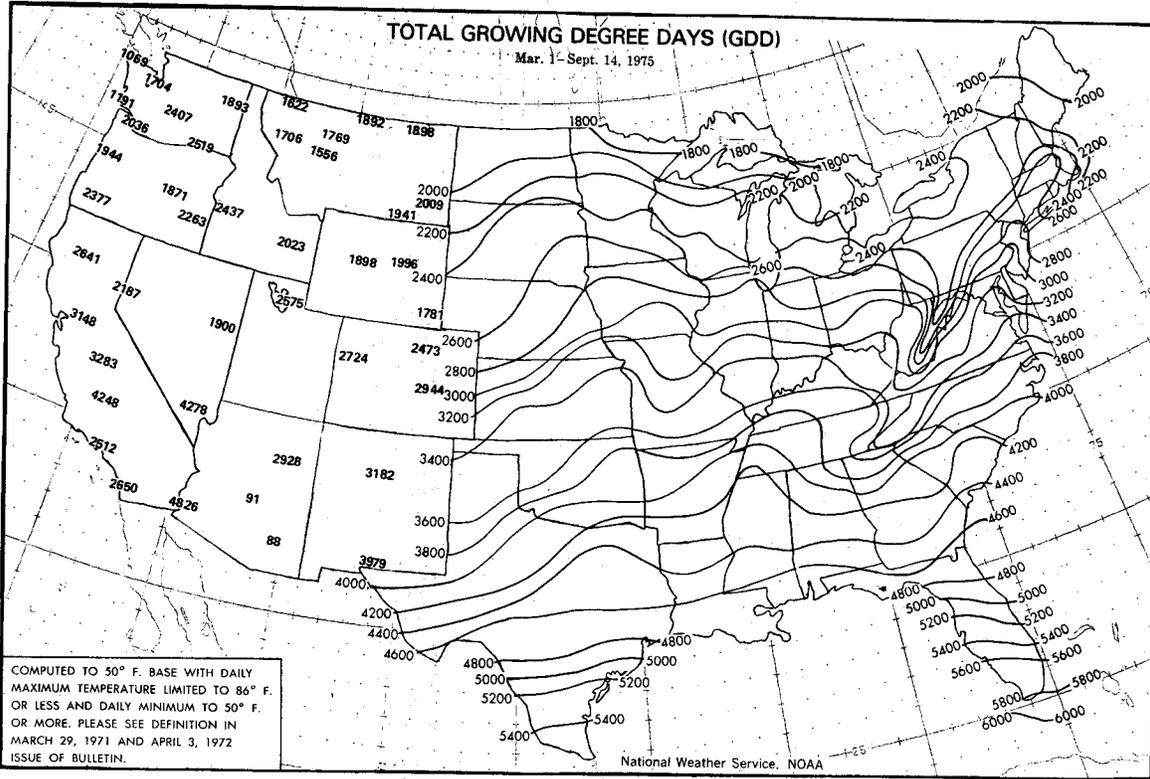
**KENTUCKY:** Warm and humid early week. Cold front 11th and 12th brought much colder air to State. Precipitation averaged 1.75 in. 11th and 12th. Temperatures 3 to 4° below normal.

Soil moisture 55% adequate, 39% short, 6% surplus. Farm work slowed by thundershowers, 4 days favorable. Farm work centered around tobacco harvest, haying and land preparation. Burley 61% cut, darks 57%; 1974, 42% and 56%; average, 51% and 57%. Houseburn below normal. Corn 35% mature, 1974 27%; average, 30%. Soybeans developing rapidly; shedding leaves 16% 1974 10%, average, 11%. Fall wheat seeding 5% complete. Pastures improved.

**LOUISIANA:** Temperatures normal southeast, 3 to 5° below north. Scattered showers south through 12th. Cool, dry weekend. Extremes: 96 and 53°. Greatest 1-day rain, 1.29 in. Slidell, 11th.

Fieldwork restricted south, elsewhere open; statewide 4.3 days fieldwork. Soil moisture short to adequate north, surplus south. Main activities: Insect control, haying, rice harvest, and sugarcane planting. Soybeans fair to good; early maturing varieties being harvested central and northeast; late beans need moisture north. Cotton fair; early planted maturing. Rice mostly good, 78% harvested, 87% 1974, 79% average; showers hampered harvest southwest, harvest beginning northeast. Corn and sorghum mostly good. Corn 50% harvested, yields fair to good. Grain sorghum worm damage moderate. Sugarcane stands and height good; borer infestation moderate to heavy; rains slowed planting. Sweetpotatoes mostly good; 33% harvested. Pecans maturing, hay harvest active. Pastures average. Cattle good.

**MARYLAND AND DELAWARE:** Temperatures averaged slightly below normal. Extremes: 90's and 40's.



Garrett County had low of 37°. Precipitation ranged from 0.08 to 2.13 in. Heaviest amounts occurred on Eastern Shore.

Corn 68% matured, 15% harvested. Corn for silage 50% harvested. Soybeans 21% yellowed, 6% shedding leaves, 2% 1974. Few early soybeans being harvested. Tobacco 70% harvested, 81% 1974, average 85%. Apple harvest active, peak expected near end of month.

MICHIGAN: Record low temperatures, -5 to -10° below normal. Scattered snow on 12th north of thumb. Precipitation 0.25 to 2.00 in.

Soil moisture surplus. Corn 90% dented; 50% 1974; 65% average. Corn silage 15%; 10% 1974; 20% normal. Soybeans 75% turning; 55% 1974; 65% normal. Dry beans 85% shedding leaves; 20% harvested in thumb; 30% central. Poor quality from rain. Potato digging half done in bay, 20% south. Potatoes flooded on many muck potatoes. Winter wheat 15% planted, 5% normal. Third cutting hay 25% done, 40% 1974, 35% normal. Summer apples virtually picked, fall apples underway south. Peaches and cantaloup 90%; pear and plums 66% done. Some peaches and plums spilt. Grape harvest south. Onions 30%, tomatoes 80% done and cracking. Ground vegetables rotting in places. Fieldwork 3 days.

MINNESOTA: Cold week with scattered light frost and brief freezing temperatures. No hard freeze or killing frost major agricultural areas. Temperatures 3 to 8° below normal. Extremes: 24 and 91°. Rainfall well below normal except lower southwest.

Row crop development advancing rapidly 1 week ahead of average progress. Corn 98% dented and beyond, 1974 74%, average 87%. Soybeans 61% shedding leaves and beyond, 1974 40%, average 53%. Light frost most areas late week, damage minimal and restricted to leaf injury in scattered low areas. Cutting corn for silage 40% completed. Almost 20% soybeans mature. A few fields of corn for grain and soybeans combined. Small grain harvest nearing completion but showers high humidity restricting field drying and combining. Quality of grain deteriorating in swath. Spring wheat 90% combined 1974, 69%, average 93%. Flaxseed harvest 60% complete. Fall potato digging fully underway south. Digging in Red River Valley 10% complete. Sugarbeet harvest started in Red River Valley on a limited scale. Sweet corn processing 85% completed. Dry edible bean harvest getting started in northern areas, 66% complete central.

MISSISSIPPI: Temperatures within 3° of normal. Extremes: 96 and 58°. Greatest 24-hour rainfall was 3.72 in. at Merrill on 7th.

Soil moisture mostly adequate. Fieldwork: 4.4 days suitable. Cotton 23% open bolls, 24% 1974, 25% average. Soybeans 96% setting pods; 37% turning, 25% 1974; 16% shedding, 11% 1974. Corn 44% mature, 7% harvested. Rice 91% headed, 42% mature. Sorghum 97% headed, 44% mature, 20% harvested. Sweetpotatoes 42%, peanuts 41%, hay crops 75%, corn silage 77%, sorghum silage 54% harvested. Cotton in poor to fair condition. Other crops mostly in fair to good condition.

MISSOURI: Temperatures 2 to 4° below normal except in Bootheel, 1° above. Precipitation heavy over State, ranging 1.25 in. northeast to 3.00 in. west Ozarks.

Soil moisture mostly adequate. Fieldwork 3 days. Corn 77% mature, 27% 1974, 15% harvested, 4% average. Soybeans 38% turning color, 13% 1974; 12% mature; 3% harvested. Cotton 32% open bolls, 9% 1974. Grain sorghum 59% mature, 33% 1974; 17% harvested. Third cutting alfalfa 84% complete.

MONTANA: Warm dry week. Temperatures averaged 3° above normal west to near normal elsewhere. Precipitation well below normal. Scattered frost noted most areas.

Winter wheat harvest 90% complete, normally complete September 1. Spring wheat 60% done, 1974 75% and normal 90%. Barley 50%, 1974 85%, normal 90%. Oats 60%, 85% 1974, normal 90%. Soil moisture adequate most areas for seeding winter wheat; about 20% now seeded, 1974 45%, normal 30%. Germination mostly good. Corn silage 20% cut. Dry beans 20% threshed. Second cutting alfalfa 60% done. Range feed and stockwater adequate. Nearly 10% cattle and 15% sheep moved from summer range.

NEBRASKA: Temperatures 10 to 15° above normal 9th and 10th; otherwise 2 to 5° below normal. Light rain general on 11th. Small local areas light frost on 11th.

Topsoil moisture supplies 73% short, 27% adequate. Subsoil moisture supplies 88% short, 12% adequate. Wheat ground preparation progressing. Planting started. Corn 40% mature, near normal, 1974 35%. Silage harvest continues. Some grain harvest started. Irrigated corn condition mostly good; dryland mostly fair. Sorghum condition mostly fair to good; 95% turned, 85% normal, 1974 70%; 35% ripe, normal 20%, 1974 25%. Soybean condition mostly fair to good; 75% of leaves turned, 55% 1974, near normal; 25% shed leaves, near normal, 20% 1974. Alfalfa hay mostly fair; 95% of 3d cutting harvested. Dry beans 50% harvested. Pasture and range feed supplies 84% short, 16% adequate. Some supplemental feeding.

NEVADA: Moderate to heavy precipitation all areas. Local areas flooding from heavy downpours at Pyramid Lake area southeastward to Las Vegas. Temperatures ranged from 4° above normal Las Vegas to 2° below Ely. Extremes: 98 and 32°.

Alfalfa hay harvested ranged 3d cuttings west to 6th cuttings extreme southern valleys. Limited movement livestock.

NEW ENGLAND: Showers produced 0.25 to 0.50 in. rain everywhere but eastern sections on 8th. Hail and rain to 1.50 in. 12th. Gale force winds along Eastern Coast. Temperatures below normal 9th through 11th. Early frosts north and west.

Silage chopping active early southern fields near complete. Combining oats, wheat and buckwheat in Maine progressing normally. Apple harvest underway all areas; color good. Early southern potatoes harvested, late still to start. Aroostook, Maine top killing potato vines; digging for processing underway. Haying as weather permits.

NEW JERSEY: Cold week with frost on 10th, 14th and 15th. Temperatures averaged 6 to 10° below normal. Extremes: 28° at Charlotteburg on 15th and 86° at Bridgeton on 8th. Rainfall averaged 1.07 in north, 0.66 in. central and 0.78 in. south. Heaviest 24-hour total 1.47 in. at Belvidere Bridge.

Estimated soil moisture in percent of field capacity averaged 85% north, 58% central and 60% south. Fall vegetable harvest active. Alfalfa hay 3d cutting nearing completion. Rye and barley planting active. Soil preparation underway for planting wheat. Sweetpotato harvest increasing. Apple harvest increasing. Peach harvest nearing completion. Cranberry harvest beginning.

NEW MEXICO: Heavy rains again during week. Heaviest amounts over western mountains, smallest amounts northeastern plains. Temperatures 2 to

5° below normal, coldest mornings observed on 13th.

Heavy rain most areas, moisture supplies mostly adequate. Cotton fair, 2 weeks late; well advanced boll setting. Alfalfa good, rain interrupted harvest; damaged hay many areas; 3d cut north, 4th south. Grain sorghum good, well advanced dough stage. Corn good, most areas well into dough stage; harvest corn silage. Winter wheat, barley seeding with limited emergence. Other crops good. Some apple harvest. Range mostly good, few dry areas. Livestock good, fair where ranges are dry.

NEW YORK: Temperatures below normal. Extremes: 84 and 31°. Rainfall heavy eastern finger lakes and northeast. Cool weather overspread State on 9th. Frost occurred northeastern areas on 10th and 14th. Wettest of period occurred 11th, 12th, 13th.

Cool, wet week delayed fieldwork. Frost on 9th and 10th with limited damage. Third cutting alfalfa hay harvest delayed, about 50% in. Corn silage harvest advanced to 20%. Fitting for wheat and some planting continues as conditions allow. Weather delayed dry bean harvest. Upstate potato harvest continues, good yield and quality. Late maturity delaying Long Island potato harvest, irrigation continues. Harvest of fresh market and processing vegetables declining. Kraut yields improved but below normal. Apple and grape harvest accelerating as more varieties mature. Apples are good quality and sizing well.

NORTH CAROLINA: First chill of autumn end of week. Temperatures averaged several degrees above normal except near normal in mountains through 12th. Precipitation totals averaged 1.00 to 2.00 in. above normal in mountains and western Piedmont. About 1.00 in. below normal over east, except where locally heavy thundershowers occurred.

Days suitable fieldwork 4.3. Soil moisture improved, 3% very short, 31% short, 62% adequate, and 4% surplus. Very little flue-cured tobacco remaining in fields. Burley tobacco harvest 54% complete, 1974 38%. Corn 22% combined, 1974 21%, average 15%. Cotton and peanut harvest light. Sweetpotatoes 17% dug, 1974 17%. Apples 32% picked, 1974 36%, average 40%. Condition apples and sweet potatoes fair to mostly good; corn, sorghum grain and cotton fair to good; soybeans and peanuts mostly fair to good. Pastures improved.

NORTH DAKOTA: Temperatures 3 to 6° below normal except northwest, which was normal. Precipitation 0.30 to 0.40 in. below normal. Weekend above normal temperatures.

Small grain harvest made normal progress. Hard spring wheat combining about 88% complete, 74% 1974, 87% average. Durum 79%, 47% 1974, 75% average. Oats 94%, 82% 1974, 93% average. Barley 97%, 80% 1974, 93% average. Potato digging and sugarbeet lifting beginning. Frost some areas affecting corn and soybeans. Silage cutting beginning. Livestock good condition.

OHIO: Early week temperatures near normal with highs in 70's and 80's. Weekend highs in 60's, lows in 30's. Heaviest precipitation 2.71 in. southwest; least 0.42 in. northeast.

Corn and soybean harvest started. Corn 55% mature and safe from frost, 30% 1974 and 35% normal. Soybeans 55% leaves shedding, 35% 1974 and 45% normal; 20% mature, 10% 1974 and normal. Winter wheat seeding less than 10% complete, 5% 1974 and 10% normal. Harvest completed: Corn si-

lage 45%, 30% 1974 and 35% normal; alfalfa hay, 3d cutting 75%, 65% 1974 and normal; tobacco 60%, 50% normal; potatoes 45%, 45% normal. Tomato harvest delayed by surplus moisture conditions. Soil moisture supplies 1% short, 46% adequate and 53% surplus. Fieldwork: over 4 days favorable.

OKLAHOMA: Temperatures averaged from normal to 3° below normal. Precipitation averaged from 0.01 in. Panhandle to 1.67 in. northeast. Weekend very cool and wet most areas.

Wheat land preparation active, 6% of State wheat seeded, lack of topsoil moisture hindered progress, 12% average. Rains over weekend should help most areas. All row crop development advanced significantly: Sorghums 13% harvested, 7% average; peanuts 19%, soybeans 16% mature, both 10% average. Corn slightly behind average; cotton one week behind average development with only 2% bolls open, 12% average. Fourth cutting alfalfa hay 55% complete, yields fair to good. Condition of ranges and cattle fell slightly, but still mostly good.

OREGON: Temperatures averaged 4 to 10° above normal. Extremes: 90's and 40's. No precipitation reported.

Fall grains 97% harvested. Spring grains 90% harvested. Some sprout damage in unharvested grain. Red clover seed harvest beginning. Fourth cutting hay continuing. Fall land preparation and seeding continuing. Bartlett pear harvest nearly finished. Winter pear harvest underway. Picking apples, peaches, blackberries. Walnuts and filberts look good. Sweet corn, green beans, broccoli, cauliflower, beets, carrots, cabbage being harvested. Potato harvest continuing in Hermiston, Ontario areas. Klamath Fall potato harvest late. High ranges good, low ranges poor to fair. Chaff being put up for winter feed. Cattle on stubble. Feed, water adequate. Cattle and calves good condition. Fire danger moderate.

PENNSYLVANIA: Week of contrasting weather conditions from sunny and warm early week to cool weekend. Extremes: 85 and 26°. Temperatures 2 to 10° subnormal. Rainfall from less than 0.50 in. lower and middle Susquehanna Valleys and along Lake Erie shore to over 3.00 in. Warren County, elsewhere mostly 0.75 to 1.50 in.

Soil moisture adequate, surplus north. Activities harvest of tomatoes, apples, potatoes, tobacco, hay making, filling silos, seeding winter wheat and barley. Tobacco 46% cut. Potatoes 43% dug, 1974 36%. Corn 19% mature; 58% dented; 1974 4 and 43% respectively. Ensilage 25% harvested, 1974 15%. Fall plowing 48%, on par with 1974. Barley 38% seeded, winter wheat 30%, each 6 days ahead of last fall. Alfalfa hay 2d cut done, 3d cut 66% complete. Clo-Tim 2d cut 89%. Hay quality mostly fair.

PUERTO RICO: Island average rainfall 1.04 in. Highest weekly total 3.52 in. at Gurabo. Highest 24-hour total 2.27 in. at Gurabo. Temperatures averaged about 82° on coasts and 76° interior. Extremes: 95 and 60°.

Favorable weather for development and planting of sugarcane except some north coastal and south coastal areas where more rain needed. Coffee harvest started, but slowed by rains. Soil moisture adequate for preparation of seedbeds. Planting, fertilizing and cultivating of pastures main activities. Recuperation noted all areas from recent rains except in Manati and Aguadilla where rain is badly

needed. Pastures suffering insect attacks. Cultivation and harvest of good variety of food crops under favorable weather.

**SOUTH CAROLINA:** Weather ranged from warmer than usual early, decidedly cooler late. Temperatures varied from 90's downward to 70's on 13th. Rain-fall occurred late week.

Crop condition improved for soybeans, pasture, sorghums, corn. Cotton remains in fair condition; farmers preparing for harvest. Cotton open bolls 43% 1975, 18% 1974, 35% average. Soybeans 25% turning color, 11% 1974, 13% average; shedding 8%, 4% 1974, 5% average. Corn harvest 43%, 33% 1974, 26% average.

**SOUTH DAKOTA:** Light frost occurred at widely scattered areas as temperatures dropped to near or slightly below freezing 12th. Temperatures averaged from 1° above to 9° below normal. Extremes: 97 and 27°. Only a few significant amounts of precipitation and these were in east central.

Some frost damage to corn in low lying areas scattered throughout north. Corn 89% dented, 1974 86%, normal 90%; 48% mature and safe from frost, 1974 39%, normal 60%. Cutting corn for silage made good progress. Sorghum 74% showing head color, 1974 72%, normal 76%. Soybeans 55% shedding leaves, 1974 66%, normal 66%. Fall seeding made excellent progress as seeding conditions were ideal. Winter wheat 71% seeded, 1974 52%, normal 57%. Winter rye 66% seeded, 1974 37%, normal 46%. Fall plowing 64% complete, 1974 61%, normal 61%. Livestock are generally in fair to good condition.

**TENNESSEE:** Precipitation averaged from less than 0.25 in. east to over 1.00 in. west. Temperatures averaged 1 to 4° below seasonal normals.

Rains boosted late crops and pastures, but too late for early crops and hay. Fall plowing 45% completed, 1974 38%, normal 51%; delayed by dry soil. Soybeans 3% mature, 1974 0%, normal 6%; west soybeans good, east poor. Cotton 25% open bolls, 1974 8%, normal 22%. Corn 8% harvested, 55% mature, ahead of 1974 and normal. Wheat 9% sown, 13% oats, 14% barley, same as 1974, but behind normal. Tobacco 79% harvested, 1974 59%, normal 75%. Late hay crop short or nonexistent.

**TEXAS:** Warm temperatures, early week. Cold front Panhandle 11th, dropped temperatures upper 50's; moved through remainder State during weekend. Rains most areas on 13th, continued throughout coast, central, west weekend. Precipitation above normal all but northeast. Temperatures range 9° below normal northwest to near normal far south.

Harvest cotton, corn sorghum, peanuts, making satisfactory progress. Completion cotton harvest delayed Lower Rio Grande Valley, Coastal Bend by recent heavy rains. Corn, sorghum harvest started High Plains, crop prospects excellent. Cotton harvest satisfactory progress in Blacklands, South Central. First bales ginned southern High Plains. Cotton making excellent progress High, Low Plains, but cold weather set crop back several days. Corn harvest nearing completion southern half, just getting started High, Low Plains. Yield prospects high, low plains excellent but high moisture content will delay harvest several weeks. Sorghum harvest reached completion from Blacklands south and making excellent progress southern Low Plains, Cross-Timbers. First loads cut on High Plains.

Major crops percent harvested: Cotton 14, 1974 20, average 17; corn 30, 1974 46, average 51; sorghum 61, 1974 53, average 49; peanuts 27, 1974 23, average 24; rice 97, 1974 92, average 86. Major crops percent planted: Wheat 13, 1974 29, average 49; oats 10, 1974 19, average 20.

High Plains: Bellpeppers, cabbage, cantaloups, cucumbers, early carrots being harvested. Trans-Pecos: Fall cabbage, lettuce being planted. Tomato picking continues. Green peppers continue make good development. San Antonio-Winter Garden: Cabbage, carrots, eggplant, early spinach emerged, making good growth. Laredo: Tomato crop planted. Lower Rio Grande Valley: Some cabbage damaged by heavy rains. Vegetable seeding at stand-still because continuing showers on saturated fields. Peppers, tomatoes making good progress. Pecan crop continues mature with harvest some early varieties expected shortly in south. Intermittent showers Lower Rio Grande Valley continue keep 1975-76 citrus crop excellent condition.

Grazing abundant most areas though moisture getting short. Rains provide excellent moisture, insure good grazing conditions through early fall. Livestock condition excellent. Precautions taken prevent screwworm cases.

**UTAH:** Scattered shower and thunderstorm activity most areas. Accumulated amounts moisture generally light but locally moderate to heavy. Average temperatures ranged from near normal to 4° above.

Harvest activities continue. Spring wheat harvest 75% complete, barley 76%, and oats 70%. Third crop alfalfa hay 18% harvested. Corn for silage mature slow. Dry onion and tomato harvest just beginning. Sweet corn harvest about 66% complete. Peach and pear harvest, 18%. Cattle and calf condition good. Very few sales of cattle. Lamb movement to out-of-State markets starting.

**VIRGINIA:** Rainfall averaged 0.50 in., most areas receiving measurable amounts. Temperatures slightly above normal early and midweek. Much colder over weekend. Extremes: 88 and 40°.

Favorable week. Fieldwork: 4.8 days suitable. Topsoil moisture good all areas, except southwest. Corn grain 11% harvested, slightly ahead normal. Silage harvest most common activity statewide, Flue-cured tobacco harvest 77% complete. Fire-cured tobacco 75% harvested. Rains improved Burley conditions slightly, harvest 63%. Sun-cured 61% harvested. Soybean little changed. Corn earworm infestation requiring spraying many farms. Peanuts improved maturity since early month. Late hay harvested. Pastures improved, favorable moisture. Apple harvest quick pace as principal varieties mature; 23% harvested, average 18%. Eastern Shore cucumbers and fresh market sweetpotatoes harvested. Southwest late fall cabbage cut, fall potatoes dug. Soils mostly good for fall plowing and land preparation. Seeding small grains started.

**WASHINGTON:** West: Temperatures ranged from normal to 6° above. No precipitation.

Harvesting: Vegetable seeds, blueberries, huckleberries, cauliflower and cucumbers. Trans-planting cabbage seed. Picking sweet corn but development delayed most areas. Green chopping corn and grass. Harvesting silage corn. Fall pasture excellent. East: Temperatures averaged 2 to 6° above normal. No precipitation.

Color development slow on Red Delicious; some sunburn damage. Picking in full swing. Also

harvesting early Golden Delicious, winter pears, sweet corn, silage corn, hops, dry beans, alfalfa seed and red clover. Digging potatoes. Peach harvest completed. Powdery mildew in sugarbeets under control. Late blight in potatoes reduced by warmer weather. Wheat, barley, lentil harvest winding down. Bluegrass fields drying. Other activities: Plowing, seeding, fertilizing, weeding. Cattle and ranges in good condition.

WEST VIRGINIA: Temperatures below normal north-west and north central, near normal elsewhere. Scattered light frost central and northeast. Precipitation below normal northeast and above normal elsewhere.

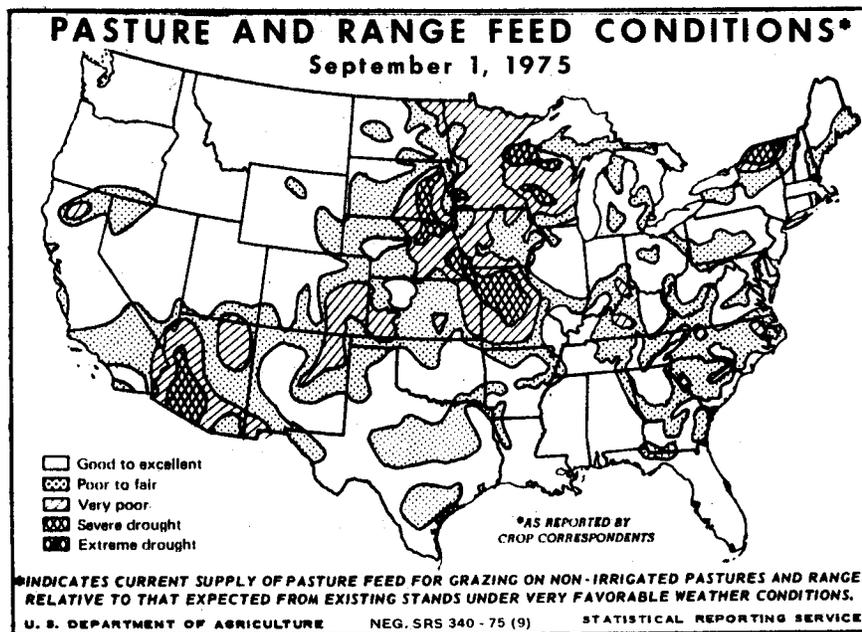
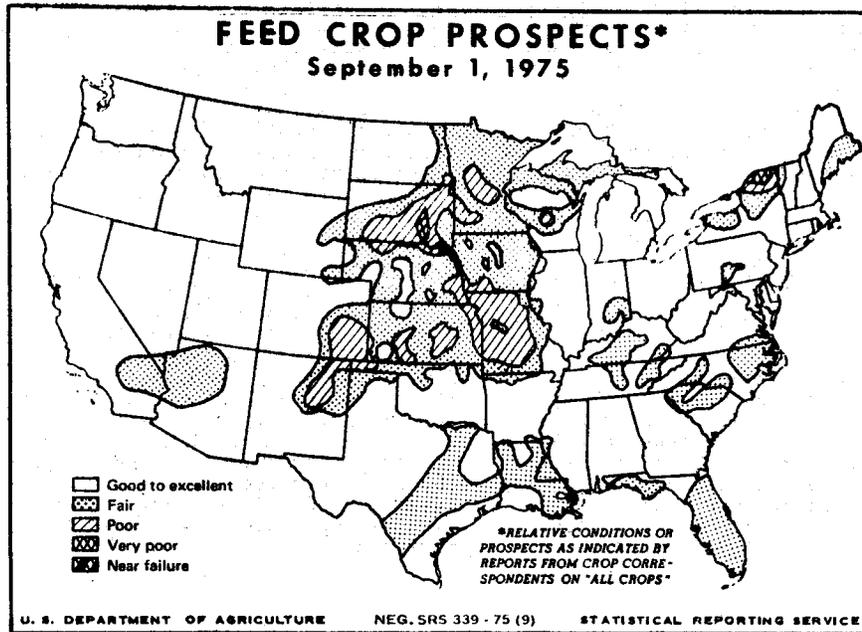
Favorable workdays 4.4. Soil moisture 13% short, 81% adequate and 6% surplus. Main fieldwork: haying, mowing pasture and filling silos. Potatoes 68% dug. Second cutting hay 84%, 3d cutting 46% complete. Tobacco harvested 69%. Corn good to fair; 18% dough, 53% dented and 29% mature. Pasture fair to good.

WISCONSIN: Temperatures averaged 10° subnormal. Cool early week, warmer at midweek, then sharply colder until 14th. Frost in extreme north 9th. Scattered frosts on 13th, but no extensive killing frost or major crop damage. Rainfall little or none south, but substantial elsewhere. Locally heavy rains of 5.00 in. Durand and Mondovi on 9th. Mixture rain and snow extreme north 11th. Corn crop nearing maturity; for grain 70%

safe from frost, 1974 25%, normal 40%. High moisture corn going in silos, limited picking of dry corn. Silo filling 12% done, 1974 10%, normal 15%. Good growth on hay with recent rains but harvesting difficult. Late 2d crop and 3d crop being cut. Hay supplies tight so more haying this fall than usual. Pasture improved for fall grazing. Winter grains being seeded and a little fall plowing going on. Soybeans improved with rains; 50% turning yellow, 1974 20%, normal 40%. Beans could use most of September to mature. Tobacco harvest well along as growers hurry to beat hard freeze. Harvesting of vegetables and potatoes ahead of 1974. Soil moisture 5% short, 65% adequate, 30% surplus.

WYOMING: Still very dry, only few areas with precipitation of any consequence, most less than 0.25 in. Temperatures slightly above seasonal normals.

Topsoil moisture very short east, short elsewhere. Subsoil moisture short. Harvest continued: Spring wheat and oats 85%, barley 80%, corn silage 10%, potatoes 5% completed. Dry beans windrowed 60% and combined 15%. Winter wheat 65% planted, 30% emerged. Haying progress: Second cutting alfalfa 85%, 3d cutting 25%, other hay 95%. Corn for grain 25% milk stage; 62% dough stage; 13% denting. Prospects for fall and winter grazing fair to good. Cattle and calves 20% contracted, 5% marketed. Sheep and lambs 25% contracted, 20% marketed.



**CROP OUTLOOK CONTINUES PROMISING**

Crop production prospects softened slightly during August but the outlook still indicates record levels for major commodities.

The Department of Agriculture's Crop Reporting Board, in its September summary, stated that corn and soybean development was much ahead of the 1974 pace and also doing better than in average years.

The latest production forecast for corn for grain, although 3% short of last month, continues record large at nearly 5.69 billion bushels. A harvest this size would be nearly 22% greater than a year ago.

Current corn prospects point toward an average national yield of 85 bushels to the acre, down about 2 bushels from a month earlier because of crop decreases in most western Corn Belt States. Last season the average yield was 71 bushels and in 1973 the average had been 91 bushels.

The 1975 soybean crop inched down 1% from the forecast presented in August, but the outlook is still for the second largest harvest ever. The estimate is for over 1.4 billion bushels, up 17% from last season.

Total feed grain production now is likely to finish the year with 201 million short tons, 22% ahead of a year earlier. The gain can be credited

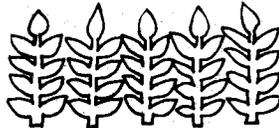
to upswings in all four of the grains. Aside from the boost in corn, sorghum grain is expected to advance 25%, barley 24%, and oats 9%.

The current view is that the total oilseed production level will be 49 million short tons, topping last season by 13%. Along with the rise in soybeans, the peanut crop is estimated to be 4% above last year's record harvest, and flaxseed production is likely to show a 21% gain. These increases will more than offset the downturn in cottonseed coming with the 19% drop in cotton production this year.

Production of wheat---winter, durum, and other spring---is indicated at a record 2.1 billion bushels, 19% greater than in 1974. Rice output is 9% over the record level set a year ago. These increases brought the good grain estimate to 71 million short tons, up 18%.

The 1975 sugarbeet crop is expected to amount to 28.2 million tons, 27% over last season, while sugarcane, at nearly 29 million tons, is 16% above a year ago.

An overview of this season's current crop production situation shows an index reading of 121, only 1 point below last month and continuing at a new record high.



**CORN FOR GRAIN**

	1974	1975 <sup>1/</sup>	% increase from 1974
	-----1,000 bu-----		
Ill.	830,830	1,171,500	41
Ind.	387,660	565,000	46
Iowa	948,000	1,032,000	9
Kans.	131,480	137,280	4
Mich.	110,410	141,960	29
Minn.	359,900	445,480	24
Mo.	149,050	170,100	14
Nebr.	380,800	503,100	32
Ohio	266,450	315,000	18
Wis.	154,360	197,400	28
U. S.	4,651,167	5,687,248	22

**SOYBEANS FOR BEANS**

	1974	1975	% increase from 1974
	-----1,000 bu-----		
Ark.	86,000	102,300	19
Ill.	207,515	286,650	38
Ind.	97,750	116,160	19
Iowa	199,080	215,450	8
Minn.	84,840	88,080	4
Miss.	46,713	64,680	38
Mo.	95,700	106,800	12
Ohio	79,750	97,650	22
U. S.	1,233,425	1,442,422	17

<sup>1/</sup>As of September 1

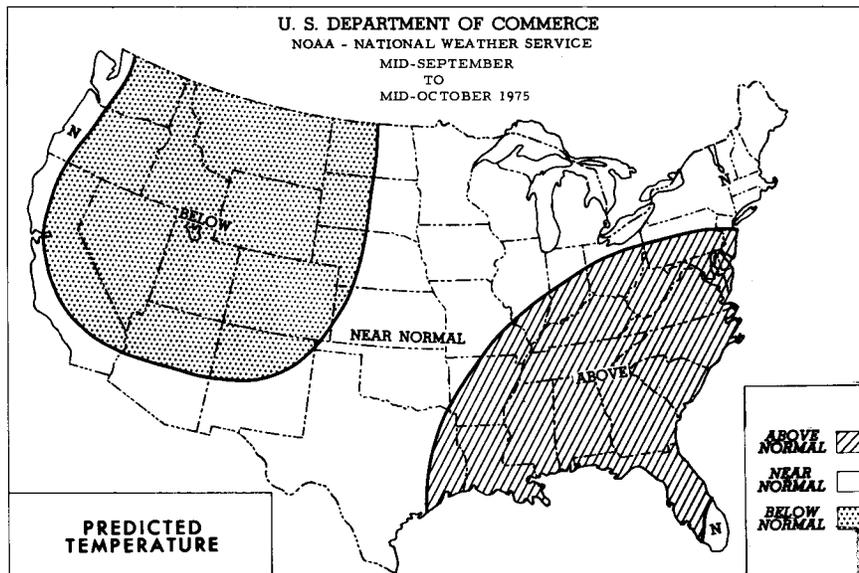
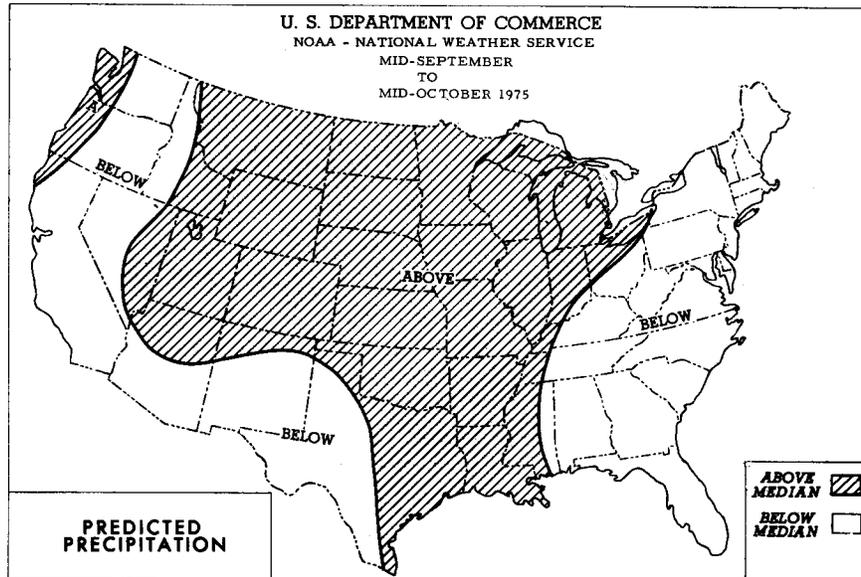
**AVERAGE MONTHLY WEATHER OUTLOOK**

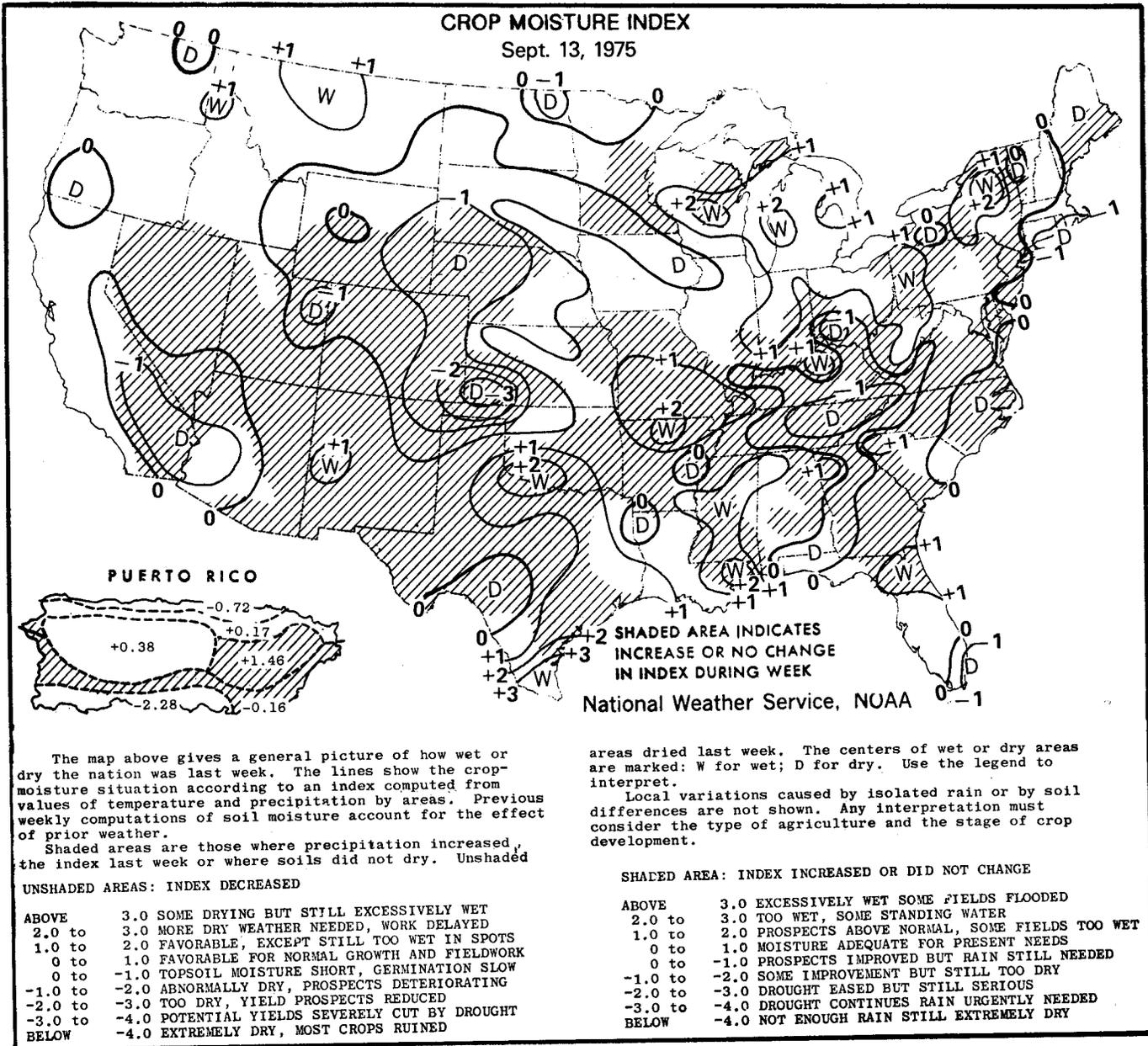
**AGRICULTURAL IMPLICATIONS:** Above normal precipitation is expected across the Nation's midsection and below normal amounts are seen for the East and Far West.

Above normal precipitation would delay getting the corn and soybean harvest in full swing in the Corn Belt and slow cotton development and harvest of other crops in the lower Mississippi River

Valley. Extra moisture would also put seeding of grains in the Great Plains, but more importantly, build up soil moisture levels that were severely depleted this past summer.

Below normal precipitation and above normal temperatures in the Southeast should provide excellent harvest conditions, since soil moisture levels are already good to excellent except in North Carolina and Virginia.





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 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.



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**SEEDING PROGRESS**

Percent of Acreage Seeded  
 as of September 14

**WINTER WHEAT**



	Average	--Crop for--	
		1975	1976
Colo.	36	40	53
Ida.	1/	15	20
Ill.	4	4	4
Kans.	10	10	10
Mich.	5	1/	15
Mont.	30	45	20
Ohio	10	5	10
Okla.	12	1/	6
S. Dak.	57	52	71
Tex.	49	29	13



1/Data not available.