

WEEKLY WEATHER AND CROP BULLETIN

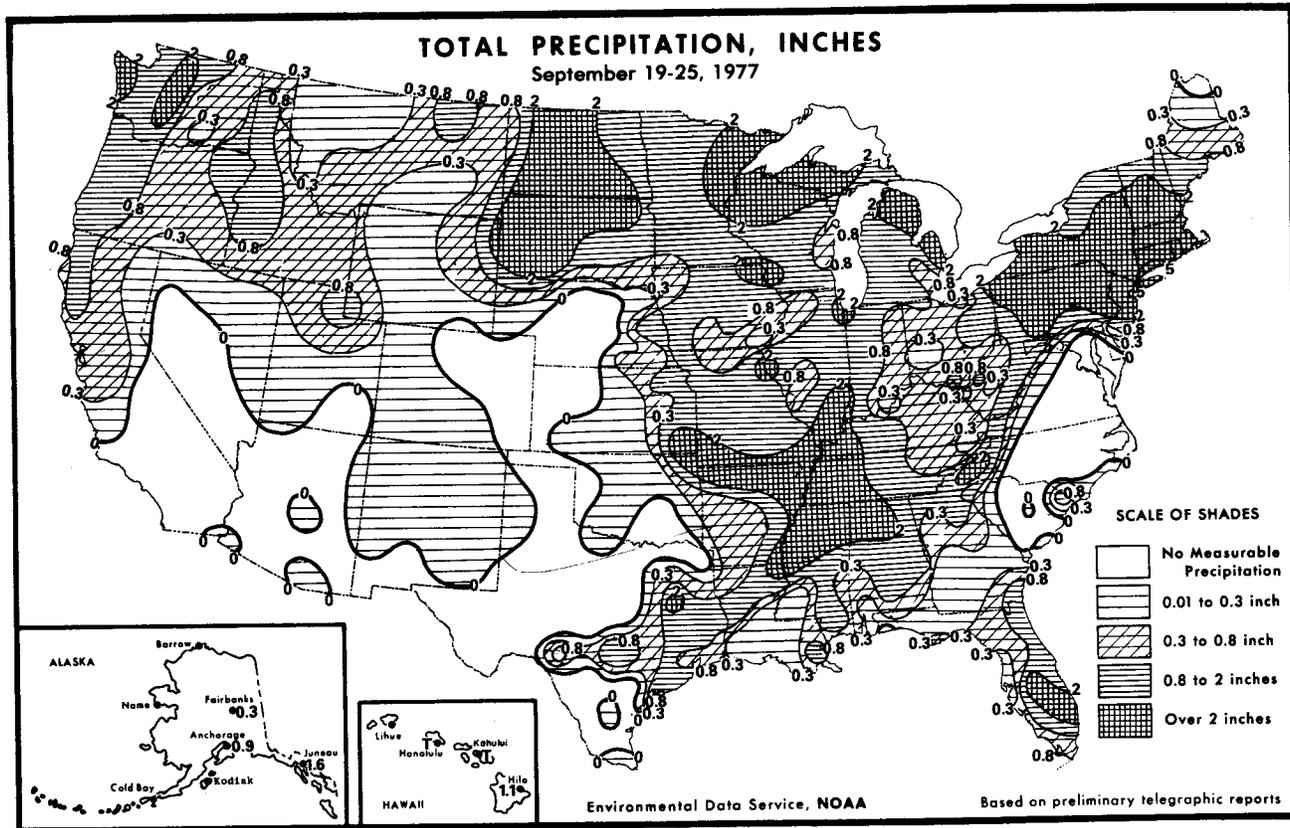
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National Weather Summary

September 19 - 25

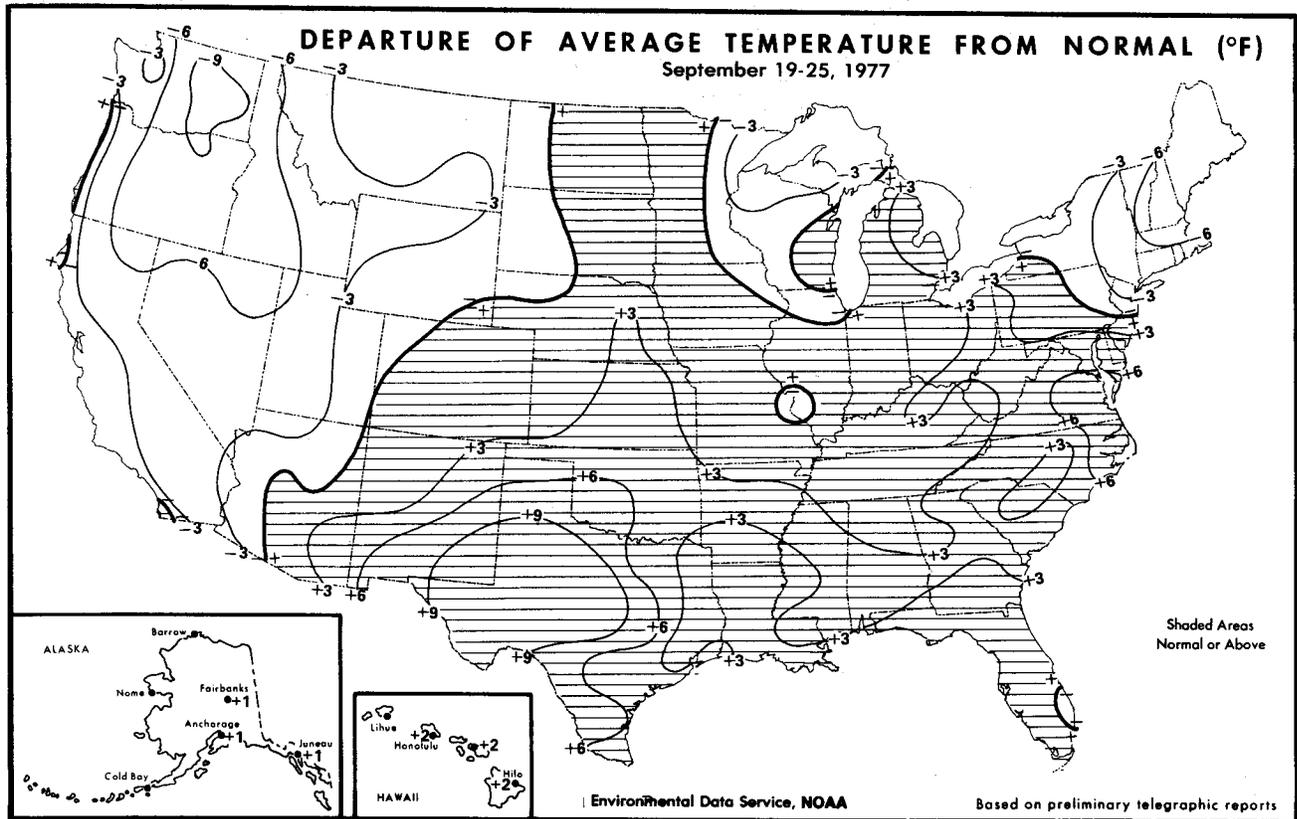
HIGHLIGHTS: Heavy precipitation, 2 to 4 inches, fell on the northern tier of the Nation from North Dakota to central New England. Other areas receiving more than 2 inches included the central Mississippi Valley, Pacific Northwest, New York and Pennsylvania. Light rain fell west of the Rockies although many portions got little or none. Most of Virginia remained very dry while the Carolinas also had a dry week.

Temperatures were below normal from the Rockies westward to the Pacific Coast except the lower Southwest. Parts of Washington were 9° below expected readings for this time of year. A large section of the country from the central Plains eastward to the East Coast except Pennsylvania through New England had above-normal temperatures. Central Virginia was 8° on the plus side.

Storms brought 4 inches of rain to lower Michigan on Monday morning triggering flooding.

This heavy rain moved into the western sections of New York State and Pennsylvania; three tornadoes were sighted near Erie. Lines of thunderstorms set off by the same frontal system struck southern Texas, Louisiana, Tennessee, Kentucky, South Carolina, and West Virginia. Another system carried showers to the Pacific Northwest, northern California, Montana, and Utah. By nightfall showers dotted upper Michigan and the northern Rockies.

Rain was widespread over the lower Lakes region and the upper Ohio Valley on Tuesday. Utica, N.Y., measured over an inch while Williamsport, Pa., hit the same amount. Heavy rain later moved eastward and into New England. Local flooding followed 2.23 in. at Bridgeport, Conn. Toward evening heavy precipitation preceded some flooding south of Buffalo, and Concord, N.H., counted more than 2 inches of rain. There were several isolated areas of showers throughout the country.



Temperatures ranged from the chilly 40's in the Northeast to a record 100° at Roswell, N. Mex.

Scattered thunderstorms at dawn developed over the upper half of the Plains. A few showers lingered over the Pacific Northwest and northern Rockies on Wednesday while 6 inches of snow fell on Stampede Pass in Washington's Cascade Mountains. Afternoon showers dampened the northern half of the Plains, parts of the middle Mississippi Valley, and the South Atlantic States. A tornado was sighted near Sanford, Fla.

Temperatures ranged from the 20's in northern Nevada to the Nation's high of 103° at Hobart, Okla.

Erie, Pa., set a September record for rain of 8.48 in., topping the 1876 mark; this was the second month in a row for an all-time precipitation measurement.

Locally heavy thunderstorms roamed over Florida and southeastern Georgia on Thursday; two of the counts showed 1.57 in. at West Palm Beach and 1.30 in. at Brunswick, Ga. Storms also formed over southern Arizona, the middle Mississippi Valley, and the Oklahoma/Missouri border where hail fell. By afternoon, a hail-bearing thunderstorm also peppered Chanute, Kans. A late evening tornado whirled through Lusk in east central Wyoming.

The high temperature for the day was 101° in Texas at both Presidio and Childress.

A vigorous storm system carried snow and high winds to the northern Colorado Rockies and most of Wyoming on Friday; up to 6 inches blanketed some points. As the low pressure system moved eastward, thunderstorms formed over the upper half of the Plains. Omaha measured about 1.50 in. Afternoon heavy rains drenched the Dakotas and upper Mississippi Valley; 2.26 in. covered Watertown, S. Dak. By early evening, storms in the upper

Midwest and Plains triggered two tornadoes in South Dakota and two others in Missouri. Another tornado and hail struck eastern Kansas.

Early Saturday rains continued over the upper Plains and Midwest; more than 3 inches soaked Bismarck, N. Dak., bringing the September total to a record-breaking 6.53 in., knocking off the 1876 mark. Thunderstorms tracked from the Great Lakes and Ohio Valley through the lower Missouri Valley across Arkansas; Bartlett, near Memphis, received 5 inches of rain.

Temperatures soared in Texas where Midland notched 101°, its third record in four days. Waco and San Angelo also broke the century mark while readings slipped to the 20's in the northern Rockies.

Locally heavy rains on Sunday and strong easterly winds hit New York and New Jersey; up to two and one-half inches splashed down on some areas, and beach erosion was a problem. Other morning storms gathered from central New England and the eastern end of the Great Lakes into Maryland and West Virginia, and dotted the Atlantic Coast, southern Florida, and the central Gulf Coast States. Rain was scattered from Kentucky and Tennessee into portions of Missouri, Arkansas, Oklahoma, and Texas. By afternoon, very heavy thunderstorms inched into Arkansas, the lower Ohio Valley, and upper South producing hail and 3 inches of rain in some places. As midnight approached, a frontal system trekked from the Great Lakes/Ohio Valley eastward.

Texas temperatures climbed into the 100's once again; Junction, in the central part of the State, sweltered under 107°.

Buffalo has already exceeded its average precipitation for the year recording 36.12 in., though far off the 1878 high of 60.24 in.

National Agricultural Summary

September 19-25

HIGHLIGHTS: Rains delayed harvests and brought fieldwork to a near standstill across most of the northern areas of the Nation from Montana through New England. Small grain combining stagnated and sprouting became a serious problem in the acreage remaining to be cut. Soybean harvest lagged across the north central States reaching only a third the progress set last year and also short of the average. Corn harvest outpaced both last year and the average. Cotton picking reached 19% complete, four times as much as 1976 and almost double the average. Sorghum harvest advanced to a third complete equalling 1976 but ahead of the average. Winter wheat seeding moved rapidly, particularly in the southern Great Plains.

SMALL GRAINS: Rains and damp conditions again postponed the final small grain harvest in Montana and North Dakota. The Dakota harvest was halted and the wet weather created serious sprouting problems. Combining was 90 to 95% complete in these States.

Seeding winter wheat for 1978 harvest advanced to 45% complete in the major producing States. This compares with 29% last year and the 39% average. In western Kansas seeding moved rapidly but rains slowed activity in the East. In Texas some growers planted in dry seedbeds; generally good stands developed on previously planted fields. Oklahoma soil moisture was adequate for seeding; progress ran three times ahead of last year--12% was up to stand surpassing 1% in 1976 and 8% average. Colorado farmers almost finished planting winter wheat at 91%. In the eastern north central States seeding almost equalled last year but lagged the average. Farmers in the Pacific Northwest seeded with improved soil moisture supplies, but most of the area needed more rain for germination and development.

CORN: Corn harvest advanced to 15% complete compared with 11% last year and the 6% average. Most corn was mature, safe from frost and dry enough to harvest. Harvest in the eastern north central States reached 7% compared with 4% last year and the average.

In the western north central States harvest advanced to 14%, ahead of both 1976's 11% and the 4% average. The South Dakota and Missouri harvests lagged last year, but in other western Corn Belt States harvest was ahead of 1976. Nebraska farmers reached 10% and, in recent years, had not begun harvest by this time. Harvest was nearly two-thirds complete in southern parts of the U. S.

SOYBEANS: Low temperatures and damp conditions slowed maturity of the northern crop. Rainy weather also delayed harvest. Among the eastern north central States harvest was on schedule in Ohio, lagging at 5% in Indiana--half the usual pace, and in Illinois at 8% far behind 1976's 36% and the 20% average.

In the western Corn Belt soybean harvest reached 9%, slightly exceeding the average but far behind 1976. States lagging most from last year were Minnesota at 12% and Iowa at 11%, both figures about a third of 1976's pace. Among the southern States harvest was first getting started and ranged from just getting started to 6%; wet conditions delayed Arkansas' harvest.

COTTON: Above normal temperatures opened cotton bolls; more than 75% were open in the 11 southern

States excluding Oklahoma which advanced to 27%. Rains in parts of the Cotton Belt accentuated the need for open weather and better harvesting conditions. Texas farmers on the High Plains sprayed defoliants rather than wait for freezing weather to drop leaves. In the 11 southern States cotton harvest advanced to 19%, far ahead of 5% last year and the 11% average. Picking was much earlier in every State across the South. Texas growers, with the largest share of the U. S. crop, reached 21%, more than double 1976's 8%. In the western States picking had not advanced much, but defoliation and harvesting was underway in New Mexico, Arizona, and California.

OTHER CROPS: The U. S. sorghum harvest in the 7 major producing States reached 33%, 1 point more than last year and 7 points above the average. The Texas harvest stood at 71% which was 10 points ahead of 1976; most remaining acreage was on the High Plains. Kansas harvest offset the Texas advance by lagging 10 points of 1976. Nebraska harvest reached 10% while in most recent years none was harvested by this date.

Rains kept farmers from digging potatoes in North Dakota, but in other major States harvesting moved on schedule. Idaho potato farmers killed vines and digging advanced to 10%, the same as 1976.

Rice harvest continued ahead of recent years except in Louisiana. Arkansas growers coped with downed rice, but combining stood at twice 1976's. Texas producers drained fields in preparations for the second cut. California's rice harvest gained momentum.

VEGETABLES: Cold wet conditions slowed development of the last summer season vegetables but favored fall season crops. Summer vegetable harvests were almost complete in northern areas. In Florida locally heavy rains delayed fieldwork and required some replanting. Tomato harvest should begin soon; beans, squash, sweet corn and okra already provided some volume. Texas growers harvested green peppers, carrots, melons, tomatoes, cucumbers, onions, and cabbage. Rains delayed California's processing tomato harvest.

FRUITS AND NUTS: Rain delayed apple picking in New England. Harvest in southern areas stood at 60 to 75% complete. Virginia's harvest advanced to 39%. Pecans rated poor to fair; dry conditions reduced the crop's potential in Texas and the Southeast. Florida's citrus groves rated excellent; rains limited irrigation needs. The season's first grapefruit were low in juice content. Texas citrus sized well; growers irrigated. California growers approached the end of their grapefruit and orange harvests, but lemon picking increased.

PASTURES AND LIVESTOCK: Improved soil moisture also helped the Nation's grasslands; exceptions included Virginia and most of the Mountain and Pacific Coast States. Most pastures east of the Rockies rated at least fair and in many areas good to excellent. But western rangeland rated only poor to fair at lower elevations; they were fair to good in high locations. Western Washington and Oregon also had good pastures. Texas cattlemen reduced herd sizes to conserve forage and water. California cattle coming off summer ranges went onto irrigated pastures.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Sept. 25, 1977

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	73	+1	2.0	+1.2	La. Baton Rouge	79	+3	.1	-.8	Youngstown	65	+4	1.5	+.9
Mobile	80	+4	.4	-1.1	Lake Charles	79	+2	.1	-.9	OKLA. Okla. City	77	+3	.2	-.8
Montgomery	78	+4	1.4	+.4	New Orleans	79	+2	1.0	-.3	Tulsa	74	+3	.2	-.8
ALASKA. Anchorage	47	+1	.9	+.3	Shreveport	77	+1	.3	-.4	OREG. Astoria	59	+1	1.8	+1.0
Barrow	---	---	---	---	MAINE. Caribou	46	-6	T	-.8	Burns	48	-1	.5	+.4
Fairbanks	42	+1	.3	+.1	Portland	51	-6	1.1	+.4	Medford	58	-5	.6	+.4
Juneau	49	+1	1.6	-.1	MD. Baltimore	71	+4	T	-.7	Pendleton	53	-9	.5	+.4
Kodiak	---	---	---	---	MASS. Boston	57	-6	2.1	+1.4	Portland	57	-4	1.5	+1.1
Nome	---	---	---	---	Chatham	56	---	4.3	---	Salem	56	-5	1.5	+1.1
ARIZ. Flagstaff	56	0	0	-.4	MICH. Alpena	58	+4	2.3	+1.6	PA. Allentown	62	-1	2.7	+1.9
Phoenix	84	+2	T	-.1	Detroit	63	+1	.6	+.1	Erie	62	+2	3.8	+3.0
Tucson	81	+2	.1	-.2	Flint	62	+3	.8	+.2	Harrisburg	66	+1	1.7	+1.1
Winslow	67	-1	T	-.2	Grand Rapids	62	+2	1.5	+.7	Philadelphia	66	0	2.3	+1.6
Yuma	81	-4	T	0	Houghton Lake	57	+2	1.8	+1.0	Pittsburgh	64	+2	.8	+.2
ARK. Fort Smith	76	+4	.4	-.4	Lansing	62	+2	1.5	+.9	Scranton	59	-2	2.5	+1.9
Little Rock	74	+3	.5	-.3	Marquette	53	+3	3.3	+2.5	R.I. Providence	58	-4	2.6	+1.9
CALIF. Bakersfield	75	0	0	0	Muskegon	62	+2	1.5	+.7	S.C. Charleston	77	+3	T	-1.1
Eureka	57	+1	.4	+.2	S. Ste. Marie	53	0	1.4	+.5	Columbia	75	+2	0	-.9
Fresno	70	-3	T	0	MINN. Duluth	49	-3	4.2	+3.5	Greenville	73	+3	T	-.9
Los Angeles	70	-2	0	0	Internat'l Falls	51	0	1.3	+.6	S.D. Aberdeen	57	0	2.9	+2.5
Red Bluff	69	-5	.6	+.5	Minneapolis	57	-1	1.7	+1.1	Huron	59	+1	1.2	+.8
San Diego	71	+2	T	-.1	Rochester	56	-1	1.0	+.3	Rapid City	56	-2	2.1	+1.8
San Francisco	63	-1	.5	+.4	St. Cloud	56	0	1.5	+.9	Sioux Falls	58	0	.6	0
Stockton	69	-2	.5	+.4	MISS. Jackson	76	+2	.2	-.5	TENN. Chattanooga	73	+3	1.4	+.5
COLO. Denver	62	+1	0	-.3	Meridian	77	+3	.5	-.2	Knoxville	72	+2	.7	+.1
Grand Junction	65	0	T	-.2	MO. Columbia	67	+1	1.1	0	Memphis	75	+3	2.8	+2.1
Pueblo	65	+1	T	-.1	Kansas City	67	0	.9	-.1	Nashville	70	0	1.0	+.3
CONN. Bridgeport	61	-4	5.3	+4.7	St. Louis	67	-1	.5	-.2	TEX. Abilene	84	+10	T	-.6
Hartford	57	-4	3.5	+2.7	Springfield	69	+2	1.9	+.9	Amarillo	74	+6	T	-.4
D.C. Washington	74	+5	T	-.6	MONT. Billings	55	-2	T	-.3	Austin	83	+6	1.4	+.5
FLA. Apalachicola	80	+2	.8	-1.2	Glasgow	53	-2	1.0	+.8	Beaumont	82	+4	.4	-.8
Daytona Beach	80	+1	1.2	-.5	Great Falls	54	-1	.1	-.2	Brownsville	85	+4	T	-1.3
Ft. Myers	81	0	.6	-1.4	Havre	54	-1	.1	-.1	Corpus Christi	86	+6	0	-1.2
Jacksonville	79	+2	1.5	-.3	Helena	51	-2	.3	+.1	Dallas	---	---	---	---
Key West	83	0	1.9	+.1	Kallispeil	48	-3	.2	-.1	Del Rio	87	+8	0	-.8
Lakeland	82	+2	2.7	+1.4	Miles City	54	-3	.2	-.1	El Paso	79	+7	T	-.3
Miami	82	+1	.7	-1.4	Missoula	49	-4	.1	-.1	Fort Worth	81	+5	T	-.8
Orlando	83	+3	1.4	-.3	NEBR. Grand Island	64	+2	T	-.6	Galveston	82	+3	1.4	+.1
Tallahassee	78	+1	T	-1.5	Lincoln	64	+1	.4	-.2	Houston	79	+1	.3	-.8
Tampa	82	+2	.2	-1.2	Norfolk	64	+3	.1	-.4	Lubbock	78	+9	T	-.5
W. Palm Beach	80	-1	2.4	0	N. Platte	60	0	T	-.5	Midland	84	+10	0	-.4
GA. Atlanta	72	+1	.6	-.1	Omaha	62	0	2.0	+1.3	San Angelo	85	+10	0	-.7
Augusta	76	+3	T	-.7	Valentine	58	-1	.1	-.2	San Antonio	82	+4	T	-.9
Macon	77	+3	T	-.7	NEV. Ely	50	-5	T	-.1	Victoria	83	+4	T	-1.1
Savannah	78	+3	.2	-1.0	Las Vegas	75	-3	0	-.1	Waco	86	+9	T	-.8
HAWAII. Hilo	77	+2	1.1	-.6	Reno	55	-3	T	-.1	Wichita Falls	82	+7	.1	-.7
Honolulu	82	+2	T	-.2	Winnemucca	52	-5	T	-.1	UTAH. Blanding	59	-2	0	-.2
Kahului	80	+2	T	-.1	N.H. Concord	52	-6	2.3	+1.6	Salt Lake City	59	-3	.8	+.7
Lihue	---	---	---	---	N.J. Atlantic City	68	+3	1.3	+.7	VT. Burlington	54	-3	1.5	+.8
IDAHO. Boise	55	-6	.9	+.8	Trenton	63	-2	3.6	+2.9	VA. Lynchburg	70	+4	T	-.7
Lewiston	55	-6	1.1	+.9	N.MEX. Albuquerque	69	+1	T	-.1	Norfolk	76	+6	T	-.9
Pocatello	52	-5	.4	+.3	Roswell	79	+11	T	-.4	Richmond	76	+8	T	-.8
ILL. Cairo	71	+1	2.6	+1.8	N.Y. Albany	56	-4	2.5	+1.8	Roanoke	70	+4	.1	-.7
Chicago	63	-1	2.2	+1.5	Binghamton	57	-1	4.1	+4.4	WASH. Colville	49	-7	.5	+.3
Moline	64	+1	.4	-.5	Buffalo	59	-1	2.5	+1.8	Omak	---	---	---	---
Peoria	64	0	1.0	+.2	New York	60	-6	2.9	+2.2	Quillayute	53	-3	3.9	+2.5
Rockford	60	-1	.8	-.1	Rochester	59	-1	2.4	+1.9	Seattle-Tacoma	56	-2	1.2	+.7
Springfield	66	+1	.4	-.4	Syracuse	59	-2	1.8	+1.2	Spokane	48	-9	.6	+.4
IND. Evansville	69	+2	1.2	+.6	N.C. Asheville	70	+5	2.2	+1.4	Walla Walla	57	-7	.6	+.4
Ft. Wayne	64	+1	.4	-.2	Charlotte	73	+3	0	-.8	Yakima	53	-6	.7	+.6
Indianapolis	66	+2	1.0	+.3	Greensboro	71	+3	0	-.8	W. Va. Beckley	64	+3	1.0	+.2
South Bend	64	+2	.8	+.1	Hatteras	78	+6	0	-1.3	Charleston	69	+3	.3	-.4
IOWA. Burlington	65	+2	.2	-.7	Raleigh	71	+2	0	-.8	Huntington	67	+1	T	-.7
Des Moines	64	+2	.7	0	Wilmington	78	+5	.1	-1.1	Parkersburg	69	+3	.3	-.3
Dubuque	58	-2	1.0	-.1	N. DAK. Bismarck	55	0	3.5	+3.2	WIS. Green Bay	58	+1	.8	0
Sioux City	61	0	.3	-.3	Fargo	56	+1	1.2	+.8	La Crosse	58	-2	1.1	+.3
KANS. Concordia	69	+4	.2	-.5	Williston	53	-1	1.4	+.1	Madison	61	+2	.8	+.1
Dodge City	69	+2	.1	-.3	OHIO. Akron-Canton	64	+2	1.2	+.6	Milwaukee	61	+2	.8	+.1
Goodland	62	0	T	-.3	Cincinnati	66	0	.4	-.2	WYO. Casper	55	-1	.3	+.1
Topeka	69	+3	.6	-.1	Cleveland	65	+3	.2	-.4	Cheyenne	56	0	T	-.2
Wichita	72	+4	.1	-.8	Columbus	65	+2	.2	-.4	Lander	54	-2	.1	-.2
KY. Lexington	70	+3	.5	-.1	Dayton	64	0	.2	-.3	Sheridan	52	-3	.3	0
Louisville	69	+2	.2	-.5	Toledo	64	+2	1.1	+.5	P.R. San Juan	80	-1	.9	-.5

Based on 1941-70 normals

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State Summaries of Weather and Agriculture

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

ALABAMA: Rain early, followed by mild, dry autumn weather.

Fieldwork: 4.8 days suitable. Soil moisture adequate. Cotton 75% with bolls open, 34% 1976, 35% average; 21% harvested. Corn 59% harvested, 43% 1976, 30% average. Soybeans 28% mature, 22% 1976, 26% average. Early harvest underway. Peanuts 17% dug, 59% 1976, 71% average. Pastures adequate.

ALASKA: Temperatures slightly above normal. Rain through week.

Rain showers and muddy fields continued to delay harvest operations throughout railbelt. Sunshine and mostly clear skies from 22d on allowed potato growers to continue digging. Heavy dew and poor drying condition limited grain combining. Wind and rain damage to small grains light to moderate. Top soil moistures ranged adequate to mostly surplus. Moderate supplies cabbage and carrots remain while limited supplies lettuce and squash remain.

ARIZONA: Mostly dry, few showers. Western, northern areas below normal temperatures.

Cotton harvest increasing Yuma, underway limited Salt River Valley. Defoliation increasing. Sorghum harvest active, later plantings approaching maturity. Corn harvest active. Alfalfa hay activity seasonally slow, some cutting. Sugarbeets good progress; preparations, planting beets spring harvest underway. Planting lettuce, mixed vegetables underway central, western areas. Earlier planted fields good stands, thinning, weeding in progress. Fall cantaloup harvest active Salt River Valley; later plantings nearing maturity. Lemon harvest increasing Yuma area. Livestock improving higher elevations, poor to fair desert regions. Stock water supplies adequate mountains, scarce most other areas. Supplemental feeding, hauling water continues many areas. Range conditions fair to good higher elevations, desert areas poor.

ARKANSAS: Means ranged from 78 to 70°. Extremes: 93 and 49°. Most precipitation 5.64 in., least 0.

Soil moisture adequate. Fieldwork: 5.0 days suitable. Soybean harvest slowed due to weather, 4% harvested. Most early varieties mature. Early bean size small. Rice lodging problem; heavy rains blew down considerable quantities; harvest 51% complete, 25% last year. Cotton harvest 23% complete, 1% 1976; open bolls 76% of acreage, 39% year ago. Sorghum harvest 72% complete, 62% last year. Wheat planting continued. Oat seeding 5% complete, 20% last year. Most areas adequate pasture.

CALIFORNIA: Appreciable precipitation northern half; amounts ranged from over 2.00 in. along northwest coast to slightly over 0.50 in. in northern San Joaquin Valley. Temperatures 2 and 7° below normal.

Small grain ground preparation full swing. Alfalfa all stages, some seed cut. Dry bean cuttings increased. Field corn cut silage, grain. Rice harvest picked up. Some harvest early sorghums. Cotton defoliation continued, some picking south. Safflower harvest progressed. Almond, fig harvests continues. Soft variety date picking underway. Raisins 70% boxed. Raisin, table grape, wine grape harvests active. Rains caused some

bunch rot wine grapes; warm weather, light breezes helped drying. Olive, freestone peach, pomegranate harvests continue. Walnut harvests underway San Joaquin Valley. Grapefruit, Valencia orange harvests continue. Desert lemon harvest gaining momentum with good quality. Artichoke, cantaloup, fall potato light. Broccoli, cauliflower, celery, lettuce, bell pepper, market tomato volume heavy. Sweetpotato near peak. Processing tomato slowed by rain 19th. Rangeland lower elevation poor condition. Recent rains beneficial, more needed. Stock water hauling, supplemental feeding continue. Cattle off high range onto irrigated pasture.

COLORADO: Precipitation light. San Luis Valley received less than 0.25 in. Isolated mountain areas received up to 0.40 in. Higher elevations received 1 to 4 in. snow midweek. Temperatures normal San Luis Valley and mountains. Eastern plains averages 1 to 3° above normal.

Winter wheat seeding 91% 1977, 81% 1976, 77% average. Corn good to very good 94% in or past dented stage. Corn silage cut 86%; dry beans 88% cut, 72% threshed. Alfalfa 88% 3d cutting, 30% 4th cutting. Sorghum 85% turned, 21% ripe. Summer potato harvest nearing completion. Range and pasture now in fair condition except western slope in poor. Livestock in good to very good condition.

FLORIDA: Moisture north early week. Temperatures ranged from near normal to slightly above. Rainfall averaged 1.00 to 2.00 in. with local amounts over 4.00 in. in northern, central areas.

Soil moisture mostly adequate central, north, mostly surplus south, west. Peanut, hay harvest active, corn harvest about complete. Soybeans fair condition; early planted beans maturing. Tobacco marketing about complete. Sugarcane good condition; cutting for seed active. Grazing lands fair to good; few scattered areas dry, others showing excessive moisture. Armyworm problems decreasing. Cattle condition remains good. Citrus grove condition excellent. Afternoon rains active; very little irrigation. Fresh grapefruit low in juice, very few shipped. Vegetable crops generally progressing well. Plantings continue active. Locally heavy rains delayed fieldwork. Spot resetting active some crops low lying areas. Some tomato fields hard hit with bacteria leaf spot; most fields good condition. Light harvest expected next week. Cooler weather beneficial, less fruit droppage. Harvest increasing pole beans, squash, sweet corn. Volume very light to moderate. Okra volume light. Preventive spray programs stepped up, effective.

GEORGIA: Temperatures near normal ranging upper 60's northeast to mid-70's north and upper 70's central and south. Rainfall heaviest in south with 3.00 to 6.00 in. many areas. Elsewhere amounts highly variable but averaged between 0.50 and 1.00 in. Over weekend thundershowers brought additional 5.00 to 1.00 in. of rain to the northwest.

Soil moisture mostly adequate, improved from last week. Fieldwork: 5 days suitable. Insect infestation continues but somewhat subsided. Corn rated poor; 66% harvested, 52% last year, 28% average. Cotton rated mostly poor to fair, down from last week; 66% open, 12% harvested; last year 39% open, 1% harvested; average 4% harvested. Soybeans mostly fair to good slightly improved over

last week. Peanuts rated fair; 29% dug, 20% threshed; last year 67% dug, 53% threshed; average 69% dug, 56% threshed. Pastures mostly fair, some improved. Cattle mostly fair to good. Hogs fair to mostly good. Apples fair to good; 73% harvested, 85% last year. Pecans mostly fair. Wheat 8% seeded, rye 9%, other small grains 10%; last year wheat 5%, rye 8%, other small grains 11%.

HAWAII: Warm humid weather continues. Volcano eruption Kilauea rift zone Hawaii subsiding.

No haze damage tomato field plantings Kona area. Rainfall sufficient some areas on Hawaii, most other areas light and scattered. Vegetable supplies short most items except sweetpotatoes and eggplant. Banana supplies moderate to heavy. Papaya supplies moderate. Pineapple supplies light. Sugar harvesting steady. Pastures fair to good.

IDAHO: Temperatures 3 to 13° below normal. Precipitation generally ranged 0.06 to 1.54 in.

Harvest of all crops hindered by rains. Ranges improved by added moisture. Emerged winter wheat off to excellent start. Third cutting alfalfa 55% harvested, 50% 1976. Dry beans 55% harvested, 30% 1976. Winter wheat 45% planted, 30% 1976. Potatoes 10% harvested, same as last year. Vine killing active.

ILLINOIS: Temperatures ranged from 1° above normal to 2° below normal. Precipitation light; up to 0.50 in. most areas.

Corn 9% harvested, 7% 1976, 6% average. Soybeans 95% turning yellow, 95% 1976, 85% average; 80% shedding leaves, 90% 1976, 68% average; 8% combined, 36% 1976, 20% average. 1978 winter wheat 4% seeded, 9% last year, 10% average. Pastures mostly good to excellent. Soil moisture mostly adequate to surplus. Fieldwork: 4 days suitable.

INDIANA: Cloudy; sunshine 50 to 60% of possible. Temperatures slightly above normal ranging from 40 to 85°. Extreme rainfall of 1.50 in. extreme southwest and north central. Rainfall averages, 0.50 to 0.80 in. west and central, 0 to 0.30 in. east. Humidity 10% above normal.

Fieldwork: 4 days suitable. Topsoil moisture mostly adequate to surplus; subsoil moisture adequate. Pastures good condition. Corn 5% harvested, 1976 0, average 0. Corn 85% mature, 1976 80%, average 60%. Corn condition fair to mostly good. Soybeans 5% combined, 1976 10%, average 10%; 95% turning yellow, 70% shedding. Wheat land 50% plowed, 1976 65%, average 75%. Wheat 5% seeded, 1975 5%, average 15%. Silos 70% filled.

IOWA: Seasonal temperatures with moderate to heavy showers.

Soil moisture improved; topsoil adequate, subsoil short to adequate. Fieldwork: 4 days suitable. Continuing problems with corn borer, ear and stalk dropping, and mold. Some crop damage due to heavy showers and high winds. Corn generally good to fair. Corn progress: 10% dent, 90% mature, 12% harvested. 66% of silage harvested. Soybeans good to fair; 9% leaves turning, 24% leaves shedding, 67% mature, 11% harvested. Hay and pastures continue to improve. Livestock good with improved pasture and cooler temperatures.

KANSAS: Precipitation ranged from little or none northwest, west central and extreme west to 0.25 in. central, 1.25 in. southeast with local amounts over 3.00 in. extreme southeast. Temperatures 66 to 68° northwest and north central, 69 to 72° elsewhere; generally 2 to 4° above normal.

Fieldwork moving west; slow east. Wheat seedings 45% complete, 25% last year, 35% average. Corn mature 80%, 70% last year and average. Corn harvested 25%, 20% last year, 15% average. Sorghum mature 40%, last year 50%, average 30%. Soybean harvest only few scattered fields, same as last year, average 5%. Alfalfa seeding 85% complete, 75% last year, Equal to average.

KENTUCKY: Temperatures 1 to 2° above normal. Most precipitation in western portion averaging less than 0.25 in. east to over 2.00 in. west.

Soil moisture adequate. Fieldwork: 4.9 days suitable. Activities: Shelling corn, cutting tobacco, haying, filling silos, and seeding fall grains. Corn 25% harvested, ahead of last year and average; another 58% mature but not harvested. Soybean harvest beginning, 5% combined, 12% mature and 60% yellowing or shedding leaves. Tobacco harvest nearing completion, 89% cut. Curing problems created by rains and high humidity, about one-half crop showing light to moderate houseburn. Winter hay supply normal with sufficient supply expected unless winter very severe. Pastures in excellent condition and providing very adequate grazing.

LOUISIANA: Temperatures 3 to 6° above normal. Extremes: 57 and 95°. Rainfall light.

Soil moisture adequate to surplus. Activities: Harvesting crops, insect control, planting sugarcane and winter pastures. Cotton fair, needs open weather; 60% open, 46% last year; 6% harvested, 2% last year. Soybeans fair to good; 45% turning color, 6% combined. Rice fair; 85% harvested, 91% last year, 86% average. Sugarcane good; 8% planted, 82% last year, 32% in 1975. Corn 75% harvested, 77% last year. Sorghum fair; 85% ripe, 58% harvested, 50% average. Sweetpotatoes fair, rotting low areas; 48% dug, 53% last year, 47% average. Hay fair. Pastures and livestock fair to good.

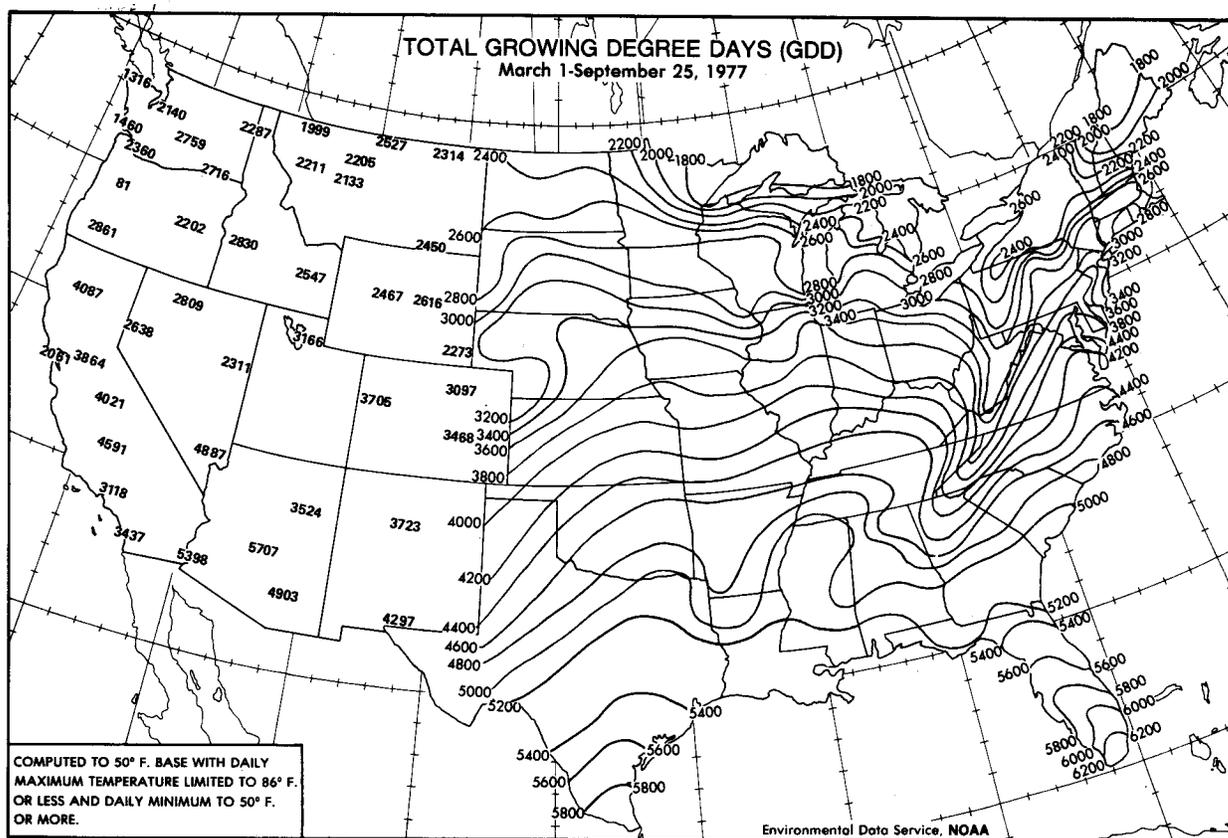
MARYLAND & DELAWARE: Temperatures averaged 5° above normal. Highs, mid-80's; lows, mid-60's. Western Maryland slightly cooler. Precipitation widespread, most stations reporting 0.25 to 0.50 in.

Soil moisture supplies short to adequate. Pastures supplying below average to average amounts of feed. Corn 88% mature, ahead of normal. Corn for silage 85% harvested, 80% 1976, 73% average. Corn for grain 40% harvested, 30% 1976, 23% average. Soybeans 45% yellowed, 52% 1976, 42% average. Nearly 20% shed leaves, 20% 1976, 15% average. Tobacco 95% harvested, equal to last year, 92% average. Fall apple harvest in full swing. Red and Golden delicious at peak.

MICHIGAN: Temperatures 1 to 2° below normal west Upper; 1 to 3° above normal elsewhere. Extremes: 78 and 36°. Precipitation moderate to heavy, ranged over 3.00 in. central Lower to 0.42 in. south central Lower.

Topsoil moisture adequate to surplus. Fieldwork: 2 days suitable. Most field activity halted. Harvest of silage, potatoes and vegetables slowed to a stop. Hay being green chopped. Corn 45% mature, 30% 1976, 33% normal. Dry beans 15%, 68% 1976, 55% normal. Soybeans 15% mature, 19% 1976, 13% normal. Pastures average or above. Apples picked: McIntosh 70%, 70% 1976, 51% normal; Jonathans, Red Delicious, other 30%. Grapes 50% picked.

MINNESOTA: Temperatures near normal. Extremes: 78 and 36°. Precipitation totals less than 1.00 in. southwest and 1.00 to 3.00 in. elsewhere except over 3.00 in. localized areas north central and extreme northeast.



Wet weather slowed harvests causing some damage to unharvested flax, small grains, sunflowers in northern areas. Corn ear droppage from European corn borer extremely variable. Cool, damp conditions slowing soybean maturity. Corn 14% harvested, 1976 13%, normal 4%; silage 83% cut, 1976 91%, normal 70%. Soybeans 75% mature, 1976 96%, normal 62%, combined 12%, 1976 44%, normal 18%. Harvested: flax 79%, 1976 91%, normal 78%, sugarbeets 5%, 1976 5%, normal 7%; potatoes 53%, 1976 63%, normal 44%; sunflowers 26%, 1976 40%, normal 15%. Seeded: Winter wheat 73%, 1976 57%, normal 84%; rye 73%, 1976 42%, normal 82%.

MISSISSIPPI: Temperatures near normal. Lowest temperature 52°.

Soil moisture mostly adequate. Fieldwork: 4.2 days suitable. Soybeans 66% shedding, 32% 1976; 28% mature, 9% 1976, 18% average; 5% harvested, 6% average. Cotton 95% open bolls, 71% 1976, 43% average; 19% harvested, 1% 1976, 5% average. Rice 95% mature, 72% 1976; 59% harvested, 18% 1976, 29% average. Corn 50% harvested, 29% 1976, 24% average. Sorghum 94% ripe, 84% 1976; 54% harvested, 49% 1976, 48% average. Sorghum silage 89% harvested, 87% 1976. Winter wheat 20% planted, 25% 1976. Oats 17% planted, 22% 1976. Hay crops 83% harvested, 88% 1976, 83% average. Peanuts 54% harvested, 55% 1976, 47% average. Sweetpotatoes 35% harvested, 34% 1976, 43% average. Soybeans, cotton, and pastures in fair to good condition. Rice in good condition. Corn and pecans in fair condition.

MISSOURI: Temperatures 3° above normal. Highs in 80's except 70's midweek. Precipitation north averaged 0.70 to 0.80 in. with few stations between 1.00 and 2.00 in. South averaged 0.75 to 1.50 in.

Fieldwork: 2.6 days suitable. Corn 81% mature, last year 84%, normal 67%; harvested 27%, last year 32%, normal 16%. Soybeans mature 22%, last year 55%, normal 27%; harvested 5%, last year 11%, normal 5%. Grain sorghum mature 75%, last year 75%, normal 61%; harvested 30%, last year 23%, normal 14%. Cotton with open bolls 90%, last year 21%, normal 42%; harvested 13%, last year and normal virtually none. Winter wheat seeded 8%, last year 4%. Pasture mostly good condition. Topsoil moisture adequate.

MONTANA: Mild, turning cooler 20th through remainder of week. Temperatures 4 to 5° below normal. Precipitation widespread in west and southwest, locally heavy showers east end of week.

Cool, rainy weather helped soil moisture but delayed late hay and grain harvest. Moisture generally improved to near adequate except few areas north central and south central. Subsoil moisture mostly short except adequate areas southwest. Harvest spring wheat and oats 95% completed, barley 90%, cutting corn silage 65%, second cutting alfalfa 90%, potato harvest 10%, all about normal. Winter wheat seeding 65% completed, normal 55%. 55% livestock moved from summer ranges. Livestock marketing for cattle and calves about average to heavy on open market. Contracting light to average. Sheep marketing about average for both open markets and contracting. Winter grazing prospects mostly short except adequate southwest.

NEBRASKA: Temperatures near normal. First freezing temperatures reported from North Platte. Precipitation ranged 0.30 in. to 1.00 in. eastern portion; scattered amounts elsewhere except south central with none.

Corn 10% harvested, none year ago and normal. Corn mature 80%, year ago 80%, normal 75%. Sorghum 10% harvested, none year ago and normal. Sorghum 70% ripe, 85% year ago, 50% normal. Soybeans were 10% harvested, 10% year ago and none normal. Soybeans shedding leaves 65%, year ago 85%, normal 65%. Winter wheat seeding 60% complete, year ago and normal 70%. Topsoil moisture adequate. Subsoil moisture adequate.

NEVADA: Unsettled weather. Temperatures well below normal midweek averaging 3 to 6° below normal entire week. Extremes: 93 and 13°. All but extreme south had precipitation.

Third cuttings alfalfa hay about completed. Alfalfa seed harvest good progress. Potato digging started.

NEW ENGLAND: Temperatures above normal 19th but dropped to below normal rest of week. Rainfall varied greatly, region ranging from less than 1.00 in. in northern Maine to over 3.00 in. in Connecticut. Non-mountain Maine weather station reported 1 in. snowfall; first of season.

Maine potato harvest in full swing. Vegetable growth slowed due to cool weather. Apple harvest in full swing most areas. Cranberry harvest slowed by rainy weather. Silage corn harvest started. Crop looks good most areas. Second hay crop harvest slowed nearly to standstill by wet weather.

NEW JERSEY: Temperatures slightly below normal. Extremes: 47 and 89°. Rainfall 3.34 in. north, 2.70 in. central and 0.91 in. south.

Several areas south low soil moisture levels and accompanying crop losses in unirrigated fields. Cooler temperatures favored growth and harvest of fall vegetables. Marketings summer vegetable supplies declining. Sweetpotato digging expected to be increasing. Apple and cranberry harvest active. Field corn harvest expected to increase. Soybeans and field corn planted late continue to grow. Seeding of grain and cover crops continue to increase.

NEW MEXICO: Dry except 22d when moisture from a west coast tropical storm moved through with light showers central and south and substantial rains and snows near northern border.

Crops in good condition. Weather conducive to continued development and field activity. Cotton bolls opening; about 1% picked. Fourth cutting of alfalfa in north, fifth in south. Grain sorghum harvest just beginning. Winter wheat planting 75% complete. Ranges and livestock good.

NEW YORK: Above average rainfall, ranged mostly from 1.00 to 4.00 in. Temperatures near normal. Extremes: 82 and 34°.

Fieldwork at near standstill; most fields too wet. Corn silage 20% complete, 15% 1976. Third cutting alfalfa 60% in. Dry bean harvest halted. Onion harvest 90% done. Snap bean harvest nearing completion. McIntosh harvest well underway. Picking Delicious started Hudson Valley. Fruit and vegetable harvests slowed by rain and wet fields.

NORTH CAROLINA: Temperature 5° above normal. Precipitation light and spotty.

Fieldwork: 5.3 days suitable. Soil moisture adequate. Conditions: Corn poor to fair; soybeans, cotton, pastures and sorghum grain fair; peanuts, sweetpotatoes and apples fair to good. Harvested: Burley 70%, 1976 80%, average 73%; corn for grain 63%, 1976 56%, average 45%; corn for silage 89%,

1976 81%; apples 59%, 1976 49%, average 48%; peanuts dug 20%, 1976 10%; peanuts threshed 7%, 1976 5%; sweetpotatoes 22%, 1976 19%.

NORTH DAKOTA: One of wettest weeks this year. South central received over 5.00 in. of precipitation, southeast 3.8 in., southwest 3.6 in. and north central received a little over 1.00 in. Temperatures above normal. Extremes: 77 and 34°.

Small grain harvest at standstill; serious sprout damage. Hard red spring wheat about 95% combined, durum 90% and flax 60%. Very little sugarbeet harvest, potato digging or other row crop harvesting. Topsoil moisture adequate, subsoil improving; pastures improving.

OHIO: Below normal temperatures; measurable rain 4 days, light central and south, heavy north.

Rains slowed farm activity especially northeast. Vegetable harvest nearing completion. Potato digging at a near standstill with about 50% dug. Corn 75% mature, same as last year, 65% normal; 5% harvest same as last year and normal. Soybeans 45% mature, 45% 1976 and 40% normal; 10% harvested, same as last year and normal. Harvest completed: Corn silage 60%, same as last year, 55% normal. Tobacco 95%, 95% 1976, 85% normal; apples 25%, slightly behind; tomatoes 85%; popcorn beginning. Sugarbeets not started. Fall acreage planted: Wheat 15%, on schedule; barley 45%, 45% 1976, 40% normal. Pasture condition good. Fieldwork: 4 days suitable. Soil moisture adequate.

OKLAHOMA: Temperatures 2° above normal north to 6° above normal south. Little precipitation occurred except east local amounts up to 0.75 in.

Topsoil and subsoil moisture supplies adequate. Wheat good condition with 46% seeded, 16% 1976 and 29% normal; 12% up to stand, 1% 1976 and 8% normal. Corn rated good; 44% harvested, 38% 1976 and 25% normal. Sorghum good; 65% mature, 58% 1976 and 59% normal; harvest started. Cotton good condition, 27% open bolls, 31% 1976 and 22% normal. Peanuts rated fair to good; 35% mature, 29% 1976 and 34% normal. Soybeans good; 36% mature, 12% 1976 and 20% normal. Alfalfa hay improved over previous week, now rated good. Ranges and livestock both rated in good to excellent condition.

OREGON: Cool with rain nearly every day. Rainfall along coast in excess of 2.25 in. Northwest valleys averaged over 1.00 in.; elsewhere precipitation ranged from 0.25 to 0.75 in. Temperatures 5 to 10° below seasonal norms in west and 10 to 15° below in east. Highs mostly in 60's; minimum temperatures to upper 20's and lower 30's east.

Fall land preparation and seeding underway. Small grain harvest nearly complete, haying continues. Corn for silage being harvested. Potato harvest nearly in full swing. Apple, pear, peach and prune harvests continue. Recent rains causing some problems. Filberts dropping, harvest to begin soon. Western livestock and range situation good; poor to good east. Stock water and forage condition poor in east. Yearlings and calves moving to market.

PENNSYLVANIA: Cool and cloudy with rain, drizzle, fog and even some thunderstorms. Temperatures ranging from 70's and 80's 19th drifted downward to 50's and 60's 25th. Extremes: 87 and 43°. Rainfall 2.00 to 3.00 in.

Fieldwork: 3 days suitable. Moisture mostly adequate to surplus. Activities: Plowing, seeding barley, rye, wheat; cutting corn silage;

making hay; limited corn shelling; picking tomatoes and apples. Tobacco 89% cut, same as 1976. Potatoes 62%, 65% 1976. Plowing 70%, same as last year. Grain corn 31% mature, 18% 1976. Corn silage 48%, 35% 1976. Wheat sown 26%, 45% last year. Barley 54% sown, same as last year. Alfalfa third cut 80%, fourth cut 40%. Hay quality mostly poor to fair. Feed from pastures average.

PUERTO RICO: Island average rainfall 1.88 in. or 0.08 in. above normal. Temperatures averaged 80° on coasts and 75° interior. Extremes: 96 and 54°

SOUTH CAROLINA: Warmer and dry. Hottest weather near midweek. Scattered showers occurred in western half on 19th and elsewhere later.

Soil moisture mostly adequate. Tobacco harvest complete. Cotton harvesting increasing with 7% picked. Defoliants being applied. Corn harvest active. Soybeans in fair condition; chemical control of worms required but damage fairly light. Pastures in fair condition; some locations dry, delaying seeding. Pecans in poor to fair condition but sizing better. Apples in fair condition; harvest 75% complete. Fall vegetables fair condition, some light harvest underway. Corn harvested 82% 1977, 73% 1976, 54% average. Cotton harvested 7% 1977, 3% average.

SOUTH DAKOTA: Temperatures near normal. Extremes: 29 and 92°. Precipitation exceeding 2.00 in. common.

Topsoil moisture adequate. High moisture content and wet fields delaying harvest. Livestock in good condition. Feed and hay supplies adequate to abundant. Corn mature (safe from frost) 98%, 1976 99%, normal 96%. Corn harvested 7%, 1976 16%, normal 5%. Soybeans shedding leaves 87%, 1976 99%, normal 90%. Soybeans harvested 12%, 1976 38%, normal 4%. Grain sorghum harvested 7%, 1976 25%, normal 4%. Winter wheat seeded 87%, 1976 84%, normal 99%. Rye seeded 86%, 1976 55%, normal 84%.

TENNESSEE: Temperatures above normal. Precipitation 5.00 in. west, 1.00 in. to 2.00 in. middle and east.

Soil moisture adequate. Some bottomland flooding in west weekend. Fieldwork: 4 days suitable. Cattle condition good. Soybeans mature 11% 1977, 8% 1976, 8% normal. Soybeans harvested 3% 1977, 1% normal. Cotton bolls open 75% 1977, 12% 1976, 36% normal. Cotton harvested 24% 1977, 6% normal. Corn mature 89% 1977, 74% 1976, 74% normal. Corn harvested 25% 1977, 16% 1976, 15% normal. Dark-fired tobacco harvested 93% 1977, 95% 1976, 88% normal. Burley tobacco harvested 92% 1977, 93% 1976, 90% normal. Air-cured tobacco harvested 93% 1977, 70% 1976, 90% normal. Fall plowing completed 66% 1977, 55% 1976, 60% normal. Wheat seeded 35% 1977, 25% 1976, 24% normal. Oats seeded 54% 1977, 42% 1976, 42% normal. Barley seeded 52% 1977, 43% 1976, 43% normal.

TEXAS: Thunderstorms east, south. Mild temperatures early, warming to record-breaking maximums late. Temperatures averaged 4 to 10° above normal. Precipitation: 0.50 in. east, Upper Gulf Coast; elsewhere, less than 0.25 in.

Cotton on plains maturing rapidly, harvest increasing. Many plains growers applying defoliants, rather than wait for freeze. Corn harvest excellent progress; hot, windy days reduced grain moisture High Plains. Sorghum harvest gaining momentum High Plains; virtually complete from southern Low Plains southward. Soybeans maturing rapidly; harvest early varieties becoming more

widespread. Some rice fields drained in preparation for second cutting. Peanut harvest continuing as fields mature. Wheat and oats seeding progressing; some growers planting in dry seedbed. Generally good stands early fields. Armyworms damaging some stands. Sorghum harvested 71% 1977, 61% 1976, 60% average. Corn harvested 65% 1977, 43% 1976, 45% average. Cotton harvested 21% 1977, 8% 1976, 15% average. Peanuts harvested 24% 1977, 28% 1976, 27% average. Wheat planted 48% 1977, 31% 1976, 40% average. Oats planted 30% 1977, 25% 1976, 29% average.

Citrus fruit sizing well; grove irrigation continues. Harvests green peppers, carrots, melons, tomatoes, cucumbers, onions, cabbage continues. Pecans continue to mature; trees south central splitting shucks, nearing harvest. Trees north, central, east continue drop nuts prematurely due to dry weather and damage insects, diseases. Adequate to good grazing most of Panhandle, East Texas, Upper Coast, Lower Valley. Grasses other areas generally dry, short. Most areas need rain. Some ranchers drier areas reducing herd sizes. Livestock condition varies poor to excellent; mostly fair to good.

UTAH: Recurring precipitation principally northwest. Amounts quite variable, ranging from little or none to locally heavy accumulations. Temperatures ranged 2 and 10° below normal.

Winter wheat planting progressing normally, about 66% planted. Surface soil moisture generally short. Third crop alfalfa hay harvest 67% done. Corn silage 43% harvested; potatoes 25%; dry onions 20%. Apple harvest just beginning. Feed prospects poor for fall and winter ranges. Very little movement of cattle to fall ranges or market. Lambs beginning to move rapidly.

VIRGINIA: Rainfall 0.50 in. Temperatures above normal. Extremes: 93 and 44°.

Topsoil moisture short to adequate. Livestock watering supplies short to adequate. Fieldwork: 5.5 days suitable. Corn combining 51%, 30% 1976, 20% average. Older soybeans nearing maturity. Peanuts: Digging 7%, 1% 1976; combining 3%. Flue 79% pulled, 87% 1976. Fire 87% cut, 91% 1976. Burley 81% cut. Sun 80% cut, 77% 1976. Seedings: Wheat 10%, 11% 1976; barley 20%, 20% 1976; winter oats 27%, 19% 1976. Armyworms eating small grain, especially rye. Apple picking 39%. Pastures poor to fair.

WASHINGTON: West: Temperatures near normal except 4° below normal east Cascade foothills. Precipitation 0.50 to 1.50 in. above normal.

Vegetable crops being harvested. Corn silage harvest underway. Pasture conditions good.

East: Temperatures 4 to 6° below normal. Precipitation 0.10 to 1.50 in. above normal.

Golden Delicious apple harvest peaked; Red Delicious gaining momentum. Hops, mint, alfalfa seed, dry beans, onions, potatoes and corn silage continue to be harvested. Most third cutting hay in; 4th cutting underway some areas. Soil moisture conditions somewhat improved on dryland, but more moisture is needed for good germination and development. Winter wheat and barley 5 to 30% planted. Some operators waiting for rain. Range and pasture improved.

WEST VIRGINIA: Temperatures above normal. Precipitation above normal except below northeast.

Fieldwork: 4.5 days suitable. Haying and silage cutting main activities. Soil moisture mostly adequate. 2d haying; 88% complete, 91% 1976, 89% average. 3d haying 54% complete, 59% 1976, 55% average. Corn development: 1% silked,

24% dough stage, 54% mature, 21% harvested; 17% harvested 1976. Corn condition good. Potatoes 76% dug, 76% 1976, 62% average. Wheat seeded 21%, barley 27% both ahead last year and average. Pasture and hay condition fair to good except northeast poor.

WISCONSIN: Temperatures 2° below normal. Highs in 50's and 60's; lows 40's and 50's. Frequent rain, with heaviest amounts of 2.00 to 3.00 in. north and 1.00 to 2.00 in. elsewhere. Sunshine returned 24th and temperatures reached 70's south. Harvesting slowed by showers and wet fields. Silo filling 55% done, 1976 80%, normal 45%. Too wet for choppers in some fields. Corn for grain 2% harvested, 1976 2%, normal none. Corn moisture low enough for harvesting. Soybean fields 55% shedding leaves, 1976 70%, normal 33%. Soybeans near harvesting stage. Poor weather for haying, much spoiled in fields. Some shed burn to tobacco because of unfavorable curing weather. Pasture

conditions above normal for fall. New seedings have very good growth. Potato and vegetable harvest slowed by wet weather. Apple harvest well advanced; cranberry harvest underway. Fall plowing 12% done, 1976 8%, normal 12%. Winter wheat emerged, some being seeded yet. Winter cover crops going on harvested potato and vegetable fields. Soil moisture adequate.

WYOMING: Temperatures mostly below normal. Greatest departure reported in Green and Bear Drainage, with 5° below normal. Precipitation unevenly distributed with Belle Fourche Drainage having greatest departure above normal with 1.48 in. Lower and Upper Platte Drainages both below normal.

Precipitation in north and west improved moisture conditions slightly. Topsoil moisture supplies short. Sugarbeet digging started; 1% dug. Potatoes 49% dug. Dry beans 94% windrowed, 67% combine. Grain corn 39% mature. Silage corn 75% cut. Winter wheat stands 68% emerged.

World Weather and Crop Update

September 19-25

USSR. Harvesting of small grains neared completion. By September 19, swathing was completed on 114 million hectares (91 percent of the plan), of which 109 million hectares had been threshed. About half the unharvested grain was in the important spring wheat region of northern Kazakhstan where the harvest was slowed by cool, damp weather, not unusual at this time of year. Harvesting of row crops--sugarbeets, sunflowers, potatoes, corn--has been slowed by wet weather in portions of European USSR. Coincidence of fall plowing and the planting of winter grains with the harvest at this stressful time is placing an added burden on the farm labor force and machinery. Seeding of winter grains by September 19 was completed on 27 million hectares, (69 percent of plan) and 50 million hectares or 44 percent of plan were plowed.

ASIA. Rainfall was very light throughout northern and northeastern China, providing good conditions for the harvesting of coarse grains, industrial crops, and potatoes. Winter grains planting was underway in some areas. In the rice growing areas south of the Yangtze River, heavy rains, excessive in some places, fell on the southeastern and southern coastal provinces. But moisture was only light to moderate throughout most of central China. India's monsoon continued to weaken. Only 12 of 35 weather zones received normal or above rainfall in the week ending September 21, with a further decline during the past week. This year's monsoon activity brought normal or above precipitation to weather zones accounting for about 90 percent of total fall-harvested cereals. Although this was somewhat less than 1976, distribution has been more timely and more even than last year, and prospects are good to excellent for most crops. In Australia, light showers were general throughout the southwestern section, but rainfall in the eastern and southern grain areas was insignificant except along the immediate coast.

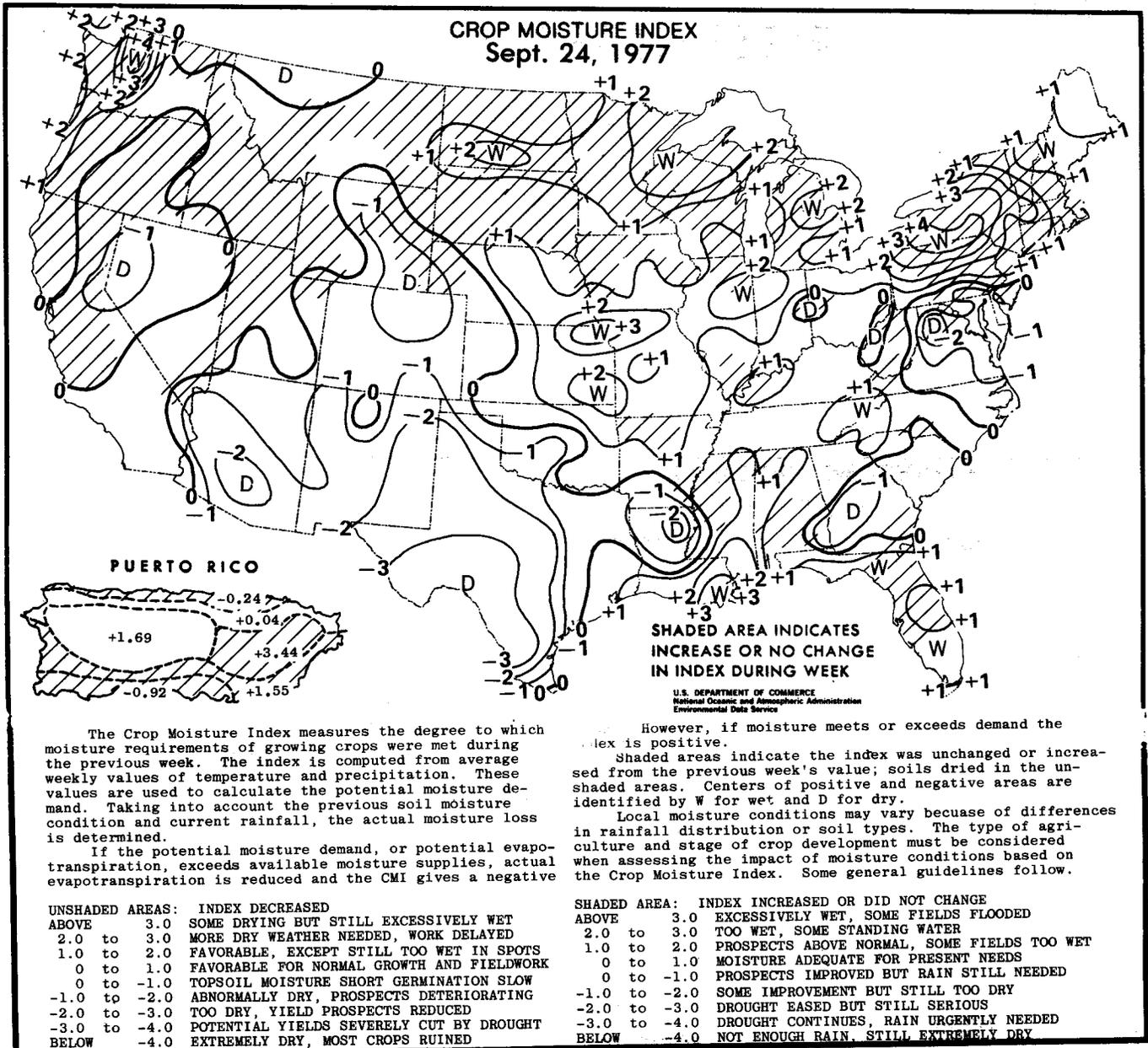
AFRICA. South Africa received its first good rainfall in months as showers totaling about 15 to 30 mm fell across the principal agricultural areas

in the Transvaal and the Orange Free State. But precipitation was light in North Africa where only scattered light showers and a few isolated thunderstorms produced rain. In Central Africa rainfall continued to be seriously lacking; Mauritania had only about a third of normal during the current monsoon season. Recent rains eased the serious drought in Senegal, but cumulative precipitation is still well below normal. Parts of Togo and Benin also were well below average in total rainfall for the season.

SOUTH AMERICA. Showers fell over much of the wheat belt in Argentina, but there was little significant rainfall in the western and southwestern regions which have been suffering from severe drought. Moderate to heavy showers dampened much of the southern and southeastern states in Brazil, but precipitation was light in the northeast which needed rain.

EUROPE. Dry, cool weather prevailed over most of western Europe. Early morning temperatures dropped below freezing with light patchy frost reported from some stations in West Germany and France. Moderate to heavy showers moistened central and southern Spain, bringing some relief to these areas which badly needed rainfall. Much of eastern Europe received frequent showers during the week. Heavy precipitation fell in parts of Yugoslavia. Below normal temperatures brought scattered light frost to some stations in East Germany, Poland, and Czechoslovakia. Moderate showers fell across the northern part of drought-stricken Greece, but there was little precipitation in Turkey; the drought worsened over most of the country.

NORTH AMERICA. The Prairie Provinces of Canada continued to be plagued by wet, cool weather which impeded the harvest. By September 22, only about 50 percent of the grain crop had been harvested. Much of the remainder had been swathed, but inclement weather held up threshing.





FIRST CLASS MAIL

HARVESTING PROGRESS

Percent of acres harvested as of September 25

corn				soybeans			
	1977	1976	Avg.		1977	1976	Avg.
GA	66	52	28	ALA	1/	NA	NA
ILL	9	7	6	ARK	4	2	2
IND	5	0	0	GA	NA	NA	NA
IOWA	12	8	1/	ILL	8	36	20
KANS	25	20	15	IND	5	10	10
KY	25	13	NA	IOWA	11	30	3
MICH	NA	NA	NA	KANS	1/	1/	5
MINN	14	13	4	KY	5	NA	NA
MO	27	32	16	LA	6	NA	NA
NEBR	10	0	0	MICH	NA	NA	NA
N C	63	56	45	MINN	12	44	18
OHIO	5	5	5	MISS	5	NA	6
PA	NA	NA	NA	MO	5	11	5
S DAK	7	16	5	NEBR	10	10	0
TEX	65	43	45	N C	NA	NA	NA
WISC	2	2	0	OHIO	10	10	10
U. S.	15	11	6	S C	NA	NA	NA
				TENN	3	NA	1

These 16 States produced
 92% of the 1976 U. S.
 corn crop.

These 18 States produced
 96% of the 1976 U. S.
 soybean crop.

cotton				sorghum			
	1977	1976	Avg.		1977	1976	Avg.
ALA	21	NA	NA	COLO	0	0	0
ARK	19	1	5	KANS	10	20	5
GA	12	1	4	MO	30	23	14
LA	6	2	NA	NEBR	10	0	0
MISS	19	1	5	OKLA	1/	NA	NA
MO	13	0	0	S DAK	7	25	4
N C	NA	NA	NA	TEX	71	61	60
OKLA	0	0	0				
S C	7	NA	3	7 States	33	32	26
TENN	24	NA	6				
TEX	21	8	15				
11 Southern States	19	5	11				

These 11 States produced
 67% of the 1976 U. S.
 cotton crop.

1/ Less than 5%
 NA Not Available

SEEDING

Percent of acres planted as of September 25

winter wheat

	1977	1976	Avg.
COLO	91	81	77
ILL	4	9	10
IND	5	5	15
KANS	45	25	35
MO	8	4	NA
MONT	65	NA	55
NEBR	60	70	70
OHIO	15	15	15
OKLA	46	16	29
TEX	48	31	40
U. S.	45	29	39

These 10 States produced
 74% of the 1977 U. S.
 winter wheat crop.