

Weekly Weather & Crop Bulletin

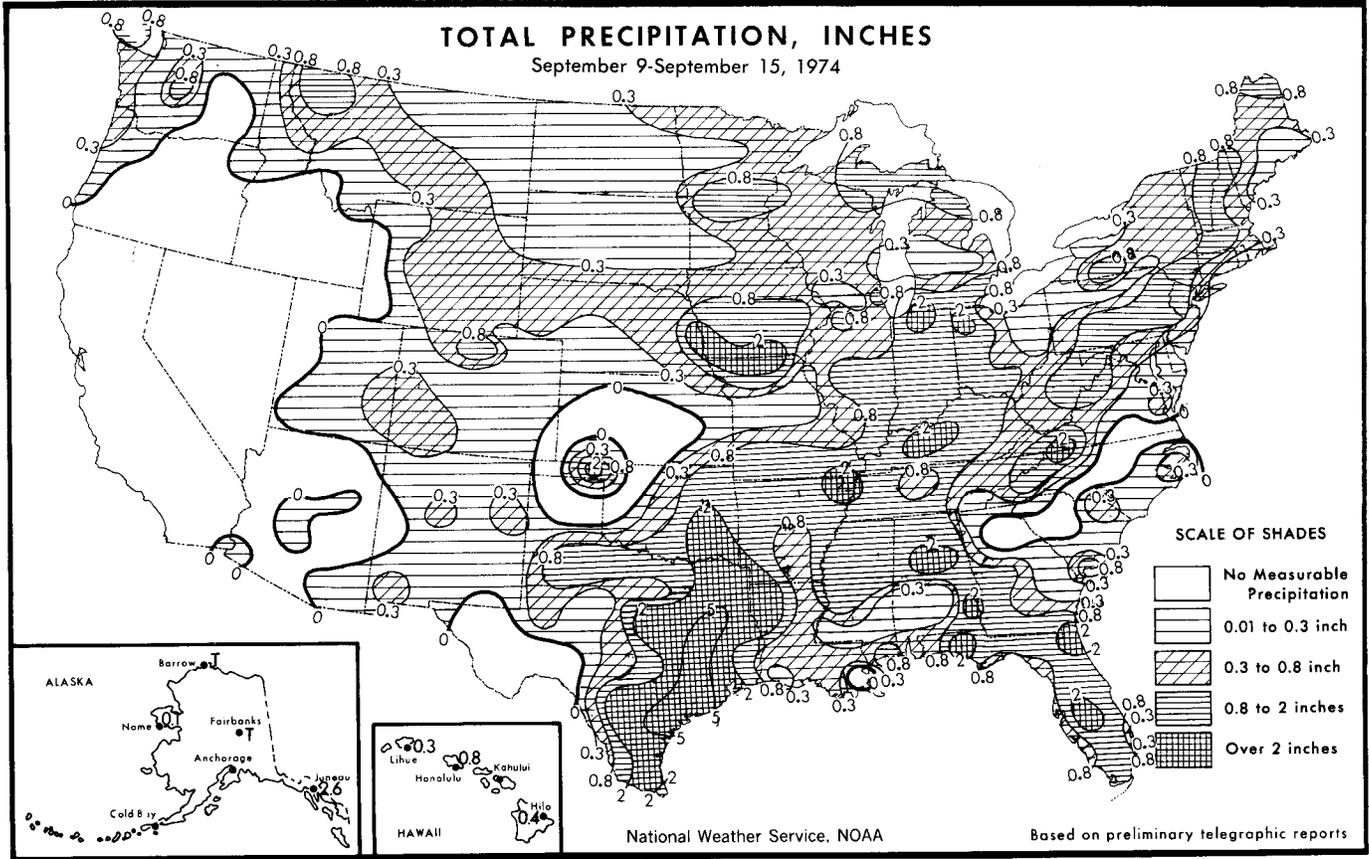
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NATIONAL WEATHER SUMMARY

HIGHLIGHTS: Cold air following the passage of a slow moving front, surged into the U.S. from Canada at midweek spreading cooler than normal temperatures across a wide section of the Central States and West.

Scattered morning frost was reported in many North Central States on Thursday and Friday before the cold air gradually drifted southeast.

Rain fell in the Midwest throughout the week along the leading edge of the cool air mass which moved slowly southeastward. Significant precipitation occurred from Texas north through Minnesota and east through New England.

PRECIPITATION: The remnants of Hurricane Carmen finally diminished over south central Oklahoma late Tuesday. Carmen, a relatively dry hurricane, produced heavy precipitation over east Texas: Victoria 5.50 in.; Houston 4.29 in.

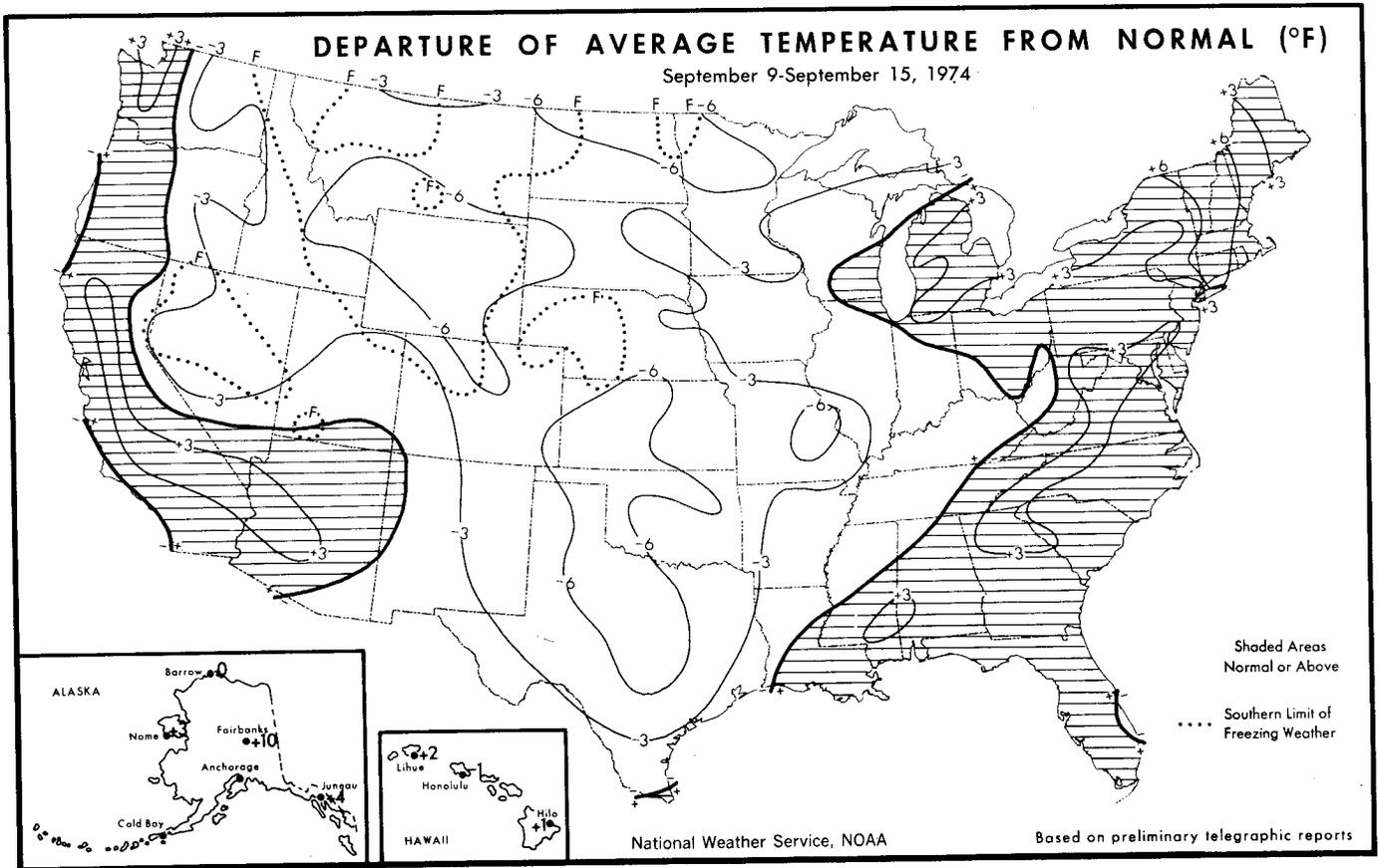
Further west, a complex low pressure system triggered occasional showers in Arizona and New Mexico and some light rain in the Pacific Northwest.

Considerable rain fell across the Midwest on several days as a cold front moved slowly eastward. From 1.00 to 2.00 in. fell across the Central Corn Belt with 0.50 to 1.00 in. in the eastern and western Corn Belt.

Elsewhere, considerable thunderstorm activity caused spotty precipitation in Florida: Lakeland reported 3.23 in.; Jacksonville 6.72 in.

Early Monday, the 9th, Hurricane Carmen, now a tropical storm, caused widespread rain and a few thunderstorms from its center in southeastern Texas through the lower Mississippi Valley to northwestern Florida and the Ohio River.

Showers and thundershowers with some locally heavy rains hit portions of eastern Texas and Oklahoma, Arkansas, and Louisiana on Tuesday.



Idabel, Okla. received over 4.00 in. of rain in 4 hours.

Wednesday, the 11th, unseasonably cold air triggered 1.00 in. of snow at Lander, Wyo., and snow was also reported near Lewiston, Mont.

Showers and thundershowers occurred along a cold front from the Texas Panhandle to northern Lake Huron. Over 2.00 in. of rain was reported at Omaha, Nebr., in a little over 3 hours. Sections of northwestern Missouri got nearly 4.00 in. of rain.

Friday, the 13th, a cold front stretching from south central Texas into Michigan produced heavy rains in southern Texas and the lower Mississippi Valley. College Station, Texas reported 3.78 in. of rain in only 6 hours.

Thundershowers were scattered over much of Florida, the southern Rockies, and Central and Southern Plateaus on Saturday. Locally heavy thunderstorms soaked extreme southern Nevada.

Sunday, the 15th, light to moderate rain fell in west Texas, southeast New Mexico, eastern Kansas, central Missouri, and the northern Great Lakes.

TEMPERATURE: Below normal temperatures covered a wide portion of the central U.S. last week, elsewhere readings were near normal or above. Cold air from Canada caused temperatures in the Nation's heartland to average as much as 8° below normal.

Average temperatures for the week plummeted well below normal as far south as Texas and from the Mississippi River west through the Plains States into the north central Rockies. Temperatures averaged as much as 8° below normal at Abilene,

Texas and Casper, Wyo., while most of the Corn Belt States remained near normal to 3° below.

Meanwhile, a southerly air flow ahead of the front kept average temperatures in the East normal or above during the week. However, temperatures cooled markedly over the weekend as the cold front moved over the Atlantic.

Monday, the 9th, temperatures were warm in the West. Record highs for the day were set at Casper, Wyo., 88° and Phoenix, Ariz., 110°.

Record highs were set Tuesday in several Colorado cities: Pueblo, 97°; Denver, 93°; and Colorado Springs, 90°.

Wednesday, the 11th, cold air flowing southward from Canada dropped temperatures to just above freezing. Cut Bank, Mont., reported a low of 33°. During the afternoon colder air from behind a storm front pushed south into the Central Plains and Rockies holding midday temperatures in the 40's and 50's.

A weather system spread unseasonably cold air south from the upper Rockies, Plains, and Mississippi Valley into the Texas Panhandle on Thursday. Evans-ton, Wyo., reported a freezing 20° and Delhart, Texas plummeted to 49°.

Friday, the 13th, a high pressure system centered in Canada swept cold air into the northern and central portions of the Nation. Record lows were set in Nebraska at Grand Island, 34°, Omaha, 35°, North Platte, 26°; and St. Joseph, Mo., 39°.

By Saturday morning, the cold air mass was centered in the middle Mississippi Valley. Many stations reported temperatures in the 30's and 40's. New lows were recorded in Iowa, Kansas, Nebraska, and Missouri.

Sunday, the 15th, temperatures were much warmer across the Nation.

NATIONAL AGRICULTURAL SUMMARY

HIGHLIGHTS: Subnormal temperatures continued to delay maturity of row crops in the Nation's mid-section. Rain slowed crop harvest South while cool damp weather in the Northern Plains hampered small grain progress.

SMALL GRAINS: Small grain harvest in the Northern Plains was hampered by showers, morning dew and cool temperatures. Spring wheat was about 75% harvested in North Dakota and Montana and 76% in Minnesota. Normally harvest is nearing completion in these States. Durum combining was pushing the halfway point in North Dakota.

Rains slowed seeding of the 1975 winter wheat crop in several States during the week. Seeding was 30% complete in Nebraska, compared with 35% normally done. South Dakota wheat acreage was 55% seeded versus 50% normal.

Texas wheat was 29% seeded against 36% in 1973. Oklahoma farmers made good progress with 10% done against the normal 40%.

Colorado wheat was 48% seeded and 17% emerged while Montana seeding was 45% complete with good topsoil moisture for germination.

CORN: Subnormal temperatures continued over much of the Corn Belt, keeping corn development at a slow pace in most States. Temperatures ranged from 1 to 7° below normal in the western Corn Belt to 4° above normal in parts of the eastern Corn Belt. Maturity progress was much behind normal in all Corn Belt States where only one-third of the crop was mature and safe from frost compared with the average progress of nearly 50%.

In Iowa, the Corn crop is 46% safe from frost versus the normal 60%. In Illinois, 45% was mature, compared with 71% normally. The Indiana crop is trailing with only 10% mature.

Corn harvesting continued in the South where weather permitted. Texas corn was 46% harvested against 43% in 1973 and the average of 54%. In South Carolina, 34% was harvested, 30% in 1973. Corn harvest for grain continues in Kansas, 6% done in Virginia, 8% in Oklahoma, 16% in Georgia, 17% in Alabama, and 22% in North Carolina.

COTTON: Rain and cool weather in several Southern cotton States caused second growth and boll rot along with the continued insect infestation build up. Boll weevil population and damage are high in Tennessee and Arkansas.

Boll opening is progressing well in most States with 30% of the crop open in Louisiana, 26% in South Carolina and 25% in Mississippi.

Harvest was slowed by rain in Texas where 20% of the acreage was harvested, compared with only 8% in 1973 and the average 13%. Harvest continued light in Alabama, Georgia, Mississippi, and South Carolina.

Cotton defoliation is increasing in California. In Arizona cotton picking accelerated. Cotton in New Mexico remained in good condition with 20% of the bolls open south, Pima cotton was still 1 to 2 weeks behind Upland cotton. Harvest was limited to hand picking.

SOYBEANS: Cool temperatures slowed development and warm weather is needed to assure maturity. Subnormal temperatures in the Western Corn Belt kept soybeans maturing slowly, and lagging behind 1973 and average. Soybeans in the Corn Belt are shedding leaves in nearly every State, but at a slower pace than a year ago. In Illinois, 15% is shedding, only half of the 1973 progress of 30% and the average 40%. In Iowa, 16% of

the crop is shedding and 18% is safe from frost, normally 40% is shedding and 32% is safe. Ohio soybeans are the furthest advanced with 40% shedding versus 45% normally.

Soybean prospects improved in Arkansas where late beans are making good growth and fruiting well. In Mississippi, 11% are shedding and 8% are mature versus the normal 14% shedding and 9% mature. A few fields are ready for combining in Alabama and 3% of the crop is harvested in Mississippi.

OTHER CROPS: Rain delayed sorghum harvesting in Texas, but 53% of the crop was harvested against 47% in 1973. Kansas sorghum was 15% mature while sorghum condition in Nebraska declined and 25% was ripe.

Flue-cured tobacco harvesting was 68% complete in Virginia, nearing completion in North Carolina where 42% of the burley crop had been harvested. In Kentucky burley was 41% cut. Wetness is causing lower leaves to fall off stalks on unharvested tobacco. Barned tobacco has burn damage.

Rain slowed the peanut harvest in Georgia where 29% was dug. Digging was 23% done in Texas, compared with 26% dug in 1973. Harvest hasn't started in the major producing areas of North Carolina.

Frost killed potato vines in east Idaho, spraying and mechanical killing were active elsewhere. Harvest active Southwest, beginning elsewhere. Harvest is gaining in north Aroostook County, Maine. Digging is underway in Washington and on the decline in Stockton, Calif.

Rice harvest is nearing completion in Texas with 92% done. Early harvest continues in Arkansas, the late varieties need favorable weather.

The dry bean harvest is well underway in Michigan, California and Idaho.

Most damage to the sugarcane crop in Louisiana caused by Hurricane Carmen was lodging. Excessive moisture is delaying planting.

FRUITS AND NUTS: Harvest of early Delicious apples active in California and Washington. Golden Delicious are being picked in Oregon. Early variety grape harvest continues in New York. Concord development normal as harvest nears. In California, harvesting active San Joaquin Valley, crushing started. Raisin drying conditions very favorable, table harvest continues. The California almond harvest half completed, early walnut varieties are being harvested.

VEGETABLES: Sweet corn harvest continues in Oregon, Washington, New York, Michigan, and Wisconsin. Snap bean harvest active in New York and ending in Oregon. Harvest continued in Washington and California for broccoli, cauliflower, and carrots. Lettuce harvesting was in heavy volume in California and making good progress in Pima County, Ariz. Planting cool season vegetables in Texas slowed by weather.

PASTURES AND LIVESTOCK: Pastures continue to gain over much of the eastern half of the Nation as soil moisture supplies improve. Most of the Western ranges remained dry. Fall and winter grazing prospects are fair in Wyoming and Utah, and dry or short in Oregon, Washington, Nevada, Arizona, and Idaho. Supplemental feeding of livestock in California necessary, but cost is keeping it at a minimum. Cattle moving onto stubble in many areas.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Sept. 15, 1974

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 . . .	76	+ 1	2.3	+1.4	La. Baton Rouge . . .	80	+ 1	.3	-.6	Youngstown	64	0	.1	-.5
Mobile	80	+ 2	.4	-1.3	Lake Charles	79	0	.2	-.8	OKLA. Okla. City . .	70	- 4	.7	-.1
Montgomery	78	+ 1	.2	-.9	New Orleans	81	+ 2	T	-1.4	Tulsa	68	- 6	1.4	+ .4
ALASKA Anchorage . .	---	---	---	---	Shreveport	75	- 3	2.7	+2.0	OREG. Astoria	60	+ 1	.3	-.3
Barrow	32	0	T	-.1	MAINE Caribou	57	+ 2	1.0	+ .2	Burns	56	- 3	0	-.1
Fairbanks	56	+10	T	-.3	Portland	65	+ 5	.3	-.4	Medford	57	+ 1	0	-.1
Juneau	54	+ 4	2.6	+1.0	MD. Baltimore	73	+ 3	.5	-.3	Pendleton	63	- 2	T	-.1
Kodiak	---	---	---	---	MASS. Boston	70	+ 4	.6	-.2	Portland	65	+ 2	.2	-.1
Nome	47	+ 3	.1	-.5	Chatham	66	---	T	---	Salem	64	+ 1	.3	0
ARIZ. Flagstaff . . .	60	+ 1	T	-.4	MICH. Alpena	60	+ 3	.9	+ .1	PA. Allentown	67	+ 1	1.6	+ .7
Phoenix	89	+ 4	.2	0	Detroit	67	+ 2	.9	+ .4	Erie	65	+ 2	T	-.8
Tucson	81	0	.2	-.2	Flint	66	+ 4	.3	-.3	Harrisburg	69	+ 1	1.4	+ .8
Winslow	72	+ 1	.2	0	Grand Rapids	65	+ 1	.1	-.7	Philadelphia	73	+ 4	.7	0
Yuma	90	+ 2	T	-.1	Houghton Lake	61	+ 3	.6	-.2	Pittsburgh	67	+ 2	.7	+ .1
ARK. Fort Smith . . .	70	- 5	1.8	+1.0	Lansing	66	+ 3	.4	-.2	Scranton	67	+ 3	.9	+ .2
Little Rock	73	- 1	.4	-.5	Marquette	55	- 3	1.7	+ .9	R. I. Providence . . .	69	+ 4	.1	-.7
CALIF. Bakersfield . .	82	+ 4	0	0	Muskegon	66	+ 3	.2	-.6	S. C. Charleston . . .	78	+ 2	.2	-1.1
Eureka	57	0	0	-.1	S. Ste. Marie	53	- 3	1.5	+ .5	Columbia	77	+ 1	T	-1.1
Fresno	77	+ 2	0	0	MINN. Duluth	49	- 6	.4	-.3	Greenville	75	+ 2	.1	-.8
Los Angeles	73	0	0	-.1	Internatl Falls	50	- 4	.4	-.4	S. D. Aberdeen	58	- 2	.1	-.3
Red Bluff	80	+ 4	0	-.1	Minneapolis	58	- 3	.5	-.2	Huron	60	- 2	.1	-.3
San Diego	70	0	0	0	Rochester	57	- 3	.5	-.3	Rapid City	56	- 6	.1	-.2
San Francisco	66	+ 1	0	0	St. Cloud	54	- 5	1.6	+ .9	Sioux Falls	60	- 2	.3	-.4
Stockton	76	+ 3	0	0	MISS. Jackson	77	0	.9	+ .2	TENN. Chattanooga . .	74	+ 1	.1	-.8
COLO. Denver	57	- 7	T	-.3	Meridian	79	+ 3	.1	-.7	Knoxville	75	+ 2	.6	-.1
Grand Junction	67	- 1	.4	+ .2	MO. Columbia	64	- 5	.1	-1.0	Memphis	73	- 2	.9	+ .2
Pueblo	63	- 4	.1	-.1	Kansas City	66	- 4	.1	-.9	Nashville	72	- 1	.6	-.2
CONN. Bridgeport . . .	70	+ 2	.1	-.6	St. Louis	65	- 6	.5	-.2	TEX. Abilene	69	- 8	.2	-.3
Hartford	71	+ 7	.3	-.6	Springfield	66	- 4	1.1	+ .1	Amarillo	66	- 5	T	-.4
D. C. Washington . . .	75	+ 3	.3	-.4	MONT. Billings	54	- 6	.6	+ .2	Austin	73	- 7	.9	0
FLA. Apalachicola . .	82	+ 3	.3	-2.0	Glasgow	54	- 4	T	-.2	Beaumont	79	- 1	1.4	+ .1
Daytona Beach	81	+ 1	1.0	-.7	Great Falls	53	- 5	.4	+ .1	Brownsville	82	0	1.7	+ .4
Ft. Myers	83	+ 1	.7	-1.5	Havre	55	- 3	.1	-.2	Corpus Christi	79	- 3	3.2	+2.0
Jacksonville	80	+ 1	2.7	+ .8	Helena	51	- 6	.1	-.1	Del Rio	78	- 3	T	-.7
Key West	84	0	1.2	-.6	Kalispell	50	- 5	1.1	+ .8	El Paso	74	- 1	T	-.3
Lakeland	82	+ 1	3.2	+1.7	Miles City	56	- 5	.2	-.1	Fort Worth	73	- 6	.8	0
Miami	84	+ 2	1.2	-.8	Missoula	53	- 4	.5	+ .2	Galveston	79	- 2	3.2	+1.8
Orlando	83	+ 2	1.8	0	NEBR. Grand Island . .	61	- 4	.4	-.2	Houston	77	- 3	4.3	+3.2
Tallahassee	81	+ 2	1.7	0	Lincoln	62	- 5	.1	-.6	Lubbock	66	- 6	1.0	+ .5
Tampa	83	+ 2	T	-1.6	Norfolk	62	- 2	.4	-.2	Midland	71	- 5	.4	0
W. Palm Beach	82	0	.5	-1.8	N. Platte	60	- 3	.2	-.3	San Angelo	73	- 5	.1	-.6
GA. Atlanta	76	+ 3	0	-.8	Omaha	61	- 4	2.3	+1.5	San Antonio	74	- 6	3.2	+2.3
Augusta	77	+ 3	T	-.8	Valentine	58	- 5	.6	+ .2	San Antonio	77	- 4	5.5	+4.4
Macon	78	0	.8	0	NEV. Ely	53	- 5	0	-.1	Victoria	74	- 6	3.0	+2.2
Savannah	78	+ 1	.2	-1.2	Las Vegas	84	+ 3	0	-.1	Waco	74	- 2	.9	+ .3
HAWAII. Hilo	77	+ 1	.4	+ .7	Reno	57	- 4	0	-.1	Wichita Falls	72	- 6	.3	+ .2
Honolulu	80	- 1	.8	+ .7	Winnemucca	57	- 3	0	-.1	UTAH. Blanding	63	- 2	.5	+ .3
Kahului	78	- 1	0	-.1	N. H. Concord	67	+ 6	.4	-.4	Salt Lake City	63	- 3	T	-.1
Lihue	81	+ 2	.3	-.1	N. J. Atlantic City . .	70	+ 2	.1	-.6	VT. Burlington	66	+ 6	.4	-.3
IDAHO. Boise	61	- 3	T	-.1	Trenton	70	+ 2	.9	+ .1	VA. Lynchburg	72	+ 3	.2	-.6
Lewiston	62	- 3	.1	-.1	N. MEX. Albuquerque . .	69	- 2	.4	+ .2	Norfolk	75	+ 2	T	-1.0
Pocatello	56	- 5	T	-.1	Roswell	68	- 4	.7	-.3	Richmond	73	+ 2	0	-.9
ILL. Cairo	70	- 3	.8	0	N. Y. Albany	66	+ 3	.4	-.4	Roanoke	71	+ 2	.4	-.4
Chicago	67	0	.6	-.1	Binghamton	64	+ 3	.3	-.4	WASH. Colville	56	- 4	.2	0
Moline	65	- 1	.6	-.3	Buffalo	67	+ 4	.1	-.7	Omak	60	- 4	.1	0
Peoria	65	- 2	.5	-.4	New York	71	+ 2	.4	-.4	Quillayute	59	+ 2	.4	-.6
Rockford	64	0	.1	-.9	Rochester	68	+ 5	.2	-.4	Seattle-Tacoma	63	+ 3	T	-.4
Springfield	66	- 2	1.8	+1.0	Syracuse	66	+ 2	.5	-.1	Spokane	57	- 3	.2	0
IND. Evansville	68	- 2	1.6	+ .9	N. C. Asheville	72	+ 4	1.2	+ .4	Walla Walla	64	- 3	T	-.2
Ft. Wayne	67	+ 1	.9	+ .3	Charlotte	74	+ 1	T	-.8	Yakima	60	- 3	T	-.1
Indianapolis	66	- 1	1.7	+1.0	Greensboro	74	+ 3	T	-.8	W. Va. Beckley	65	+ 1	.3	-.5
South Bend	69	+ 4	3.0	+2.3	Hatteras	77	+ 2	0	-1.4	Charleston	68	- 1	.8	+ .1
IOWA. Burlington . . .	64	- 2	.3	-.6	Raleigh	74	+ 2	0	-.9	Huntington	69	0	.5	-.2
Des Moines	64	- 1	.9	+ .1	Wilmington	78	+ 2	T	-1.4	Parkersburg	69	0	.6	-.1
Dubuque	62	- 1	.1	-1.0	N. DAK. Bismarck	54	- 4	.1	-.2	WIS. Green Bay	59	- 1	.5	-.3
Sioux City	60	- 4	.5	-.2	Fargo	53	- 6	T	-.5	La Crosse	60	- 3	.5	-.3
KANS. Concordia	63	- 6	T	-.8	Williston	52	- 6	.1	-.2	Madison	62	+ 1	.3	-.5
Dodge City	63	- 7	.1	-.3	OHIO. Akron-Canton . .	66	+ 1	.2	-.4	Milwaukee	64	+ 2	.1	-.7
Goodland	61	- 4	T	-.3	Cincinnati	66	- 3	1.8	+1.2	WYO. Casper	52	- 8	.5	+ .3
Topeka	65	- 4	.2	-.6	Cleveland	66	+ 1	.2	-.5	Cheyenne	54	- 5	.2	-.1
Wichita	67	- 5	T	-.9	Columbus	68	+ 2	.5	-.1	Lander	53	- 7	.5	+ .3
KY. Lexington	68	- 2	1.6	+1.0	Dayton	66	- 1	.9	+ .3	Sheridan	53	- 6	.5	+ .2
Louisville	68	- 2	2.0	+1.3	Toledo	67	+ 2	.5	-.1	P. R. San Juan	83	+ 2	.8	-.6

Based on 1941 - 70 normals

CONDENSED STATE SUMMARIES

The Bulletin capsulizes nationally important weather and crop conditions. Every Monday SRS publishes more detailed data in State Weekly Weather and Crop Bulletins in cooperation with the National Weather Service, NOAA. Voluntary weather observers, crop reporters, and county extension agents contribute weekly observations for these reports.

ALABAMA: Precipitation mostly north through 14th. Generally dry south. Sunny, cool across State 15th, early morning low's in 50's northern counties, 60's central and south.

Cotton and corn harvest gained a little momentum while peanut harvest made good advancement. Cotton 16% open with few bales harvested south and central. Corn harvest 17% complete. Soybeans yellowing many fields with beans maturing earliest fields. Few fields ready for combining. Peanut harvest made good progress with 12,682 tons inspected through September 13 compared with 10,245 in 1973. Wet weather slowed hay harvest early in period.

ALASKA: Tanana Valley, Matanuska Valley, and Big Delta received light precipitation and temperatures were above normal. Kenai Peninsula: Received 1.44 in. of precipitation, temperatures averaged 3° above normal. Kodiak: A very wet week with 5.65 in. of precipitation, temperatures near normal. Precipitation still below normal at all stations except Kodiak.

Harvest most crops 50% or better completed. Yields are generally below average to average. Ground moisture continues in short supply throughout the Railbelt.

ARIZONA: Hot, dry first of week. Maximums: 105 to 110° southwest deserts, 80's in mountains. Cooler, scattered thundershowers last of week. Widely scattered hail.

Cotton good condition, picking accelerating. Sorghum harvest continued Yuma area. Later fields various stages development. Sugarbeet planting active western, central. Cochise County beets maturing. Harvest early October. Alfalfa seed harvest western areas, yields low. Lettuce Pima County good progress. Seedbed preparation, planting, irrigation lettuce, cabbage, broccoli full swing Yuma. Fall cantaloups good progress Yuma. Scattered rain various parts central, south-eastern improved water supplies, range growth. Both continue short. Cattle, sheep conditions mostly fair.

ARKANSAS: Precipitation general from less than 1.00 to 6.00 in. Temperatures averaged between 67 and 76°; warm midweek, cooler weekend.

Excessive soil moisture, high humidity, cool weather caused added top growth, boll rot, poor boll development, and disease in cotton. Condition fair. Insect infestation building up. Hot, dry weather needed. Early rice harvest continued, condition good. Late varieties need favorable weather. High humidity caused disease. Soybean prospects improved, late beans making good growth, and fruiting well, early beans maturing rapidly. Cool, moist weather helped set beans. Land preparation and seeding of small grains continued. Corn and sorghum need dry field and weather conditions for harvest. Little hay harvested, too rainy and humid. Pastures providing ample forage. Cattle in excellent condition making good gains.

CALIFORNIA: Fair, warm weather, only isolated thundershower near Mt. Shasta on 7th, and north of Yosemite evening of 13th. Dry north winds north half on 11th and 12th, temperatures at San

Francisco to 89°. Central Valley high temperatures mostly in 90's all week. Sacramento Valley, north and south coasts averaged above normal, San Joaquin Valley and central coast well above normal.

Planting small grain still limited. Rice harvest slow, cotton defoliation increasing. Harvest milo, field corn beginning central interior valleys. Threshing dry beans increasing. Hoppers problems on grapes, harvesting active valley. Ripening erratic, thinning "second" crop, crushing started, sugar holding back. Raisin drying conditions very favorable, some boxing. Table grape harvest continues, Thompson closing. Almond harvest 50% completed, crop good. Early walnut varieties being harvested, husk flies, sunburn problems, crop good. Pear harvest nearly complete. Apple harvesting, especially Delicious active. Peach harvest nearly complete outside south, plum harvest about over. Some mite problems prunes. Avocado harvest slowing south. Valencia orange harvest continues light. Granulation problems. Lemon picking slowing. Olives good size. Broccoli volume good Salinas, cauliflower moderate. Some brussels sprouts lost inside decay. Cantaloup continues westside, carrot movement good Salinas; decreased Hemet. Celery heavier Salinas, honeydew continues Sacramento, central San Joaquin Valleys. Lettuce volume heavy, variable quality. Bell pepper increasing Gilroy, King City. Potato digging declining Stockton. Southern unchanged. Sweetpotato continues Livingston. Market tomato light Stockton, heavier southern. Range conditions vary. Feed value low, supplemental feeding necessary. Sheep on stubble in San Joaquin Valley. Livestock condition varies good, fair. Movement of cattle slowed by prices, grass fat beef currently being marketed. Movement turkeys to processors active. Bee colonies in range, harvested grain. Water ample most areas.

COLORADO: Generally dry eastern third, significant precipitation western two-thirds. Midweek cold front produced cloudiness and moderate moisture from eastern foothills west to State line. Light precipitation over southern and eastern portions late week. Snow along mountains with over 4.00 in. local areas. Moisture totals over eastern third under 0.10 in., elsewhere between 0.25 and 0.75 in. Mean temperatures 3 to 7° below normal east and normal to 5° below west. Maxima above 100° east Colorado 10th, minima 21° Walden on 13th.

Corn 70% dented, 60% mature (safe from frost) condition good. Corn silage harvest 46% complete. Sorghum 62% turning color, 12% ripe, fair condition. Winter wheat 48% seeded, 17% emerged. Dry beans 58% cut, 17% threshed. Summer potato harvest 65% complete. Alfalfa 92% second cut, 54% third cut.

FLORIDA: Warm days with scattered thundershowers for the week. Temperatures averaged near normal and rainfall generally moderate.

Soil moisture adequate north and central, excessive in west and south. Corn and peanut harvest active. Cotton and soybeans fair to good condition, both crops maturing. Sugarcane growing well, cutting cane for seeds continues. Hay and silage

making active in drier areas. Land preparation for small grains underway. Pasture conditions are good to excellent. Cattle and calves are good to excellent. Trees and fruit condition excellent. Rains slowing, moisture generally adequate. Harvest of 1974-75 well underway, new crop fruit color fair to good. Cabbage planting started, celery transplanting picking up, seeding, setting tomatoes continues. Leaf crop, cucumber seeding active, planting of snap beans, squash increasing. Southern peas, okra, squash moving to local markets.

GEORGIA: Temperatures averaged below normal. Central temperatures 3 to 5° below normal. Elsewhere temperatures averaged from 1 to 2° below normal. Rainfall averaged about 0.50 in. to 3.00 in. Heaviest amounts south central Georgia with more than 4.00 in. at Ashburn.

Soil moisture adequate in northern half, adequate to surplus in southern half. Rain slowed most activities especially peanut harvest. Cotton fair to mostly good, 2% harvested. Boll rot taking its toll. Corn good, 16% harvested. Peanuts good; 29% dug still well below normal. Soybeans good, rain hampered insect control. Cattle and pastures remain good. Hay crops good harvest delayed. Sweetpotatoes good. Pecans mostly fair to good.

HAWAII: Except for Waianae area on Oahu where more rains fell, most parts remained dry.

Losses from rain generally light. Irrigation resumed to maintain crop growth most other areas. Immediate rains needed to alleviate drought condition on island of Hawaii and increase water supply other islands. Vegetables adequate supply. Papaya and banana production increasing, pastures in some Lee areas continue dry, supplemental feeding in progress. Sugar operations active; pineapple harvesting less active.

IDAHO: First taste of fall weather during period. Arctic cold front first of week brought cloudiness south and southwest and rain up to 0.50 in. north, lesser amounts central and traces east. Maxima temperatures ranged 80's to low 90's, minima mid-20's and 30's, average below normal.

Fall harvesting active. Frosts east killed potato vines many localities. Rains needed dry-land areas for fall seeding. Cattle moving from range areas. Combining spring grains near completion. Potato harvest active southwest, beginning other areas. Spraying and mechanical killing vines active non-frost areas. Rapid progress dry bean harvest, 66% swathed, over 25% threshed. Harvesting alfalfa seed, hops, and onions with prunes, plums, peaches and pears complete.

ILLINOIS: Temperatures near normal north; southern half 2 to 6° below normal. Precipitation 0.50 to 1.50 in. most sections; south-central portion 2.00 to 4.00 in.

Corn dent stage about 80%, 100% 1973, 3-year (1971-73) average 96%. Nearly 45% mature, 71% both 1973 and average, condition fair to good. Soybeans 30% turning yellow, 80% 1973, average 85%, 15% shedding leaves, 30% 1973, average 40%, condition fair to good. Third cutting alfalfa hay 80% complete, ahead of normal progress. Seeding of 1975 winter wheat about 3% complete, normal 6%. Pasture condition mostly fair to good. Soil moisture 28% short, 44% adequate, 28% surplus. Fieldwork averaged 5 days suitable.

INDIANA: Warm north, cool south. Rainfall 1.00 to 3.00 in.; least in central, most in

north and south. No frost. Lowest temperature 39° in south, highest 89° at South Bend.

Fieldwork averaged 4 days, southeast averaged 1 day. Topsoil and subsoil moisture improved, mostly adequate. Deficiencies persist in north. Corn 90% in dough or beyond, 95% average, 55% dented, 80% average; 10% mature, 30% average. Soybeans 20% turning yellow, 45% in 1973; 5% shedding leaves, 20% in 1973. Plowing of land for 1975 winter wheat 50% complete, 2 weeks behind average. Silos 20% filled, 25% in 1972 and 40% in 1973. Tobacco harvest 25% complete, 50% in 1972 and 55% in 1973. Pastures continued gains, rated mostly fair to good.

IOWA: Warm first of week, cool last part, with temperatures averaging near or slightly below normal. Rain midweek averaged about 1.00 in. south and central with below normal amounts north.

Crops maturing slowly. Fieldwork: 5.1 days suitable, average 5.0 days. Corn 74% dented, 46% safe from frost, average safe from frost 60%. Soybeans; leaves turning on 43%, shedding on 16%, average 40%, safe from frost 18%, average 32%. Winter wheat planting 12% complete. Third cutting alfalfa 70% complete, yields fair. Topsoil moisture 12% short, 80% adequate, 8% surplus.

KANSAS: Temperatures ranged 62° northwest to 67° southeast, 4 to 8° below normal. Freezing temperatures extreme northwest 13th. Scattered frost northeast, northwest 13th, 14th. Precipitation light. Less than 0.25 in., latter half week. Spotty rains extreme northeast and southeast.

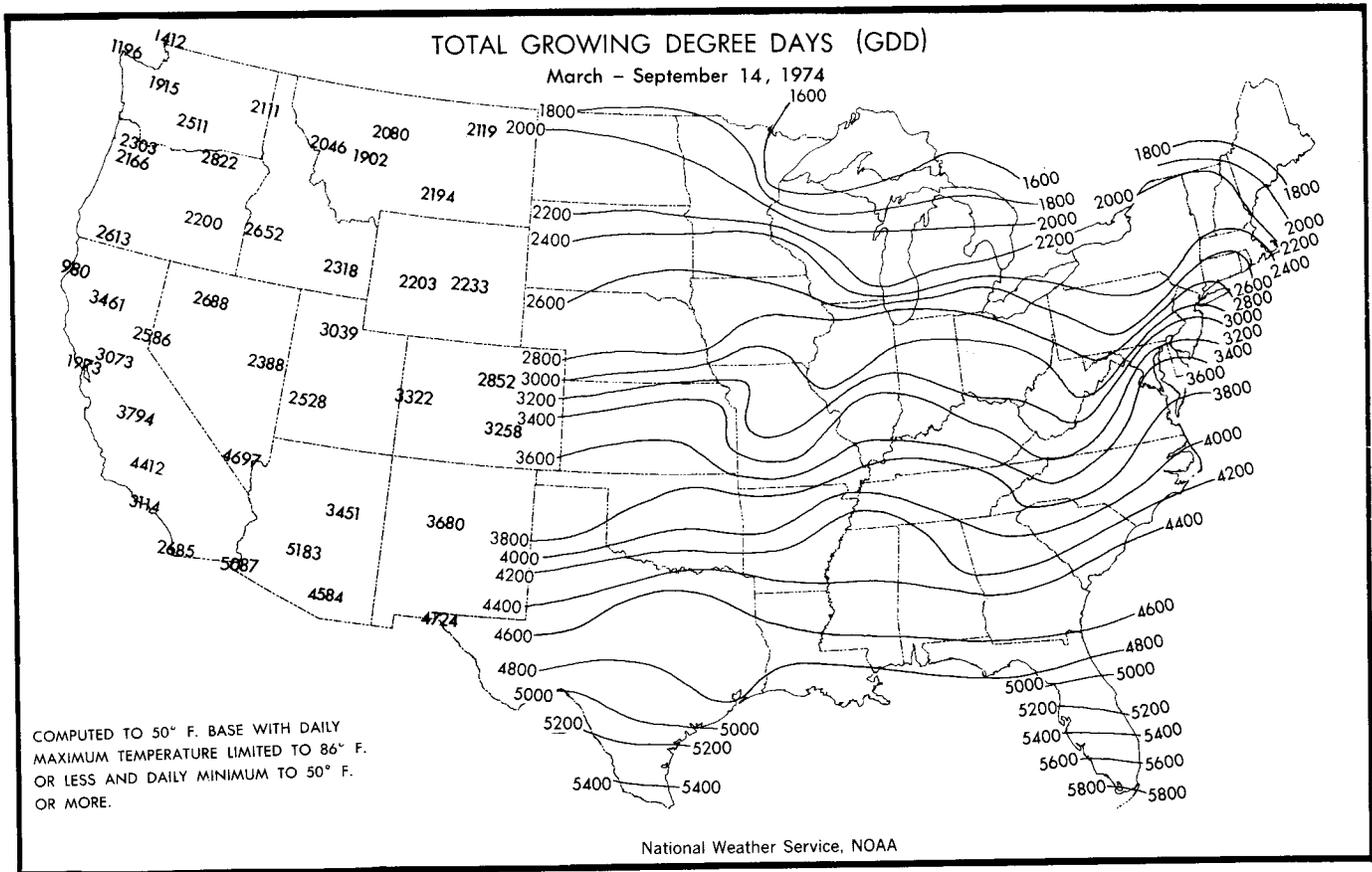
Crop development slowed by cool weather. Additional frost damage corn and sorghum Sept. 13. Sorghum 15% matured, 20% average. Corn 50% matured, 55% average. Harvesting corn underway southeast and south central. Soybean development later than normal. Wheat seeding 10% completed, same average. Third cutting alfalfa 95% harvested, average same. Fourth cutting 25% completed, 5 points below average. Some supplemental feeding and volunteer wheat grazing western third.

KENTUCKY: Temperatures averaged near normal. Precipitation most of week, totals over 1.00 in. most areas. Cool, dry weather at week's end.

Rain and muddy fields limited fieldwork to 2 days. Soil moisture excessive statewide. Some tobacco harvested between showers. Burley 41% cut, 66% 1973. Dark types 56% cut, 63% 1973. Wetness causing lower leaves to fall off stalks of unharvested tobacco. Much barned tobacco has houseburn (rotting) damage. Drier weather needed badly. Corn 72% safe from frost, 76% 1973; 27% mature enough for harvest, 37% 1973. Fields too soft for harvest. Soybeans maturing slowly, only 38% leaves turning yellow or shedding, 50% in 1973. Wetness stopped fall plowing, 15% complete. Less than 5% fall wheat seeded. Pastures well above normal.

LOUISIANA: Temperatures 4 to 5° below normal north, 2° above central and south. Cold front late week. Extremes: 95° Bogalusa and 66° Minden. Precipitation light to heavy. Greatest 1-day rain, 2.03 in. Minden.

Fieldwork possible 1.1 days. Soil moisture surplus. Machinery repair, insect control, rice combining and sweetpotato harvest main activities. Cotton fair, showers causing second growth and boll rot. Insect control continues, 30% open. Soybeans fair, early varieties ready for harvest. Excessive moisture causing some lodging.



Rains hampered rice harvest, 87% complete, 60% 1973. Northeast 15% complete. Sugarcane fair, Hurricane Carmen damage mostly lodged, excess moisture delays planting. Sweetpotatoes fair to good, showers hampered digging, 50% harvested. Hay fair, pastures average. Livestock fair to good.

MARYLAND AND DELAWARE: Temperatures normal to 4° above. Highs upper 80's to low 90's, and low from low 50's to 80's. Precipitation all areas, 0.44 to over 3.75 in. heaviest scattered north central Maryland.

Field activities slowed by wet fields. Silo filling and land preparation for fall seeding most common. Corn for grain 60% mature, same as 1973. Grain drying slowly, 6% harvested, 1973 13%, average 8%. Tobacco harvest delayed awaiting better curing weather. Soybeans continue to grow, only 8% yellowing, usual 24%. Insects building up on late acreages, control spraying increasing.

MICHIGAN: Temperatures averaged 2 to 6° above normal Lower Peninsula 0 to 4° below Upper. Precipitation 1.00 to over 2.00 in. Upper Peninsula; 0.50 to 1.50 in. northern Lower; 0.50 to 1.00 in. southern Lower Peninsula, except around 2.00 in. extreme southwest.

Warmer weather helped crop development, crops far behind normal in maturity. Soil moisture mostly short south, short to adequate elsewhere. Fieldwork averaged 5.1 days. Nearly 55% corn dented or more advanced, 1973 84%. Corn silage 12% harvested, 1973 25%. Soybeans 10% shedding, 1973 20%. Dry beans 10% harvested, 1973 75%.

Many bean fields need 2 to 3 weeks warm weather to mature. Fall potato harvest full swing Montcalm County. Third cutting hay 45% made. Pasture feed short south, average north. Peach and pear harvest nearly finished southwest, well along elsewhere. Fall apple picking started. Sweet corn and cucumber for pickle harvest near end.

MINNESOTA: Third consecutive cool week. Temperatures averaged 3 to 6° below normal. Extremes: upper 80's early in week southwest, upper 20's north central midweek. Most of State received 0.30 to 0.40 in. precipitation average, or 0.33 to 0.50 in. below seasonal normals. Above normal amounts, 1.50 to 2.50 in. early in week from Alexandria to St. Croix Falls.

Cool wet conditions slowed small grain harvest, northern counties, but a sunny, windy weekend speeded field drying of the freeze damaged corn and soybeans. Oat harvest is about complete, spring wheat 76% and barley 83% combined, normally these crops all harvested. Corn and soybean development slowed by cool weather southeast and south central where only light frost occurred. In other areas ripening was hastened by heavy freeze Labor Day weekend. Corn nearly 33% mature, 1973 67%, average 52%. Soybeans 78% yellowing and beyond, 1973 99%, average 92%. These crops mostly poor to fair condition.

MISSISSIPPI: Temperatures 2 to 4° subnormal. Extremes: 92 and 56°. Greatest 24-hour rainfall was 4.77 in. Generous rainfall over State with southern third receiving most.

Soil moisture adequate to surplus. Fieldwork: 2.7 days suitable. Cotton 25% open bolls, less

than 1% harvested, normal 22% open, 2% harvested. Soybeans 25% turning, 11% shedding, 8% mature, normal 32% turning, 14% shedding, 9% mature. Rice 36% mature, 3% harvested, normal 45%, mature 6% harvested. Condition of crops fair to good.

MISSOURI: Temperatures continued cool, averaging about 3° below normal. Near record low temperatures 14th, with readings mid 30's to low 40's much of State. Rainfall averaged close to 0.75 in. but varied from less than 0.10 in. west central to more than 2.00 in. north central.

Fieldwork: 3 days suitable. Corn poor to fair condition, 77% dented, 27% mature, 38% mature 1973. Grain sorghum 33% mature, 32% 1973. Soybeans fair to good condition, 89% setting pods, 13% turning color, 35% turning color 1973. Cotton mostly fair condition, 9% bolls open, 6% 1973. Third cutting alfalfa 77% complete. Pastures fair to good, soil moisture adequate to surplus.

MONTANA: Temperatures warm 9th, considerable cooling by 11th, warming again over weekend. Temperatures averaged below normal, minimums in 20's and lower 30's midweek. Precipitation general first of week. A few mountain stations reported more than 1.00 in.

Harvesting progress good late in week. Spring wheat 75% and 85% barley and oats harvested. Last year grain harvest complete. Winter wheat seeding 45% complete compared to 35% 1973. Topsoil moisture adequate most areas. Germination good in north central, south central and northeast, good to fair elsewhere. Corn silage chopping 40% done. Dry bean harvest 15% complete. Range feed supplies adequate except western third. About 25% cattle and 35% sheep and lambs moved from summer ranges.

NEBRASKA: Temperatures above normal first of period then below normal. Rainfall general over State, heavier east central and southeast.

Fieldwork: 5.9 days. Topsoil moisture supplies short 58%, subsoil short 85%. Silage harvesting and wheat planting well underway. Irrigated corn fair to good, dryland poor to fair condition. Crop continues to deteriorate, 85% of both irrigated and non-irrigated corn in dent, normal 92%, 35% mature, 46% normal. Some early corn harvested moisture content high. Sorghum condition declined, mostly fair, some heads filled poorly, 70% turned, normal 90%, 25% ripe, near normal. Soybean condition mostly fair, 55% leaves turned, 73% normal, 20% leaves shed, normal 28%, 10% mature, normal 12%. Wheat 30% sown, normally 35%. Alfalfa third cutting 90% harvested. Dry edible bean harvest begun. Range and pasture feed supplies short 86% counties. Supplemental feeding continues.

NEVADA: Week began warm but abrupt cooling trend midweek. Temperatures dropped from 5 to 10° above normal early to 10 to 15° below normal midweek. By week's end temperatures normal slightly above. Extremes: 19° Mountain City to 106° Las Vegas and Logandale no measurable rainfall.

Small grain harvest nearly complete all areas. Alfalfa hay ranges from third cutting west to sixth cutting Southern Valleys. Alfalfa seed harvest good progress. Potato digging underway Winnemucca area limited scale. Livestock continue move early from summer ranges.

NEW ENGLAND: Warming trend through 13th, then below normal temperatures. Occasional light rain north early week, general showers on 13th. Amounts 0.25 in. north, generally over 0.50 in. south.

Massachusetts cranberry harvest began week's end, color and quality good, size average to large. Apples look good, few Macs harvested, color generally good,

size varies. Potato harvest active north Aroostook County, Maine, prospects good. Some corn silage cut, most waiting till Oct. 1. Vegetables good supply, harvesting butternut squash.

NEW JERSEY: Temperatures averaged 66° north, 69° central and 70° south. Extremes: 38° at Long Valley on 15th and 90° at Hammonton on 13th. Rainfall averaged 0.70 in. north, 0.63 in. central and 0.25 in. south. Heaviest daily total 1.02 in. at Belvidere Bridge on 13th.

Soil moisture expressed in % field capacity 91% north, 83% central and 64% south. Damp weather delayed hay making. Sowing of fall grains underway. Corn silage cutting increasing. Harvest of corn for grain beginning in some areas. Sweetpotato harvest increasing. Irish potato harvest in full swing. Supplies of summer vegetable crops declining. Peach harvest virtually complete. Apple harvest continues, cranberry harvest started.

NEW MEXICO: Above normal temperatures 9th through 12th with strong cooling 12th to 15th. Cold air from north brought general rainfall. Central and eastern portions 0.50 to 1.00 in. precipitation, western third mostly 0.25 in.

Topsoil moisture short to mostly adequate, subsoil mostly short. Cotton good, bolls 20% open, south; Pima 1 to 2 weeks behind Upland, harvest limited to hand-pick. Alfalfa good, 4th cut 40% north, almost done south; 5th cut 20% south, almost done southeast; 6th cut outlook good extreme south. Irrigated sorghum good 75% in dough. Irrigated corn corn good, dry fair. Fall grain seeding active east. Chile good, apple crop light, harvests in progress. Fall lettuce good, weedy fields south. Peanuts, broomcorn progress satisfactory. Livestock, ranges fair to good.

NEW YORK: Temperatures averaged 4° above normal. Rainfall generally below normal. Scattered showers northeastern New York 9th and 10th. Elsewhere fair and mild into midweek. Unseasonably warm and showery 12th and 13th, much cooler weekend. Highs 14th 20° cooler than on 13th. Extremes: 88° New York City, 38° Albany.

Weather favorable for fieldwork. Second cutting alfalfa nearly complete, 3rd cutting 55%. Rains aided regrowth. Corn silage harvest increasing, 5% done. Plowing for winter wheat underway. Soil moisture adequate. Long Island early variety potato harvest almost complete, late varieties beginning. Upstate potato growers getting vine growth. Sweet corn harvest continues with 75% complete. Snap beans, cabbage, cauliflower and celery harvest continues in volume. Orange County onion harvest continues with good yields. Upstate onion areas pulling and topping. Hudson Valley apple condition good as coloring improves. Western apple harvest to pick up this week. Early variety grape harvest continues. Concord development normal with harvest for cold press to begin next week.

NORTH CAROLINA: Temperatures averaged 1 to 3° above normal. Rain all areas, heaviest north central.

Fieldwork averaged 4.4 days. Soil moisture 19% surplus, 79% adequate, 2% short. Flue-cured tobacco harvest nears completion, burley 42% harvested. Corn good condition, 22% harvested, 1973 29%, average 16%. Soybeans and sorghum condition good. Cotton condition fair to good, chemical defoliating just starting in southeast area. Peanut condition fair to good, no harvest in major producing area yet, 1973 4%, average 1%. Apples 37% harvested, 1973 31%, average 42%. Sweetpotatoes 18% harvested, 1973 8%. Small grain

seeding off to slow start, only 3%, average 6%. Pasture good. Labor adequate.

NORTH DAKOTA: Temperatures subnormal for State. Extremes: 83 to 29°. Precipitation extremes 0.37 in. below normal to 0.16 in. above. Most rain 0.64 in. at Beulah. Weekend mostly warm and dry.

Grain harvest northern areas hampered by morning dews and low temperatures. Row crops maturing nicely. Potato, sugarbeet harvest starting. Hard red spring wheat harvest about 75% finished, durum about 50%, oats and barley about 85% and flax about 33% combined. Grain corn 85% dented or beyond. Cutting corn silage advancing rapidly.

OHIO: Scattered showers; 0.11 in. Youngstown to 1.79 in. Cincinnati. Some wind damage. Temperatures 42 to 85°.

Corn and soybean harvest beginning. Corn 35% mature, 30% 1973, 40% normal. Soybeans 40% leaves shedding, 40% 1973 and 45% normal; mature 15%, 10% 1973 and 15% normal. Corn silage harvest 30% done, 40% normal. Potato digging 40% complete, 45% average. Third cutting alfalfa hay 65% complete. Tobacco cut over 35%, 65% normal. Red clover seed harvest 65% done. Apple harvest 20% complete. About half processing tomato harvest done. Winter wheat plowing 5% complete, 5% 1973, and 10% normal. Barley planting 20% done, 30% average. Rye planting beginning. Fieldwork: 5 days favorable. Soil moisture 11% short, 58% adequate, 30% surplus. Extreme northwest remains dry. Pasture condition mostly fair to good.

OKLAHOMA: Temperatures from 4 to 7° subnormal. Little or no rain Panhandle to heavy in parts of southeast. Idabel reported 5.70 in. in one 24-hr. period. Weekend mild with rain in most areas.

Wheat seeding gained momentum. Weather and soil conditions good for planting small grains most areas. Adequate moisture 85% surface, 77% subsoil. Crops, pastures good growth. Major activities small grain seedbed preparation and seeding, fertilizing, combining alfalfa seed and grain sorghums, hay baling. Wheat 10% seeded, 4% stand 1973 about same. Corn 76% mature, 8% harvested slightly ahead 1973. Sorghums 2 weeks ahead 1973, 54% mature, 7% combined. Cotton 1 week ahead 1973, 1% bolls open, 1973 4%. Peanuts 8% mature, harvest beginning. Soybeans 87% setting pods, 6% mature, 1973 same. Alfalfa seed combined 89%, 1973 70%. Alfalfa hay 4th cutting 72% complete, 5th cutting 7%. Range and pasture grasses 68% good or excellent. Cattle mostly good condition.

OREGON: Average temperature 3° above normal west, to slightly below. Maximums west mid 70's to near 90 southwest. Highs east 80 to low 90's. Minimums northeast in 30's several nights. Precipitation mainly coast, Willamette Valley. Rainfall to 0.90 in. coast, 0.30 in. northern interior.

Spring grain nearly complete. Red Clover, alfalfa seed in progress. Land preparation continuing, fall fertilizing active. Shortage of lime, some areas. Haying in last stages. Early peach, apple, President plum done. Anjou, Bosc pear, Golden Delicious apples being picked. Late peach ending, some soft sutures. Evergreen blackberries ending. Sweet corn continuing, snap beans ending. Onions in full swing. Norgold potatoes ending, Russets starting. Dry ranges, some water shortages, cattle on range moving onto stubble. High fire hazard. Sheep breeding underway.

PENNSYLVANIA: Fair and sunny with moderating temperatures and increasing humidity through 13th,

cool and dry weekend. Extremes: 90 and 35°. Showers and thunderstorms 13th with less than 0.50 in. rain northwest, north central and south central mountains; nearly 2.00 in. parts of southeast. Elsewhere 0.50 to 1.00 in.

Soil moisture adequate to surplus. Corn maturity; silked 7%, dough 41%; dent 45%; mature 7%; slightly ahead of 1973. Chopping ensilage corn 15% complete. Fall plowing 50% complete. Oat harvest done. Tobacco 85% and potatoes 38% complete. Pasture average to above. Little hay made.

PUERTO RICO: Average rainfall 2.84 in. or 0.86 in. above normal. Highest weekly total 6.98 in. at Pico Del Este/Luquillo followed by 5.78 in. at Corral Viejo. Highest 24 hour total 3.78 in. at Aguiere. Temperatures averaged about 80° on coasts and 75° interior. Highest 93° lowest 60°.

Heavy shower and thundershower activity continued causing some local flooding southwest. Almost all sections received between 1.00 to 3.00 in. of well distributed rainfall. Water storage levels continued normal. Favorable weather for the development of sugarcane ratoons and new plantings prevailed. Recent rains favored ripening of coffee bean in all zones and harvest operations continued. Soil preparation for planting seedbeds in progress under favorable weather in the tobacco zones. Pastures in good condition. Planting and fertilizing operations going on well. Favorable weather for soil preparation and new plantings of food crops. Abundance of plantains vegetables bananas tanners and avocados on market.

SOUTH CAROLINA: Temperatures averaged near normal. Rainfall below normal, mostly as widely scattered showers near week end. Many areas got no rainfall.

Soil moisture adequate. Tobacco marketing active. Condition cotton fair to good. Progress made insect spray programs, 26% open bolls, 29% 1973. Light harvest underway. Corn condition fair to good, 92% mature, 34% harvested, 88% and 30% respectively 1973. Soybean condition good, insects continue major concern, 94% setting pods, 11% leaves turning, 4% shedding leaves, 90, 16, 2% respectively 1973. Condition grain sorghums good. Peanuts 37% harvested, 30% 1973. Grape harvest nearing completion. Apples 68% harvested, 60% 1973. Pecan condition poor. Pasture condition good. Land preparation winter grazing, cover crops.

SOUTH DAKOTA: Cool temperatures early; warmer by weekend. Averages 2 to 5° below normal. Extremes: 98° Tyndall on 10th, 29° Mission on 12th. Moisture deficiencies 6 to 9 in. below normal for the year.

Corn 88% dented, normal 89%, 38% safe from frost, normal 50%, 1973 83%. Soybeans 74% shedding leaves, normal 52%. Sorghum heads 74% showing color, normal 79%. Winter wheat seedings 55% complete, normal 50%, 1973 68%. Winter rye seeding 44% complete, normal 53%, 1973 47%. Fall plowing 63% complete, 1973 64%. Ground too dry for plowing or seeding many areas. Silage making active, pastures short and dry. Short water supplies. Supplemental feeding continues. Livestock in good condition.

TENNESSEE: Warm, scattered showers until weekend, then general precipitation and cooler. Temperatures averaged near normal all sections. Rain averaged above normal, over 2.00 in. in places.

Crop development and field work slowed by wet, cool weather. Soybeans excellent condition 2 weeks late, need later than normal average frost date. Cotton bolls 5% open, 12% 1973, 25% normal. Some

polls rotting. Boll weevil population and damage high. Late corn good but early frost will damage, 46% mature, same as 1973 and normal. High moisture content delaying harvest, 5% harvested, below normal. Burley under 60% cut, normal and 1973 75%. Wet weather damaging crop both uncut and in barn. Wheat 10% seeded, barley and oats 15%, all one week late.

TEXAS: Remnants of tropical storm Carmen still evident across east Texas past week. Storm hit Beaumont area dumping heavy rain over southeast Texas, then proceeded northward. Moderate cold front pushed into Panhandle and through State by 14th. South coastal plains, south central Texas 4.00 to 5.00 in. above normal. Refugio got 15.26 in. Panhandle 8° below normal, Brownsville area near normal.

Harvest of cotton, corn, and sorghum delayed by rains most active harvesting areas. Seeding wheat, oats also delayed by wet weather, but progress generally ahead of 1973. Major crops percent harvested: Cotton 20, 1973 8; corn 46, 1973 43; sorghum 53, 1973 47; peanuts 23, 1973 26; rice 92, 1973 79. Major crops percent planted: Wheat 29, 1973 36; oats 19, 1973 11.

High Plains: Harvest peppers, tomatoes continue. Carrot harvest full swing Deaf Smith County. Watermelon harvest resumed Yoakum County. **North:** Watermelon, cantaloup harvest declining, tomatoes and blackeyed peas still available. **East:** Sweetpotato digging halted by rains, cracking may occur unharvested sweetpotatoes. Squash, peas, watermelons remain available. **Upper Coast:** Harvest sweetpotatoes underway. Planting cool season vegetables slowed by weather. **Coastal Bend:** Cucumbers being planted. **San Antonio-Winter Garden:** Cabbage, carrots, tomatoes, peppers, cucumbers good growth. Land preparation spring onion crop underway. **Lower Rio Grande Valley:** Vegetable planting, land preparation fall, winter vegetables active. Condition of pecan crop varies. Recent rains help size crop in major producing areas, shedding continues. Apple harvest still active Montague County. Citrus grove being irrigated, insect control being used, fruit size reported good most orchards.

Range, livestock conditions improve across eastern, southern areas, prospects good early fall. Short moisture conditions parts Lower Plains restrict grazing. Ranchers reluctantly culling herds, moving stock to market.

UTAH: Few widely scattered light thundershowers early week, more numerous by weekend. Moisture amounts generally light but locally moderate. Average temperatures ranged from near normal to 5° above.

Some frost damage reported. Harvest 15% completed silage corn, 5% for major potato acreage, 10% dry onions, 90 to 95% sweet corn, 50 to 60% tomatoes, 55% third crop alfalfa hay, 50% alfalfa seed, 90% peaches, 85% pears, and 10 to 15% apples. Fall planting winter wheat 1975 30% completed. Livestock in fair condition but winter feed critical. Soil moisture on ranges and dryland farms continues very short most areas.

VIRGINIA: Warm with scattered thundershowers mountains early week, turning cooler weekend all sections. Extremes: 94 and 53°.

Fieldwork: 3.8 days favorable. Topsoil moisture 65% adequate, 35% surplus. Corn grain harvest 6%, 16% 1973. Yields better than expected. Corn silage harvest still active. Soybeans very good condition, good prospects if insects controlled. Peanuts good condition. Tobacco harvest

progress: Flue-cured, 68%, 1973 74%; fire-cured, 61%, 1973 64%; burley, 42%, 1973 60%; sun-cured, 64%, 1973 55%. Sweetpotatoes 15% harvested, yields good. Cucumber harvest active, excess rain reduced quality. Apples 15% harvested, 1973 22%. Limited small grain seeding, land preparation underway. Pastures remain excellent condition.

WASHINGTON: West: Temperatures near normal. Extremes: 70 and 40°. Precipitation extremes 0.10 in., 2.00 in.

Harvesting silage corn, cucumbers, cauliflower, broccoli, green peas, celery, sweet corn, carrots, beets, potatoes, blueberries, blackberries. Planting tulip, daffodil bulbs. Pastures short. **East:** Cooler, average readings subnormal 1 to 4°. Extremes: 70 and 30°. Light precipitation. Extremes: 0.00 to 0.20 in.

Harvesting early Delicious apples, onions, potatoes, beans, sweet corn, alfalfa seed, dry beans, corn silage, hops, lima beans, early beets. Seeding alfalfa, red clover, pasture, winter wheat and barley.

WEST VIRGINIA: Precipitation well above normal north central, near normal elsewhere. Temperatures above normal, general cloudiness held minimums up and maximums down.

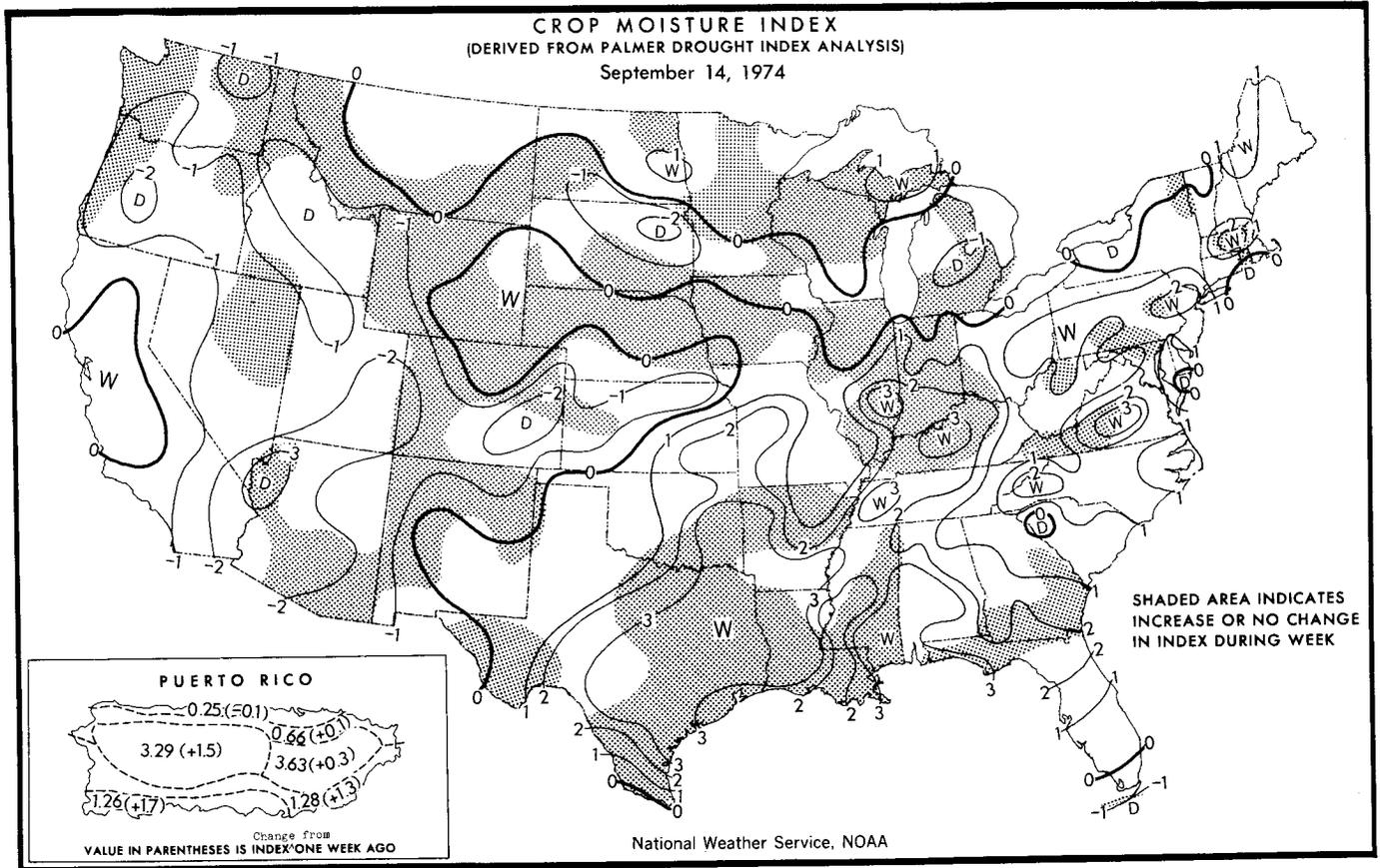
Fieldwork limited to 2.9 days. Major activities: Harvesting hay, filling silos and general chores. Soil moisture 65% adequate, 35% surplus. Second hay cutting 73% complete, third cutting 41%. Pasture condition mostly good, rains beneficial. Tobacco harvest active but hampered by rain. Corn 19% mature, 23% 1973. Potatoes 60% dug. Fall seeding of wheat and barley started. Tomatoes suffering from blight.

WISCONSIN: Warm until midweek, then considerably cooler. Temperatures averaged 2° subnormal. Scattered frost early 14th. Rain north and central early in week and south 12th. Amounts 2.50 in. northwest to less than 0.25 in. southeast.

Corn maturing slowly, 45% dent, 1973 70%, normal 60%, looks good south and east, extensive frost hurt grain prospects north and west. Frost affected 20%, corn acreage, mostly west and north. Silo filling 10% done, 1973 and normal 15%, quality of silage reduced by frost and immature corn. Good weather needed balance of September to mature remaining corn for grain. Soybeans also maturing slowly, frost affected 20% of State acreage. Tobacco harvest nearing end. Oats harvest done except extreme north. Third crop hay being made. Pastures need more rain for fall growth. Soil moisture 40% short, 55% adequate, 5% surplus. Little fall plowing done yet. Winter wheat being seeded. Harvest continues for sweet corn, potatoes, apples, vegetable crops. Apple crop good, vegetable crops fair to good.

WYOMING: Temperatures averaged 1 to 3° below normal. Average highs in mid-80's. Nine stations reported maximum in 90's. Lows generally low 20's to low 30's. Precipitation none to nearly 1.00 in.

Harvesting small grains 90% complete, some progress during week. Corn silage 30% 1974, 20% 1973. Some frost-damaged corn for grain will be cut for silage. Grain corn matured 35% 1974, 10% 1973. Dry beans windrowed 65%, 45% 1973, 75% 1972, combined 15% 1974, 10% 1973. Potatoes 10% dug, 15% 1973. Second cutting alfalfa virtually complete, third cutting 60%, almost double 1973 progress. Winter wheat planted 80%, 75% 1973, emerged 35%, hindered by dry soils. Cattle, lamb contracting slow at 7% and 8%.



SHADED AREAS: Index increased or did not change last week

Index

- Above 3.0 Excessively wet, some fields flooded
- 2.0 to 3.0 Too wet, some standing water
- 1.0 to 2.0 Prospects good, some fields too wet
- 0 to 1.0 Moisture adequate for present normal needs
- 0 to -1.0 Prospects improved, but rain still needed
- 1.0 to -2.0 Some improvement, but still too dry
- 2.0 to -3.0 Drought eased, but still serious
- 3.0 to -4.0 Drought continues, rain urgently needed
- Below -4.0 Not enough rain, still extremely dry

UNSHADED AREAS: Index decreased last week

Index

- Above 3.0 Some drying, but still excessively wet
- 2.0 to 3.0 More drying weather needed, work delayed
- 1.0 to 2.0 Favorable, except still too wet in spots
- 0 to 1.0 Normal growth and fieldwork
- 0 to -1.0 Topsoil moisture short, germination slow
- 1.0 to -2.0 Abnormally dry, prospects deteriorating
- 2.0 to -3.0 Too dry, yield prospects reduced
- 3.0 to -4.0 Potential yields severely cut by drought
- Below -4.0 Extremely dry, most crops near ruin

The map gives a general picture of how wet or dry the Nation was last week. It shows areas where abnormal wetness or dryness have hindered crops and areas where moisture conditions have favored them.

The lines show the crop-moisture situation according to an index computed from values of temperature and precipitation by areas...350 climatological divisions, which correspond roughly to SRS's crop reporting districts. Previous weekly computations of soil moisture account for the effects 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=wet; D=dry. The map lines mark off crop situations. Use the legend to interpret.

Local variations caused by isolated rain or by soil differences are not shown. While shallow rooted crops in poor soils may suffer more than the map shows, conditions may be better where soils are good. Also, legends apply to growing rather than mature plants. Any map interpretation must consider both the growth stage and moisture status and trend. In irrigated regions, the index values reflect only departures from ordinary irrigation requirements.



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AVERAGE MONTHLY WEATHER OUTLOOK

