

WEEKLY WEATHER AND CROP BULLETIN

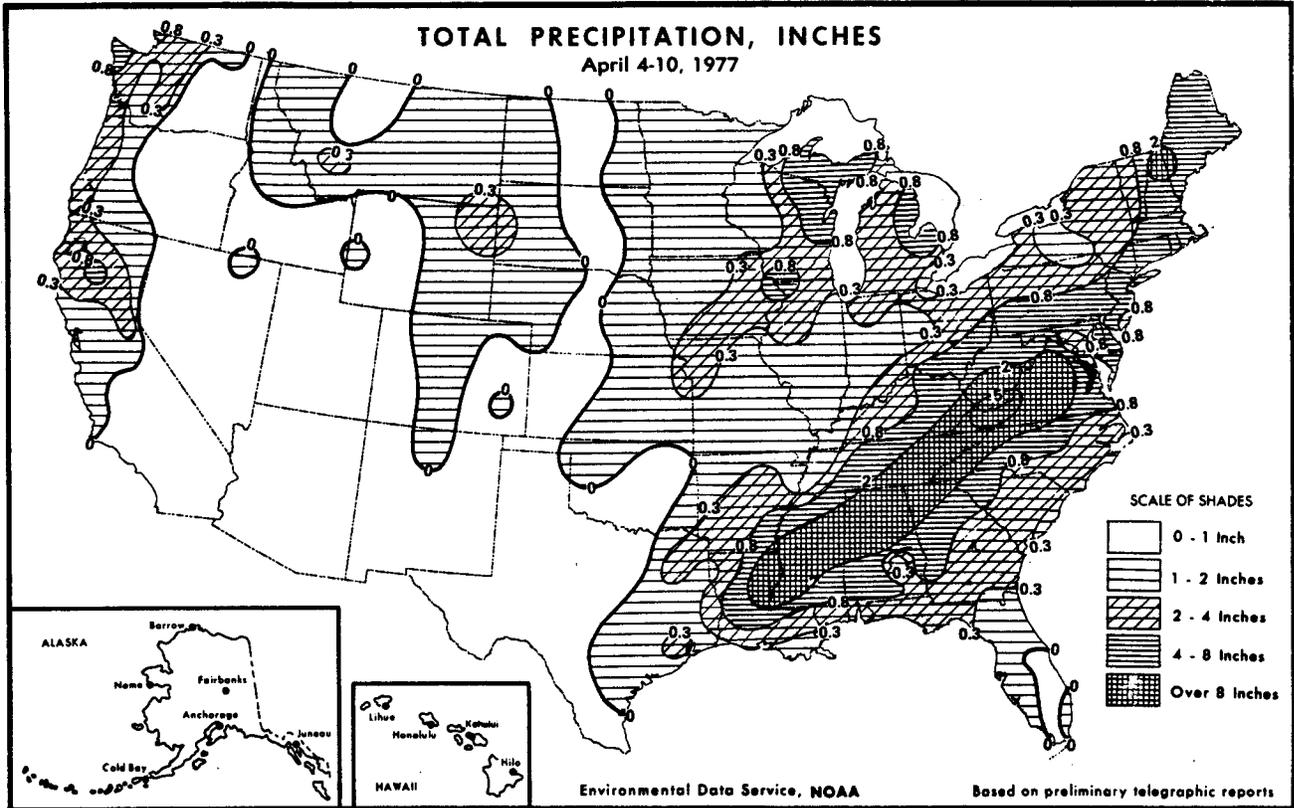
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National Weather Summary

For the Week of April 4 - 10

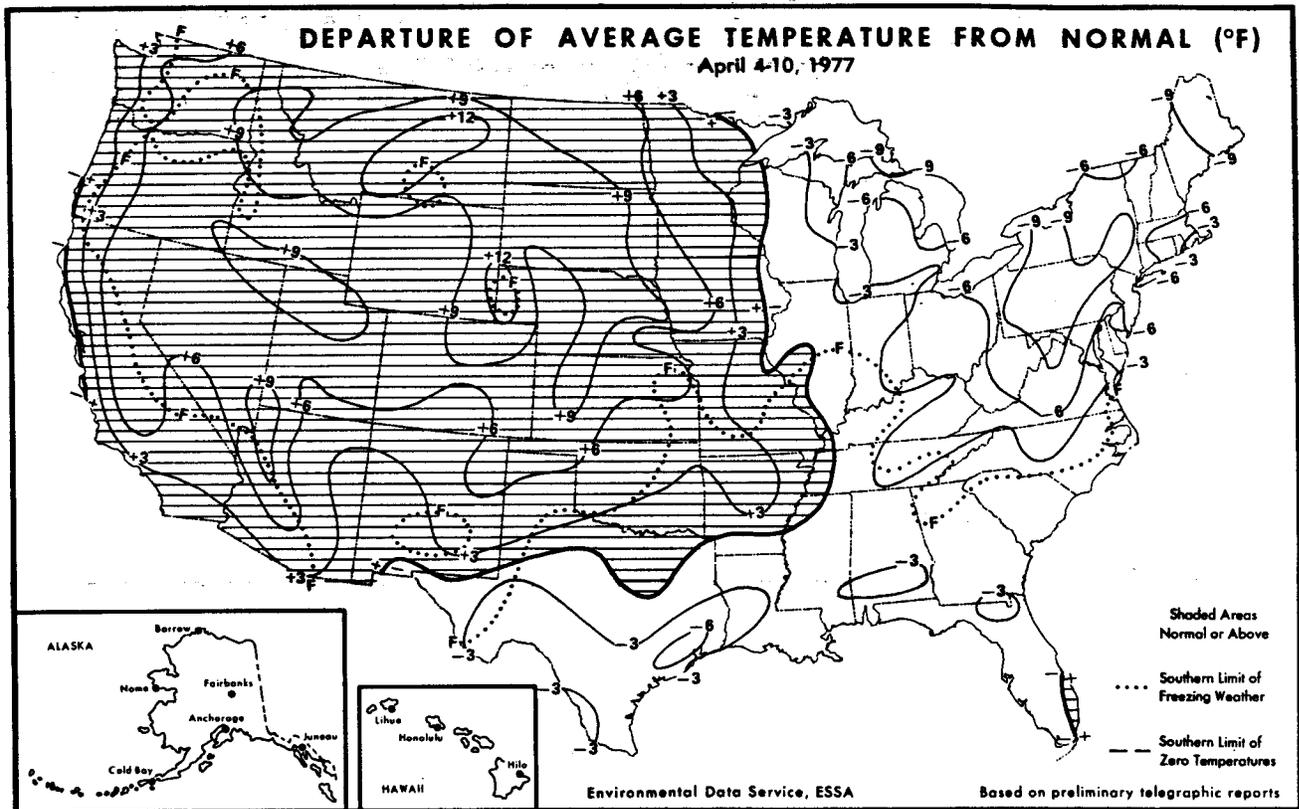
HIGHLIGHTS: Tornadoes and record flooding plagued the southern Appalachians northward into the Ohio Valley. Early in the week, a storm system built up in the Plains and moved northeastward. Warm, moist air was drawn from the Gulf of Mexico ahead of the front and caused much of the violent weather. This unstable air, lifted by the Appalachians, caused much of the damage. As the low pressure system moved through New England, moderate to heavy rainfall was generated. The Great Lakes received light to moderate snow. Cold air behind the front caused temperatures to drop drastically. Averages were as low as 11° below normal in central Pennsylvania. High pressure in the East brought warmer weather to the Plains and Rocky Mountains where record high temperatures (9 to 12° above normal) were common in the central Plains northward. West Coast temperatures were normal, but immediately inland, leaped 6 to 9° above average. Record temperatures ranged from lows of

4° in Caribou, Maine and 17° in Richmond, Va., to highs of 90° in North Platte, Nebr. and 88° in Minneapolis.

Tornadoes, hail, and heavy thunderstorms battered a region from West Virginia and southwestern Virginia southward on Monday. Serious flooding plagued the northern reaches of this area, and tornadoes ripped through portions of Mississippi, Alabama, and Georgia. Heavy rains extended from the Atlantic Coast States through the Ohio Valley into the Great Lakes region.

Early Monday, a low pressure center over Oklahoma brought rain to the southern Plains and the lower Mississippi Valley, and rain, snow, and hail northward. This storm center brought sub-freezing temperatures to the northern and central Plains.

By Tuesday, heavy rains slackened over the lower Ohio Valley and upper Tennessee Valley, how-



ever, flooding had taken its toll in these areas. Record floods hit hard in a large area surrounding the juncture of Kentucky, West Virginia, Virginia, North Carolina, and Tennessee. Daylong rains drenched the middle and southern Atlantic Coast States. Strong wind gusts blasted an area from the lower Great Lakes southward to central West Virginia, and a tornado touched down in northeast Virginia.

Snow fell in the upper Great Lakes, and scattered snow showers reached down to the upper half of the Mississippi Valley and, later moved eastward through the Ohio Valley and upper Appalachians. New England received rain and thunderstorms.

Flooding continued into Wednesday in the central and southern Appalachians.

Morning temperatures plunged to the 30's and below in the Great Lakes region eastward to New England and southward to northern Florida. Heavy snows accompanied this cold Canadian air in the lower Great Lakes by afternoon. Evening snow flurries fell over southern New England and the upper Mississippi Valley, and turned into rain-showers southward to northern Virginia.

The Southwest baked in the 90's, and less warm air moved into the Plains from Missouri to the western Dakotas; this brought temperatures up to the 50's at midnight.

Record low temperatures were recorded Thursday morning in many cities east of the Mississippi River. By contrast, the Pacific Northwest and the northern Rocky Mountains region established new high temperature records later in the day, but a cold front brought light rain to the upper coast in the evening. Elkins, W.Va., dipped to 13° as

Lewiston, Ida., zoomed to 84°.

Light snow whitened the Great Lakes area eastward to New England and southward to the central Appalachians. Further west, the southern Intermountain region had another day in the 90's.

Dry southwesterly winds and warm temperatures continued over the central Great Plains melting considerable snow as far north as South Dakota.

Cold frontal systems dominated the Pacific Northwest and New York and New England on Friday. Much needed rain spread along the western front; rain and snow fell in the Northeast. Minor flooding persisted in the Ohio Valley and the upper South.

Unseasonably warm temperatures were the order of the day again in the Great Plains.

Saturday morning dawned rainy from sections of the West Coast to the northern Rockies as the cold front moved eastward. The northeastern cold front was replaced by a large high pressure center which covered much of the eastern U.S. with clear skies and record low temperatures.

Southerly winds warmed the central third of the Nation with record high temperatures; afternoon readings jumped to the 70's and 80's from the Dakotas to Texas.

Easter Sunday brought beautiful weather across most of the Nation. Cool temperatures east of the Appalachians rose in the afternoon, but did not equal the record high temperatures established in the Midwest.

Scattered rainshowers and thunderstorms were confined to small areas in the central Plains and southeastern Michigan eastward to Virginia as the day unfolded. Measurable rain fell for the first time in more than a month in southern Florida.

National Agricultural Summary

For the Week of April 4 - 10

HIGHLIGHTS: Farmers made good progress planting row crops, equalling the normal rate for this time of year, but far behind the unusually fast pace set in 1976. Most areas in the eastern half of the U.S. had adequate topsoil moisture; the western States suffered with short soil moisture and very little rain to alleviate the problem. The western North Central States reported adequate topsoil moisture but insufficient subsoil moisture. Spring plowing just got underway in several northern border States. Corn Belt plowing for corn and soybeans ranged from 60 to 79% complete. This compared with 70 to 90% in 1976, and an average of 45 to 86%. Rain slowed fieldwork across the South and in several northeastern States. Farmers planted corn, cotton, potatoes, rice, and sugarbeets in the southern half of the Nation. Small grain planting extended to the northern States along the Canadian Border. Cool soils slowed some cotton planting. Grasslands improved in the eastern half of the Country where soil moisture did not limit growth, but in western areas moisture checked the usual lush spring growth. Subnormal temperatures nipped some fruit buds in the Appalachian area.

SMALL GRAINS: Winter wheat improved except in some Mountain States, California, and some parts of Oklahoma and Texas where dry soils inhibited development. Producers in some of these dry States grazed out additional acreage to salvage the crop as forage rather than hazard a poor grain crop.

In Kansas, winter wheat condition improved and 10% of the fields reached the joint stage compared with 15% in 1976 and the average. Growing conditions were semi-dry; there was no appreciable wind or insect damage to the crop. Oklahoma wheat dropped to fair condition following a week of little precipitation, high temperatures, and high winds. Moisture demands were high as 70% of the crop jointed. Topsoil in all Oklahoma wheat areas was short. Additional acreage was diverted to grazeout. In Texas, winter wheat grew well from the Low Plains southward and stands ranged from the early boot to milk stage. Low soil moisture restricted dryland stands on the northern High Plains, but irrigated fields responded to warmer temperatures. New Mexico dryland winter wheat was in poor to fair condition; the irrigated crop was fair to good. Colorado winter wheat rated poor because of low soil moisture. Montana's dry topsoils kept wheat growth slow, however, the crop rated fair to good.

Spring small grain planting advanced slightly ahead of normal, but far behind 1976's unusually fast rate. South Dakota farmers planted 12% of the spring wheat crop compared with 67% last year. Seeding began in North Dakota.

OTHER CROPS: Corn planting in the Nation advanced into Maryland and Delaware where farmers planted some early corn. Planting ranged from 58% complete in South Carolina to 3% in Virginia. Missouri farmers reached 8% and Kansas producers 5%. Progress lagged 1976, but surpassed the average rate. Oklahoma farmers irrigated dry fields before planting. Texas corn planting lagged far behind schedule.

Farmers planted cotton in South Carolina, Georgia, Florida, Alabama, Texas, New Mexico, Arizona and California. Arizona planting accelerated to 75% in the West and 10 to 15% in the south central area. Some replanting was necessary. Texas producers planted cotton in the southern Blacklands. Farmers in the High and Low plains fertilized fields and applied pre-plant irrigation. Low overnight temperatures slowed cotton growth in the Lower Rio Grande Valley and the Coastal Bend. Alabama growers planted a few early fields.

Arkansas growers planted 4% of the sorghum acreage, 11% below 1976. Texas farmers planted 50% of the sorghum crop, an increase over 49% in 1976 and the 41% average. Planting moved rapidly and only limited replanting was necessary in the Blacklands. Early stands progressed satisfactorily southward to the Lower Rio Grande Valley.

Arkansas rice producers planted 4% of the crop, a drop from 17% last year and the 12% average. Louisiana growers planted 31%; last year 37%. Cool weather delayed Texas growers who planted 52% of the crop, less than the 67% last year and the 71% average.

Tobacco growers prepared and seeded beds in Ohio, Delaware, and Kentucky. South Carolina producers transplanted small-sized plants; moisture and plant conditions in the plant beds were fair to good. Rains washed out some tobacco plant beds in Virginia. Kentucky plant beds were 91% seeded, and 27% of the beds showed plants. This progress lagged last year and the average, although the beds were in excellent condition. North Carolina growers transplanted 5% of the crop.

FRUITS AND NUTS: Fruit growers pruned and sprayed fruit in Pennsylvania and New Jersey. Freeze damaged some of the fruit crop in Ohio and Virginia. Apricots bloomed in Utah, pears and cherries in Washington's Yakima Valley, and peaches in Delaware and Kentucky. Apples bloomed in the Appalachian area. Florida's citrus bloom ended. The Valencia harvest was very active. Growers in Texas, Arizona and California harvested citrus also.

VEGETABLES: Florida vegetable volume rose 8%. Chinese cabbage, tomatoes, sweet corn, cucumbers, egg plant, and peppers led the increase. Radishes, squash, snap beans, cabbage, carrots, escarole-endive, potatoes and lettuce held steady. Supplies of celery, strawberries, and okra declined. Growers irrigated heavily and maintained spray programs. Bloom and fruit set was abundant on most crops. Texas growers harvested onions, cabbage and carrots. Plantings included melons, cucumbers, tomatoes, onions, lettuce and potatoes. Arizona lettuce harvest produced seasonal volume from the Salt River Valley, but was almost completed in the Yuma area. California growers harvested heavy supplies of artichoke, asparagus, broccoli, celery and lettuce; lighter supplies of carrots, cauliflower and strawberries were picked.

PASTURES AND LIVESTOCK: Grasslands were in fair to good condition except in the western States and the Florida Peninsula. Some producers grazed more wheat acreage in the southern Great Plains to supplement short forage crops. Pastures greened in Nebraska but had little growth; Texas pastures improved. Warm weather and strong winds dried California rangelands; this lowered stock water supplies. Cattle were fair to good except California's cattle which were poor to fair.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., April 10, 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 . . .	60	-1	3.0	+1.8	La. Baton Rouge . . .	65	-1	.7	-.5	Youngstown . . .	37	-8	.7	-.1
Mobile . . .	64	-1	.3	-1.1	Lake Charles . . .	64	-3	.5	-.4	OKLA. Okla. City . . .	61	+4	0	-.7
Montgomery . . .	60	-1	.2	-1.0	New Orleans . . .	65	-1	.3	-.7	Tulsa . . .	63	+5	T	-.9
ALASKA Anchorage . . .	---	---	---	---	Shreveport . . .	62	-2	.2	-1.0	OREG. Astoria . . .	48	+1	.3	-.9
Barrow . . .	---	---	---	---	MAINE Caribou . . .	23	-10	.8	+ .2	Burns . . .	50	+8	T	-.1
Fairbanks . . .	---	---	---	---	Portland . . .	33	-7	1.0	+ .2	Medford . . .	53	+5	1	-.1
Juneau . . .	---	---	---	---	MD. Baltimore . . .	45	-6	.9	+ .2	Pendleton . . .	57	+8	0	-.2
Kodiak . . .	---	---	---	---	MASS. Boston . . .	40	-6	1.5	+ .7	Portland . . .	54	+5	.2	-.4
Nome . . .	---	---	---	---	Chatham . . .	41	-8	2.0	---	Salem . . .	51	+3	.4	-.2
ARIZ. Flagstaff . . .	45	+5	0	-.4	MICH. Alpena . . .	29	-8	.8	+ .2	PA. Allentown . . .	40	-7	1.8	+1.0
Phoenix . . .	73	+8	0	-.1	Detroit . . .	41	-3	.3	-.4	Erie . . .	34	-8	.4	-.4
Tucson . . .	67	+4	0	-.1	Flint . . .	37	-6	.8	+ .2	Harrisburg . . .	41	-9	1.4	+ .7
Winslow . . .	54	+3	0	-.1	Grand Rapids . . .	39	-4	.3	-.5	Philadelphia . . .	45	-5	1.4	+ .6
Yuma . . .	71	+2	0	-.1	Houghton Lake . . .	33	-5	.7	+ .1	Pittsburgh . . .	36	-11	.8	0
ARK. Fort Smith . . .	60	+2	T	-1.0	Lansing . . .	38	-5	.3	-.3	Scranton . . .	35	-10	.6	-.9
Little Rock . . .	64	+5	T	-1.0	Marquette . . .	33	-4	.9	+ .3	R.I. Providence . . .	41	-3	1.8	+ .9
CALIF. Bakersfield . . .	67	+6	.6	-.6	Muskegon . . .	37	-5	.5	-.2	S.C. Charleston . . .	60	-2	1.1	-.7
Eureka . . .	48	-1	.4	-.4	S. Ste. Marie . . .	24	-11	.6	+ .1	Columbia . . .	61	-1	1.7	-.2
Fresno . . .	65	+7	0	-.4	MINN. Duluth . . .	36	-1	T	-.6	Greenville . . .	56	-2	1.0	-.3
Los Angeles . . .	63	+2	0	-.4	Internat Falls . . .	34	0	T	-.4	S.D. Aberdeen . . .	50	+10	T	-.3
Red Bluff . . .	63	+6	.8	+ .3	Minneapolis . . .	44	+3	.2	-.2	Huron . . .	51	+9	T	-.4
San Diego . . .	61	+1	0	-.2	Rochester . . .	43	+3	.2	-.3	Rapid City . . .	50	+9	.3	-.1
San Francisco . . .	53	-2	T	-.4	St. Cloud . . .	43	+4	.1	-.4	Sioux Falls . . .	50	+8	T	-.5
Stockton . . .	63	+6	.1	-.3	MISS. Jackson . . .	61	-2	2.5	+1.4	TENN. Chattanooga . . .	57	-1	2.2	+1.1
COLO. Denver . . .	54	+10	T	-.4	Meridian . . .	61	-2	1.3	0	Knoxville . . .	55	-1	3.2	+2.3
Grand Junction . . .	57	+8	0	-.2	MO. Columbia . . .	52	0	.1	-.7	Memphis . . .	62	+2	.2	-1.1
Pueblo . . .	54	+5	T	-.3	Kansas City . . .	56	+4	.5	-.3	Nashville . . .	54	-3	1.5	+ .5
CONN. Bridgeport . . .	46	+1	1.4	+ .6	St. Louis . . .	53	0	.1	-.8	TEX. Abilene . . .	61	-2	0	-.5
Hartford . . .	39	-4	1.4	+ .5	Springfield . . .	56	+3	T	-.9	Amarillo . . .	58	+4	T	-.2
D.C. Washington . . .	47	-6	.6	-.1	MONT. Billings . . .	53	+12	.1	-.3	Austin . . .	64	-2	.1	-.6
FLA. Apalachicola . . .	64	-2	.3	-.6	Glasgow . . .	50	+12	.1	0	Beaumont . . .	63	-4	T	-.9
Daytona Beach . . .	67	-1	.1	-.5	Great Falls . . .	51	+11	T	-.2	Brownsville . . .	68	-5	T	-.2
Ft. Myers . . .	70	-2	T	-.5	Havre . . .	47	+8	T	-.2	Corpus Christi . . .	66	-5	T	-.4
Jacksonville . . .	63	-3	.2	-.6	Helena . . .	49	+10	T	-.2	Dallas . . .	65	-5	0	-.3
Key West . . .	76	-1	.1	-.4	Kalispell . . .	48	+9	.2	0	Del Rio . . .	65	-5	0	-.3
Lakeland . . .	69	-1	.1	-.6	Miles City . . .	52	+11	.1	-.2	El Paso . . .	60	-1	0	-.1
Miami . . .	74	0	.2	-.5	Missoula . . .	48	+7	T	-.2	Fort Worth . . .	84	+1	0	-.9
Orlando . . .	68	-2	T	-.7	NEBR. Grand Island . . .	55	+9	.1	-.4	Galveston . . .	67	0	.1	-.5
Tallahassee . . .	64	-2	.5	-.6	Lincoln . . .	53	+5	T	-.5	Houston . . .	61	-6	.3	-.4
Tampa . . .	68	-2	T	-.6	Norfolk . . .	54	+10	.1	-.3	Lubbock . . .	60	+3	0	-.1
W. Palm Beach . . .	74	+1	.2	-.6	N. Platte . . .	51	+7	T	-.4	Midland . . .	58	-4	0	-.1
GA. Atlanta . . .	57	-1	1.0	-.2	Omaha . . .	55	+9	.1	-.5	San Angelo . . .	62	-3	0	-.3
Augusta . . .	60	-1	.5	-.4	Valentine . . .	50	+9	T	-.4	San Antonio . . .	63	-4	T	-.5
Macon . . .	62	-1	.6	-.3	NEV. Ely . . .	46	+7	0	-.2	Victoria . . .	65	-4	.1	-.4
Savannah . . .	63	-1	.3	-.4	Las Vegas . . .	67	+6	0	-.1	Waco . . .	65	0	T	-.8
HAWAII. Hilo . . .	---	---	---	---	Reno . . .	52	+7	T	-.1	Wichita Falls . . .	62	+1	0	-.6
Honolulu . . .	---	---	---	---	Winnemucca . . .	50	+7	T	-.1	UTAH. Blanding . . .	51	+6	0	-.2
Kahului . . .	---	---	---	---	N.H. Concord . . .	33	-8	1.0	+ .3	Salt Lake City . . .	56	+10	0	-.5
Lihue . . .	---	---	---	---	N.J. Atlantic City . . .	42	-7	.5	-.3	VT. Burlington . . .	33	-6	.5	-.1
IDAHO. Boise . . .	55	+8	0	-.3	Trenton . . .	42	-7	1.4	+ .6	VA. Lynchburg . . .	46	-8	2.5	+1.9
Lewiston . . .	57	+9	T	-.2	N.MEX. Albuquerque . . .	56	+3	0	-.1	Norfolk . . .	54	-1	.8	+ .2
Pocatello . . .	50	+8	0	-.2	Roswell . . .	61	+4	0	-.1	Richmond . . .	49	-6	1.9	+1.3
ILL. Cairo . . .	58	+1	.2	-.8	N.Y. Albany . . .	34	-9	.6	0	Roanoke . . .	47	-6	3.1	+2.5
Chicago . . .	44	-3	.2	-.7	Binghamton . . .	33	-8	.1	-.6	WASH. Colville . . .	51	+7	0	-.2
Moline . . .	47	-1	.6	-.3	Buffalo . . .	34	-8	.5	-.2	Omak . . .	52	+6	T	-.2
Peoria . . .	47	-1	.3	-.7	New York . . .	42	-7	1.6	+ .8	Quillayute . . .	46	+2	1.6	-.5
Rockford . . .	44	-1	.4	-.5	Rochester . . .	33	-10	.2	-.4	Seattle-Tacoma . . .	53	+6	.1	-.5
Springfield . . .	51	+1	.2	-.8	Syracuse . . .	35	-8	.4	-.3	Spokane . . .	52	+9	T	-.3
IND. Evansville . . .	53	-1	.2	-.8	N.C. Asheville . . .	53	0	2.1	+1.2	Walla Walla . . .	59	+8	0	-.3
Ft. Wayne . . .	44	-2	.2	-.6	Charlotte . . .	56	-2	.6	-.3	Yakima . . .	53	+6	0	-.1
Indianapolis . . .	46	-3	.1	-.8	Greensboro . . .	51	-5	1.5	+ .7	W. Va. Beckley . . .	43	-6	4.0	+3.2
South Bend . . .	44	-1	.8	-.1	Hatteras . . .	57	+1	.1	-.6	Charleston . . .	47	-6	2.6	+1.8
IOWA. Burlington . . .	48	0	.3	-.6	Raleigh . . .	54	-3	1.0	+ .3	Huntington . . .	50	-3	1.3	+ .5
Des Moines . . .	51	+6	.4	-.2	Wilmington . . .	59	-2	.1	-.6	Parkersburg . . .	46	-6	1.0	+ .2
Dubuque . . .	43	-1	.9	0	N.DAK. Bismarck . . .	48	+9	T	-.3	WIS. Green Bay . . .	35	-5	.9	+ .3
Sioux City . . .	52	+7	T	-.4	Fargo . . .	43	+5	.1	-.3	La Crosse . . .	44	0	.2	-.4
KANS. Concordia . . .	56	+7	T	-.4	Williston . . .	47	+9	.1	-.2	Madison . . .	40	-2	.7	+ .1
Dodge City . . .	60	+9	T	-.3	OHIO. Akron-Canton . . .	41	-4	.7	-.1	Milwaukee . . .	40	-1	.6	0
Goodland . . .	53	+8	T	-.3	Cincinnati . . .	46	-5	.8	-.1	WYO. Casper . . .	46	+7	T	-.3
Topeka . . .	58	+7	.3	-.5	Cleveland . . .	38	-7	.3	-.5	Cheyenne . . .	48	+9	T	-.3
Wichita . . .	58	+5	.1	-.5	Columbus . . .	44	-4	.4	-.4	Lander . . .	46	+8	0	-.5
NY. Lexington . . .	49	-3	.6	-.3	Dayton . . .	44	-4	.2	-.6	Sheridan . . .	48	+8	.2	-.3
Louisville . . .	50	-3	.6	-.4	Toledo . . .	41	-4	.2	-.5	P.R. San Juan . . .	79	+2	.1	-.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: Tornadoes and thunderstorms 4th. Unseasonably cool 6th and 7th. Temperatures 1° below normal.

Fieldwork: 2.5 days suitable. Corn 23% planted, 23% 1976, 17% average. Few cotton fields planted. Small grains fair to good. Livestock and pastures poor to fair.

ARIZONA: Warm, dry weather. Temperatures 1 to 5° above normal.

Cotton planting accelerating; 75% complete western, 25 to 30% central, 10 to 15% south central. Limited replanting necessary. Small grains good progress. Sugarbeet development good. Alfalfa haying activities accelerating. Lettuce harvest nearing completion Yuma, seasonal volume Salt River Valley. Cantaloups, watermelons good growth. Thinning underway. Grapefruit, Valencia orange harvest continued. Late/spring snow, rains higher elevation ranges beneficial. Stock water relatively short. Mid and lower elevation desert ranges drying rapidly. Cattle, calves fair to good condition.

ARKANSAS: Temperatures normal to 6° above normal. Extremes: 87 and 28°. Precipitation early in week. Greatest in southeast; amounts from 0.01 to 2.48 in.

Fieldwork: 3.5 days suitable. Soil moisture adequate to surplus. Soybean land preparation resumed with some fertilizer and pre-emergence herbicides applies. No cotton planting yet, 4% last year. Rice 4% seeded, 17% 1976, average 12%. Corn planting 17% complete, 36% last year. Sorghum 4% planted, 15% year ago. Wheat good condition. Fields in joint and boot stage. Some acres lost to flooding. Oats good condition. Pastures providing adequate feed. Cattle gaining weight.

CALIFORNIA: Irrigated crops doing well, dryland crops suffering lack of moisture. Planting corn, safflower, and cotton active. New crop sugarbeets being planted, old crop beets being harvested. Rice fields being prepared. First cutting of alfalfa underway. Avocado, grapefruit, lemon, navel orange harvests continue. Valencia orange harvest started limited scale. Artichoke, asparagus, broccoli, celery, and lettuce supplies heavy. Carrot, cauliflower moderate. Strawberry light. Dry onion to begin. Warm weather, strong winds dry rangeland grass, lower stock water supplies. Supplemental feeding continues. Stock water hauled to dairy herds. Cattle poor to fair. Sheep shearing in progress.

COLORADO: Temperatures well below normal beginning week; highs 30's and low 40's; lows, 10 to 25°. Warming trend on 5th continued thru weekend. Precipitation light. Few snow flurries on eastern plains 4th. Widely scattered flurries and thunderstorms mountains and eastern plains 10th. Gusty winds 35 to 60 mph eastern plains 4th resulting in blowing snow and dust.

Winter wheat poor. Soil moisture short. Spring seeding: Oats 33%, 46% 1976, average 35%. Spring barley 32%, 47% 1976, average 30%. Sugarbeets 22%, 3% 1976, average 10%. Summer potatoes 16%, 6% 1976, average 6%. Range and pasture fair to very poor, livestock in good condition. Calving 70% completed, lambing 61%.

FLORIDA: Light rainfall 5th and 6th, north and central, with isolated showers south on 10th, most amounts less than 0.25 in. Temperatures near to slightly below normal, with cool nights most areas.

Soil moisture mostly adequate Panhandle, short Peninsula. Corn planting active, tobacco transplanting nearing completion, peanut and cotton planting underway. Soybean land being prepared. Small grains heading, good condition. Early planted corn good condition. Tobacco slow growth because of cool weather. Continued hot, windy weather reduced pasture condition most Peninsula while Panhandle has generally good to excellent grazing. Northern Peninsula pastures vary from poor to fair; soil moisture is generally short. Pastures central and south continue in poor condition and declining rapidly. Cattle, calves good condition west, north, central; holding poor to good condition south. Rain needed all citrus growing areas, irrigation continues. Bloom completed, Valencia orange harvest very active. Vegetable harvest picked up momentum. Total volume rose 18%. Chinese cabbage, tomatoes, sweet corn, cucumbers, eggplant, pepper movement increased. Radishes, squash, snap beans, cabbage, carrots, escarole-entive, potatoes, lettuce held steady. Celery, strawberries, okra declined in supply. Irrigation heavy, spray programs continue active. Watermelon growth good. Light supplies expected late April. Bloom, fruit set abundant, most crops.

GEORGIA: Temperatures 2 to 4° above normal, north 3 to 6° above south. Mild except cold mornings of 6th and 7th with frost and freezing temperatures north. Rainfall mainly 3d and 4th. Amounts 1.50 to 3.00 in. north except in excess of 4.50 in. extreme northwest and near 0.50 in. central and south.

Soil moisture excessive northwestern third, adequate to excessive central, adequate south. Fieldwork: 3 days suitable. Very active planting in east central and south. Some wind and sand damage to tobacco transplants and emerging plants. Corn 55% planted, last year 62%, average 23%, good stands, condition fair to mostly good. Tobacco 58% transplanted, last year 89%, average 61%, condition mostly fair to good. Watermelons mostly fair to good, 70% planted, last year 81%. Cotton 4% seeded, last year 10%, average 3%. Peanuts 1% planted, last year 3%, average 1%. Sorghum 3% planted, last year 2%. Small grains fair to mostly good, heading in south. Peaches fair to mostly good. Apples good, some cold damage northeast corner. Pastures and cattle fair to mostly good. Hogs good.

HAWAII: Weather partly cloudy to cloudy. Rainfall mostly eastern and windward areas. Trade winds returned.

Vegetable supplies adequate. Banana, papaya supplies light. Sugar mills grinding. Pineapple harvesting light. Pasture improved with rainfall.

IDAHO: March precipitation totals 50% normal south, 100% normal north. State 20 to 50% normal for year. Temperatures averaged 5 to 10° above normal for week. Early week lows ranged from 20's to 30's to upper 30's and 40's.

Water shortage and resulting complications major concern. Field preparation, planting very active. Soil moisture short. Livestock very good

condition. Lambing almost complete. Calving active. Potato planting gaining momentum southwest.

ILLINOIS: Temperatures 2 to 6° below normal. Precipitation near 0.75 in. northwest, trace extreme south.

Winter wheat good. Alfalfa good. Oats 60% seeded, 96% 1976, 58% average. Corn and soybean acreage 79% plowed, 90% 1976, 75% average. Pastures good to fair. Soil moisture adequate. Livestock water supplies adequate. Fieldwork: 2.5 days suitable.

INDIANA: Cool, dry. Rainfall about 0.25 in. Below normal temperatures but very warm weekend. Temperatures ranged from 20 to 85°.

Fieldwork: 1 day suitable. Topsoil moisture adequate to surplus. Subsoil moisture mostly adequate. Land for spring planted crops 60% plowed, 1976 70%, average 45%. Oats 35% seeded, 1976 75%, average 25%. Wheat 4 in. tall, 1976 7 in. Few fields jointed. Apples full bloom April 22. Pastures mostly fair.

IOWA: Rain and snow ended early week with sub-normal amounts. Chilly weather moderated to become hot, dry, and windy on weekend.

Fieldwork: 2.4 days suitable. Plowing 73% complete, fertilizer application 56% complete. Oats seeding 64% complete. Soil moisture: Topsoil adequate; subsoil short. Livestock condition generally good. Newborn suffered from cold and wet early week.

KANSAS: Little to no precipitation, well above normal temperatures. Local blowing dust occurred 9th and 10th. Temperatures ranged from 54° northwest to 60° southeast or 6 to 8° above normal.

Wheat condition improving. Wheat reached jointing stage in 10% fields, compares with 15% year ago and average. Generally semi-dry growing conditions with no appreciable wind damage to wheat. Insect infestations numerous, no significant damage reported. Corn plantings equal to normal, 5% seeded. Spring barley and oats seeding virtually finished. Livestock continue graze some wheat pasture, native pasture and rangeland continues improve slightly. Farm activities included fertilizing, weed spraying, and pre-irrigating row crops.

KENTUCKY: Precipitation less than 0.50 in. west to around 3.00 in. east but rainfall locally in excess of 3.00 in. southeast 4th resulted in record flooding. Cooling early week followed by warming trend. Temperatures averaged little below normal.

Fieldwork: 2 days favorable. Soil moisture mostly adequate to surplus. Limited progress plowing and land preparation. Spring plowing 58% complete, 75% last year and 51% average. About 91% tobacco beds seeded, with 27% showing plants; well behind last year and slightly behind normal 32%, but generally still in excellent condition. Small grains greening and beginning to grow. Wheat averages 7 in. tall, barley slightly larger; both behind last year's progress. Pastures improving, growth normal except overgrazed in many areas. About 70% of apples in bloom, peachblooms scarce due to winterkill.

LOUISIANA: Temperatures 1 to 3° below normal. Extremes: 35 and 89°. Light rain 4th and 5th. Dry remainder of week.

Fieldwork: 2.8 days suitable. Main activities: Seedbed preparation, planting rice and corn, weed control practices and working livestock. Rice 31% planted, 37% last year. Corn

49% planted, 51% last year. Sugarcane growth continues slow. Small grain in good condition with wheat heading. Irish potatoes growing well. Strawberry harvest active. Pastures average and improving. Livestock fair to good.

MARYLAND & DELAWARE: Temperatures 1 to 2° below normal. Highs low 70's, lows upper teens and upper 20's. Precipitation heavy some areas, amounts over 3.00 in. Most stations reporting 1.50 to 2.00 in. except lower Eastern Shore less than 1.00 in.

Fieldwork hampered early week. Spring plowing over 50%, lagging last year. Some early corn planted. Oat seeding over 75% south, lagging northern Maryland. Wheat conditions fair to good; barley poor to fair, some fields abandoned. Peaches blooming, full boom midweek. Winter damage not as severe as earlier thought. Recent frosts killed some buds. Tobacco bed planting nearing completion. Stripping of 1976 crop slowed by poor condition.

MICHIGAN: Temperatures ranged from 3 to 5° below normal southern Lower to 10° below normal eastern Upper. Temperatures warmed rapidly end of week reaching high 70's and low 80's. Precipitation ranged from 0.20 to 0.50 in. rain southern Lower and 0.45 to 1.00 in. northern Lower and Upper in form of snow.

Small amount spring plowing underway. Main farm activities limited to livestock care, repairing equipment and normal spring chores.

MINNESOTA: Temperatures ranged from near normal east to 5 to 7° above normal west, warmest late week with record high temperatures 10th. Extremes: 91 and 9°. Precipitation less than 0.10 in. northeast and southwest and 0.10 to 0.25 in. elsewhere except locally near 0.50 in. some east central and southeast areas. Precipitation averaged from around 0.25 to 0.50 in. below normal.

Topsoil mostly adequate in south; short in north. Enough moisture is present to germinate seeds, but more needed to assure continued growth after germination as subsoil remains very dry most areas. Small grain seeding active in south. Percent seeded: Spring wheat 5%, 1976 22%, normal 7%; oats 6%, 1976 29%, normal 8%; barley 1%, 1976 9%, normal 3%.

MISSISSIPPI: Temperatures normal. Extremes: 29 and 86°.

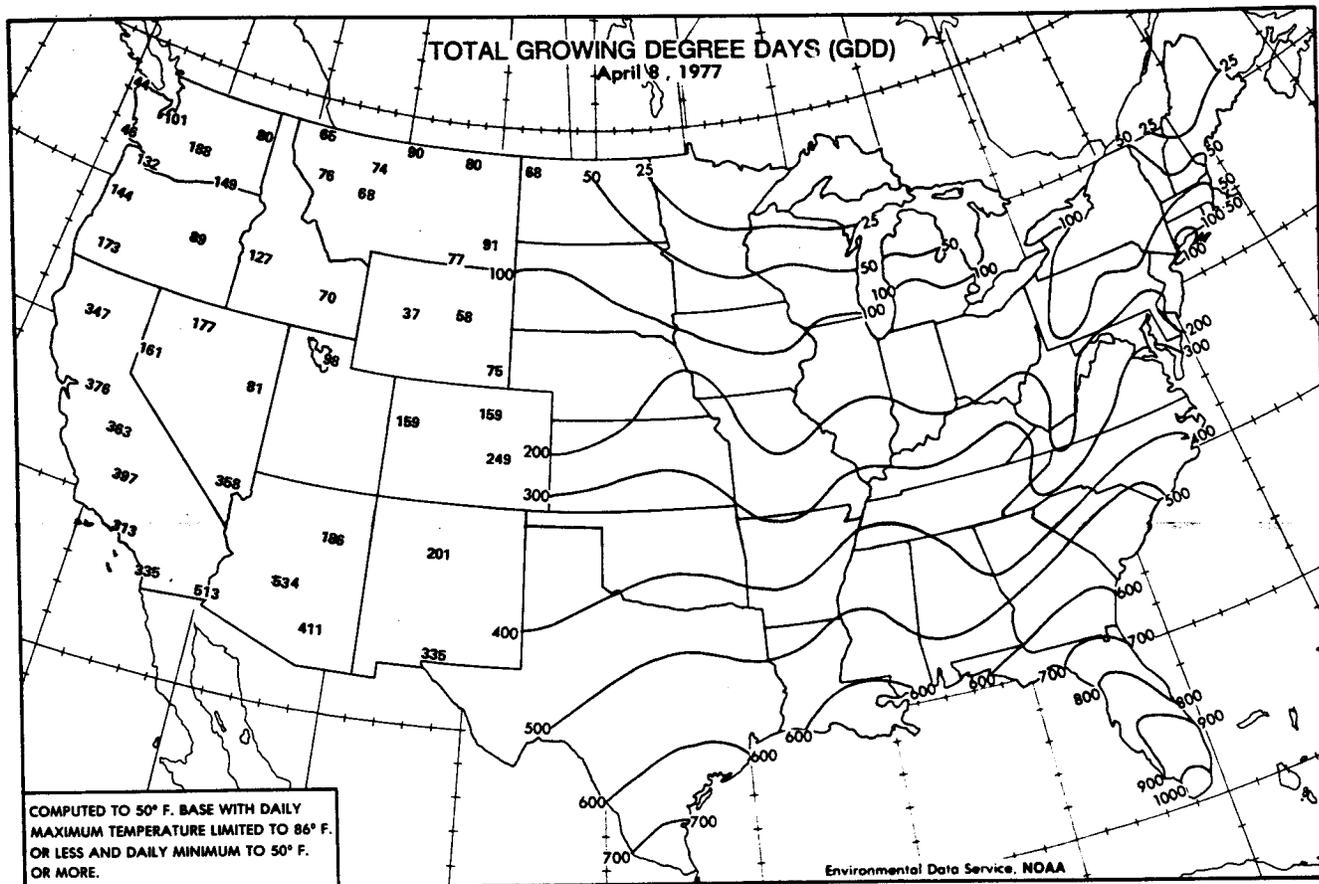
Soil moisture adequate to surplus. Fieldwork: 1.6 days suitable. Acreage plowed 63%, 58% 1976, 50% average. Corn 23% planted, 31% 1976, 17% average. Irish potatoes 80% planted. Winter wheat 58% jointing, 84% 1976. Oats 50% jointing, 82% 1976. Winter wheat and oats in fair to good condition. Livestock and pastures in fair condition in the north and fair to good in south.

MISSOURI: Mild temperatures turned to freezing 4th to 6th but rose into 70's and low 80's by weekend. Rainfall averaged less than 0.50 in.

Fieldwork: 3.9 days suitable. Plowing 77% complete, 86% last year. Oats 90% sown, 96% last year. Corn 8% planted, 14% last year, 5% normal. Wheat condition fair. Pastures fair. Livestock fair. Soil moisture short to adequate.

MONTANA: Very warm, dry. Precipitation well below normal. Brief showers and cooler temperatures at week's end. Record high temperatures in 70's and low 80's 8th.

Topsoil dry north and east. Winter wheat continues fair to good. Growth slow. Spring planting slow due dry soils. About 5% spring



wheat, barley and sugarbeets seeded. Ranges largely dormant. Calving 65% and lambing and shearing 55% complete. Losses of newborn calves and lambs light.

NEBRASKA: Temperatures 5 to 10° above normal. Precipitation 0.10 to 1.00 in.

Farmers continuing spring fieldwork. Topsoil moisture adequate. Subsoil moisture short. Winter wheat mostly fair condition. Oats 55% planted; barley 60% planted. Pasture and range feed supplies short. Pastures greening. Calving continues.

NEVADA: Temperatures mostly above normal. Extremes: 18 and 90°. Very little precipitation, however, 6 in. snow in higher elevations of Lake Tahoe Basin.

Winter grains made good growth. Fieldwork moved into high gear. First irrigation northern areas. Ranges starting to green. Calving, lambing continuing.

NEW ENGLAND: Temperature about normal but chilly weather prevailed weekend. Precipitation average; between 0.50 to 1.00 in. northern New England and between 1.00 to 2.00 in. southern New England.

NEW JERSEY: Temperatures 5 to 11° below normal. Extremes: 17 and 65°. Rainfall 1.66 in. north, 1.44 in. central and 0.70 in. south. Soil moisture in percent of field capacity averaged: 99 north, 98 central and 97 south. Soil temperature averaged 41° north, 43° central and 49° south. Principal farm activities were spring soil preparation and fruit spraying.

NEW MEXICO: Dry through 9th with widely scattered mountain showers 10th but no substantial rainfall.

Soil moisture short. Field preparation continued in open weather. Limited number of cotton fields planted. Alfalfa fair to good. Dryland winter wheat poor to fair condition; irrigated crop fair to good. Durum wheat fair to good. Spring barley planting complete, winter barley fair to good. Corn planting should start next week. Ranges poor north, fair south. Livestock fair to good.

NEW YORK: Temperatures averaged 5 to 11° below normal. Extremes: 2 and 60°. Widespread rain 4th and 5th, heavy over lower Hudson Valley and Long Island. Light snow 6th thru 9th.

NORTH CAROLINA: Temperatures 2° above normal on the coast and 1 to 3° below normal west and central. Precipitation ranged from 2.00 to 3.00 in. in the mountains and 0.25 to 0.50 in. on coast.

Soil moisture: adequate to surplus. Fieldwork: 3.9 days suitable. Main farm activities: Land preparation and corn planting. Wheat, rye, barley, Irish potatoes, truck crops and tobacco in field are fair to good. Pasture and tobacco plant beds mostly good. Oats mostly fair. Corn planting 14% complete. Tobacco transplanting about 5% complete.

NORTH DAKOTA: Temperatures ranged from 1° below normal to 6° above normal. Extremes: 9 and 92°. Precipitation ranged 0.18 in. to 0.36 in. below normal.

Seeding small grains beginning. Additional precipitation needed to replenish subsoil moisture. Livestock fair to good condition.

OHIO: Windy, 12 in. snow Great Lake area. Cold except south every day 6th to 9th. Much warmer 10th. Precipitation ranged 1.23 to 0.21 in.

Condition fall sown grains continues to improve; wheat, pasture, alfalfa all fair to good. Freezing nights caused additional damage to fruit in south. Soil moisture adequate to surplus. Fieldwork: less than 1 day favorable. Plowing 65% done, 85% 1976 and 60% normal. Tobacco beds 55% sown same as last year, 45% average. Oats 20% planted equal to average, 55% last year. Potatoes 5%, 10% 1976 but 5% average. Sugarbeets less than 5%, 30% 1976, 10% average.

OKLAHOMA: Temperatures 5° above normal Panhandle to 2° above normal in southwest and southeast. Little or no precipitation except for isolated amounts north central.

Wheat condition dropped to fair, following week of little or no new moisture, above normal temperatures and high winds. With 70% of the crop jointing, moisture demands high. Topsoils in all major wheat areas are rated short to very short. Additional acreage going for grazeout. Greenbugs and brown spiders remain active, with some spraying done. Oats and barley crops also lost condition with jointing slightly ahead of a year earlier. Corn planting slow. Panhandle acreage being irrigated before planting. Seedbed preparation for row crops 40 to 50% complete, well along for this date. Pecan trees starting to get leaves and condition good at this time. Ranges need for new growth. Low stock ponds are problem. Cattle condition improving, with warmer weather and grazeout forage.

OREGON: Dry with strong warming trends. Some precipitation along coast. Precipitation elsewhere light. Temperatures ranged from 4 to 9° above normal. Extremes: low 80's, low 30's west; low 90's, low teens east.

Field crops in fair to good condition. Spraying, fertilizing, seeding and tilling major activities. Orchard crops in various stages of bloom and in good shape at this time. Sprays being applied. Ranges and pastures generally in good condition but short in moisture. Livestock in good shape. Calves and lambs look excellent.

PENNSYLVANIA: Temperatures 6 to 12° below normal. Maxima mostly 30's and 40's, minima 20's and 30's. Cloudy and wet first half, partly cloudy to clear thereafter with precipitation from 0.60 in. west and north to 1.50 in. south central and east. Few inches new snow central and north higher elevations.

Fieldwork limited by wet fields. Less than one day suitable. Activities included hauling manure, fertilizing, orchard pruning, grape trimming and tying, fence repair, planting a few fields of oats and potatoes. Moisture mostly surplus to adequate.

PUERTO RICO: Island rainfall 0.71 in. or 0.02 in. above normal. Temperatures about 76° on coasts and 69° interior. Extremes: 90 and 54°.

Sunny skies favored harvest and maturity sugarcane but affected plantings south coastal areas. Good blooming coffee trees. Rains needed for bean formation. Seasonal field operations active. Tobacco harvest and drying main activities. Soil preparation food crops planting underway. Plantings done in areas where it rained but seriously affected by dryness of soil other areas. Small quantities of quality food crops harvested.

SOUTH CAROLINA: Temperatures normal first half, slightly below normal last half. Rainfall normal west, below normal south, east.

Moisture and plant condition in tobacco beds fair to good. Tobacco plants small. Tobacco transplanting underway. Corn, watermelon planting well underway; around 75% of land prepared for spring planting. Other activities were: Transplanting tomatoes; harvesting greens; cultivating cabbage, beets, lettuce; staking tomato plants. Corn planted 58%, 62% 1976. Watermelons planted 76%, 66% 1976. Cotton planted 6%, 14% 1976.

SOUTH DAKOTA: Record warm temperatures weekend, 6 to 12° above normal for week. Extremes: 10 and 94°. Precipitation generally less than 0.10 in. Above normal precipitation since growing season began.

Excellent weather spurred fieldwork. Topsoil moisture mostly adequate, subsoil moisture short. Small grain seed in full swing. Percent seeded: Oats 16%, 1976 61%, normal 11%; spring wheat 12%, 1976 67%, normal 11%; barley 12%, 1976 52%, normal 8%. Spring plowing 12% complete, 1976 35%, normal 7%. Rye condition poor to excellent. Winter wheat poor to fair, some resown to spring grains. Calving continues. Some hog producers concerned over pseudorabies. Stock water adequate.

TENNESSEE: Precipitation 1.50 in. west to 5.50 in. east. Temperatures above normal west, below normal east.

Fieldwork: 1.3 days suitable. Soil moisture surplus. Flooding caused much damage to buildings, fences, roads and bridges in the east half; damage heaviest in upper east. Pastures, oats, wheat condition fair. Plowing 70% complete. Tobacco seedbeds nearly 100% planted. Corn slightly less than 10% planted.

TEXAS: Temperatures 3 to 5° above normal northwest; normal north central; below normal elsewhere. Rainfall nil. Trace fell extreme east upper Gulf Coast, none elsewhere. Soil temperatures warm enough all crops rice belt. Northeast soil temperatures warm enough corn, sorghum; still cool peanuts, cotton. High Plains soils warm enough corn, but cool other row crops.

Field preparations, planting very active. Cotton planting accelerated rapidly southern Blacklands, sorghum planting advanced southern Low Plains. Stands corn planted northern High Plains. Cool weather slowed development cotton, sorghum south half. Wheat, oats good progress from Low Plains southward but short moisture hurting prospects northern High Plains. Wheat good growth Low Plains southward, stands early boot to milk stage. Short moisture restricting dryland stands northern High Plains but irrigated fields respond well, warmer temperatures. Cotton planting active southern Blacklands. Field preparations nearing completion High, Low Plains as farmers finish fertilizing, applying preplant irrigation. Stands Lower Rio Grande Valley, Coastal Bend slow growth, cool nighttime temperatures. Sorghum planting move, rapid pace well ahead average. Limited replanting necessary Blacklands but early stands satisfactory progress south to Lower Rio Grande Valley. Corn planting, lagging far behind schedule. Cutworms aphids active southern areas not reached damaging levels. Rice planting good progress but cool weather delayed growth; stands only fair. Cotton 7% planted, 12% 1976, 13% average. Corn 28% planted, 48% 1976, 57% average. Sorghum 50% planted, 49% 1976, 41% average. Peanuts 17%

planted, 9% 1976, 8% average. Rice 52% planted, 67% 1976, 71% average.

Lower Rio Grande Valley, onion harvest in progress. Cantaloup, honeydew planting continues. Harvest citrus, cabbage, carrot active. High winds caused some grapefruit to drop and minor damage to vegetables. Few aphids on vegetables requiring control measures. Coastal Bend: Cucumber planting nears completion, early fields good progress. Watermelons showing good growth. San Antonio-Winter Garden spinach harvest near completion. Melons, potatoes making normal progress. Peach prospects indicate large crop expected. Thinning fruit continues in central area to allow additional size. Pecan trees as far north as Red River leafing out with catkins present in east central.

Livestock continue improve as mild temperatures allow pastures recover. Internal, external parasites affect herds southern areas; spraying drenching underway to control them. Sheep, goat shearing complete.

UTAH: No precipitation. Drought situation extremely serious most sections. Temperatures extremely variable ranging from 6° below normal to 8°.

Spring planting: Good progress north where some winter moisture received. Winter wheat greening up fair. High winds sapping soil moisture south. Fruit prospects fair. Apricots just starting to bloom main production areas. Calving and lambing nearing peak. Sheep shearing continues.

VIRGINIA: Temperatures slightly below normal. Freezing temperatures end of period. Extremes: 84 and 21°. Heavy rainfall early week ranged from 0.80 in. to 5.28 in. southwest where flooding occurred.

Fieldwork: 2.3 days suitable. Topsoil moisture adequate to surplus. Fertilizing, liming, plowing active. Pasture good condition, wheat fair. Corn 3% planted, 8% 1976, 2% average. Fruit crop prospects reduced by frost. Some tobacco plant beds washed out. Eastern Shore potato planting virtually complete.

WASHINGTON: West: Temperatures above average and precipitation below normal.

Farmers continue work soil. Planting pasture, hay, potatoes, early vegetables, and strawberries.

Pastures made good growth, though supplemental feeding of cattle continue. Limited green chopping.

East: Temperatures 4 to 7° above normal. Precipitation below normal.

Planting potatoes, sugarbeets, alfalfa, small grains, pasture and some vegetables active. Yakima Valley pear and cherry orchards moving into full bloom. Grape buds breaking. Winter wheat fields look mostly good. Warm weather stimulated plant growth and spraying weeds. Recrop land low in moisture, some will be diverted to summer fallow. Summer fallow tillage in full swing. Range and pastures generally poor condition.

WEST VIRGINIA: Temperatures below normal. Precipitation above normal, especially south where flooding occurred.

Soil moisture surplus to adequate. Fieldwork: 1.2 days suitable. Planting progress: Spring oats 18% complete, Irish potatoes, less than 20% complete, tobacco beds 75% seeded. Small grains mostly fair to good. Pastures and apples fair. Peaches poor. Winter damage to wheat reported light to moderate. Farm activities: Plowing, planting.

WISCONSIN: Week began cool and wet. Heavy snowfall of 6 to 12 in. central and northeast 4th, mixture rain and snow south with total precipitation near 1.00 in. Less than 2 in. snow fell northwest. Light precipitation 5th to 6th, mainly northeast. Drier and warmer after midweek, temperatures reaching upper 70's to middle 80's 10th.

Fieldwork becoming active as land dries off.

WYOMING: Temperatures above normal. Precipitation below normal.

Topsoil moisture short to adequate. Subsoil short. Spring planting behind normal: Spring wheat 8% planted; oats 8% planted; sugarbeets 2% planted; barley 21% planted. Winter wheat prospects fair. Calving and lambing in full swing. Spring calves 52% dropped, range ewes 24% lambled, farm flock ewes 68% lambled. Normal progress on shearing, range and farm flock sheep, 32% and 67% shorn respectively. Spring grazing prospects poor to good, majority fair.

Temperature and Precipitation Data for March 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 . . .	57	+ 4	8.7	+2.5	La. Baton Rouge . . .	63	+ 3	4.9	- .2	Youngstown . . .	42	+ 7	4.5	+1.3
Mobile . . .	63	+ 4	6.1	-1.0	Lake Charles . . .	62	+ 2	2.7	-1.1	OKLA. Okla. City . . .	54	+ 6	1.3	- .8
Montgomery . . .	59	+ 2	7.2	+1.2	New Orleans . . .	65	+ 4	4.0	-1.5	Tulsa . . .	55	+ 7	5.6	+3.1
ALASKA. Anchorage . .	25	+ 1	.8	+ .2	Shreveport . . .	60	+ 3	4.9	+ .8	OREG. Astoria . . .	45	+ 1	9.7	+3.1
Barrow . . .	-22	- 7	.2	0	MAINE. Caribou . . .	33	+ 9	2.4	+ .2	Burns . . .	35	- 1	.3	- .6
Fairbanks . . .	5	- 5	.3	- .2	Portland . . .	36	+ 4	6.9	+3.3	Medford . . .	43	- 2	1.1	- .5
Juneau . . .	36	+ 4	3.3	- .3	MD. Baltimore . . .	50	+ 7	3.9	+ .2	Pendleton . . .	44	0	1.5	+ .5
Kodiak . . .	-	-	-	-	MASS. Boston . . .	45	+ 7	4.8	+ .8	Portland . . .	46	0	3.5	- .1
Nome . . .	5	-12	.8	0	Chatham . . .	40	-	3.9	-	Salem . . .	45	0	3.3	-1.0
ARIZ. Flagstaff . . .	34	0	.9	- .9	MICH. Alpena . . .	36	+10	2.5	+ .6	PA. Allentown . . .	45	+ 7	5.9	+2.3
Phoenix . . .	61	+ 1	.3	- .5	Detroit . . .	42	+ 7	3.6	+1.1	Erie . . .	41	+ 8	3.5	+ .7
Tucson . . .	56	- 2	.7	+ .1	Flint . . .	39	+ 6	2.8	+ .7	Harrisburg . . .	46	+ 5	6.1	+2.9
Winslow . . .	42	- 3	.2	- .2	Grand Rapids . . .	40	+ 7	3.8	+1.3	Philadelphia . . .	49	+ 7	4.2	+ .5
Yuma . . .	60	+ 4	T	- .2	Houghton Lake . . .	35	+ 8	2.4	+ .7	Pittsburgh . . .	44	+ 6	4.1	+ .5
ARK. Fort Smith . . .	53	+ 3	6.3	+2.7	Lansing . . .	40	+ 7	2.7	+ .3	Scranton . . .	41	+ 4	4.8	+2.2
Little Rock . . .	57	+ 7	7.2	+2.3	Marquette . . .	34	+ 7	2.1	+ .2	R.I. Providence . . .	44	+ 7	5.6	+1.6
CALIF. Bakersfield . .	54	- 3	1.3	+ .5	Muskegon . . .	39	+ 6	3.5	+1.1	S.C. Charleston . . .	61	+ 4	5.3	+ .5
Eureka . . .	46	- 2	4.3	- .5	S. Ste. Marie . . .	29	+ 5	4.8	+3.1	Columbia . . .	60	+ 6	6.3	+1.6
Fresno . . .	52	- 2	1.0	- .6	MINN. Duluth . . .	31	+ 7	4.4	+2.6	Greenville . . .	55	+ 4	8.5	+3.2
Los Angeles . . .	57	- 2	1.9	- .3	Internat Falls . . .	30	+ 9	1.9	+ .8	S.D. Aberdeen . . .	34	+ 7	3.4	+2.5
Red Bluff . . .	53	0	1.4	-1.1	Minneapolis . . .	38	+10	2.7	+1.0	Huron . . .	34	+ 5	5.9	+4.8
San Diego . . .	58	0	.6	-1.0	Rochester . . .	39	+11	2.9	+1.2	Rapid City . . .	36	+ 5	2.6	+1.6
San Francisco . . .	51	- 2	2.0	- .5	St. Cloud . . .	35	+ 9	2.0	+1.7	Sioux Falls . . .	36	+ 6	3.6	+2.2
Stockton . . .	54	+ 1	1.0	-1.0	MISS. Jackson . . .	60	+ 4	6.6	+1.0	TENN. Chattanooga . .	54	+ 4	8.4	+2.8
COLO. Denver . . .	40	+ 3	1.2	0	Meridian . . .	58	+ 2	12.6	+6.4	Knoxville . . .	55	+ 5	6.1	+1.2
Grand Junction . . .	41	0	.5	- .3	MO. Columbia . . .	47	+ 5	3.6	+1.0	Memphis . . .	59	+ 8	4.1	-1.0
Pueblo . . .	42	+ 2	.1	- .6	Kansas City . . .	48	+ 7	2.6	0	Nashville . . .	54	+ 5	5.8	+ .8
CONN. Bridgeport . . .	42	+ 4	7.7	+4.2	St. Louis . . .	50	+ 7	6.3	+3.3	TEX. Abilene . . .	57	+ 2	2.4	+1.4
Hartford . . .	43	+ 7	6.6	+2.8	Springfield . . .	49	+ 5	3.4	+ .4	Amarillo . . .	49	+ 3	.2	- .6
D.C. Washington . . .	53	+ 8	2.2	-1.1	MONT. Billings . . .	36	+ 3	1.4	+ .4	Austin . . .	61	+ 1	2.1	+ .2
FLA. Apalachicola . .	63	+ 2	3.7	-1.0	Glasgow . . .	34	+ 9	1.1	- .3	Beaumont . . .	63	+ 3	2.2	- .9
Daytona Beach . . .	69	+ 5	1.4	-2.0	Great Falls . . .	34	+ 3	1.9	+ .9	Brownsville . . .	69	+ 1	.1	- .6
Ft. Myers . . .	71	+ 2	1.1	-3.0	Havre . . .	35	+ 8	2.0	+1.5	Corpus Christi . . .	66	+ 1	1.0	- .1
Jacksonville . . .	65	+ 4	1.0	-2.6	Helena . . .	32	+ 1	1.1	+ .4	Dallas . . .	-	-	-	-
Key West . . .	76	+ 1	1.1	-1.5	Kalispell . . .	35	+ 4	1.2	+ .3	Del Rio . . .	63	0	.9	+ .2
Lakeland . . .	71	+ 5	.8	-3.2	Miles City . . .	36	+ 6	1.0	+ .3	El Paso . . .	50	- 5	.2	- .2
Miami . . .	75	+ 4	.9	-1.2	Missoula . . .	34	+ 1	1.0	+ .3	Fort Worth . . .	57	+ 2	5.9	+3.4
Orlando . . .	70	+ 4	1.8	-1.7	NEBR. Grand Island .	41	+ 5	3.3	+2.1	Galveston . . .	62	+ 1	1.4	-1.2
Tallahassee . . .	64	+ 4	6.1	+ .2	Lincoln . . .	44	+ 7	3.5	+2.0	Houston . . .	61	0	2.0	- .7
Tampa . . .	71	+ 5	.7	-3.2	Norfolk . . .	41	+ 8	3.6	+2.2	Lubbock . . .	52	+ 3	.8	- .1
W. Palm Beach . . .	74	+ 5	.5	-2.8	N. Platte . . .	37	+ 3	2.9	+1.9	Midland . . .	55	+ 1	.6	0
GA. Atlanta . . .	55	+ 4	6.3	+ .5	Omaha . . .	46	+11	3.7	+2.1	San Angelo . . .	58	+ 1	1.0	+ .1
Augusta . . .	59	+ 4	8.1	+3.4	Valentine . . .	33	+ 2	4.2	+3.4	San Antonio . . .	62	+ 1	.9	- .6
Macon . . .	60	+ 3	7.9	+2.7	NEV. Ely . . .	28	- 5	.7	- .2	Victoria . . .	64	+ 2	1.1	- .8
Savannah . . .	62	+ 4	2.7	-1.7	Las Vegas . . .	53	- 2	.3	0	Waco . . .	60	+ 3	2.9	+ .5
HAWAII. Hilo . . .	73	+ 2	15.5	+1.8	Reno . . .	38	- 2	.2	- .5	Wichita Falls . . .	56	+ 3	2.1	+ .5
Honolulu . . .	76	+ 3	2.4	- .8	Winnemucca . . .	37	- 1	.4	- .3	UTAH. Blanding . . .	37	- 1	T	- .9
Kahului . . .	75	+ 3	1.6	-1.3	N.H. Concord . . .	37	+ 5	4.5	+1.7	Salt Lake City . . .	38	- 2	3.1	+1.5
Lihue . . .	74	+ 2	2.4	-2.3	N.J. Atlantic City . .	46	+ 5	3.4	- .9	VT. Burlington . . .	38	+ 9	3.0	+1.1
IDAHO. Boise . . .	40	- 1	.9	- .1	Trenton . . .	48	+ 7	4.9	+1.1	VA. Lynchburg . . .	52	+ 8	2.7	- .8
Lewiston . . .	42	- 1	.9	- .1	N.MEX. Albuquerque . .	46	0	.6	+ .1	Norfolk . . .	55	+ 7	4.0	+ .6
Pocatello . . .	35	0	.8	- .1	Roswell . . .	52	+ 3	.3	- .2	Richmond . . .	54	+ 7	2.7	- .7
ILL. Cairo . . .	55	+ 7	8.8	+4.1	N.Y. Albany . . .	40	+ 7	5.9	+3.3	Roanoke . . .	53	+ 8	2.6	- .7
Chicago . . .	45	+ 8	3.9	+1.2	Binghamton . . .	38	+ 7	5.1	+2.2	WASH. Colville . . .	38	+ 1	1.0	- .1
Moline . . .	44	+ 8	4.6	+2.0	Buffalo . . .	40	+ 8	2.4	- .5	Oak . . .	40	+ 1	.7	- .1
Peoria . . .	45	+ 8	4.4	+1.6	New York . . .	46	+ 5	6.6	+2.6	Quillayute . . .	42	0	10.8	0
Rockford . . .	42	+ 8	3.5	+ .8	Rochester . . .	40	+ 7	2.2	- .4	Seattle-Tacoma . . .	46	+ 2	3.8	+ .2
Springfield . . .	48	+ 9	5.1	+2.4	Syracuse . . .	40	+ 7	3.5	+ .5	Spokane . . .	38	0	1.2	- .3
IND. Evansville . . .	51	+ 7	6.2	+1.5	N.C. Asheville . . .	51	+ 5	7.3	+2.6	Walla Walla . . .	45	- 1	1.0	- .4
Ft. Wayne . . .	44	+ 7	4.5	+1.6	Charlotte . . .	55	+ 4	8.5	+2.0	Yakima . . .	43	+ 1	.2	- .4
Indianapolis . . .	47	+ 7	3.8	0	Greensboro . . .	53	+ 5	2.8	- .9	W. Va. Beckley . . .	47	+ 7	2.5	-1.7
South Bend . . .	44	+ 9	7.1	+4.3	Hatteras . . .	55	+ 4	4.0	+ .2	Charleston . . .	50	+ 5	3.2	- .8
IOWA. Burlington . . .	45	+ 8	4.7	+2.0	Raleigh . . .	53	+ 4	5.6	+2.2	Huntington . . .	50	+ 6	3.1	-1.0
Des Moines . . .	45	+11	3.6	+1.3	Wilmington . . .	58	+ 4	5.7	+1.6	Parkersburg . . .	49	+ 6	2.9	- .9
Dubuque . . .	42	+10	4.8	+1.8	N.DAK. Bismarck . . .	34	+ 9	.7	0	WIS. Green Bay . . .	37	+ 8	4.7	+3.0
Sioux City . . .	41	+ 8	4.0	+2.5	Fargo . . .	32	+ 8	1.7	+ .9	La Crosse . . .	40	+ 9	2.6	+ .6
KANS. Concordia . . .	47	+ 8	2.1	+ .5	Williston . . .	34	+ 9	T	- .6	Madison . . .	40	+10	3.0	+1.1
Dodge City . . .	48	+ 7	.5	- .6	OHIO. Akron-Canton . .	45	+ 9	3.6	+ .4	Milwaukee . . .	39	+ 8	4.6	+2.4
Goodland . . .	39	+ 3	1.6	+ .9	Cincinnati . . .	47	+ 5	4.5	+ .4	WYO. Casper . . .	31	0	1.1	+2.2
Topeka . . .	50	+ 9	2.1	- .1	Cleveland . . .	43	+ 7	4.5	+1.4	Cheyenne . . .	32	0	1.3	+ .2
Wichita . . .	50	+ 6	1.4	- .4	Columbus . . .	46	+ 7	3.9	+ .5	Lander . . .	31	0	3.3	+2.1
KY. Lexington . . .	51	+ 7	4.2	- .6	Dayton . . .	46	+ 7	3.5	+ .3	Sheridan . . .	33	+ 2	1.8	+ .6
Louisville . . .	52	+ 8	4.7	- .4	Toledo . . .	42	+ 6	4.4	+1.9	P.R. San Juan . . .	78	+ 2	1.7	- .3

Based on 1941-70 normals

WATER SUPPLY OUTLOOK FOR THE WESTERN UNITED STATES
 Issued as of April 1, 1977

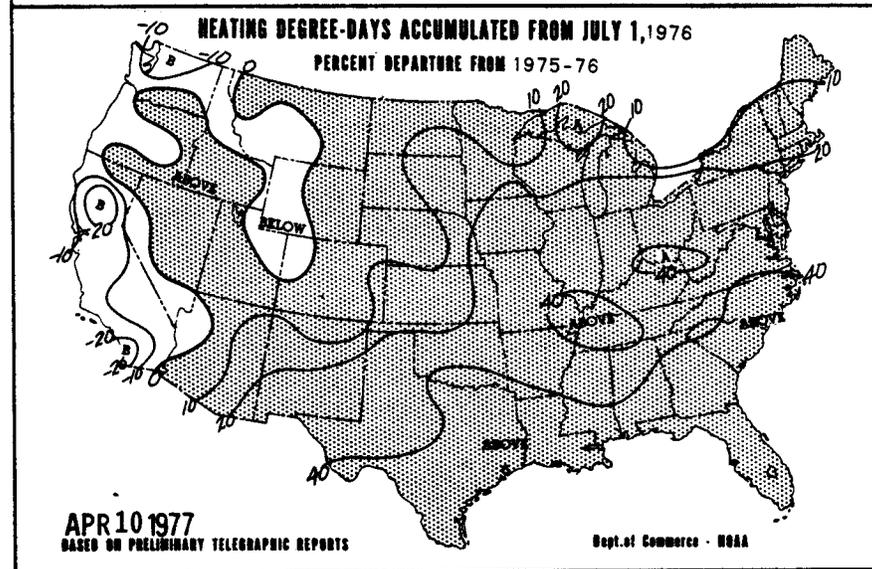
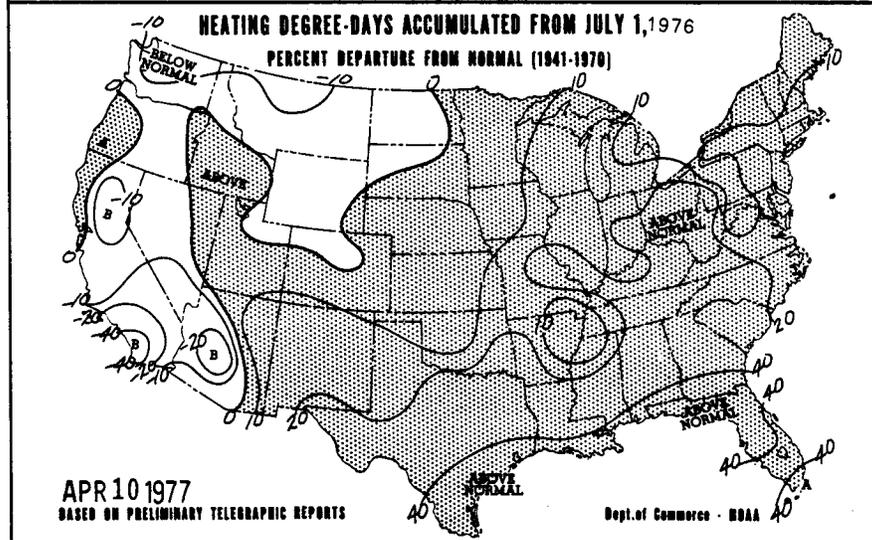
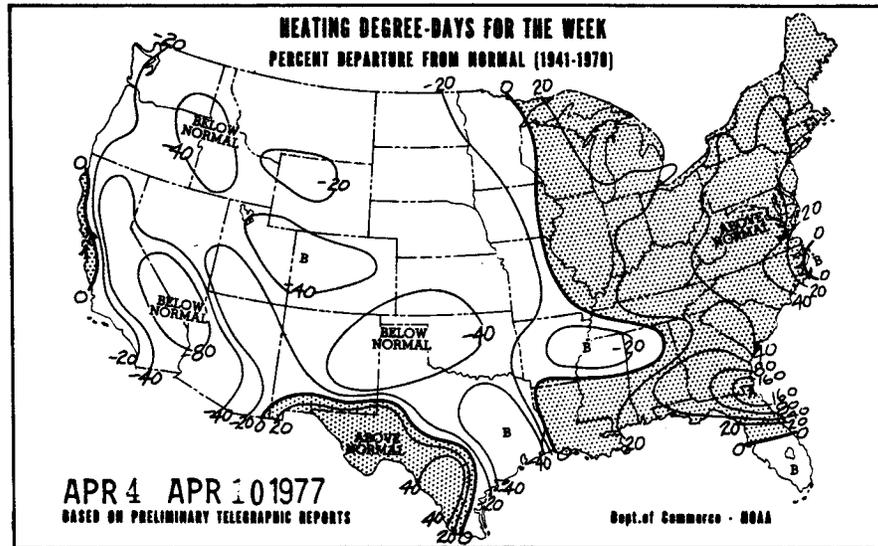
The table below shows the runoff forecast in percent of the 15-year (1958-72) average. The forecasts are for the remainder of the water year (October thru September), except for the full water year for the Sacramento and San Joaquin Basins; April 1 to September 30, 1977, for the Missouri, Yellowstone, and North Platte Basins; November 1, 1976 to June 30, 1977 for the Little Colorado Basins; and January 1 to June 30, 1977, for the Gila Basin. The publication "Water Supply Outlook for the Western United States," issued as of April 1, 1977, contains the complete water supply forecasts for about 375 stations in the Western United States.

River	Station	Forecast 1,000 Acre-feet	Percent 15-year average
Columbia	Grand Coulee, WA	41,600	60
Columbia	The Dalles, OR	55,200	53
Snake	Lower Granite, WA	9,030	41
Sacramento	Red Bluff, CA	2,900	32
San Joaquin	Big Creek, CA	300	23
Weber	Gateway, UT	45	15
Jordan	Utah Lake, UT	120	46
Truckee	L. Tahoe-Farad	60	21
Colorado	L. Powell infl.	2,935	38
Green	Green River, UT	1,080	35
San Juan	Bluff, UT	275	27
Little Colo.	Woodruff, AZ	4.3	50
Gila	Solomon, AZ	20	37
Rio Grande	San Marcial, NM	146	41
Arkansas	Pueblo, CO	100	28
Missouri	Ft. Peck, MT	2,150	45
Yellowstone	Sidney, MT	4,250	61
North Platte	Glendo, WY	395	48

Office of Hydrology
 National Weather Service

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING APR. 10, 1977.

STATES AND STATIONS	WEEKLY			SEASONAL ACCUMULATION *			STATES AND STATIONS	WEEKLY			SEASONAL ACCUMULATION *			STATES AND STATIONS	WEEKLY			SEASONAL ACCUMULATION *		
	TOTAL	DEPARTURE*	DEPARTURE FROM 1975-76	TOTAL	DEPARTURE*	DEPARTURE FROM 1975-76		TOTAL	DEPARTURE*	DEPARTURE FROM 1975-76	TOTAL	DEPARTURE*	DEPARTURE FROM 1975-76		TOTAL	DEPARTURE*	DEPARTURE FROM 1975-76	TOTAL	DEPARTURE*	DEPARTURE FROM 1975-76
ALA. BIRMINGHAM...	348	12	348	719	971	971	MAINE. CARIBOU...	90	46	90	737	737	YOUNGSTOWN...	195	52	692	1171	1607	1607	
MOBILE...	348	12	348	719	971	971	PORTLAND...	24	46	24	737	737	OKLA. OKLAHOMA CITY...	54	24	303	363	363	363	
MONTGOMERY...	348	12	348	719	971	971	MD. BALTIMORE...	143	45	98	4918	4918	TULSA...	224	24	394	394	394	394	
ARIZ. FLAGSTAFF...	150	19	150	5890	521	74	MASS. BOSTON...	173	38	135	5428	5428	OREG. ASTORIA...	220	20	200	200	200	200	
PHOENIX...	150	19	150	5890	521	74	MICH. ALPENA...	49	49	49	777	777	BURNS...	110	10	110	110	110	110	
TUCSON...	150	19	150	5890	521	74	DETROIT...	104	43	61	4280	4280	DEFOUR...	110	10	110	110	110	110	
YUMA...	150	19	150	5890	521	74	FLINT...	104	43	61	4280	4280	PORTLAND...	110	10	110	110	110	110	
ARK. FORT SMITH...	34	3	34	400	403	1043	GRAND RAPIDS...	104	43	61	4280	4280	SALEM...	110	10	110	110	110	110	
LITTLE ROCK...	34	3	34	400	403	1043	HOUGHTON LAKE...	104	43	61	4280	4280	PA. ALLENTOWN...	110	10	110	110	110	110	
CALIF. BAKERSFIELD...	11	1	11	179	179	179	LANSING...	104	43	61	4280	4280	PHILADELPHIA...	110	10	110	110	110	110	
EUREKA...	11	1	11	179	179	179	MARQUETTE...	104	43	61	4280	4280	PITTSBURGH...	110	10	110	110	110	110	
FRESNO...	11	1	11	179	179	179	MUSKEGON...	104	43	61	4280	4280	SCRANTON...	110	10	110	110	110	110	
LOS ANGELES...	11	1	11	179	179	179	STE. MARIE...	104	43	61	4280	4280	I. PROVIDENCE...	110	10	110	110	110	110	
RED BLUFF...	11	1	11	179	179	179	MINN. DULUTH...	104	43	61	4280	4280	C. CHARLESTON...	110	10	110	110	110	110	
SAN DIEGO...	11	1	11	179	179	179	INTERNATL FALLS...	104	43	61	4280	4280	COLUMBIA...	110	10	110	110	110	110	
SAN FRANCISCO...	11	1	11	179	179	179	RYNENAPOLIS...	104	43	61	4280	4280	GREENVILLE...	110	10	110	110	110	110	
STOCKTON...	11	1	11	179	179	179	ROCHESTER...	104	43	61	4280	4280	S. DAK. ABERDEEN...	110	10	110	110	110	110	
COLO. DENVER...	81	4	81	5157	213	213	ST. CLOUD...	104	43	61	4280	4280	HURON...	110	10	110	110	110	110	
GRAND JUNCTION...	81	4	81	5157	213	213	MISS. JACKSON...	31	31	31	2961	2961	RAPID CITY...	110	10	110	110	110	110	
PUEBLO...	81	4	81	5157	213	213	MO. COLUMBIA...	31	31	31	2961	2961	SIoux FALLS...	110	10	110	110	110	110	
CONN. BRIDGEPORT...	80	3	80	5454	53	936	KANSAS CITY...	31	31	31	2961	2961	TENN. CHATTANOOGA...	110	10	110	110	110	110	
HARTFORD...	80	3	80	5454	53	936	SPRINGFIELD...	31	31	31	2961	2961	KNOXVILLE...	110	10	110	110	110	110	
DEL. WILMINGTON...	46	3	46	5167	57	1074	MO. KANSAS CITY...	31	31	31	2961	2961	MEMPHIS...	110	10	110	110	110	110	
D.C. WASHINGTON...	46	3	46	5167	57	1074	SPRINGFIELD...	31	31	31	2961	2961	NASHVILLE...	110	10	110	110	110	110	
FLA. PALM BEACH...	127	4	127	4411	415	1191	MO. SPRINGFIELD...	31	31	31	2961	2961	TEXAS. ARILENE...	110	10	110	110	110	110	
APALACHICOLA...	127	4	127	4411	415	1191	MONT. BILLINGS...	31	31	31	2961	2961	AMARILLO...	110	10	110	110	110	110	
DAYTONA BEACH...	127	4	127	4411	415	1191	GLASGOW...	31	31	31	2961	2961	AUSTIN...	110	10	110	110	110	110	
FORT MYERS...	127	4	127	4411	415	1191	GREAT FALLS...	31	31	31	2961	2961	BEAUMONT...	110	10	110	110	110	110	
JACKSONVILLE...	127	4	127	4411	415	1191	HAVRE...	31	31	31	2961	2961	BROWNSVILLE...	110	10	110	110	110	110	
KEY WEST...	127	4	127	4411	415	1191	HELENA...	31	31	31	2961	2961	CONROE...	110	10	110	110	110	110	
LAKELAND...	127	4	127	4411	415	1191	HILLSBORO...	31	31	31	2961	2961	DEL RIO...	110	10	110	110	110	110	
MIAMI...	127	4	127	4411	415	1191	MISSOULA...	31	31	31	2961	2961	FORT WORTH...	110	10	110	110	110	110	
MIRALBA...	127	4	127	4411	415	1191	NEBR. GRAND ISLAND...	31	31	31	2961	2961	GALVESTON...	110	10	110	110	110	110	
ORLANDO...	127	4	127	4411	415	1191	LINCOLN...	31	31	31	2961	2961	HOUSTON...	110	10	110	110	110	110	
TALLAHASSEE...	127	4	127	4411	415	1191	NORTH PLATTE...	31	31	31	2961	2961	LUBBOCK...	110	10	110	110	110	110	
TAMPA...	127	4	127	4411	415	1191	OMAHA...	31	31	31	2961	2961	MIDLAND...	110	10	110	110	110	110	
NEXT PALM BEACH...	127	4	127	4411	415	1191	VALENTINE...	31	31	31	2961	2961	SAN ANGELO...	110	10	110	110	110	110	
GA. ATLANTA...	111	1	111	6630	83	115	NEV. FLY...	31	31	31	2961	2961	SAN ANTONIO...	110	10	110	110	110	110	
AUGUSTA...	111	1	111	6630	83	115	LAS VEGAS...	31	31	31	2961	2961	VICTORIA...	110	10	110	110	110	110	
MACON...	111	1	111	6630	83	115	RENO...	31	31	31	2961	2961	UTAH. SALT LAKE CITY...	66	64	5263	112	22	22	
SAVANNAH...	111	1	111	6630	83	115	HINNEBUCCA...	31	31	31	2961	2961	VT. BURLINGTON...	24	44	7601	516	805	805	
IDAHO. BOISE...	80	3	80	498	423	423	H. CONCORD...	31	31	31	2961	2961	VA. LYNCHBURG...	11	6	4734	728	1080	1080	
LEHISTON...	80	3	80	498	423	423	J. ATLANTIC CITY...	31	31	31	2961	2961	NORFOLK...	11	6	4734	728	1080	1080	
POCATELLO...	80	3	80	498	423	423	TRENTON...	31	31	31	2961	2961	RICHMOND...	11	6	4734	728	1080	1080	
ILL. CHICAGO...	11	1	11	1340	1340	1340	N. MEX. ALBUQUERQUE...	31	31	31	2961	2961	ROANOKE...	11	6	4734	728	1080	1080	
CHICAGO...	11	1	11	1340	1340	1340	ROSNELL...	31	31	31	2961	2961	WASH. QUILLAYUTE...	11	6	4734	728	1080	1080	
DECATUR...	11	1	11	1340	1340	1340	N. Y. ALBANY...	31	31	31	2961	2961	SEATTLE-TACOMA...	11	6	4734	728	1080	1080	
PEORIA...	11	1	11	1340	1340	1340	BINGHAMTON...	31	31	31	2961	2961	SPOKANE...	11	6	4734	728	1080	1080	
ROCKFORD...	11	1	11	1340	1340	1340	ELIZABETH...	31	31	31	2961	2961	MALLA HALLA...	11	6	4734	728	1080	1080	
SPRINGFIELD...	11	1	11	1340	1340	1340	NEW YORK...	31	31	31	2961	2961	YAKIMA...	11	6	4734	728	1080	1080	
IND. EVANSVILLE...	80	3	80	498	423	423	ROCHESTER...	31	31	31	2961	2961	W. VA. BECKLEY...	11	6	4734	728	1080	1080	
FORT WAYNE...	80	3	80	498	423	423	SYRACUSE...	31	31	31	2961	2961	CHARL. HUNTINGTON...	11	6	4734	728	1080	1080	
INDIANAPOLIS...	80	3	80	498	423	423	N. C. ASHEVILLE...	31	31	31	2961	2961	MUNTSBURG...	11	6	4734	728	1080	1080	
SOUTH BEND...	80	3	80	498	423	423	CHARLOTTE...	31	31	31	2961	2961	PARKERSBURG...	11	6	4734	728	1080	1080	
IOWA. BURLINGTON...	80	3	80	498	423	423	GREENSBORO...	31	31	31	2961	2961	WIS. GREEN BAY...	11	6	4734	728	1080	1080	
DES MOINES...	80	3	80	498	423	423	HARTFORD...	31	31	31	2961	2961	LACROSSE...	11	6	4734	728	1080	1080	
STOUCX CITY...	80	3	80	498	423	423	RALEIGH...	31	31	31	2961	2961	HILDAUREE...	11	6	4734	728	1080	1080	
KANS. CONCORDIA...	80	3	80	498	423	423	HILMINGTON...	31	31	31	2961	2961	WYO. CASPER...	11	6	4734	728	1080	1080	
BOGIE CITY...	80	3	80	498	423	423	FARGO...	31	31	31	2961	2961	CHEYENNE...	11	6	4734	728	1080	1080	
GODDARD...	80	3	80	498	423	423	HILLSTON...	31	31	31	2961	2961	DAKOTA...	11	6	4734	728	1080	1080	
TOPERA...	80	3	80	498	423	423	OHIO. CANTON...	31	31	31	2961	2961	WYOMING...	11	6	4734	728	1080	1080	
NICHITA...	80	3	80	498	423	423	CINCINNATI...	31	31	31	2961	2961	WYOMING...	11	6	4734	728	1080	1080	
KY. LEXINGTON...	80	3	80	498	423	423	CLEVELAND...	31	31	31	2961	2961	WYOMING...	11	6	4734	728	1080	1080	
LOUISVILLE...	80	3	80	498	423	423	COLUMBUS...	31	31	31	2961	2961								



World Weather and Crop Update

USSR. Temperatures continued to be above normal throughout the principal agricultural regions of USSR during the reporting period. Precipitation was light to moderate over most of European USSR with heaviest amounts in the Baltics and Bielorussias. Some much welcome rain was recorded in Moldavia and the Southern Ukraine--10mm to 20mm generally. March precipitation in these two areas was only 50-60 percent of normal, and top soil was beginning to dry out in places. Condition of winter grains is good throughout the principal areas. Field work is being extended northward and sowing of row crops--sunflowers, sugarbeets, potatoes--is underway in Moldavia, southern Ukraine and in the North Caucasus. Precipitation was very light throughout the Volga Valley and in the Urals regions. March precipitation in the Southern Urals and Lower Volga was only about two-thirds of normal. Precipitation also was light in Western and Eastern Siberia and in North Kazakhstan.

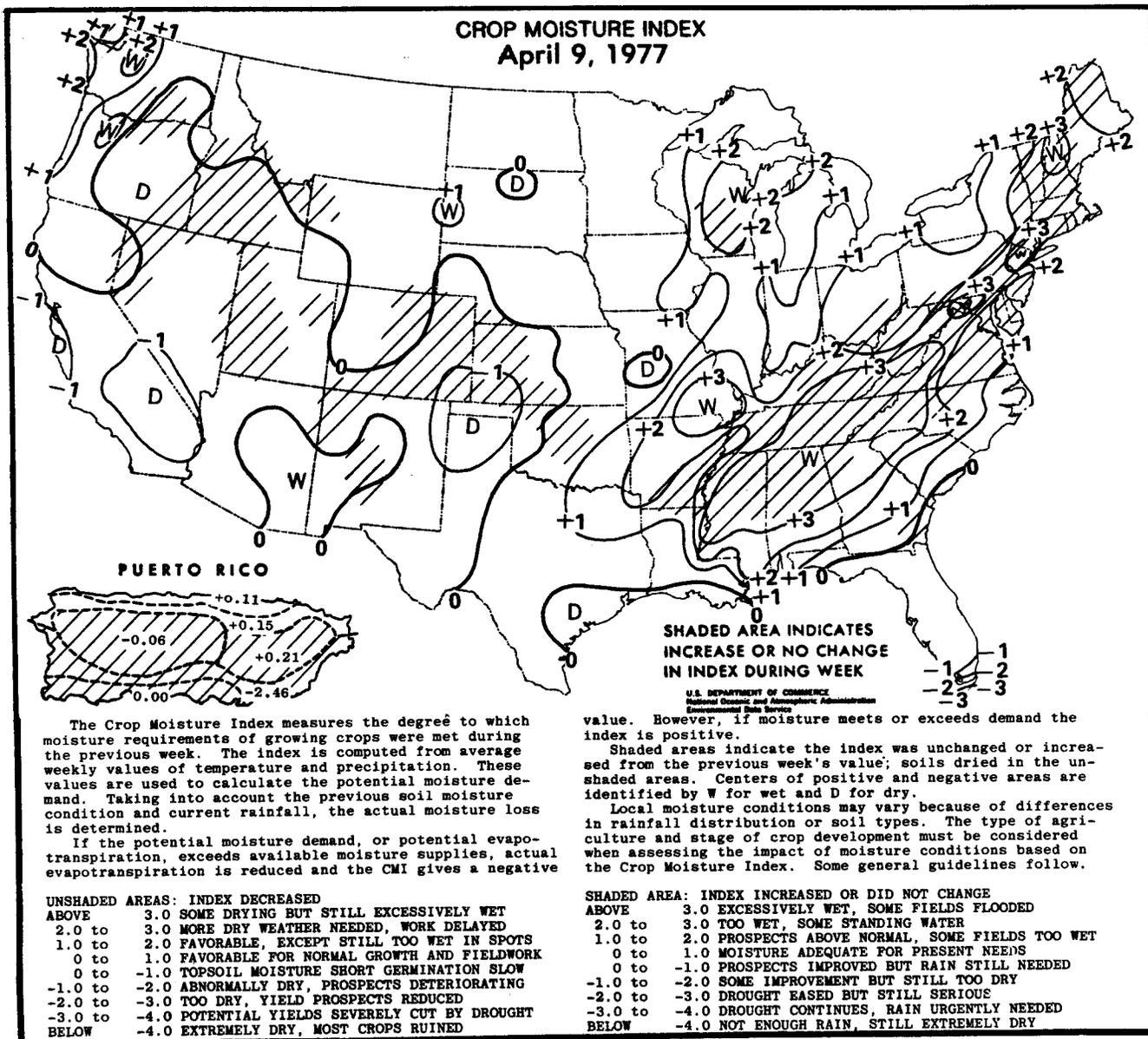
ASIA. Mild temperatures continued to prevail throughout the People's Republic of China. Moderate to heavy precipitation was widespread from the Yangtze Valley southward with 1-2 inches of rainfall recorded over many areas. Precipitation was spotty over Kwangtung province where the transplanting of the early rice crop is being delayed in some areas because of the shortage of irrigation water. The southern fringes of the winter wheat belt in North China continues to receive additional rainfall, but Hopeh and Shansi provinces were rainless during the reporting period while precipitation was highly variable and spotty in Shantung and Northern Honan. Precipitation was seasonally light throughout Manchuria. In India, temperatures continued in the 90's and low 100's. Light to moderate shower activity was recorded mainly from New Delhi eastward into Assam where showers were heavier with Calcutta reporting 48mm for the period. Harvesting of wheat is now getting underway in the central and northern wheat regions. Precipitation was generally light and spotty in the principal grain regions in Australia where fall planting of winter wheat will soon be commencing.

AFRICA. Data continue to be incomplete for South Africa. General showers, however, fell over most

of the maize triangle on April 7 with heaviest amounts reported from the Transvaal. Corn harvesting will soon be commencing in these regions. Rainfall was spotty in North Africa where winter grains and pastures have been adversely affected by a moisture shortage. Algeria reported amounts ranging from 5mm to 22mm, heaviest along the coast, but Morocco and Tunisia were essentially rainless during the reporting period.

EUROPE. Unseasonably cool temperatures combined with light to moderate precipitation as Western Europe was generally cool and damp during the past week. Field work is probably being held up by almost daily precipitation in some places, especially over the northern part of the continent and in the United Kingdom. Precipitation was light along the Mediterranean and in Spain where sub-freezing temperatures at the end of March inflicted considerable damage to fruit trees, vineyards, and vegetable crops. Moderate to heavy showers fell in the Po Valley in Italy, but the remainder of that country was generally without significant rainfall. Light to moderate rain also fell in Sicily. In Eastern Europe, it was unseasonably cool and damp in East Germany and Poland; precipitation ranged from 4mm to 10mm in these two countries with heavier amounts along the coast. Czechoslovakia, Hungary, and Yugoslavia also received some good showers, but precipitation was light in Romania and Bulgaria. There was little significant rainfall in Greece where precipitation has been well below normal for several months.

NORTH AMERICA. There has been no significant improvement in the severe drought situation in the West Coast states in the United States. Coastal areas in the Pacific Northwest received up to an inch of rainfall over the past week, but precipitation was sparse inland. Scattered light showers fell in California. Record cold temperatures were recorded east of the Rocky Mountains during the past week, but damage to crops is believed to have been light. Most of the corn belt states received light to moderate showers but precipitation was generally light over winter wheat areas in Kansas, Oklahoma, and Texas.



Agricultural Climatology Service Office
South Building Mail Unit
U. S. Department of Agriculture
Washington, D.C. 20250

IMMEDIATE - U. S. Weather Report

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