

WEEKLY WEATHER AND CROP BULLETIN

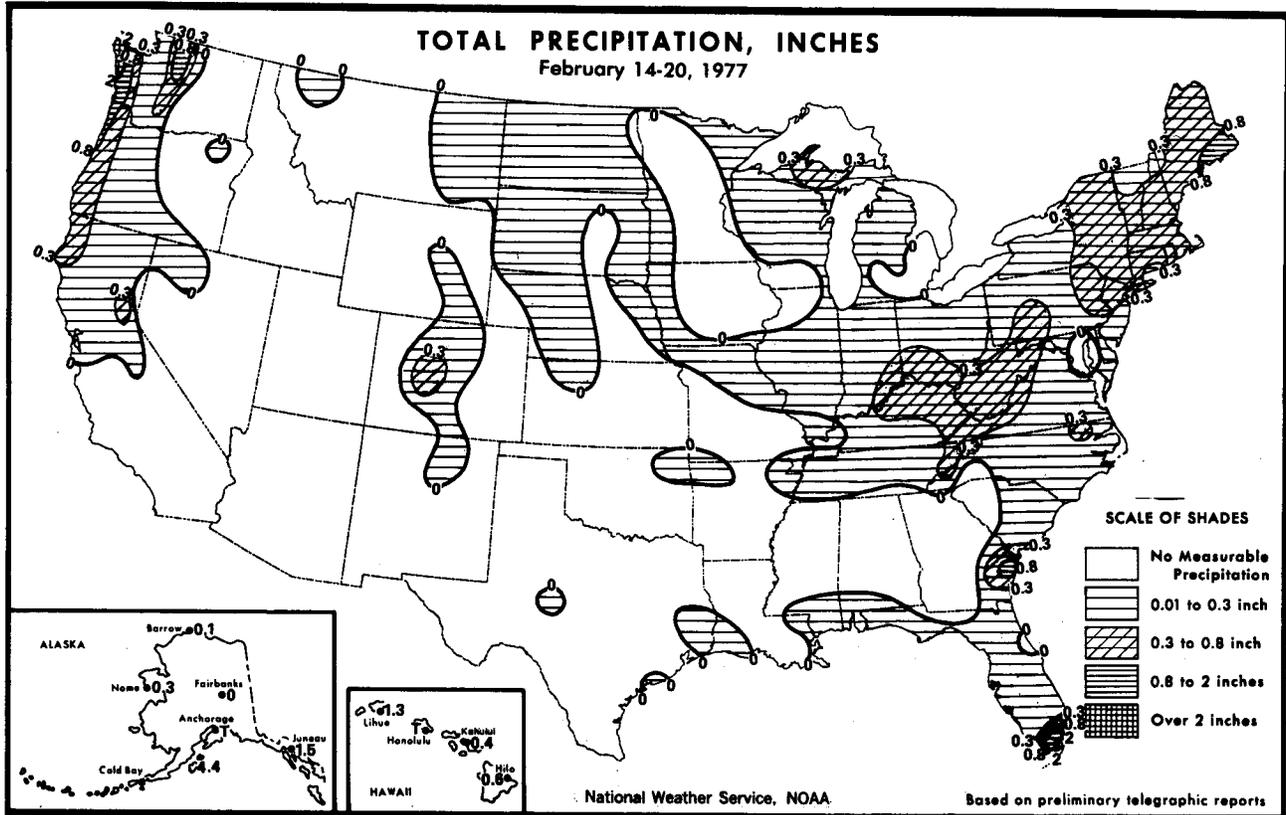
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National Weather Summary

For the week of February 14-20

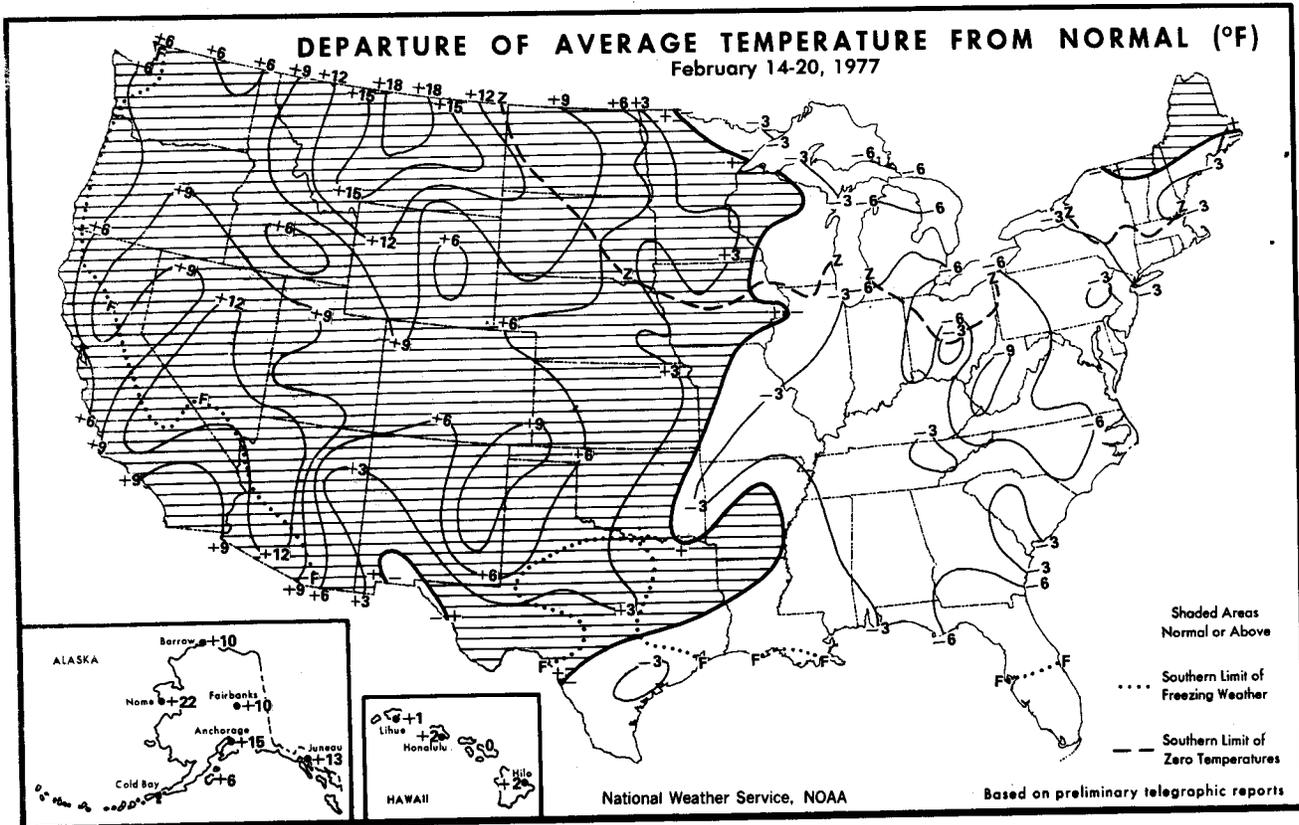
HIGHLIGHTS: Unseasonably warm weather prevailed from the Mississippi River to the West Coast. In the West, temperatures in the intermountain Plateau region averaged 10 to 13° above normal and most of Montana was 15 to 20° warmer than normal. The East was only 3 to 5° below normal but one exception was the State of Florida where temperatures averaged 6 to 8° below normal and several frosty mornings were reported. Precipitation was generally light in most of the Nation but at the end of the week rain began in Washington, Oregon and northern California where it was badly needed.

After a brief warm period, colder weather was moving back into the Great Plains. Temperatures in the Dakotas ranged as low as 5° Monday morning. Afternoon readings were more than 20° colder than the day before in parts of the northern and central Plains. Rain and snow continued to move across the Midwest. Snow showers were scattered from the Great Lakes region into Nebraska and South Dakota.

Some minor flooding due to ice jams occurred in parts of West Virginia and southeastern Pennsylvania but the cooler weather lessened this threat. Mostly sunny skies and mild weather dominated the West. Southern California was experiencing a hot spell. Santa Ana, Calif. reported 92° for the hot spot of the Nation.

Colder air continued to move into the northern Plains on Tuesday and spread its chilling influence into the lower Mississippi Valley and toward the Atlantic Coast. The coldest weather in the Nation was reported in the northern Plains and upper Mississippi Valley where temperatures as low as -16° were measured. Light snow fell from southern New England across much of the Great Lakes region and over the Appalachian Mountains. Widely scattered snow showers fell in parts of the northern and central Plains and in the central Rockies. Rainshowers lingered over southern Florida. Meanwhile the mild, dry weather persisted in the West.

As warmer weather edged toward the Mississippi



River from the west on Wednesday, unseasonably cold weather dominated the Nation east of the river. Early morning temperatures ranged from -20° in northern Minnesota, near the 00 mark in parts of New England, the teens in the Ohio Valley to freezing as far south as the Gulf Coast. Baton Rouge, La. had a record low for the date of 28° and Mobile, Ala. shivered in 29° weather. Light snow fell in portions of the Dakotas and Nebraska. A disturbance moving across the southeast portion of the Nation brought a mixture of rain and snow to parts of the central and southern Atlantic Coast States. Snow and rain was reported as far south as Jacksonville, Fla. A cold front produced rain along the Washington and Oregon Coasts but by late morning most had ended.

Thursday was another cold morning from the eastern Great Lakes region to the Gulf Coast and to the Atlantic. Temperatures tumbled to the mid-20's in northern Florida and to the low 40's in southern Florida. The mid-Atlantic States were in the low teens and the lowest readings, frequently below zero, reached from northern New England to the eastern Lakes region and upper Ohio Valley. Precipitation was scarce. Snow flurries over parts of the Lakes area and in northern Alabama and Mississippi, and light rain over the coastal sections of Washington, comprised Thursday's precipitation. The warmer weather continued to move eastward and by the end of the day had begun to moderate the middle Ohio Valley.

The warming trend continued to push eastward on Friday and ahead of the warm air, clouds and scattered light precipitation occurred. Snow showers fell over Michigan, Indiana and the western Carolinas and was mixed with rain over portions of the middle Atlantic States. The cold weather per-

sisted in Florida Friday morning but warmed during the day. The West was unseasonably warm and in the same day, the Nation experienced both record high and record low temperatures. West Palm Beach, Fla. had a record low for the date of 37° and Yuma, Ariz. had a record high of 88° . Scattered areas of rainshowers and snow were noted across parts of South Dakota and Minnesota.

On Saturday a cold front pushed across the Great Lakes into New York and southward through the Ohio Valley. Snow was reported all along the front from Maine southward and in Illinois and Indiana. Rain changing to snow spread over the mid-Atlantic Coast States by evening. Evening showers and thunderstorms were reported from Louisiana to Georgia. Much colder weather moved into the northern half of the Mississippi River Valley and Great Lakes region. Early afternoon temperatures in the area ranged in the 20's and 30's. As winter prevailed in the East a heat wave built up in the West. Bakersfield, Calif. reported a record high temperature for the month of February as the mercury climbed to 85° .

A low pressure system intensifying off the Atlantic Coast on Sunday brought snow to the eastern Great Lakes, the Appalachians and the Ohio Valley. The snow spread throughout New England during the day. Some rain occurred in the mid-Atlantic States and thunderstorms were scattered along the South Atlantic Coast. Light snow was reported over the upper Mississippi Valley. The colder weather moved on into southeastern U.S. An intense storm in the Pacific was producing significant precipitation in western Washington, Oregon and northern California. Some areas were receiving the heaviest rain so far this month. However the reported amounts were far short of the month's deficiency.

National Agricultural Summary

For the Week of February 14-20

HIGHLIGHTS: Moderating temperatures and almost no precipitation brought out farmers in the southern States to begin some early land preparation and fertilizing. Most of the United States remained dry with only some East South Central and South Atlantic States reporting adequate soil moisture. The winter wheat crop began greening in several States. Farmers spread fertilizer on the small grain crops, pastures and grass fields. Calving and lambing activity increased. Fruit growers pruned apple and peach trees. Pastures across the South improved but did not provide significant forage requirements. Vegetable growers began planting crops farther north following the retreating winter temperatures.

SMALL GRAINS: Moderating temperatures greened wheat as far north as Kansas but subnormal precipitation kept most of the crop in only fair condition. Very little of the crop had snow cover but very little wind damage occurred so far this season. Growers irrigated where facilities and water were available.

In Kansas the wheat condition was unchanged in poor to fair condition. Many fields of wheat turned green. Warm temperatures promoted dry conditions and some light wind damage was reported. Texas wheat fields on the plains resumed growth but need more soil moisture. Farmers irrigated fields wherever facilities existed. Greenbug activity increased in a few areas of the Low Plains. In Oklahoma the wheat crop made some new growth with the aid of earlier rains and recent warmer temperatures. All but the Panhandle felt the benefits of the precipitation. The rains helped establish root systems and enabled the plants to produce much needed top growth. The small plants in the Panhandle remain susceptible to blowing. Farmers fertilized small grain fields. In New Mexico dryland wheat rated poor but the irrigated crop was in fair to good condition.

Wyoming winter wheat was in good condition with minimal wind damage. In Utah recent moisture reduced stress on dryland wheat but was far from sufficient to relieve the drought conditions. The Montana winter wheat was in fair condition. The snow cover was almost gone. In Washington subsoil moisture was short but the wheat was in good condition. The eastern Oregon winter wheat crop showed no improvement. In California only irrigated small grains made good progress. In the eastern part of the United States the winter wheat crop was in fair to poor condition. The Ohio crop had limited snow cover. Warmer weather in Florida improved the wheat crop and stimulated growth. Cold caused some poor stands in Delaware and Maryland.

OTHER CROPS: Cotton planting was underway in the Texas Lower Rio Grande Valley. In California cotton growers irrigated fields prior to planting. Arizona growers furrowed and irrigated cotton fields in preparation for the 1977 planting season.

Sugarcane harvest was very active in Florida. Young cane was in fair to poor condition. In Texas sugarcane harvest should resume after a lengthy delay putting harvest progress up to three months behind normal.

Tobacco plant bed preparation advanced from South Carolina to Virginia. In South Carolina growers seeded some beds. In Georgia growers completed bed preparation and plants were in fair condition. Warmer temperatures improved

Florida tobacco plants. In Kentucky burley sales were the lightest of the season. Only sixteen markets remained open but a sizable carry-over, some still to be stripped, remained on some farms.

Farmers planted potatoes in Alabama, Mississippi, Texas and Oregon. Mississippi growers planted 7% of the crop compared with 8% last year. The winter potato crop was harvested in California and Florida.

FRUITS AND NUTS: Fruit growers pruned apple and peach orchards in New Jersey, Delaware, Maryland, Virginia, South Carolina, Washington and Oregon. Alabama growers pruned and sprayed peach trees. Peach trees bloomed in Florida and the southern half of Texas. Filberts bloomed in Oregon and almonds, plums and grapes bloomed in California. The bloom is early and frost poses a threat. In Florida citrus trees showed new growth. Trees need moisture and growers started irrigating. A few dead twigs are now showing as a result of last month's freeze. Orange picking was very active. In the Texas Lower Rio Grande Valley early season orange harvest was almost finished but growers picked Valencias and grapefruit. Arizona citrus growers picked grapefruit, tangelos and sweet oranges. The lemon and Valencia harvests declined. In California growers harvested good quality but small sized Navel oranges. Lemon harvest continued. Fruit in the southern coastal areas broke color before sizing for harvest and growers left the undersized fruit on the tree rather than divert the crop to processing plants.

VEGETABLES: Vegetable growers in South Carolina prepared land for spring planting, set cabbage plants and harvested greens. In Florida pruned vegetable plants suckered but low temperatures slowed growth of all crops. Scattered frost and winds damaged some young squash, snap bean and cucumber plants. Growers planted snap beans, celery, sweet corn, green peppers, potatoes and squash. Harvests of cabbage, lettuce, potatoes and strawberries increased. Volume supplies of snap beans, cucumbers and squash should be available in late March, followed by eggplant and sweet corn in early April. A good supply of strawberries should reach market in early March. Texas vegetable producers harvested carrots, cabbage, lettuce, broccoli and spinach. Growers prepared land and planted bell peppers, cantaloups, watermelons and onions. In Arizona growers harvested lettuce and planted cantaloups and watermelons. California producers picked asparagus, cabbage, carrots, cauliflower and lettuce. Plantings included peas, melons, peppers and sweet corn.

PASTURES AND LIVESTOCK: Grasslands improved, responding to less severely low temperatures but cattle obtained very little forage from pastures. Many areas of the Nation need precipitation to boost growth. In the western part of the Country producers culled herds sharply to conserve the available feed supplies. Calving and lambing became widespread but death losses were high in the colder parts of the Nation. Pig losses were high in Illinois and Indiana because of the low temperatures. Cattle were in poor to fair condition.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., February 20, 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	43	- 4	T	-1.4	La. Baton Rouge	53	- 1	0	-1.2	Youngstown	18	- 9	.2	- .4
Mobile	52	- 2	T	-1.2	Lake Charles	54	- 1	T	-1.2	OKLA. Okla. City	45	+ 3	0	T
Montgomery	46	- 5	T	-1.1	New Orleans	55	- 1	T	-1.2	Tulsa	44	+ 2	T	- .4
ALASKA. Anchorage	33	+15	T	- .2	Shreveport	51	0	0	- .9	OREG. Astoria	49	+ 5	.8	-1.1
Barrow	9	+10	.1	0	MAINE. Caribou	15	+ 2	.6	0	Burns	42	+10	T	- .3
Fairbanks	9	+10	0	- .1	Portland	20	- 3	.5	- .4	Medford	48	+ 7	.3	- .3
Juneau	42	+13	1.5	+ .7	MD. Baltimore	31	- 4	T	- .7	Pendleton	47	+ 7	0	- .3
Kodiak	38	+ 6	4.4	+3.2	MASS. Boston	28	- 2	.5	- .4	Portland	49	+ 6	.2	- .8
Nome	27	+22	.3	+ .1	Chatham	28	- 2	.4	---	Salem	48	+ 5	.2	-1.0
ARIZ. Flagstaff	44	+13	0	- .4	MICH. Alpena	14	- 4	.1	- .2	PA. Allentown	28	- 1	.5	- .2
Phoenix	69	+13	0	- .1	Detroit	22	- 5	T	- .4	Erie	19	- 6	.1	- .5
Tucson	63	+ 9	0	- .2	Flint	18	- 6	T	- .4	Harrisburg	27	- 5	T	- .6
Winslow	43	+ 3	0	- .1	Grand Rapids	18	- 7	T	- .4	Philadelphia	30	- 4	.1	- .5
Yuma	69	+ 9	0	- .1	Houghton Lake	11	- 5	T	- .3	Pittsburgh	21	- 8	.2	- .4
ARK. Fort Smith	40	- 4	T	- .8	Lansing	19	- 5	.4	0	Scranton	23	- 4	.5	0
Little Rock	46	+ 3	T	-1.1	Marquette	15	- 5	.4	0	R.I. Providence	27	- 2	.7	- .2
CALIF. Bakersfield	66	+13	0	- .3	Muskegon	17	- 8	T	- .4	S.C. Charleston	46	- 5	.1	- .7
Eureka	53	+ 4	.3	- .9	S. Ste. Marie	8	- 7	.1	- .3	Columbia	45	- 3	T	- .9
Fresno	60	+10	0	- .4	MINN. Duluth	13	0	T	- .2	Greenville	39	- 6	0	-1.1
Los Angeles	67	+ 9	0	- .7	Internatl Falls	6	- 2	T	- .2	S.D. Aberdeen	24	+ 8	T	- .2
Red Bluff	60	+ 9	1	- .7	Minneapolis	21	+ 4	T	- .2	Huron	23	+ 4	T	- .2
San Diego	63	+ 6	0	- .4	Rochester	20	+ 3	T	- .2	Rapid City	36	+10	.1	0
San Francisco	57	+ 5	.1	- .6	St. Cloud	16	+ 2	T	- .2	Sioux Falls	23	+ 3	T	- .3
Stockton	58	+ 8	T	- .5	MISS. Jackson	49	- 1	0	-1.2	TENN. Chattanooga	38	- 5	0	-1.3
COLO. Denver	40	+ 7	.1	- .1	Meridian	47	- 3	0	-1.3	Knoxville	41	- 2	T	-1.2
Grand Junction	42	+ 8	0	- .1	MO. Columbia	32	- 2	T	- .4	Memphis	42	- 2	T	-1.2
Pueblo	41	+ 6	T	- .5	Kansas City	34	0	T	- .3	Nashville	37	- 4	.1	-1.0
CONN. Bridgeport	29	- 2	.2	- .5	St. Louis	32	- 4	.1	- .4	TEX. Abilene	52	+ 4	0	- .2
Hartford	25	- 2	.2	- .3	Springfield	35	- 3	T	- .6	Amarillo	46	+ 6	0	- .1
D.C. Washington	33	- 4	T	- .6	MONT. Billings	41	+13	T	- .1	Austin	54	0	T	- .8
FLA. Apalachicola	50	- 6	.2	- .8	Glasgow	31	+15	.1	0	Beaumont	55	0	T	-1.1
Daytona Beach	53	- 7	0	- .8	Great Falls	42	+14	0	- .2	Brownsville	61	- 3	0	- .4
Ft. Myers	58	- 7	T	- .5	Havre	40	+22	T	- .1	Corpus Christi	58	- 2	0	- .5
Jacksonville	48	- 8	.1	- .8	Helena	39	+13	0	- .1	Dallas	---	---	---	---
Key West	65	- 7	1.1	+ .6	Kalispell	36	+10	T	- .2	Del Rio	57	+ 1	0	- .3
Lakeland	55	- 7	T	- .6	Miles City	37	+15	T	- .1	El Paso	48	- 1	0	- .1
Miami	62	- 6	2.0	+1.5	Missoula	38	+10	T	- .2	Fort Worth	51	+ 2	.9	- .6
Orlando	54	- 7	T	- .8	NEBR. Grand Island	33	+ 5	T	- .2	Galveston	56	- 0	0	- .9
Tallahassee	49	- 8	T	-1.2	Lincoln	30	+ 1	T	- .2	Houston	54	- 2	0	- .9
Tampa	54	- 8	T	- .7	Norfolk	29	+ 5	.2	0	Lubbock	49	+ 6	T	- .1
W. Palm Beach	59	- 7	.1	- .5	N. Platte	32	+ 3	.1	0	Midland	52	+ 4	0	- .1
GA. Atlanta	41	- 4	0	-1.0	Omaha	37	+11	T	- .3	San Angelo	52	+ 1	T	- .2
Augusta	45	- 3	0	-1.0	Valentine	32	+ 8	.1	0	San Antonio	53	- 2	T	- .5
Macon	47	- 4	T	-1.1	NEV. Ely	38	+10	0	- .1	Victoria	52	- 5	T	- .6
Savannah	50	- 2	.6	- .1	Las Vegas	60	+10	0	- .1	Waco	54	+ 3	0	- .6
HAWAII. Hilo	73	+ 2	.6	-2.8	Reno	46	+ 8	T	- .2	Wichita Falls	49	+ 3	0	- .3
Honolulu	74	+ 2	T	- .6	Winnemucca	43	+ 8	.1	- .1	UTAH. Blanding	42	+ 8	0	- .2
Kahului	72	0	.4	- .2	N. H. Concord	17	- 6	.5	- .7	Salt Lake City	43	- 1	0	- .3
Lihue	72	+ 1	1.3	+ .3	N. J. Atlantic City	29	- 5	.1	- .6	VT. Burlington	19	0	.1	- .3
IDAHO. Boise	43	+ 7	T	- .3	Trenton	30	+ 4	.1	- .6	VA. Lynchburg	33	- 5	T	- .7
Lewiston	47	+ 8	T	- .2	N. MEX. Albuquerque	45	+ 4	0	- .1	Norfolk	36	- 5	.4	- .4
Pocatello	34	+ 4	0	- .2	Roswell	52	+ 9	T	- .1	Richmond	35	- 5	.1	- .7
ILL. Cairo	36	- 4	T	-1.0	N. Y. Albany	22	- 2	.6	0	Roanoke	32	- 6	.1	- .7
Chicago	25	- 3	.1	- .3	Binghamton	19	- 4	.5	- .1	WASH. Colville	37	+ 5	T	- .4
Moline	27	+ 1	T	- .3	Buffalo	20	- 4	.2	- .4	Omak	39	+ 8	0	- .3
Peoria	26	- 2	T	- .4	New York	30	- 3	.3	- .5	Quillayute	47	+ 5	3.0	0
Rockford	22	- 2	T	- .3	Rochester	22	- 3	.1	- .5	Seattle-Tacoma	51	+ 8	T	-1.0
Springfield	28	- 3	.3	- .1	Syracuse	23	- 2	.3	- .4	Spokane	41	+ 8	T	- .4
IND. Evansville	32	- 4	.1	- .7	N. C. Asheville	35	- 5	T	- .9	Walla Walla	49	+ 8	T	- .4
Ft. Wayne	23	- 5	T	- .5	Charlotte	39	- 5	T	-1.0	Yakima	44	+ 7	T	- .2
Indianapolis	26	- 5	.2	- .4	Greensboro	34	- 7	.1	- .7	W. Va. Beckley	24	- 8	.7	- .1
South Bend	23	- 4	T	- .5	Hatteras	42	- 4	.2	- .9	Charleston	26	-11	.7	- .1
IOWA. Burlington	27	- 1	.1	- .2	Raleigh	34	- 8	.1	- .7	Huntington	29	- 7	.5	- .2
Des Moines	27	+ 2	T	- .3	Wilmington	43	- 5	.1	- .8	Parkersburg	27	- 8	.2	- .5
Dubuque	22	- 1	T	- .2	N. DAK. Bismarck	24	+10	.1	0	WIS. Green Bay	18	0	T	- .3
Sioux City	24	0	T	- .2	Fargo	15	+ 4	T	- .1	La Crosse	18	- 2	T	- .2
KANS. Concordia	36	+ 4	0	- .2	Williston	26	+11	.1	0	Madison	19	- 2	T	- .2
Dodge City	44	+ 8	T	- .1	OHIO. Akron-Canton	21	- 7	.1	- .4	Milwaukee	22	- 1	.1	- .2
Goodland	39	+ 7	T	- .1	Cincinnati	25	- 8	.4	- .4	WYO. Casper	32	+ 5	.2	+ .1
Topeka	38	+ 4	0	- .3	Cleveland	19	- 9	.2	- .4	Cheyenne	35	+ 6	T	- .1
Wichita	41	+ 4	0	- .3	Columbus	28	- 2	.2	- .4	Lander	36	+10	T	- .2
Lexington	32	- 4	.4	- .4	Dayton	23	- 8	.3	- .3	Sheridan	35	+ 8	T	- .2
Louisville	32	- 4	.4	- .5	Toledo	20	- 7	T	- .4	P.R. San Juan	78	+ 3	.3	- .3

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: Dry weather continued. Forest fires causing considerable damage. Temperatures varied warm to cold, averaged 5° below normal.

Fieldwork made headway as fields dried. Plowing, fertilizing and feeding major activities. Small grains made limited growth. Irish potato planting continues. Peach trees pruned and sprayed. Livestock poor to fair. Hay supplies short. Pastures supplying some grazing.

ARIZONA: Unseasonably warm, no rain. Temperatures well above normal.

Weather conditions ideal. Land preparations final stages 1977 cotton. Emergence small grains passed 90%. Sugarbeets excellent progress. Alfalfa hay growth started. Lettuce harvest full swing. Planting cantaloups, watermelons well advanced. Grapefruit, lemon harvest virtually complete Yuna. Grapefruit, tangelos sweet orange harvest continues Salt River Valley. Valencia orange harvest limited. Dry warm weather prevailed. Snow higher elevations melting rapidly. Soil moisture, stock water short. Cattle, sheep mostly fair to good condition.

ARKANSAS: Mild, dry. Cold early week with unseasonably warm afternoons late week. Cooler over weekend. Temperatures ranged from 6° below normal to 1° above normal. Extremes: 6 and 70°. Light precipitation in north and central up to 0.10 in.

Some stalk cutting. Pastures improved slightly. Wheat and oats good condition. Some small grain fields topdressed. Cattle still on supplemental feed:

CALIFORNIA: No precipitation. Temperatures much above normal. Some maximum temperature records broken. Scattered showers over weekend, but more rain needed.

Irrigated small grains making good progress. Preplant irrigation of cotton fields continues. Irrigated alfalfa growing well. Early almonds blooming most areas. Later varieties beginning bloom earlier areas. Early plums blooming. Several water agencies announced severe reductions in water for agricultural uses. Pruning, dormant spraying active, tapering off. Placing frost protection devices. Navel orange harvest active, good quality, small sizes. Lemon harvest continues. Fruit southern coastal areas breaking color before large enough for harvest. Undersized fruit left on tree rather than harvest at loss for processing. Avocado harvest peak level. Artichokes and asparagus supply increased. Cabbage, carrots, cauliflower and winter potato harvests continued. Lettuce being harvested in Imperial Valley. Planting of peas, melons, peppers, and sweet corn continued. Recent rains did little to improve range. Thinning herds and supplemental feeding continues. Cattle poor to fair.

COLORADO: Dry and very mild. Temperatures averaged 5 to 10° above normal. Only significant precipitation over northern Continental Divide and along east slopes. Amounts were 0.25 in. or less. Strong winds in mountains and east 17th and 18th.

FLORIDA: Showers 14th, 15th preceded moderate cold front. Coolest temperatures 17th, 18th with frost most areas. Temperatures averaged 5 to 7° below normal. Rainfall generally light north,

central with heavy amounts, up to 2.00 in., coast

Soil moisture mostly adequate but drying rapidly. Land preparation active, about 60% complete. Tobacco plant beds, small grains improving. Sugarcane harvest very active. Young cane fair to poor condition. Peach trees blooming. Small grain, rye grass pastures recovering, warmer temperatures stimulating growth. Heavy frost, 18th burned some new growth on permanent pastures which are providing very limited grazing. Cattle, calves generally poor condition, continue to receive supplemental feed. Citrus trees showing new growth. Moisture needed, irrigation underway. Few dead twigs now showing. Orange harvest very active. Vegetable shipments steady. Some cut-back plants suckering out. Cool weather slowing growth. Scattered frost, cold winds caused some damage mostly to young squash, snap bean, cucumber plants. Planting continues active snap beans, celery, sweet corn, green peppers, potatoes, squash. Harvest cabbage, lettuce, potatoes, strawberries increasing. Volume eggplant, sweet corn early April. Strawberries in good supply early March.

GEORGIA: Temperature 1 to 4° below normal. Precipitation 0.50 in. north, less than 0.10 in south.

Soil moisture adequate. Improved weather conditions enable active fieldwork. Rainfall needed some areas. Small grain mostly fair condition, pasture poor to fair condition. Feed shortage portions of north. Cattle poor to fair condition. Tobacco bed preparation completed, tobacco plants fair condition.

HAWAII: Rainfall increase some areas but moisture level most sections of state below normal. Beneficial showers fell Kona, Hilo and Hamakua area Hawaii, windward area Kauai. Showers other areas light.

Water level reservoirs to irrigate sugarcane continue low. Vegetable supplies adequate. Banana supplies adequate. Sugar harvesting light. Pineapple harvesting light. Pastures poor to fair.

IDAHO: Temperatures near normal to 12° above normal. Extremes: 65 and 5°. Drought conditions continue. Precipitation confined to north and below normal.

Some field preparation for spring planted crops, soil moisture the key. Calving and lambing progressed with light losses. Feed supplies adequate.

ILLINOIS: Temperatures 1° above normal to 4° below normal. Precipitation 0.33 to 0.50 in. west and central, trace elsewhere.

Soil moisture short. Winter wheat fair to poor. Other small grains and legumes mostly fair. Livestock mostly fair to good condition. Feed consumption still heavy but reduced weight gains. Some disease problems, with heavy pig losses. Farmers hauling water most areas. Main farmwork caring for livestock and machinery repair.

INDIANA: Temperatures averaged 3 to 8° below normal. Precipitation was less than 0.10 in. except near 0.20 in. in the central and near 0.40 in. in the south central and southeast.

Soils in the north and central are frozen. Soils in the south are partially frozen. Main activities of farmers still centered around live-

stock care, although some fertilizer spread on wheat and clover and grass seed planted. Unusually high pig loss in some areas due to weather and disease. Snow melt did little to alleviate soil moisture deficiencies.

IOWA: Continued dry with temperatures near normal. Measurable precipitation only in west and south.

KANSAS: Precipitation limited to few hundredths or less; many stations reporting none. Temperatures averaged 37° northeast to 43° southwest or 1° above normal in southeast to 7° above normal west.

Wheat condition unchanged, however, warm temperatures and dry conditions with light wind damage reported in a few areas. Wheat green in many fields. Cattle on supplemental feed.

KENTUCKY: Temperatures averaged 5° below normal of 35 to 40°. Continued dry with precipitation of trace west and 0.50 to 0.75 in. east in rain and snow on 19th and 20th. Snow cover ranged from a trace west to 4 in. east.

Farm activities: Care and feeding of livestock. Some cattle back on fescue pasture since disappearance of snow cover. Heavy feeding still necessary. Burley sales highest of season, only 16 markets open, but tobacco on farms to strip. Carryover sizable for some farms. Some barn cleaning chores as ground permitted. No fieldwork.

LOUISIANA: Temperatures near to slightly above normal. Extremes: 76 and 21°. Rainfall very light confined to south.

Land preparation underway most areas. Other farm activity routine chores and equipment repair. Roughage supply continued short.

MARYLAND & DELAWARE: Temperatures averaged 1 to 3° below normal. Highs in upper 40's, lows in upper 20's. Precipitation very light, 0.25 in. in western Maryland. Weekend sunny and cool.

Field activities limited by wet and frozen ground. Orchard pruning about complete. Small grain condition poor to fair. Prolonged cold weather with little snow cover resulted in poor stands.

MICHIGAN: Temperatures ranged from 4° below normal over most western Upper Peninsula to 9° below normal over west central Lower Peninsula. Mean temperatures varied between 12 to 22° Lower Peninsula and 8 to 15° Upper Peninsula. Precipitation ranged from 0.36 in. over north western Upper Peninsula to only trace over southern Upper Peninsula. Lower Peninsula precipitation ranged from trace over most of southeast to near 0.60 in.

Feeding livestock and farm chores were the main farm activities.

MINNESOTA: Temperatures 2° subnormal extreme north central to northeast and extreme southeast, 3° above normal elsewhere. Extremes: -23 and 44°. Precipitation averaged 0.01 in., 0.15 to 0.20 in. subnormal. Snowfall mostly traces. Snow cover at 4 to 11 in. northeast third, traces elsewhere.

MISSISSIPPI: Temperatures 4 to 6° subnormal. Coldest temperature 10°.

Soil moisture mostly adequate. Fieldwork: 4.5 days suitable. Acreage plowed 20%, 17% 1976, 16% average. Irish potatoes 7% planted, 8% 1976. Winter wheat and oats in very poor to poor condition. Livestock in mostly poor condition. Hay

and roughage supplies very short. Feed grain supplies very short to short.

MISSOURI: Temperatures 1 to 4° below normal except northwest prairie where temperatures averaged 3° above normal. Precipitation scarce and very light.

Farming activities: General livestock care and management.

MONTANA: Extremely warm and dry with temperatures averaging 10 to 20° above normal. Light precipitation east and northwest corner otherwise dry.

Warm weather ideal for calving now over 10% complete. Feed supplies adequate. Grazing open. Winter wheat condition fair. Snowcover mostly gone.

NEBRASKA: Temperatures 5 to 8° above normal. Precipitation less than 0.10 in.

NEVADA: Mild and dry. Temperatures 10° above normal. Extremes: 82 and 6°. No precipitation. Some fieldwork extreme south. Good progress early calving and lambing.

NEW ENGLAND: Near normal temperatures early week gave way to cold at midweek, dipping to 9° at Boston 17th. Moderating temperatures followed late week.

NEW JERSEY: Temperatures 6° below normal, averaging 25° north, 28° south and 30° coastal areas. Extremes: 3 and 48°. Precipitation again below normal, averaging 0.28 in. north, 0.13 in. south and 0.20 in. coastal sections.

Fruit pruning well advanced. Farmers caring for livestock and doing other winter chores.

NEW MEXICO: Token precipitation northern mountains and eastern plains early week, otherwise dry with temperatures warming through week.

Soil moisture generally short. Ranges poor north, fair south. Livestock fair with calving and some shearing continuing. Field preparation for spring planting continued. Dryland winter wheat poor, irrigated crop fair north and east, good elsewhere. Durum wheat plantings virtually complete, limited emergence. Winter barley fair north and east, good elsewhere. Onions progressing in warmer weather in Mesilla Valley.

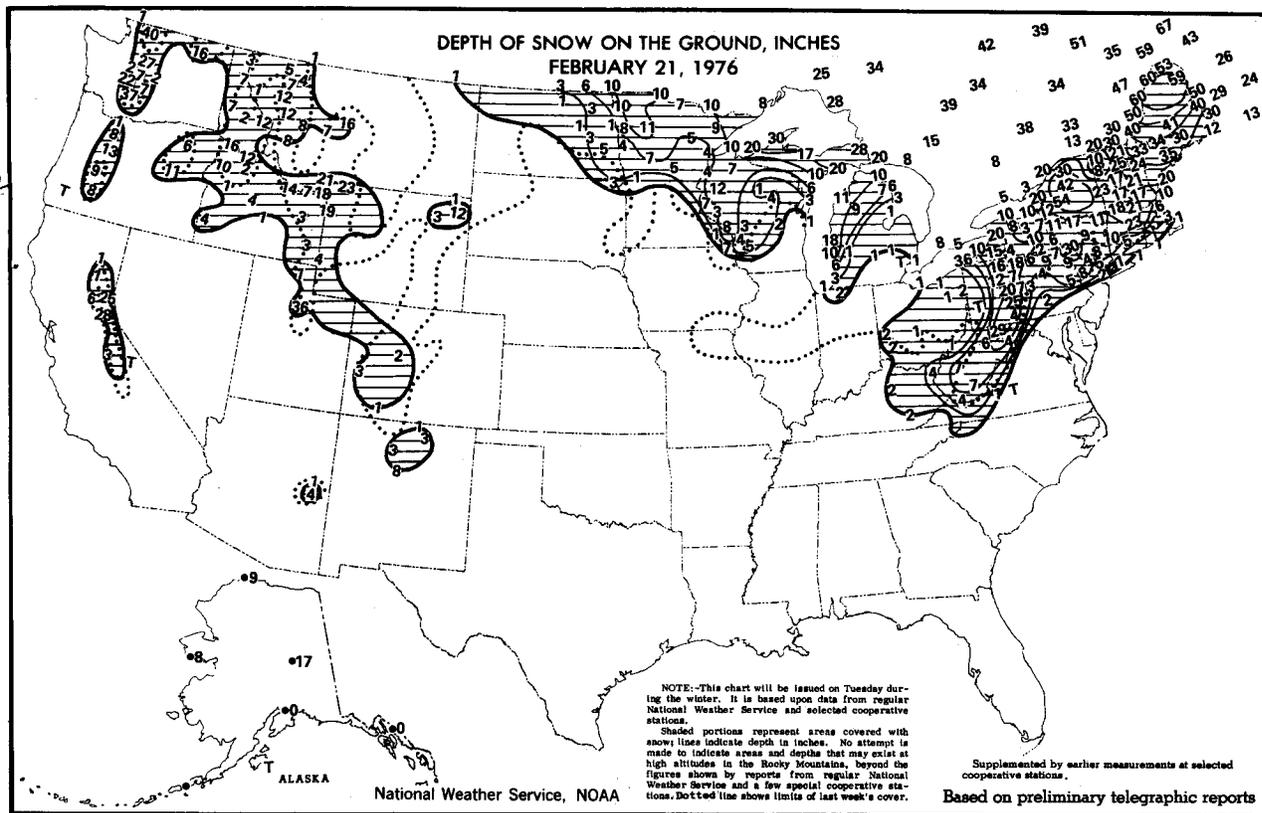
NEW YORK: Temperatures slightly above normal north to 4° below normal south. Extremes: -17 and 44°. Precipitation under 1.00 in.

NORTH CAROLINA: Temperatures averaged 4° below normal. Precipitation below normal but 1 to 3 in. snow.

Fieldwork: 3.6 days suitable. Soil moisture adequate. Pastures poor. Small grain conditions poor to fair. Hay and roughage supplies mostly short to adequate. Feed grain supplies short to mostly adequate. Principle farm activities: Top dressing small grain and pastures, plowing, feeding livestock, preparing tobacco plant beds. Some tobacco plant beds sown in east.

NORTH DAKOTA: Temperatures ranged 6 to 15° above normal. Extremes: 44 and -18°. Precipitation ranged from 1.13 in. below normal to 0.27 in. above normal. Snow cover ranged from trace to 9 in. Weekend partly cloudy, mild temperatures.

Farmers making plans for spring and considering crop alternatives due to dry conditions. Livestock good condition.



OHIO: Snow 14th and 15th with accumulation 1 to 3 in. central and northeast with local amounts 4 to 6 in. in the snowbelt east of Cleveland. Cold middle week. Snow at end of week produced up to 4 in. at Chesapeake and 1 to 3 in. over much of south. Temperatures well below normal.

Farm activities mostly limited to essential winter chores. Very limited snow cover on winter grains.

OKLAHOMA: Temperatures ranged from 1° below normal to 6° above normal. No measurable precipitation.

Wheat made some new growth under warmer temperatures and the rains on 11th that fell in all but the Panhandle. Rains helped establish root systems and enabled plants to get some much needed cover. Small plants in the Panhandle remain susceptible to blowing. Increased grazing was minimal except in the south. Top dressing of small grains stepped up. Spring oat seedings made fair progress. Ranges improved with moisture and some growth of cool season plants. Cattle condition improved with warmer temperatures and lower feed requirements. Marketing remains quite active.

OREGON: Dry weather continued except for 0.70 to 0.80 in. rain on north coastal strip, and nearly 1.25 in. locally at Cloverdale. Temperatures ranged from 5 to 10° above normal and locally to as much as 15° above normal.

Soil moisture very short. Still no snowpack in mountains. General farm activity is light but on the increase. Plowing, fertilizing, liming and some seeding of grains in west. Orchard pruning continues, and potatoes and onions were shipped. In east no improvement in wheat condition. Potato planting started.

Calving and lambing continue. Feeding heavy; supplies are adequate. Pastures and ranges need moisture.

PENNSYLVANIA: Temperatures 4 to 10° below normal under generally sunny skies. Extremes: 41 and -12°. Dusting of snow early and weekend snow-storm east produced snowfall total 1 to 2 in. west and 4 to 15 in. east. Melted precipitation from 0.10 in. west to 0.40 central and 0.90 northeast. Snow cover greatly diminished until weekend storm.

Farmers doing normal winter chores.

PUERTO RICO: Island rainfall 0.10 in. or 0.57 in. below normal. Temperatures about 75° on coasts and 69° interior. Extremes: 91 and 49°.

Sugarcane harvest continued. Plantings south-west affected by dry weather. Coffee harvesting, cultivating, pruning and fertilizing main activities. Tobacco harvesting and cultivating active. Dry weather and short days slowing pasture development. Cattlemen selling livestock to control situation. Soil preparation for planting food crops underway but planting affected due lack of rain.

SOUTH CAROLINA: Temperatures normal central and south, slightly below normal west and north. No precipitation except for northeast and south which received 0.20 to 0.30 in. respectively.

Setting cabbage plants. Preparing land for spring planting. Harvesting greens. Preparing land for cabbage, cucumber and tomatoes. Most peach, apple trees pruned. Tobacco beds funigated and prepared for seeding.

SOUTH DAKOTA: Temperatures up to 14° above normal. Extremes: -14 and 61°. Snows very light in east

and central areas, less than inch in west.

Operators caring for livestock, preparing for crop season, waiting for moisture. Unseasonably warm weather premitted some early fieldwork in west.

TENNESSEE: Average temperatures 2 to 5° below normal. Rainfall trace to less than 0.10 in. Normal is 1.10 to 1.40 in.

Farm activities: Feeding and caring of livestock, machinery repair, land preparation.

TEXAS: Little precipitation, rainfall well below normal. Temperatures ranged 5° above normal north to 2° below normal along Upper Coast.

Warm, sunny weather wakened dormant wheat on plains promoted growth in other areas. Clear, dry weather welcome change south. Wheat fields on plains resumed growth, need additional moisture. Irrigation was common wherever facilities existed. Scattered fields on Low Plains have more greenbugs. Oats fields responded to warmer weather. Fields north areas greening up. Cotton planting continued on limited scale south. Land preparation active as field conditions allowed. Seedbed preparations, fertilizer application prevalent. Sugarcane harvesting should resume after lengthy delay. Harvesting three months behind normal rate.

Lower Rio Grande Valley carrot, cabbage, lettuce harvest increased. Planting bell peppers resumed, cantaloup planting underway. Some onion fields infestation purple blotch. Harvest early season oranges near completion, picking valencias, grapefruit gains momentum. Laredo land preparation for melons continues. Eagle Pass harvest of broccoli, spinach, cabbage active. San Antonio-Winter Garden area weather conditions improved, resumption potato, watermelon planting. Spinach, carrot, cabbage harvest continues. Trans-Pecos most lettuce, onion fields planted; progressing well. Land preparation for cantaloup planting complete at Presidio. Peaches continue bloom across southern half. Buds swelling to warm temperatures.

Ranges greened to warm, sunny weather. However, grazing short most areas, heavy supplemental feeding continues. Hay supplies eastern half very short. Cattle condition improved with better weather, herds on plains good condition, but other areas fair. Higher death losses continued along waterlogged coast.

UTAH: First moisture since 1st reported 21st. Amounts ranged from light to moderate. Moisture sufficient to reduce stress on ranges and dry land wheat, but far from sufficient to relieve severe drought conditions. Average temperatures 3 to 15° above normal.

Care and feeding of livestock major activities. Some preparation of machinery for spring fieldwork. Some marketing of dry onions, potatoes, and apples continue but near completion. Farm

flock lambing in progress. Few early calves on ground.

VIRGINIA: Temperatures 2 or 3° below normal. Extremes: 5 and 61°. Light precipitation averaging less than 0.25 in. fell as snow in mountains, rain elsewhere.

Fieldwork: 1.5 days suitable. Topsoil moisture adequate to short. Feed and care of livestock main activity. Winter grain, grazing crops poor condition. Cattle becoming thin, receiving very little forage from grazing. Only source of hay in some localities outside State. Lime, fertilizer, manure spread in east and southeast. Farmers pruning fruit trees, and repairing machinery and buildings. Tobacco plant bed preparation and plowing done on very limited scale.

WASHINGTON: West: Temperatures 8° above normal. Precipitation 0.60 in. subnormal.

Plowing, fertilizing fields. Pastures making some growth.

East: Temperatures from 2 to 4° above normal. Precipitation 0.30 in. below normal.

Pruning continues in orchards, vineyards. Subsoil moisture continues short. Wheat still in good physical condition. Some farmers intend to break rotation and summerfallow fields. Others preparing seedbeds for early seeding. Pasture prospects poor; cattlemen reducing stock to match forage. Operations modified to adapt to water shortage.

WEST VIRGINIA: Temperatures well below normal. Extremes: -7 and 51°. Precipitation above normal.

Fieldwork 2.6 days suitable. Soil moisture mostly adequate. Hay supply critically short. Livestock condition fair. Above normal losses of calves and lambs. Care of livestock and thawing water supplies main farm activities.

WISCONSIN: Week began generally clear and cold with overnight temperatures below zero. Cloud cover developed 16th and variable clouds prevailed until clearing on weekend. High temperatures in 20's until midweek, then 30's and low 40's. Some below zero temperatures on 20th when skies cleared. Precipitation continued very light, mostly in scattered snow flurries.

WYOMING: Above normal temperatures departing from 2 to 13°. Dry with precipitation departures well below normal from 0.03 to 0.50 in. Mountain snow pack below normal. Summer irrigation supplies may be tight some areas.

Winter wheat still good condition. Minimal wind damage. Chief farm and ranch activities: Stock feeding; some lambing and calving. Feed supplies adequate, to surplus. Water being halted to livestock isolated areas.

WATER SUPPLY OUTLOOK FOR THE WESTERN UNITED STATES
Issued as of February 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 Basin; and January 1 to June 30, 1977, for the Gila Basin. The publication "Water Supply Outlook for the Western United States" issued as of February 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	43,500	63
Columbia	The Dalles, OR	58,500	56
Snake	Lower Granite, WA	10,600	48
Sacramento	Red Bluff, CA	3,400	38
San Joaquin	Big Creek, CA	710	54
Weber	Gateway, UT	117	33
Jordan	Utah Lake, UT	257	68
Truckee	Lake Tahoe-Farad	140	40
Colorado	Lake Powell inflow	4,400	50
Green	Green River, UT	1,710	49
San Juan	Bluff, UT	592	50
Little Colo.	Woodruff, AZ	4.8	56
Gila	Solomon, AZ	45	33
Rio Grande	San Marcial, NM	253	56
Arkansas	Pueblo, CO	190	49
Missouri	Ft. Peck, MT	2,490	52
Yellowstone	Sidney, MT	4,460	64
North Platte	Glendo, WY	448	54

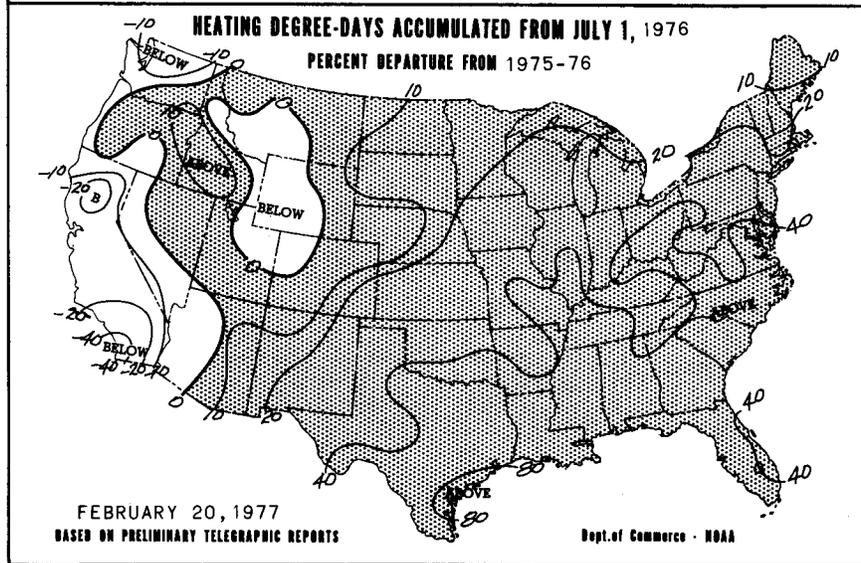
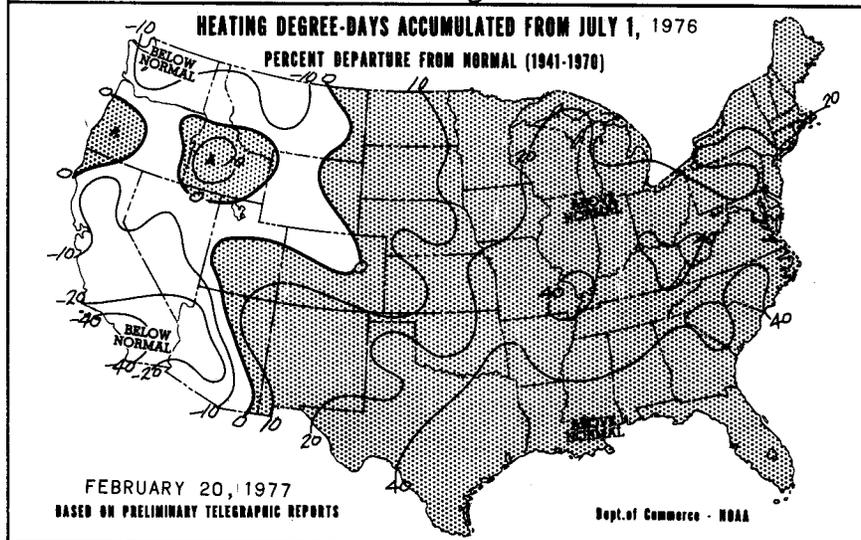
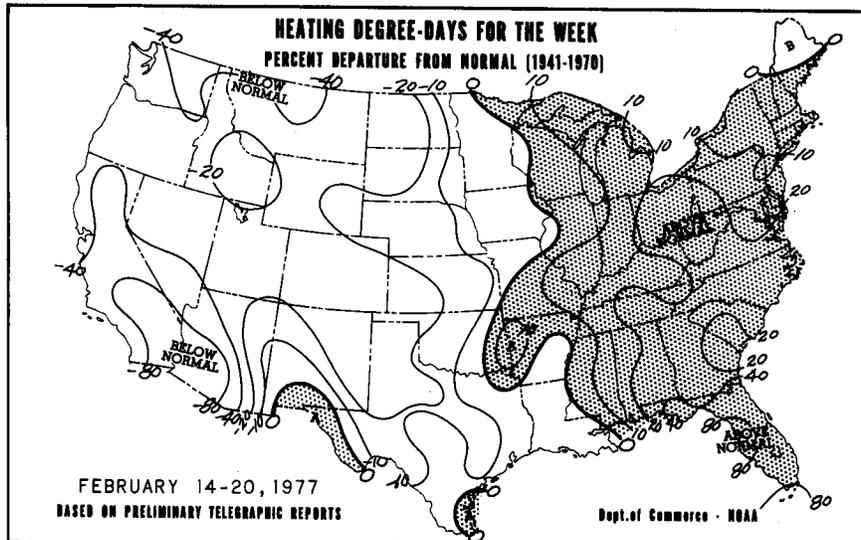
Office of Hydrology
National Weather Service

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING FEB. 20, 1977.

STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +		STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +		STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +		
	TOTAL	DEPARTURE*	TOTAL	DEPARTURE*		TOTAL	DEPARTURE*	TOTAL	DEPARTURE*		TOTAL	DEPARTURE*	TOTAL	DEPARTURE*	
ALA. BIRMINGHAM.....	15	26	309	937	MAINE CARIBOU.....	34	17	7139	679	450	OKLA. OKLAHOMA CITY.....	139	24	3303	530
MOBILE.....	15	26	217	948	PORTLAND.....	20	26	5811	818	831	TULSA.....	149	14	3464	691
MONTGOMERY.....	13	26	268	909	MD. BALTIMORE.....	23	21	4123	760	1144	OREG. ASTORIA.....	114	33	3020	303
ARIZ. FLAGSTAFF.....	149	89	4378	353	MASS. BOSTON.....	26	18	4326	539	871	BURNS.....	112	41	2609	219
PHOENIX.....	17	0	1833	400	MICH. ALPENA.....	48	22	6170	5659	11754	MEDFORD.....	119	19	1461	123
TUCSON.....	17	0	1203	137	DETROIT.....	40	22	4494	494	1166	PORTLAND.....	127	11	2758	157
WINSLON.....	15	0	670	407	FLINT.....	40	22	4494	494	1166	SALEM.....	111	18	2220	34
YUMA.....	16	0	970	162	GRAND RAPIDS.....	40	22	4494	494	1166	PA. ALLENTOWN.....	118	18	2220	34
ARK. FORT SMITH.....	17	27	3572	1015	HOUGHTON LAKE.....	40	22	4494	494	1166	ERIE.....	118	18	2220	34
LITTLE ROCK.....	14	6	3183	861	MARQUETTE.....	40	22	4494	494	1166	HARTISBURG.....	118	18	2220	34
CALIF. BAKERSFIELD.....	4	21	1349	320	MUSKOGEE.....	40	22	4494	494	1166	PHILADELPHIA.....	118	18	2220	34
EUREKA.....	4	21	1349	320	S. STE. MARIE.....	40	22	4494	494	1166	PITTSBURGH.....	118	18	2220	34
FRESNO.....	4	21	1349	320	MINN. DULUTH.....	36	6	7475	876	876	SCRANTON.....	118	18	2220	34
LOS ANGELES.....	4	21	1349	320	INTERNATL FALLS.....	12	12	8127	826	969	R. I. PROVIDENCE.....	26	19	4866	863
RED BLUFF.....	4	21	1349	320	MINNEAPOLIS.....	12	12	8127	826	969	S. C. CHARLESTON.....	13	23	2373	711
SAN DIEGO.....	4	21	1349	320	ROCHESTER.....	12	12	8127	826	969	COLUMBIA.....	13	23	2373	711
SAN FRANCISCO.....	4	21	1349	320	ST. CLOUD.....	12	12	8127	826	969	GREENVILLE.....	13	23	2373	711
STOCKTON.....	4	21	1349	320	MISS. JACKSON.....	11	3	2657	865	925	S. DAK. ABERDEEN.....	10	55	6383	330
COLO. DENVER.....	17	14	3973	197	MO. COLUMBIA.....	11	3	2657	865	925	HURON.....	10	55	6383	330
GRAND JUNCTION.....	17	14	3973	197	KANSAS CITY.....	11	3	2657	865	925	RAPID CITY.....	10	55	6383	330
PUEBLO.....	17	14	3973	197	ST. LOUIS.....	11	3	2657	865	925	ST. LOUIS FALLS.....	10	55	6383	330
CONN. BRIDGEPORT.....	25	14	4267	654	SPRINGFIELD.....	11	3	2657	865	925	TENN. CHATTANOOGA.....	32	35	3548	907
HARTFORD.....	28	17	4917	536	MONT. BILLINGS.....	16	9	4634	261	29	KNOXVILLE.....	32	35	3548	907
DEL. WILMINGTON.....	24	27	4224	756	GLASGOW.....	16	9	4634	261	29	MEMPHIS.....	32	35	3548	907
D.C. WASHINGTON.....	22	30	3754	705	GREAT FALLS.....	16	9	4634	261	29	NASHVILLE.....	32	35	3548	907
FLA. APALACHICOLA.....	10	31	1783	701	HAVRE.....	16	9	4634	261	29	TEXAS ABILENE.....	16	48	2797	779
DAYTONA BEACH.....	10	31	1783	701	HELENA.....	16	9	4634	261	29	AMARILLO.....	16	48	2797	779
FORT MEADE.....	10	31	1783	701	KALISPELL.....	16	9	4634	261	29	ARLINGTON.....	16	48	2797	779
JACKSONVILLE.....	10	31	1783	701	MISSOULA.....	16	9	4634	261	29	BEAUMONT.....	16	48	2797	779
KEY WEST.....	10	31	1783	701	NEBR. GRAND ISLAND.....	22	4	4878	336	516	BROWNSVILLE.....	16	48	2797	779
LAKELAND.....	10	31	1783	701	LINCOLN.....	22	4	4878	336	516	CORPUS CHRISTI.....	16	48	2797	779
MIAMI.....	10	31	1783	701	NORTH PLATTE.....	22	4	4878	336	516	DEL RIO.....	16	48	2797	779
ORLANDO.....	10	31	1783	701	VALLENTINE.....	22	4	4878	336	516	EL PASO.....	16	48	2797	779
TALLAHASSEE.....	10	31	1783	701	NEV. ELY.....	18	8	5052	58	84	FORT WORTH.....	16	48	2797	779
TAMPA.....	10	31	1783	701	LAS VEGAS.....	18	8	5052	58	84	GALVESTON.....	16	48	2797	779
WEST PALM BEACH.....	10	31	1783	701	RENO.....	18	8	5052	58	84	LUBBOCK.....	16	48	2797	779
GA. ATLANTA.....	17	33	3329	926	MINNEAPOLIS.....	18	8	5052	58	84	MIDLAND.....	16	48	2797	779
AUGUSTA.....	17	33	3329	926	SAVANNAH.....	18	8	5052	58	84	SAN ANGELO.....	16	48	2797	779
MARIETTA.....	17	33	3329	926	IDAHO. BOISE.....	15	4	4471	427	492	SAN ANTONIO.....	16	48	2797	779
SAVANNAH.....	17	33	3329	926	LEWISTON.....	15	4	4471	427	492	VICTORIA.....	16	48	2797	779
IDAHO. BOISE.....	15	4	4471	427	POCATELLO.....	15	4	4471	427	492	UTAH. SALT LAKE CITY.....	15	4	4471	427
LEWISTON.....	15	4	4471	427	ILL. CAIRO.....	12	25	1458	1458	1958	BURLINGTON.....	32	42	6034	925
POCATELLO.....	15	4	4471	427	CHICAGO.....	12	25	1458	1458	1958	J. LYNCHBURG.....	32	42	6034	925
UTAH. SALT LAKE CITY.....	15	4	4471	427	MONT. TRENTON.....	12	25	1458	1458	1958	NORFOLK.....	32	42	6034	925
VT. BURLINGTON.....	32	42	6034	925	N. MEX. ALBUQUERQUE.....	41	30	3494	523	417	RICHMOND.....	32	42	6034	925
VA. LYNCHBURG.....	32	42	6034	925	ROSELLE.....	41	30	3494	523	417	ROANOKE.....	32	42	6034	925
NORFOLK.....	32	42	6034	925	N.Y. ALBANY.....	30	11	5529	763	966	WASH. QUILLAYUTE.....	33	38	3446	307
RICHMOND.....	32	42	6034	925	BINGHAMTON.....	30	11	5529	763	966	SEATTLE-TACOMA.....	101	11	2711	680
ROANOKE.....	32	42	6034	925	BUFFALO.....	30	11	5529	763	966	SPOKANE.....	101	11	2711	680
WASH. QUILLAYUTE.....	33	38	3446	307	NEW YORK.....	30	11	5529	763	966	HALLA HALLA.....	101	11	2711	680
SEATTLE-TACOMA.....	101	11	2711	680	ROCHESTER.....	30	11	5529	763	966	VARINA.....	101	11	2711	680
SPOKANE.....	101	11	2711	680	SYRACUSE.....	30	11	5529	763	966	W. VA. BECKLEY.....	28	58	5169	1243
HALLA HALLA.....	101	11	2711	680	N.C. ASHEVILLE.....	21	5	4027	969	1030	CHARLESTON.....	28	58	5169	1243
VARINA.....	101	11	2711	680	CHARLOTTE.....	21	5	4027	969	1030	HUNTINGTON.....	28	58	5169	1243
W. VA. BECKLEY.....	28	58	5169	1243	GREENSBORO.....	21	5	4027	969	1030	PARKERSBURG.....	28	58	5169	1243
CHARLESTON.....	28	58	5169	1243	HATTERAS.....	21	5	4027	969	1030	WIS. GREEN BAY.....	33	11	6780	1231
HUNTINGTON.....	28	58	5169	1243	RALEIGH.....	21	5	4027	969	1030	LACROSSE.....	33	11	6780	1231
PARKERSBURG.....	28	58	5169	1243	WILLIAMSTON.....	21	5	4027	969	1030	MADISON.....	33	11	6780	1231
WIS. GREEN BAY.....	33	11	6780	1231	N. DAK. BISHARCK.....	27	4	6567	249	832	MILWAUKEE.....	33	11	6780	1231
LACROSSE.....	33	11	6780	1231	FARGO.....	27	4	6567	249	832	WYO. CASPER.....	22	40	4916	89
MADISON.....	33	11	6780	1231	WILLISTON.....	27	4	6567	249	832	CHEYENNE.....	22	40	4916	89
MILWAUKEE.....	33	11	6780	1231	OHIO. AKRON-CANTON.....	30	7	7208	220	1148	LANDER.....	22	40	4916	89
WYO. CASPER.....	22	40	4916	89	CINCINNATI.....	30	7	7208	220	1148	SHERIDAN.....	22	40	4916	89
CHEYENNE.....	22	40	4916	89	CLEVELAND.....	30	7	7208	220	1148	STATEN ISLAND.....	22	40	4916	89
LANDER.....	22	40	4916	89	COLUMBUS.....	30	7	7208	220	1148	WATERBURY.....	22	40	4916	89
SHERIDAN.....	22	40	4916	89	DAYTON.....	30	7	7208	220	1148	WINDY HILL.....	22	40	4916	89
STATEN ISLAND.....	22	40	4916	89	TOLEDO.....	30	7	7208	220	1148	WINDY HILL.....	22	40	4916	89
WATERBURY.....	22	40	4916	89											
WINDY HILL.....	22	40	4916	89											

* BASED ON 1941-70 NORMALS.

+ ACCUMULATION FROM JULY 1, 1976.





FIRST CLASS MAIL

World Agricultural Weather Summary

(February 15-21, 1977)

NORTH AMERICA. Warm spells have helped to relax the icy grip of winter on the United States east of the Rocky Mountains, although interspersed with cold air and well below normal temperatures. Abnormal demands for livestock feed have taxed feed supplies in many areas. There has been some improvement in the moisture situation in the southern Great Plains--although a significant moisture deficit still exists--where winter wheat is coming out of dormancy. In the northern regions, however, dust has been blowing in the dry wheat fields of northern Kansas, Nebraska and South Dakota. There has been no significant improvement in the moisture deficit in the Corn belt. Some rain has fallen on the Pacific coastal states, but much more is needed to make any significant impact on the severe drought in those areas.

EUROPE. Western Europe continues to be mild and wet. In fact, some flooding has been reported in France--a far cry from the severe drought of last summer. Mild temperatures also prevail in Eastern Europe; precipitation, however, has been less than normal in the northern half of the region, including Hungary. The moisture deficit in Greece has been improved somewhat by fairly widespread rains. Coastal areas of the western Mediterranean were generally sunny and dry. Scattered light precipitation fell in Algeria and Tunisia, but winter grains and pastures in Morocco continued to flourish under generous rains.

USSR. Relatively mild temperatures accompanied by good precipitation characterize the general situation in the winter grain areas of European USSR. Very low temperatures were reported for several stations in the Central Black Soil Zone at the beginning of the reporting period, but winter grains were well protected by deep snow cover. There were no threatening temperatures in areas where there is only light or no snow cover. In the southern Ukraine and in Moldavia, the mild temperatures have brought fruit trees

out of dormancy in some areas leaving them vulnerable to frost.

ASIA. Widespread shower activity affected almost all of Australia during the past week. Heaviest precipitation was in the northeast quadrant of the country, but up to a half inch of rainfall was recorded in parts of southwestern Australia where rainfall has been well below normal since early December. Surges of cold air continue to plague southern China to the detriment of winter crops. Below freezing temperatures were recorded as far south as Shao-Wu in northwestern Fukien province; Fu Chou, the provincial capital recorded only +1 degree Celsius on February 16, about 8 degrees below normal. Communes in Kwantung, China's southern-most province, have had to take measures to protect rice seed beds from the cold weather. Precipitation has been generally light except in Szechwan which received up to a half inch of rain. Northeastern China remains seasonally dry with well below normal temperatures. In India, showers were recorded in the extreme south, northeast and in the western part of Madhya Pradesh. However, no precipitation fell on the northern wheat growing regions.

AFRICA. Incomplete data for South Africa indicates that at least a large portion of the maize triangle was affected by shower activity which should insure a continuation of good growing conditions in this important region.

SOUTH AMERICA. Heavy showers and thunderstorms struck the heart of the Corn Belt in Argentina with many stations reporting well above normal precipitation. Some localized flooding may have occurred as well as some damage to crops. In Brazil, however, precipitation in general was below normal for the reporting period with only light, scattered showers in most areas. Exceptions were the extreme south and the western portion of the southeastern states.