

WEEKLY WEATHER AND CROP BULLETIN

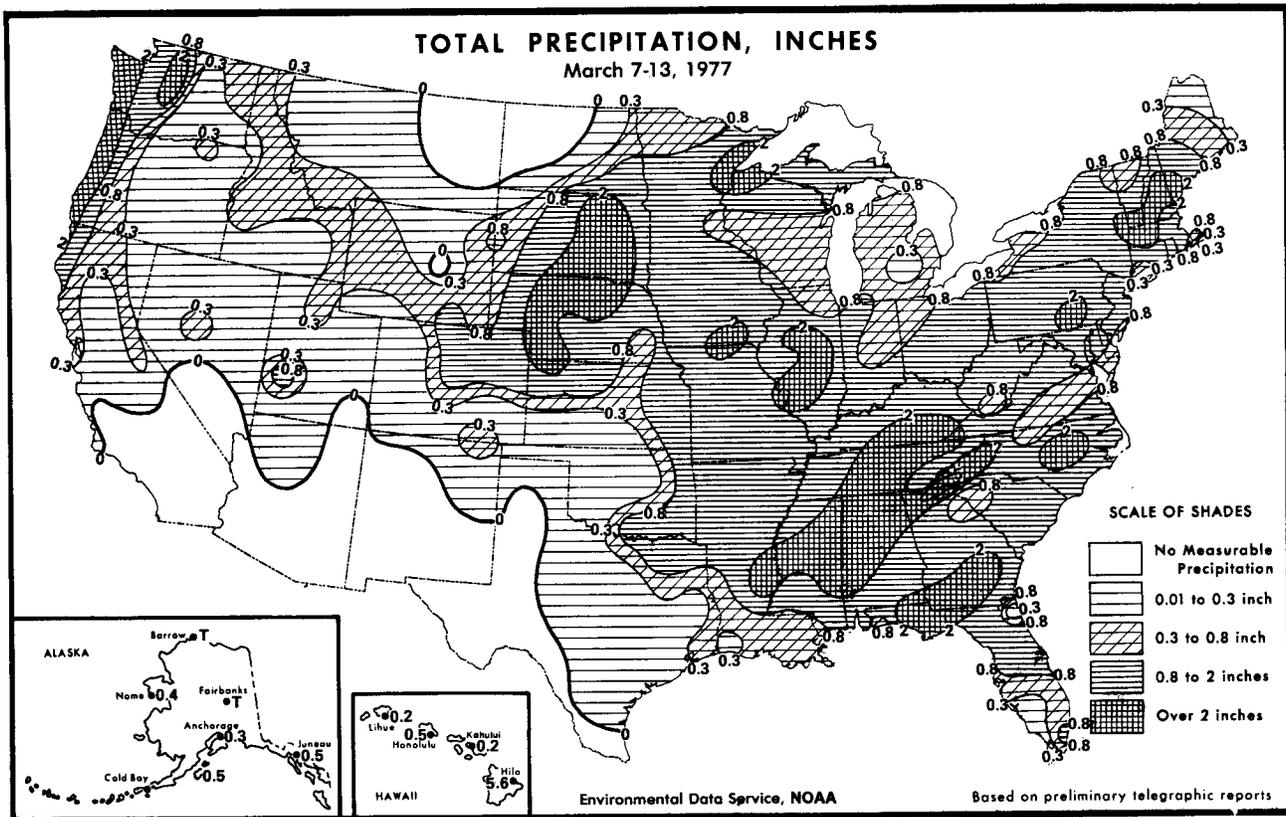
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National Weather Summary

For the week of March 7-13, 1977

HIGHLIGHTS: A combination of winter and spring weather was displayed during the week. The average temperatures for the week were much above normal over most of the Nation. The greatest departure from normal was in the Great Lakes area where average temperatures were 18 to 20° above normal. The South Coast area and the far West averaged near normal. A low pressure center deepened in Kansas and caused blizzard conditions from the central Plains northward and dust storms in the southern Plains. Heavy rain or snow covered the drought stricken areas of the Plains from Nebraska through South Dakota. Heavy rain with thunderstorms and some tornadoes spread eastward all the way to the Atlantic.

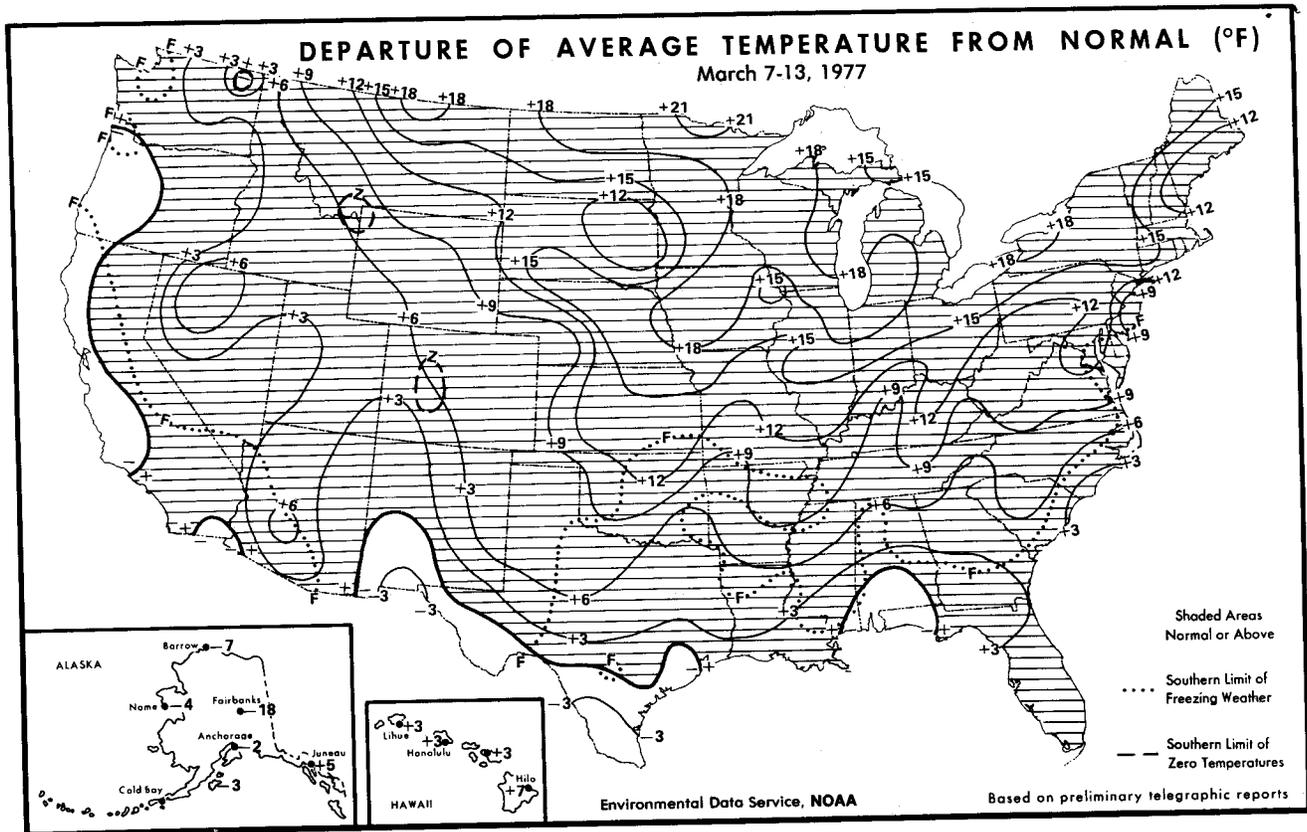
A Pacific storm was located off the Washington Coast on Monday and was spreading rain across much of the Pacific Northwest into the northern Rockies and northern California. Snow was scattered through the higher elevations. Rainshowers and occasional

snow flurries continued over New England.

Temperatures soared into the 60's and 70's across much of the Nation's midsection Monday afternoon setting several new maximum temperature records. Hays, Kan. reached 75° and Waterloo, Iowa climbed to 58°. Temperatures were in the 40's in the Great Lakes region, the northern Appalachians and the North Atlantic Coast States.

Rain and showers persisted in the Northwest on Tuesday but began to diminish during the day. The light showers spread eastward across the northern States to the Great Lakes. With the precipitation, cooler air accompanied by strong westerly winds was spreading eastward through the Dakotas late Tuesday. Rapid City, S.D. reported gusts to 64 mph. The dry area of the northern Plains, lacking snow cover, was vulnerable to wind erosion.

The cooler air from the west was gradually replacing the very warm air east of the Rockies but dozens of high temperature records were reported Tuesday afternoon. Des Moines, Iowa had a high of



78°. Temperatures averaged nearly 20° warmer than normal in many areas.

Another storm was poised off the coast of the Pacific Northwest Wednesday morning and the rain with snow at higher elevations began to increase. First along the coast and then inland. Before the day was over significant precipitation had fallen as far south as the San Joaquin Valley in California and eastward to Montana and Colorado. Strong winds accompanied the storm as it moved into the Rockies. Blowing dust and wind gusts to 55 mph were reported in Arizona.

The cooler air invading the Plains moved to Minnesota and to eastern Kansas. Temperatures behind the cool front moderated but the record warm temperatures continued east of the front.

Significant amounts of snow had accumulated in the mountains of Washington Thursday and snow and blowing snow continued. A very high avalanche hazard existed for the Mt. Baker, Washington area. The storm center had moved to western Kansas by late Thursday and was deepening rapidly. Blizzard conditions whipped northeast Colorado, southeast Wyoming and western Nebraska. Strong winds were raising clouds of dust from southeast Colorado and western Kansas into northern Texas. Showers and heavy thunderstorms were developing ahead of the storm. Tornado activity continued well into the night from northeastern Colorado to northeast Texas.

The vicious winter storm continued, deepening, in the central Plains on Friday. Blizzard to near blizzard conditions existed over much of the Plains from South Dakota to Colorado and Kansas and high wind with blowing dust plagued the area from western Kansas to west Texas and parts of New Mexico.

A variety of winter and spring weather was

featured in the Nation on Friday. Substantial amounts of precipitation fell in portions of the drought stricken areas of the north and central Plains. Thunderstorms and tornadoes ripped the southern half of the Mississippi Valley and record breaking high temperatures continued from the Great Lakes through the Northeast. Another frontal system was entering the Nation via the Northwest spreading more rain into Washington.

The severe storm had moved into Minnesota by late Saturday. Blizzard condition continued most of the day over much of the mid-central and northern Plains while blowing dust continued in the western portion of the southern Plains. Rain, heavy in places, thunderstorms and tornadoes were reported east of the storm from the Great Lakes to the Gulf of Mexico and spread to the eastern Ohio Valley and the Appalachians. Again record breaking high temperatures were reported from Wisconsin into New England. The storm in the West had spread rain and snow into Montana and rain to the northern two-thirds of California.

The intense low pressure system was weakening in Wisconsin of Sunday but rain and severe weather spread eastward to the entire Atlantic Coast from New England to Florida. Late Sunday the rain and thunderstorms diminished in the South but continued in the northern Appalachians and North Atlantic Coast States. Flash floods occurred in some areas due to the combination of melting snow and heavy rain.

In the West a low pressure center in Montana was spreading snow along the eastern slopes of the northern Rockies and scattered rainshowers were reported from southeast Oregon to the coast of northern California.

National Agricultural Summary

For the week of March 7-13

HIGHLIGHTS: Significant precipitation fell over most of the Grain-Belt, limiting spring farm activities last week. Moisture received in the spring snowstorm hitting Colorado, Wyoming, Nebraska, South Dakota and Kansas was of questionable value as high winds blew much of the snow off the winter wheat fields. However, the overall moisture conditions for those States was improved. Crops in Washington, Oregon and the northern half of California also received limited amounts of needed moisture. The moisture along with above normal temperatures caused the winter wheat crop to show growth and further greening throughout the winter wheat areas. Corn, sorghum and cotton plantings were underway in southern States. Tobacco bed preparation and seeding were prominent throughout the South Atlantic and eastern South Central States.

SMALL GRAINS: The winter wheat crop responded to wet and much warmer weather in most wheat growing areas. From the Southeast to many areas in Midwest, farmers were beginning to apply top-dressing before rains arrived the past week. Wheat was greening as far north as Montana and was generally in fair condition throughout the nation with some areas improving to good.

As the midweek storm moved across Kansas, most areas received much needed moisture with the exception of southwest and south central counties. There was some wind damage to wheat in western counties. The crop was greening up throughout the State. Oklahoma wheat remained in fair to good condition. High winds later in the week caused some wheat loss in the Panhandle. Greenbug problems were reported in Southwest counties. Wheat on the Plains of Texas suffered some damage from high winds and blowing sand. Greenbugs continued to build up on the Plains, on Edwards Plateau and in the North. Spraying had become common on the Low Plains and Cross-Timbers areas. Most wheat was making new growth, but the western half of Texas needed moisture. Montana's winter wheat was greening in most areas and in fair condition. There was moisture relief for Nebraska wheat, although high winds blew much of the snow off fields in the western counties. Washington and California dryland wheat also received needed moisture. In other North Central States and in the South Atlantic, winter wheat was greening and showing improvement.

OTHER CROPS: Corn planting made marked strides in South Atlantic States and South Central States and was also beginning in California. Texas corn acreage jumped 3 points and was 4% complete by week's end while Mississippi corn plantings reached 7% completion. Corn planting was very active in Florida but slowed by wet weather in Georgia.

Sorghum planting was still far behind last year's pace in Texas but moved up to 8% completed. Most sorghum acreage pre-planting operations were completed by week's end in Texas.

Cotton planting became more active the past week with planting taking place in Texas, Arizona and California. Texas plantings reached 1% complete, but still 3 points off the 4% three-year average. Early fields in the Lower Rio Grande Valley were up to stands.

Planting of Irish potatoes continued throughout Texas while 40% of the acreage was planted in Mississippi and 25% in North Carolina. Potato planting began in Oregon and Virginia.

Sugarcane growth was again beginning in Louisiana. Harvest was virtually complete in Florida. Sugarbeets were in excellent condition in Arizona. Sugarbeet field preparation was progressing in California.

Tobacco beds were 28% planted in Tennessee with stripping behind schedule. Tobacco bed preparation and seeding was continuing in Kentucky. Tobacco plant beds were fair in Georgia and were in fair to good condition in North and South Carolina. Beds were being prepared and seeded in Maryland, Indiana and Virginia. Stripping was near completion in Kentucky and markets were still open but sales volume was light.

Ohio maple sirup harvest began in earnest this past week.

FRUITS AND NUTS: Fruit tree pruning was especially active in Delaware, Maryland, Virginia and Utah. Peaches were reaching full bloom in Oklahoma and the High Plains of Texas with blooms opening in South Carolina and peach buds swelling in Arkansas.

In Florida, citrus trees were in good condition with new growth abundant and bloom buds setting on. The orange harvest was slowing while grapefruit remained active. Arizona fruit growers were harvesting grapefruit and Valencia oranges. Grapes and deciduous fruit trees were leafing out. In California the Fuerte avocado harvest was in full swing as well as the citrus harvest. Utah apricot and plums were already past the bloom stage. Eastern Washington fruit growers were hoping for enough water to at least keep their trees alive.

In Texas buds on pecan trees were swelling in eastern and southern counties.

VEGETABLES: Overall vegetable shipments in Florida increased 17%. Cabbage showed the sharpest increase with lesser increases in celery, chinese cabbage, escarole-endive, strawberries, lettuce and potatoes. Tomato shipments declined. Texas growers were actively planting cantaloup, honeydew and watermelon. Onion and cabbage planting also continued. Carrots were doing well with harvest progressing in some areas. In California artichoke, carrot, celery, lettuce and strawberry volumes were increasing. Cabbage volume was light while planting tomatoes for processing continued.

RANGE AND LIVESTOCK: Pastures remained in poor to fair condition nationwide. In South Atlantic States feed supplies were short with some grazing improvement in Florida. Pastures were greening in the South Central States and grazing was moderately improved. Calving and lambing continued to make good progress because of the open weather in most areas. Cattle were in poor to fair condition in southern areas while maintaining fair to good condition looking at northern and western regions. Some stress was placed on cattle in the Colorado, Kansas and Nebraska storm areas at midweek.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., March 13, 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 . . .	55	+ 4	2.2	+ .7	LA. Baton Rouge . . .	60	+ 2	.7	- .5	Youngstown . . .	48	+15	1.2	+ .5
Mobile . . .	57	1	1.2	- .4	Lake Charles . . .	59	0	.1	- .8	OKLA. Okla. City . . .	56	+10	.3	- .1
Montgomery . . .	54	1	1.7	+ .3	New Orleans . . .	60	+ 1	.4	- .9	Tulsa . . .	58	+12	1.1	- .4
ALASKA Anchorage . . .	19	- 2	.3	+ .2	Shreveport . . .	59	+ 4	.3	- .6	OREG. Astoria . . .	44	0	3.9	+2.3
Barrow . . .	-24	- 7	T	0	MAINE Caribou . . .	37	+16	T	- .5	Burns . . .	35	0	T	- .2
Fairbanks . . .	-12	- 7	T	- .1	Portland . . .	39	+ 9	2.0	+1.2	Medford . . .	43	- 2	.5	+ .1
Juneau . . .	36	+ 3	.5	- .3	MD. Baltimore . . .	53	+12	1.8	+1.0	Pendleton . . .	44	+ 1	.4	+ .2
Kodlak . . .	28	+ 1	.4	+ .4	MASS. Boston . . .	49	+13	1.2	+ .3	Portland . . .	44	- 1	1.7	+ .8
Nome . . .	2	+ 3	.5	+ .2	Chatham . . .	42	-	.3	-	Salem . . .	43	- 2	1.9	+ .8
ARIZ. Flagstaff . . .	36	+ 3	.1	- .3	MICH. Alpena . . .	41	+17	.7	+ .3	PA. Allentown . . .	49	+13	1.3	+ .5
Phoenix . . .	64	+ 6	0	- .2	Detroit . . .	49	+16	.5	- .0	Erie . . .	48	+17	.8	+ .2
Tucson . . .	59	+ 3	0	- .1	Flint . . .	47	+17	.3	- .1	Harrisburg . . .	50	+11	2.0	+1.3
Winslow . . .	44	+ 1	T	- .1	Grand Rapids . . .	49	+18	.5	0	Philadelphia . . .	52	+12	1.0	+ .2
Yuma . . .	62	+ 1	T	- .1	Houghton Lake . . .	41	+17	.4	0	Pittsburgh . . .	47	+11	1.0	+ .2
ARK. Fort Smith . . .	54	+ 6	1.2	+ .4	Lansing . . .	51	+21	.3	- .2	Scranton . . .	46	+12	1.6	+1.0
Little Rock . . .	57	+ 9	.9	- .2	Marquette . . .	42	+17	1.5	+1.1	R.I. Providence . . .	58	+ 3	1.7	+ .6
CALIF. Bakersfield . . .	55	- 1	0	- .2	Muskegon . . .	46	+16	.6	+ .1	S.C. Charleston . . .	59	+ 7	1.4	+ .3
Eureka . . .	46	- 2	1.7	+ .5	S. Ste. Marie . . .	34	+13	2.2	+ .8	Columbia . . .	53	+ 4	.5	- .7
Fresno . . .	53	0	.1	- .3	MINN. Duluth . . .	39	+18	2.5	+2.1	Greenville . . .	53	+ 4	.5	- .7
Los Angeles . . .	60	+ 1	0	- .5	Internatl Falls . . .	38	+21	.4	+ .2	S.D. Aberdeen . . .	34	+10	2.2	+2.0
Red Bluff . . .	52	0	.1	- .5	Minneapolis . . .	41	+16	.6	+ .2	Huron . . .	34	+ 8	3.3	+3.1
San Diego . . .	59	+ 1	0	- .4	Rochester . . .	45	+20	.8	+ .4	Rapid City . . .	43	+14	.7	+ .5
San Francisco . . .	51	- 2	.3	- .3	St. Cloud . . .	39	+16	1.5	+1.2	Sioux Falls . . .	38	+11	1.3	+1.0
Stockton . . .	53	+ 1	2	- .3	MISS. Jackson . . .	55	+ 5	1.4	+ .1	TENN. Chattanooga . . .	56	+ 8	1.3	+ .2
COLO. Denver . . .	43	+ 8	1.1	+ .9	Meridian . . .	59	+ 1	3.3	+1.9	Knoxville . . .	56	+ 8	1.3	+ .2
Grand Junction . . .	43	+ 4	T	- .1	MO. Columbia . . .	51	+12	1.0	+ .5	Memphis . . .	59	+10	1.1	+ .2
Pueblo . . .	46	+ 8	T	- .1	Kansas City . . .	54	+15	1.1	+ .6	Nashville . . .	54	+ 7	2.4	+1.2
CONN. Bridgeport . . .	50	+14	.7	- .1	St. Louis . . .	54	+13	2.5	+1.9	TEX. Abilene . . .	60	+ 8	.1	- .1
Hartford . . .	49	+16	1.8	+1.0	Springfield . . .	51	+ 9	1.1	+ .5	Amarillo . . .	51	+ 7	T	- .1
D.C. Washington . . .	56	+13	.9	+ .1	MONT. Billings . . .	42	+11	T	- .2	Austin . . .	59	+ 1	T	- .4
FLA. Apalachicola . . .	59	0	1.9	+ .8	Glasgow . . .	38	+16	T	- .1	Beaumont . . .	61	+ 3	.3	- .4
Daytona Beach . . .	68	+ 5	1.4	+ .6	Great Falls . . .	40	+11	.2	0	Brownsville . . .	62	- 4	T	- .1
Ft. Myers . . .	71	+ 3	.1	- .6	Havre . . .	41	+18	T	- .1	Corpus Christi . . .	61	- 2	T	- .2
Jacksonville . . .	62	+ 2	.2	- .6	Helena . . .	37	+ 8	.2	+ .1	Dallas . . .	60	- 1	0	- .1
Key West . . .	77	+ 3	.1	- .3	Kalispell . . .	38	+ 9	.1	- .1	Del Rio . . .	49	- 4	0	- .1
Lakeland . . .	69	+ 4	.6	- .3	Miles City . . .	40	+12	T	- .1	El Paso . . .	57	+ 4	.2	- .3
Miami . . .	75	+ 5	.9	+ .5	Missoula . . .	38	+ 7	.2	+ .1	Fort Worth . . .	60	0	.3	- .3
Orlando . . .	69	+ 4	1.8	+1.0	NEBR. Grand Island . . .	48	+15	.8	+ .6	Galveston . . .	60	0	.2	- .4
Tallahassee . . .	61	+ 2	2.6	+1.2	Lincoln . . .	49	+15	.6	+ .3	Houston . . .	57	- 2	.2	- .4
Tampa . . .	70	+ 5	.5	- .4	Norfolk . . .	47	+17	1.3	+1.0	Lubbock . . .	54	+ 7	0	- .1
W. Palm Beach . . .	53	+ 4	.8	- .5	N. Platte . . .	40	+ 8	1.7	+1.5	Midland . . .	56	+ 4	0	- .2
GA. Atlanta . . .	58	+ 5	1.8	+ .7	Omaha . . .	52	+20	1.4	+1.1	San Angelo . . .	59	+ 4	.1	- .1
Augusta . . .	58	+ 3	1.0	- .2	Valentine . . .	38	+19	2.1	+2.0	San Antonio . . .	59	0	T	- .3
Macon . . .	60	+ 4	.8	+ .2	NEV. Ely . . .	31	0	.1	- .1	Victoria . . .	61	0	T	- .4
Savannah . . .	58	+ 7	.8	+2.5	Las Vegas . . .	55	+ 2	0	- .1	Waco . . .	60	+ 5	.1	- .4
HAWAII. Hilo . . .	78	+ 3	5.6	- .3	Reno . . .	40	+ 1	.1	- .1	Wichita Falls . . .	58	+ 8	.3	0
Honolulu . . .	76	+ 3	.2	- .5	Winnemucca . . .	45	+ 9	.2	0	UTAH. Blanding . . .	39	+ 2	T	- .2
Kahului . . .	75	+ 3	.2	+ .2	N.H. Concord . . .	41	+11	1.7	+1.1	Salt Lake City . . .	41	+ 3	.3	- .1
Lihue . . .	75	+ 3	.2	+ .2	N.J. Atlantic City . . .	47	+ 8	.4	- .6	VT. Burlington . . .	43	+17	.6	+ .2
IDAHO. Boise . . .	42	+ 2	.4	- .1	Trenton . . .	46	+ 7	1.2	+ .3	VA. Lynchburg . . .	53	+10	.7	- .1
Lewiston . . .	42	+ 0	.1	- .1	N.MEX. Albuquerque . . .	45	+ 1	T	- .1	Norfolk . . .	55	+ 9	1.0	+ .2
Pocatello . . .	38	+ 4	.2	0	Roswell . . .	54	+ 7	0	- .1	Richmond . . .	55	+10	.6	- .2
ILL. Cairo . . .	56	+11	1.2	+ .1	N.Y. Albany . . .	47	+16	2.0	+1.4	Roanoke . . .	53	+10	1.3	+ .5
Chicago . . .	52	+18	.5	- .1	Binghamton . . .	47	+18	1.4	+ .8	WASH. Colville . . .	35	- 1	.5	+ .2
Moline . . .	50	+17	1.3	+ .8	Buffalo . . .	48	+18	.7	+ .1	Omak . . .	42	+ 5	.2	0
Peoria . . .	49	+14	2.4	+1.9	New York . . .	50	+11	1.1	+ .2	Quillayute . . .	42	0	3.6	+1.1
Rockford . . .	49	+18	.7	+ .2	Rochester . . .	48	+18	.8	+ .2	Seattle-Tacoma . . .	45	+ 1	1.4	+ .5
Springfield . . .	53	+16	1.7	+1.2	Syracuse . . .	48	+17	1.2	+ .5	Spokane . . .	39	+ 3	.6	+ .2
IND. Evansville . . .	54	+12	.8	- .3	N.C. Asheville . . .	49	+ 5	2.1	+1.0	Walla Walla . . .	45	+ 1	1.1	- .2
Ft. Wayne . . .	50	+16	.4	- .2	Charlotte . . .	55	+ 6	1.2	+ .1	Yakima . . .	42	+ 1	.1	0
Indianapolis . . .	52	+15	.5	- .3	Greensboro . . .	54	+ 8	.7	- .1	W.Va. Beckley . . .	48	+10	.7	- .3
South Bend . . .	52	+19	1.4	+ .8	Hatteras . . .	53	+ 4	1.7	+ .8	Charleston . . .	51	+ 9	1.2	+ .3
IOWA. Burlington . . .	49	+15	1.2	+ .7	Raleigh . . .	53	+ 6	2.1	+1.3	Huntington . . .	51	+ 9	1.2	+ .3
Des Moines . . .	51	+20	1.4	+ .9	Wilmington . . .	55	+ 2	1.7	+ .7	Parkersburg . . .	51	+10	.9	+ .1
Dubuque . . .	48	+19	1.1	+ .5	N.DAK. Bismarck . . .	39	+17	.1	0	WIS. Green Bay . . .	43	+17	.5	+ .2
Sioux City . . .	46	+16	1.5	+1.2	Fargo . . .	38	+17	.9	+ .8	La Crosse . . .	46	+18	.5	+ .1
KANS. Concordia . . .	52	+15	.5	+ .1	Williston . . .	38	+17	0	- .1	Madison . . .	47	+20	.3	- .1
Dodge City . . .	51	+12	.1	- .1	OHIO. Akron-Canton . . .	49	+15	1.1	+ .4	Milwaukee . . .	46	+17	.4	- .1
Goodland . . .	42	+ 8	1.3	+1.1	Cincinnati . . .	50	+11	1.1	+ .2	WYO. Casper . . .	37	+ 8	T	- .2
Topeka . . .	55	+16	1.2	+ .8	Cleveland . . .	50	+16	1.0	+ .4	Cheyenne . . .	38	+ 8	.7	+ .5
Wichita . . .	53	+12	.1	- .3	Columbus . . .	49	+12	1.5	+ .7	Lander . . .	35	+ 6	.4	+ .2
NY. Lexington . . .	54	+13	1.4	+ .3	Dayton . . .	50	+13	.9	+ .2	Sheridan . . .	39	+10	T	- .2
Louisville . . .	54	+ 8	1.2	+ .1	Toledo . . .	50	+17	.7	+ .1	P.R. San Juan . . .	78	+ 2	.3	- .2

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: Temperatures averaged 3° above normal. Heavy rains 11th, caused flooding north half. Fieldwork limited, feeding main activity. Small grains fair, improving. Livestock poor to fair. Pasture grazing increasing, but limited.

ARIZONA: Mostly dry, windy. Temperatures near normal.

Cotton activity accelerating. Small grains satisfactory progress. Safflower good growth. Sugarbeets excellent condition. Cutting alfalfa hay increasing. Lettuce harvest continued, Yuma, underway central areas. Cantaloup planting complete, thinning active. Mixed vegetable harvest active. Potatoes, dry onions satisfactory progress. Harvest grapefruit, valencia oranges active. Grapes, deciduous fruit leafing out. Ranges lower to mid-elevations poor to fair. Higher elevations areas, minimal grass growth. Water supplies short to adequate. Range cattle, calves generally fair to good.

ARKANSAS: Temperatures ranged 3 to 7° above normal. Extremes: 81° El Dorado and 24° Gilbert. Rain over State near week's end ranging from 0.02 in. Hot Springs and Texarkana to 1.91 in. Augusta.

Considerable land preparation Delta and Arkansas River Valley. Top dressing small grains continued, good growth reported. Pastures greened up, light grazing on fescue and ryegrass. Still heavy hay feeding most farms. Tomato acreage in Bradley County below last year. Peach buds swelling Marianna and Nashville areas. Some strawberry plants lost to drought. Little or no damage to potential crop from cold weather.

CALIFORNIA: Westward movement of Pacific high which had been centered off California coast most of winter allowed several weak storm systems to move through State bringing some precipitation to northern half and mountain areas. Greatest amounts of over 1.00 in. fell along northwest California coast. Temperatures generally remained near normal.

Fieldwork active for planting corn, rice, sugarbeets, cotton, safflower. First cutting alfalfa coming off. Some moisture relief dryland wheat, oats, barley. Irrigation continues where water available. Fuerte avocado harvest in full swing. Grapefruit, lemon, and navel orange harvest continues. Desert valencia orange harvest had begun. Artichoke, carrot, celery, lettuce, strawberry increasing. Cabbage light. Processing tomato planting continues. Rain scattered areas not enough improve water supplies. High winds dried State. Rangelands poor; pasture irrigated, wells going dry. Supplemental feeding, herd thinning, calving continues.

COLORADO: Fair and mild weather over State first of week. By 10th, late winter storm prompted blizzard warnings northeastern and east central plains. Blowing dust but little snow in southeastern Colorado, on plains. Akron and Colorado Springs 12 in., Denver 8 in., Limon 7 in. Dust and gusty winds 80 to 90 miles per hour reported. Clearing skies returned to west 11th, 12th. By 13th readings reached into 70's.

FLORIDA: Temperatures averaging near or slightly above normal. Moderate to heavy rainfall averaging from less than 0.25 in. Some areas to over 2.00 in. Panhandle.

Soil moisture mostly adequate, but a few wet areas central, north, and along western Gulf Coast. Corn planting well underway, early planting corn up. Sugarcane harvest nearing completion. Tobacco plants small, supply ample. Small grains good growth. Grazing conditions improving with increase in soil moisture, warmer temperatures. Clover small grains providing increased grazing Panhandle, north. Cattle, calves mostly poor to fair condition. Citrus tree condition good all areas. New growth abundant. Orange harvest slowing, grapefruit harvest active. Warm temperatures and showers beneficial to vegetable crops. Overall shipments increased 17%. Volume leader, cabbage, showed sharp increase. Vegetables showing increased movement included celery, chinese cabbage, escarole-endive, strawberries, lettuce, potatoes. Steady supplies carrots, radishes. Green pepper, tomato shipments declined. Very light harvest sweetcorn, cucumber, eggplant. Light volume snap beans and squash expected this week.

GEORGIA: Temperature 1 to 3° above normal, except near normal central. Warm beginning of week, cold 7th and 8th, below freezing north and central. Showers 5th, 6th, 7th and 11th. Amounts 1.50 in. to 3.00 in. Showers 12th.

Soil moisture adequate to mostly excessive. Very little fieldwork due to wet soil. Small grain fair to good condition. Topdressing complete southwest and east, 75% central, 45% north. Tobacco plants and pastures fair condition. Cattle poor to fair condition.

HAWAII: Cool and windy. Rains continue to fall most sections.

Sufficient moisture triggered flowering of coffee, Kona area, Hawaii. Some light damage pole beans, chinese cabbage, head lettuce exposed to strong winds. Vegetable supplies: Head cabbage moderate to heavy. Light for pole beans, green peppers. Others sufficient. Banana supplies declining seasonally. Papaya supplies light to moderate. Sugar harvest getting active. Pineapple harvesting light. Pastures: New grass growth evident in most areas and improving because of rains.

IDAHO: Temperatures normal or above. Maximum 64° Caldwell. Minimum 5° Idaho Falls and Aberdeen. Precipitation slightly above normal in north and southeast Idaho while the rest of State below normal. Precipitation maximum. 0.61 in. Moscow.

Some planting spring grains and other hardy crops. Fertilizer and spraying of weeds on limited basis. Calving and lambing heading to completion. Losses lower than normal. Feed supplies adequate. Moisture supplies about 30 to 35% of normal for State.

ILLINOIS: Temperatures: 8 to 15° above normal. Precipitation: Less than 1.00 in. northeast and southeast, more than 2.00 in. localized areas elsewhere.

Soil moisture mostly short. Winter wheat

and other small grains mostly fair. Legumes and livestock mostly fair to good. Main farm-work: Caring for livestock, hauling water and manure, some fertilizing, plowing, and oats seeding.

INDIANA: Temperatures averaged 15° above normal and ranged from 17° on 8th to 77° on 12th. Rainfall 1.30 in. southeast, 0.90 in. southeast, 0.50 in. central, 0.50 in. to 1.00 in. extreme north.

Soils thawing, but still mostly unworkable. Some tilling on light soils. Limited chopping stalks, spreading fertilizer and manure, hauling corn to elevators, topdressing wheat, seeding clover and grass, readying equipment, preparing tobacco beds, buying seed.

IOWA: Temperatures in the 40's and low 50's. Averaged 15 to 20° above normal. Precipitation totaled mostly between 1.00 and 2.50 in.

Precipitation eased threat of grass fires over State. Warm wet weather beneficial to fall-seeded crops and pasture regrowth. Adequate supplies of fertilizer and hay and roughages reported.

KANSAS: Moisture of 0.50 to 1.50 in. fell over much of east and north. Some intense weather including a blizzard extreme northwest. Blowing dust west and severe thunderstorms southeast. Temperatures unusually warm, ranging from 45° northwest to 56° northeast and from 11 to 17° above normal.

Extremely high winds in western portion caused wind erosion and some damage to wheat. Greatly needed moisture received, except in southwest and south central, will help wheat as it continues to green. Spring oats and barley seeding ahead of normal.

KENTUCKY: Mostly clear skies and mild temperatures. Average in low to mid-50's, about 10° above normal. Precipitation averaged 1.50 in. coming as rains and few thunderstorms late Friday and Saturday.

Farmers welcomed warm, clear days and accelerated activities including spring plowing, pasture renovation and fertilization, tobacco plant bed preparation and livestock chores. Tobacco stripping is nearing completion. Market still open but sales volume light.

LOUISIANA: Temperatures normal to 6° above. Extremes: 31° and 84°. Cold front with widespread rains 11th and 12th.

Land preparation progressing. Little corn or rice planted yet. Growth of sugarcane commencing. Small grains and pastures improving with warmer weather. Cattle condition poor to fair.

MARYLAND & DELAWARE: Temperatures averaged 9 to 12° above normal. Highs in 60's, lows in upper 30's. Precipitation light; western Maryland reported 0.25 to 0.50 in. Weekend warm. Showers Saturday night and Sunday.

Farmers preparing fields for spring planting. Much plowing and spreading lime, fertilizer, and manure. Tobacco plant bed preparation started. Orchard pruning nearing completion.

MICHIGAN: Unseasonably warm temperatures during week averaged 15 to 19° above normal Lower Peninsula and 8 to 17° above normal Upper Peninsula. Record daily highs were set. Precipitation relatively heavy after midweek, averaging 1.50 in. upper and extreme northern Lower Peninsula and

over 0.50 in. for Lower Peninsula. Warm temperatures melted most snow cover Lower Peninsula while 22 in. remain eastern Upper Peninsula and 14 in. remain western Upper Peninsula.

Many farm activities hampered by cold weather have resumed.

MINNESOTA: Temperatures ranged 12° above normal southwest to 20° above normal north and southeast. Extremes: 65 and 8°. Precipitation ranged 0.25 in. above normal extreme north and extreme southeast to more than 2.00 in. above normal southern portions of west central and northeast. Heavy rain over weekend totaled over 2.00 in. portions of southwest and west central, and east central into northeast. Snow depth at week's end: 1.00 to 4.00 in. north central and northeast.

MISSISSIPPI: Temperatures 2 to 5° subnormal. Extremes: 24 and 78°. Greatest weekly rainfall 4.39 in. at Winona.

Soil moisture surplus to adequate. Field-work: 1.7 days suitable. Acreage plowed 40%, 42% 1976, 27% average. Irish potatoes 40% planted, 67% 1976. Corn 7% planted, 5% 1976. Winter wheat 6% jointing, 27% 1976. Oats 3% jointing, 26% 1976. Winter wheat, oats, and pastures in fair to poor condition. Livestock in fair to poor condition.

MISSOURI: Temperatures climbed well above normal during the week, ranging 6° above normal in the Bootheel to 14° above normal in Northwest Prairie. Significant rain fell on Friday and Saturday ranging from 0.70 to 1.10 in., with a few reports of near 2.00 in. in southern and eastern Missouri.

MONTANA: Highs in 50's and low 60's common first of week. Above normal precipitation fell across west and southwest. Central near normal, elsewhere dry conditions continued.

Winter wheat condition fair. Topsoil moisture short. Wind damage to date light. Winter wheat greening most areas. Spring field tillage just starting. Calving and lambing losses lighter than average. Calving 30% complete, lambing 25% done, shearing 30% completed. Most livestock receiving supplemental feed.

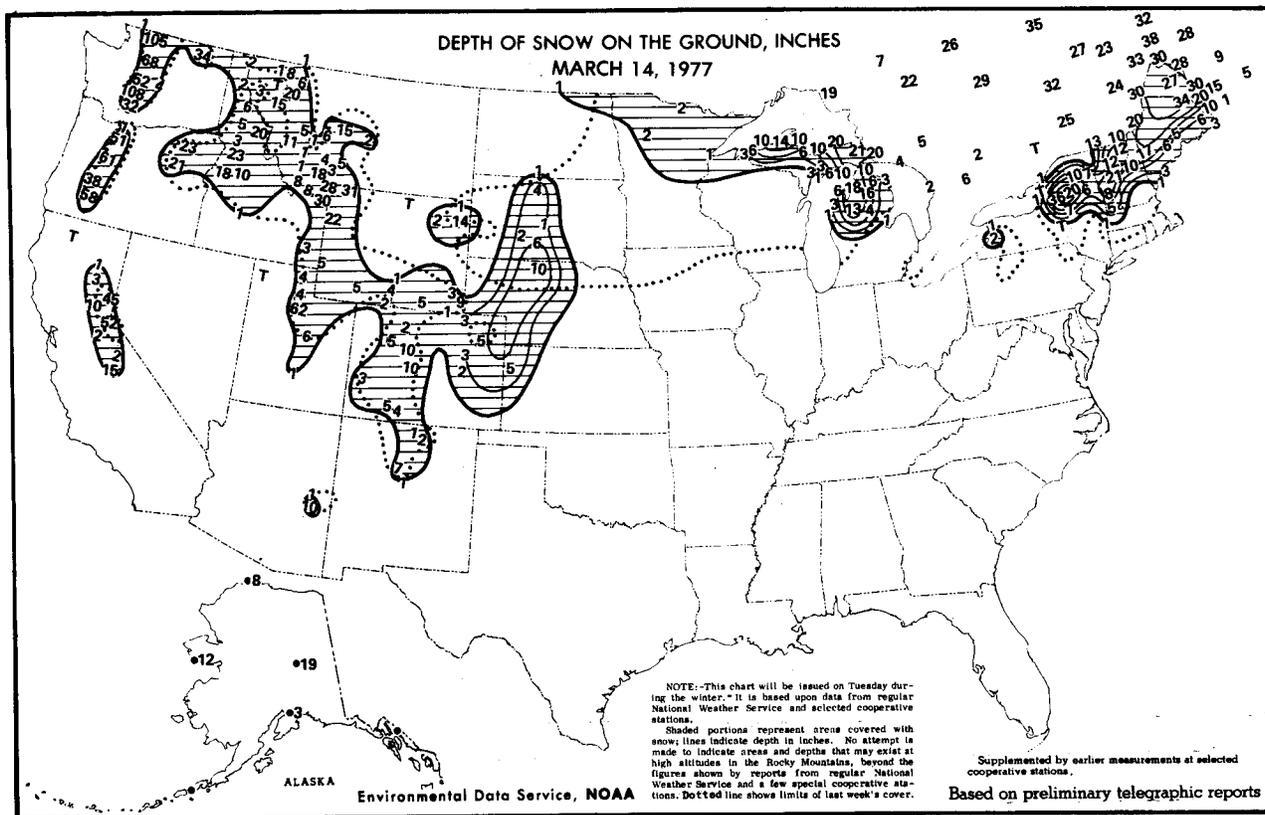
NEBRASKA: Precipitation general over State with 0.50 in. over west and central to 1.50 in. over extreme eastern edge. Blizzard conditions with 8 to 12 in. of snow over western half late in week. Temperatures 10° above normal west and 15° above normal east.

NEVADA: Storms brought light precipitation north and central. Temperatures near normal northwest, slightly above northeast and south central, slightly below south. Extremes: -4 to 78°.

Good progress seedbed preparation south. Stormy weather unfavorable for calving and lambing.

NEW ENGLAND: Trace of precipitation north on 7th. Rest of period was dry until heavy rains on 13th. Temperature average slightly above normal at beginning of week to well above normal at end of week in all areas.

NEW JERSEY: Temperatures averaged 8 to 12° above normal. Extremes: 24° at Newton on 8th and 73° at Flemington, Freehold, Pemberton and Hammonton on 11th. Rainfall averaged 2.04 in. north, 0.80 in. central and 0.29 in. south. Heaviest 24-hour total 2.75 in. at Newton on 13th. Soil temperature today averaged 40° north, 44° central and 46° south.



Soil preparation and vegetable planting increasing. Pastures greening.

NEW MEXICO: Major late winter storm moved through Thursday bringing violent winds and widespread blowing dust south half of state and light snow higher mountains of north.

Dryland wheat, poor. Irrigated wheat, fair. Durum wheat, barley, onions, lettuce, good. Cattle and sheep fair with calving and lambing active.

Dryland wheat, poor. Irrigated wheat, fair. Durum wheat, barley, onions, lettuce, good. Ranges, poor. Cattle and sheep fair with calving and lambing active.

NEW YORK: Temperatures averaged 10 to 20° above normal. Mid 30's in Adirondacks to mid 40's elsewhere. Precipitation ranged up to 2 1/2 in. in Mohawk Valley and southern tier to less than 1.00 in. elsewhere.

NORTH CAROLINA: Rainfall amounts beginning of week ranged between 0.50 in. and 1.50 in. end of week precipitation ranged from 1.00 in. coastal area to 5.00 in. mountains. Temperatures early week averaged about 10° below normal. Latter half of week 10 to 20° above normal.

Fieldwork: 2.9 dayd suitable. Soil moisture mostly adequate to surplus. Main farm activities: Seeding tobacco plant beds, topdressing small grains and pastures, land preparation for planting and planting Irish potatoes. Pastures 35% poor, 55% fair and 10% good. Tobacco plant beds mostly fair to good. Small grain crops improving. Irish potato planting 25% complete, 1976 45%.

NORTH DAKOTA: Temperatures ranged 9 to 19° above normal southeast to northwest. Extremes: 67° and -1°. Precipitation ranged 0.27 in. below normal to

0.57 in. above normal. Snow cover reduced to patches and sheltered areas. Weekend mostly cloudy, mild temperatures, with rain and mixed rain and snow over eastern half.

Farm activity centers on preparations for spring. Calving and lambing continue. Livestock good to fair condition.

OHIO: Scattered snow flurries 7th. Pleasant weather 8th to 11th. Showers evening of the 11th and 12th with locally heavy rainfall on the 12th. Near normal temperatures 7th, above normal remainder of week.

Winter wheat out of dormancy. Condition improving. Farm activities accelerated. Plowing in full swing but halted by weekend rain. Maple sirup harvest began. Soil moisture improving.

OKLAHOMA: Temperatures averaged from 4 to 13° above normal across State. Precipitation averages ranged from none west central to 1.86 in. north-east.

Wheat crop remains fair to good condition. High winds late week caused some loss in Panhandle. Rapid growth and winds depleting available moisture. Some greenbug problems southwest. Cattle moving onto grazeout acres west central and southwest. Some southern fields jointing. Spring oats and barley 90% seeded, 40% up to stand. Oats condition mostly good; Barley fair to good. Few fields corn seeded east. Wet topsoils eastern half State late week slowed fieldwork. Peaches now starting bloom, 1 to 2 weeks later than year ago. New growth in pastures and ranges easing supplemental feeding. Mild weather helping cattle condition, mostly fair to good.

OREGON: Rainfall rather heavy over much of State. Coastal areas averaged about 3.50 in. East of Cascades precipitation amounts ranged from 0.50 in.

in north central areas to 0.20 in. or less elsewhere. Temperatures near normal western Oregon, mostly 2 to 4° above normal east of Cascades.

Soil moisture supply continues to improve. Snowpack continues below normal, but snow continues to fall in higher elevations. General farm activity remains light. Some fertilizing grain and liming for alfalfa. Onions being shipped. Fall seeded grain and hay fields coming along. Some late sown grain emerging, doing well. Potato planting continued in east. Calving continued, feeding normal, supplies adequate. Stock in good condition.

PENNSYLVANIA: Warmest weather since mid-October. Generally dry and pleasant until heavy rains weekend. Weekly temperatures 12 to 18° above normal. Extremes: 74° and 12°. Precipitation totaled from 0.60 in. north central mountains to 2.00 in. lower Susquehanna Valley. Only traces of snow cover remain in Poconos.

Farmers preparing machinery and equipment for spring fieldwork. Spreading winter's accumulation of manure.

PUERTO RICO: Island average rainfall 0.31 in. or 0.23 in. below normal. Highest weekly total 2.61 in. at Pico Del Estel Uquillo followed by 1.37 in. at San Lorenzo. Highest 24-hour total 0.76 in. at Pico Del Estel Uquillo. Temperatures averaged about 77° on coasts and 71° interior divisions. Extremes: 92° and 51°.

SOUTH CAROLINA: Temperatures above normal throughout State. Extremes: 24°, 77°. Rainfall above normal all areas. Few areas reported 24 hour amounts over 3 in. on Saturday. Some flooding on Saturday.

Tobacco plant beds fair to good condition while moisture conditions were good. Tobacco planted later than normal. Tobacco plants smaller than normal. In some areas vegetable weevil larvae damaging plants. Weeds a problem some areas. Other activities: Preparing land for spring planting, some corn planting, planting cabbage, collards. Peach trees starting to bloom throughout State.

SOUTH DAKOTA: Third major storm in three weeks brought rain and snow. High winds accompanied storm; some drifting occurred in west and central sections, blocking major highways. Snow depths ranged to over 12.00 in. Many reports of moisture amounts exceeding 2.00 in. Greatest precipitation exceeded 3.75 in. northeast. Most of State well above normal precipitation. Temperatures 9 to 17° above average. Extremes: 8° and 69°.

Calving started. Precipitation helping ease water shortages. Operators preparing for spring seeding.

TENNESSEE: Precipitation averaged 1.00 to 2.00 in. Extreme 3.27 in. at Tullahoma. Temperatures 3 to 10° above normal.

Soil moisture 24% short, 67% adequate, 9% surplus. Fieldwork averaged 3.2 days. Pastures, oats and wheat condition poor. Plowing 34% complete. Tobacco beds 28% planted. Tobacco striping behind schedule. Livestock condition poor.

TEXAS: Temperatures 1 to 8° above normal except along coast and far west 2 to 4° below normal. Precipitation below normal south, along coast, and in northeast. Otherwise normal.

Planting corn, cotton and sorghum at rapid pace. High winds on Plains further depleted topsoil moisture. Wheat on Plains suffered damage from high winds, blowing sand. Wheat all areas making new growth, but most in western 1/2 needs

moisture. Greenbugs building up on Plains, Edwards Plateau, in north. Spraying common on Low Plains, in Cross-Timbers. Oats growing well, many fields providing increased grazing. Cotton planting accelerated in south, still only 1%, 3-year average 4%. Early fields in Lower Rio Grande Valley up to stands. Corn planting, now 4%, advanced rapidly central and south. Progress well behind 19% average. Corn emerged along Gulf Coast. Sorghum planting, at 8%, lags behind 22% average. Planting in southern 1/2 should progress rapidly, seedbed preparations complete.

Lower Rio Grande Valley: Favorable weather allowed cantaloup, honeydew, watermelon planting progress. Harvest citrus, carrots, cabbage active. Onions making good progress. Coastal Bend: Cucumber planting continues. Watermelon fields showing good stands. Laredo: Carrots, cabbage, onions progressing well. San Antonio-Winter Garden: Harvest carrots, cabbage, spinach continues. Onions responding favorably to warm weather. Potatoes progressing well. Melon planting active.

Upper Gulf Coast: Tomato, watermelon planting begun in drained areas. Potato, onion, cabbage planting continues. East Texas: Planting potatoes, onions, cabbage, sweet corn as fields dry. Land preparation for watermelons near completion. North Texas: Onion, potato planting active. Potato planting complete in Knox-Haskell counties with early fields up, doing well. High Plains: Onion setting begun. Land preparation pre-plant, Irrigation potato, onion fields active most areas. Peach trees in South Texas have excellent set. Central counties, most varieties in full bloom. Pecan buds swelling eastern and southern counties. Range grew noticeably. Cattle respond improved pastures, warmer weather. Lice increasing north and east. Goat shearing active West Central. Sheep shearing should begin in 2 weeks.

UTAH: Scattered areas of snow latter part of week and over weekend. Accumulated amounts generally light but locally moderate few localities. Moisture deposit all areas of State continues very serious. Average temperatures generally near normal.

Spring plowing, ditch cleaning, orchard pruning continues southern sections. Apricots and plums already past bloom--coming a week early this year. Placing of turkey poults in full swing. Range claving and lambing in progress. Most ranchers hauling water to sheep and cattle on ranges.

VIRGINIA: Temperatures averaged above normal. Extremes: 21 and 80°. Rainfall moderate to heavy, mostly end of period.

Fieldwork: 3.9 days suitable. Topsoil moisture 39% short, 48% adequate, 13% surplus. Plowing, fertilizer and lime spreading, very active. Pasture condition fair. Winter grain and grazing crops in poor condition but improving. Hay still in short supply, much being purchased. Livestock good condition. Seeding of grasses, clover, and oats underway. Fruit tree pruning and gardening active. Tobacco plantbeds prepared and seeded. Potato growers made fair progress in land preparation and early planting. Soil samples taken.

WASHINGTON: West: Temperatures ranged 2° below normal East Cascade Foothills to 1 to 2° above normal elsewhere. Precipitation averaged 3.00 in. above normal coastal area to 0.10 in. above East Cascade Foothills.

Harvest forced rhubarb continues. Cabbage, strawberries, raspberries, pastures making growth. Planting raspberries, seed beets, spinach. Christmas tree farming, logging operating. Livestock good condition.

East: Temperatures 1° above normal Okanogan area to 4° above normal northeastern and Palouse/Blue Mountain area. Precipitation averaged near normal Okanogan area to 0.30 in. above normal Palouse/Blue Mountain area.

Irrigation prospects deteriorating. Grape, fruit tree growers hoping only to keep trees alive. Mint roots moved, planting, fertilizing continue. Summerfallow grains showing improvement. Recrop grain marginal; ground critically dry. Seeding wheat, barley, peas, grasses.

WEST VIRGINIA: Temperatures averaged well above normal. Highest reported 77°, lowest 14°. Precipitation above normal, heavy showers late Saturday.

Hay supplies 20% adequate, 60% short, 20% critically short. Soil moisture 70% adequate, 30% short before rain at end of week. Fieldwork: 5.0 days suitable. Livestock fair to good condition.

WISCONSIN: Temperatures well above normal. Sunny

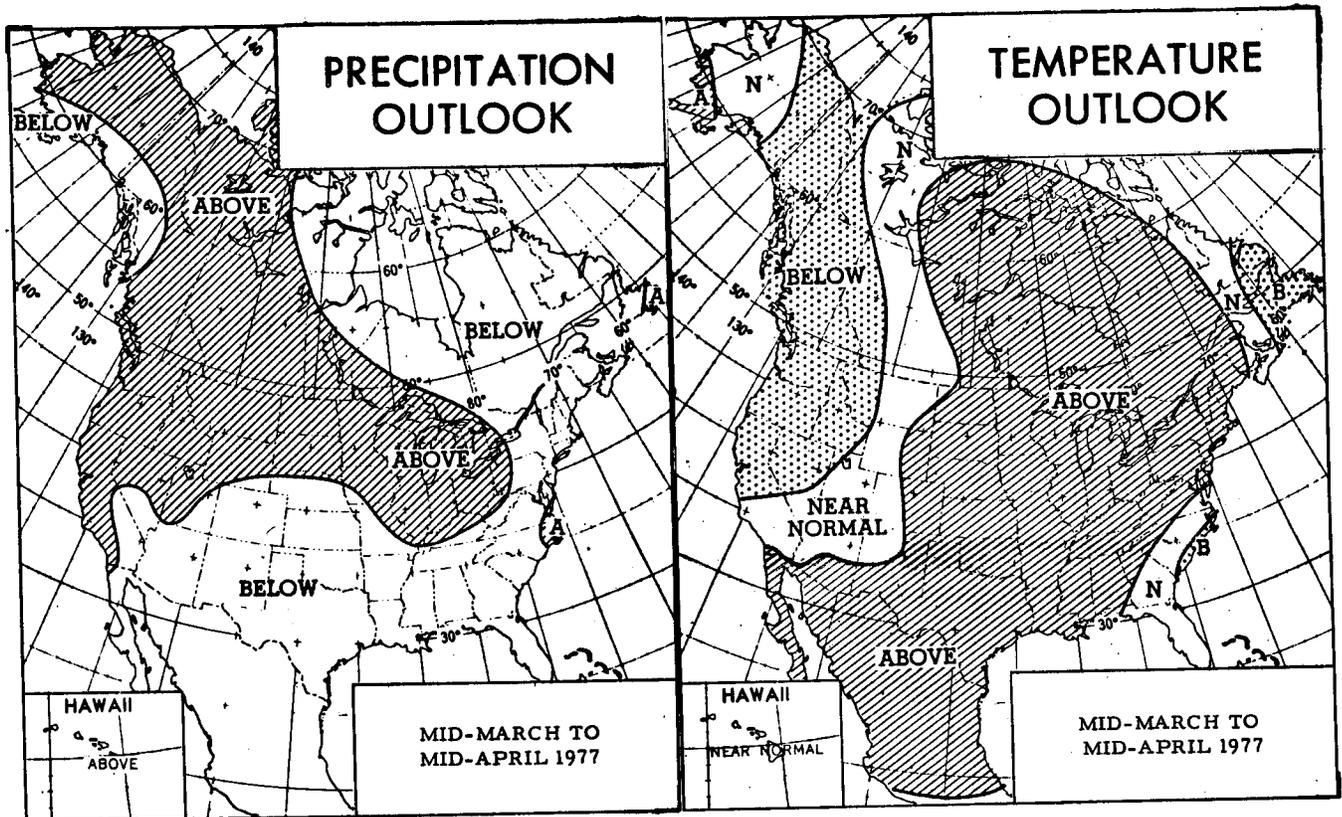
and unseasonably warm with temperatures in 50's north and 60's south. Cloudy with rain evening of 10th and continuing 11th. Heaviest rainfall of 1.50 in. northwest, lightest south and east at 0.40 in. Scattered rain and drizzle weekend. Temperatures in 40's and 50's except 60's southeast 12th during brief clearing.

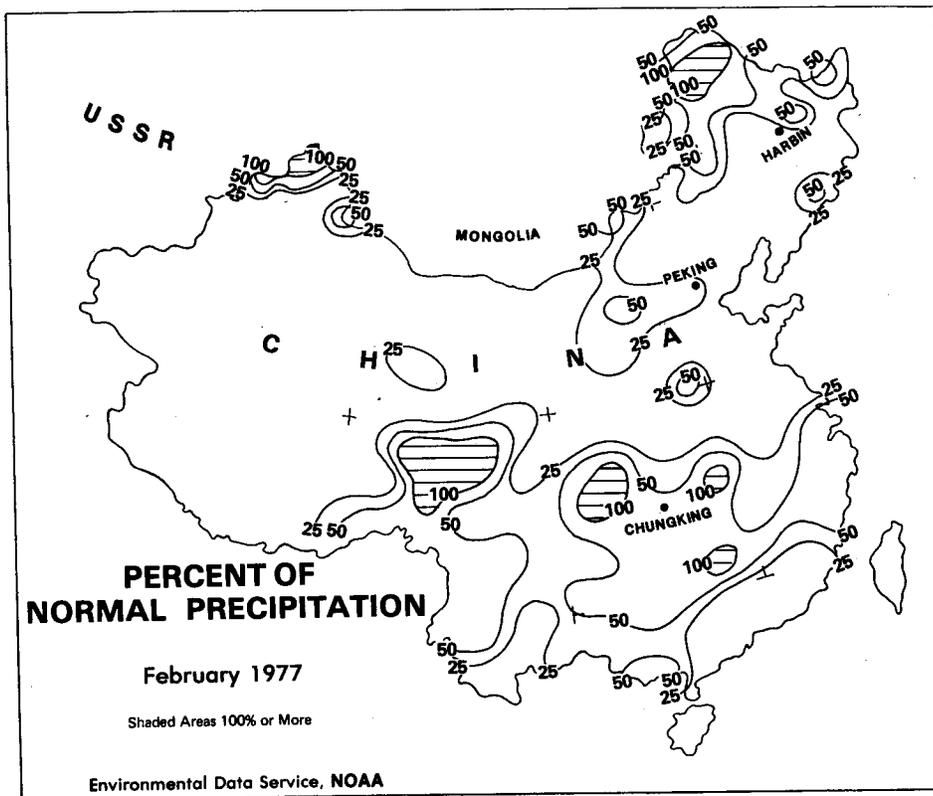
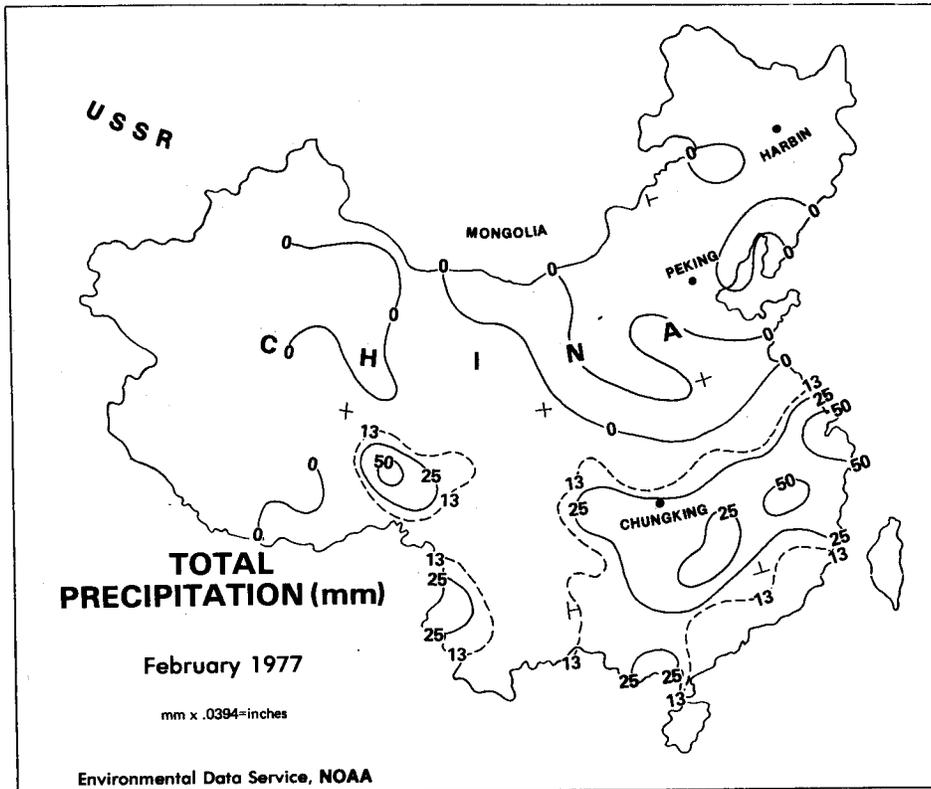
Frost depths averaged 16 in. as of 11th, decline of 14 in. from two weeks earlier. Some areas now frost free. Snow depths averaged 2 in., most of State had no snow on ground.

WYOMING: Temperature range above normal. Belle Fourche drainage reported departure of +12°. After passing of winter storm, precipitation still below normal.

Major activities: Calving, lambing and working soil for planting. Some barley planting in Big Horn Basin. Majority of state still dry. Snowfall in southeast mostly in drifts. Little winter wheat wind damage reported. Feed supplies holding; short some localities. Livestock in good condition.

Average Monthly Weather Outlook





World Weather and Crop Update

NORTH AMERICA. There has been some additional improvement in the agricultural scene in the United States over the past month. The northern and coastal regions of Washington and Oregon Great Plains, the Corn Belt states, have received significant precipitation to ease the critical drought situation in those areas. But, there has been no significant improvement in the extreme drought in California, and parts of the southern Great Plains, the wheat areas of Kansas and Oklahoma in particular, remain dry. Subsoil moisture reserves are well below normal throughout the Plains states and the Corn Belt. The snow pack in the western mountains and streams flow throughout the Plains states also are well below normal. Mild temperatures, however, have prevailed over much of the United States since mid-February and the greening of pastures has begun to ease pressure on feed supplies.

USSR. Winter grains in the USSR have not been subjected to any significant stress over the past month. In fact, temperatures were well above normal in February throughout most of European USSR, and mild temperatures have continued into mid-March. Precipitation also has been above normal for the reporting period which has resulted in excellent soil moisture reserves in almost all areas of USSR. The mild temperatures over the past month resulted in an early retreat of snow cover in the southern regions where field work commenced about a month earlier than usual. Winter grains have resumed growth in the North Caucasus, Moldavia and much of the Ukraine. Temperatures also have moderated over Asiatic USSR although winter still prevails over the principal agricultural areas.

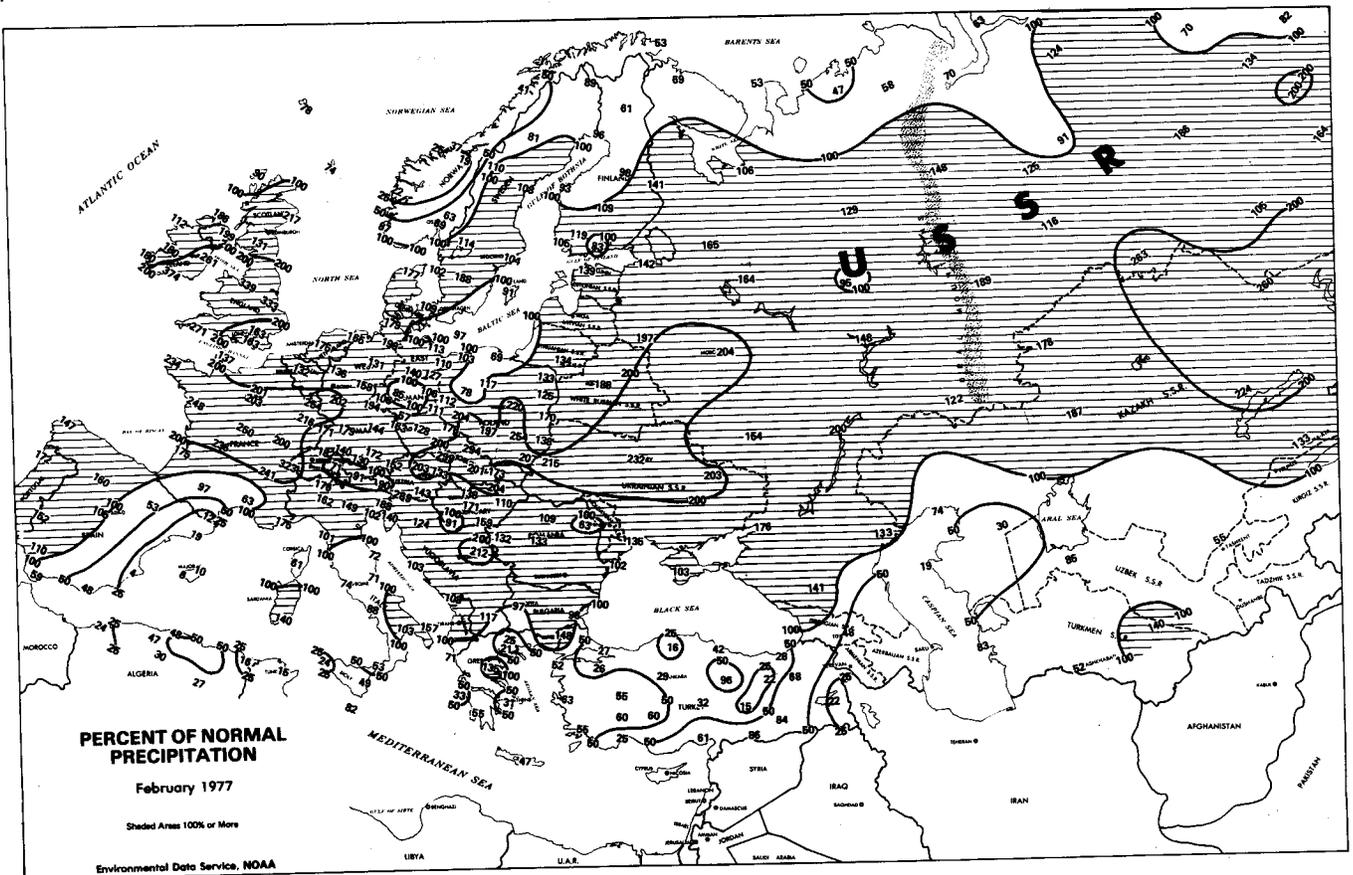
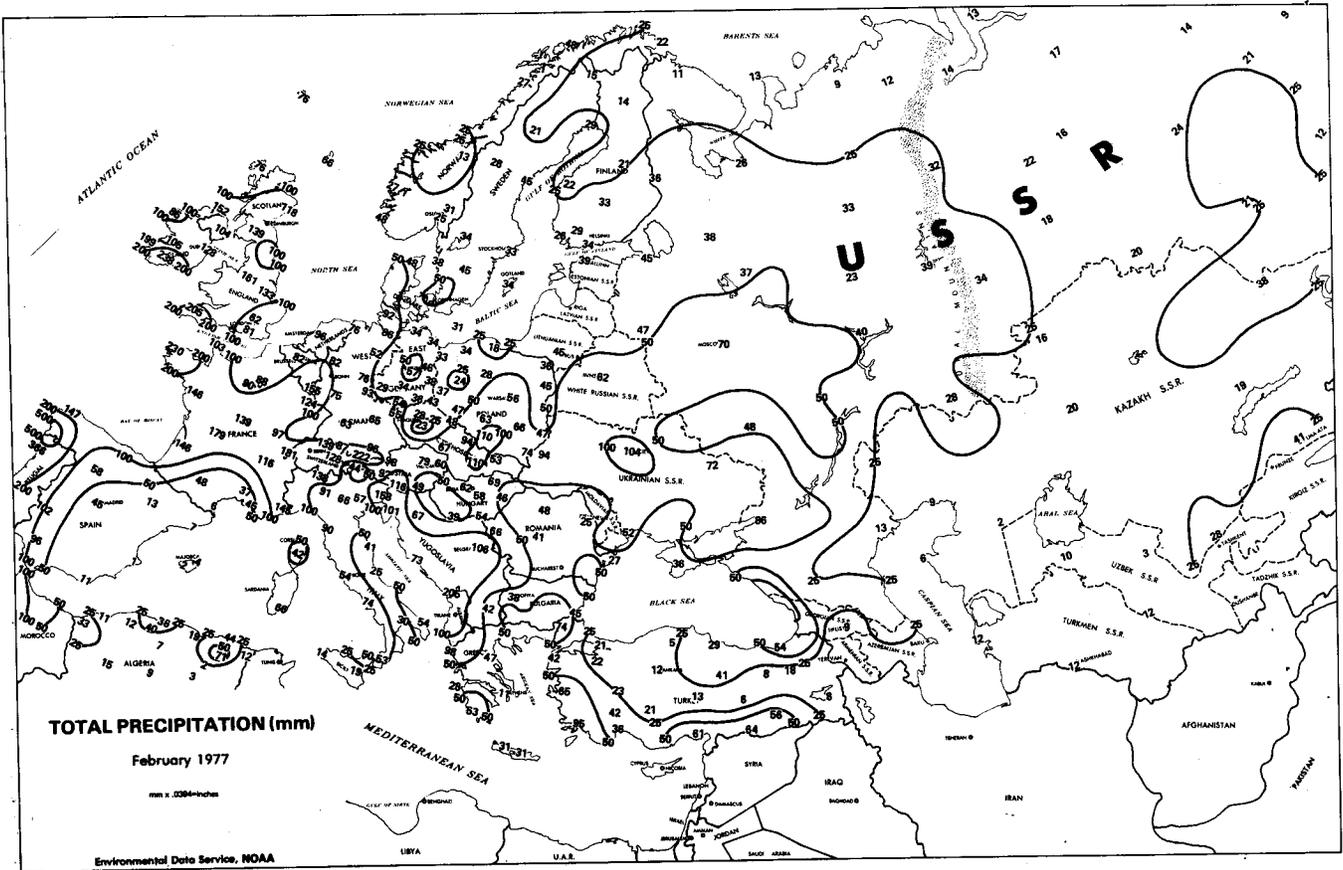
EUROPE. Mild, wet weather continued to dominate Western Europe over the past month. Temperatures have been well above normal along with precipitation. February precipitation was double and even three times the monthly norm in many regions. However, precipitation has been well below normal in some of the Mediterranean regions including the coastal areas of Spain and Italy, Sicily, and the lower Balkan countries. Rainfall has been less than 50 percent of normal in Greece, Turkey, and in North Africa, excluding Morocco. As the end of the rainy season approaches, the moisture deficit in these regions could worsen. Eastern Europe also has experienced mild temperatures and above normal precipitation during the past month. As of the end of February, estimated soil moisture was normal throughout the region except in East Germany and Bulgaria.

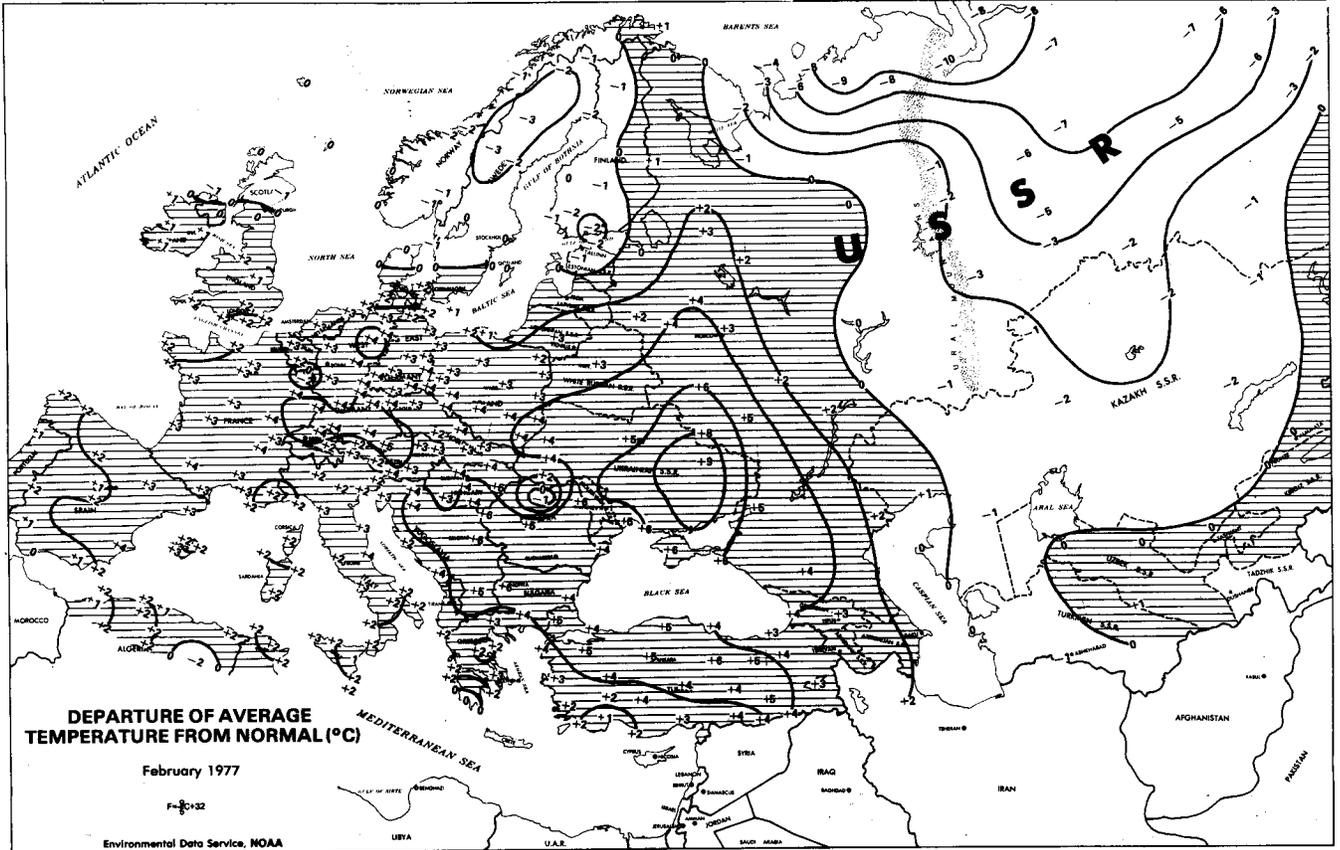
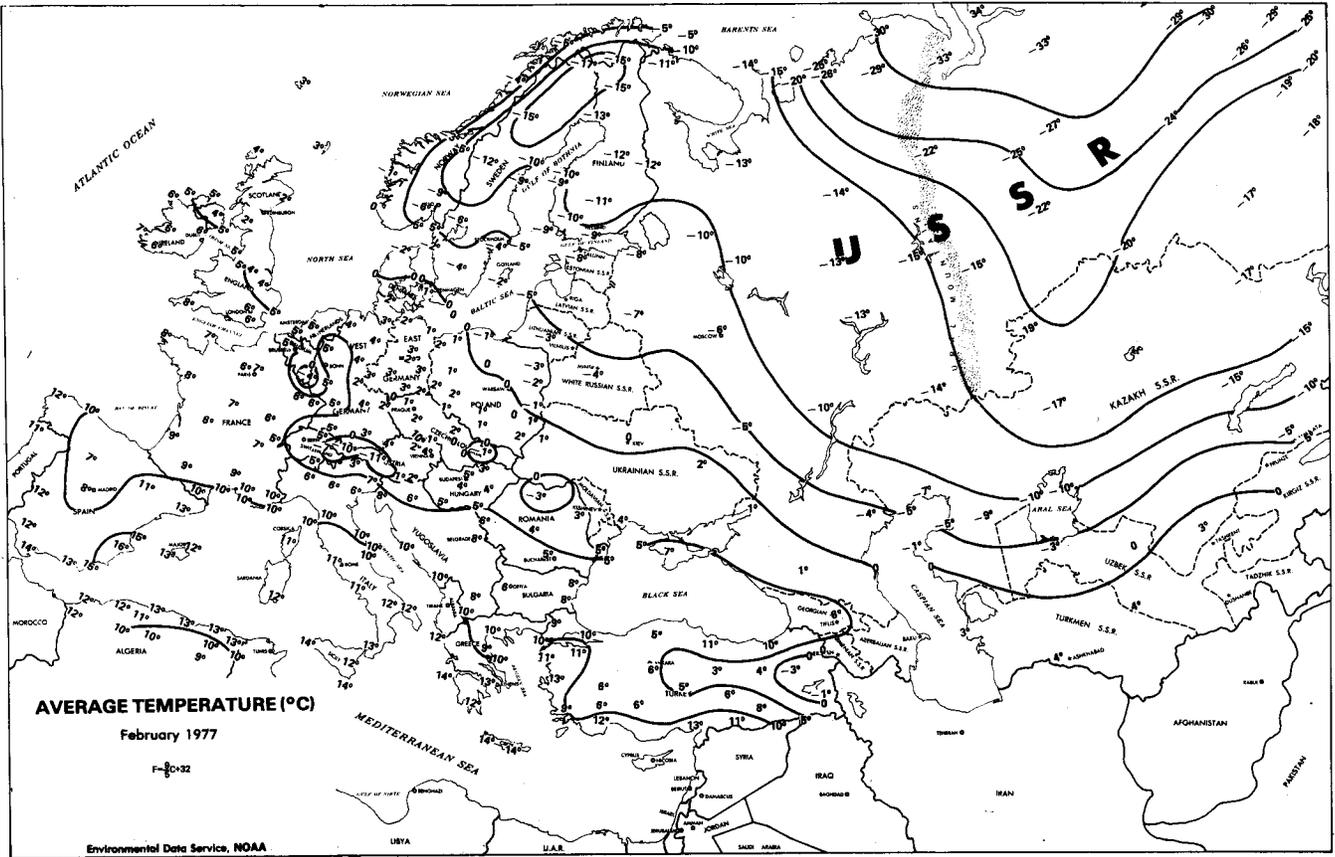
AFRICA. Crop prospects continue to be favorable in South Africa with generous rains falling over

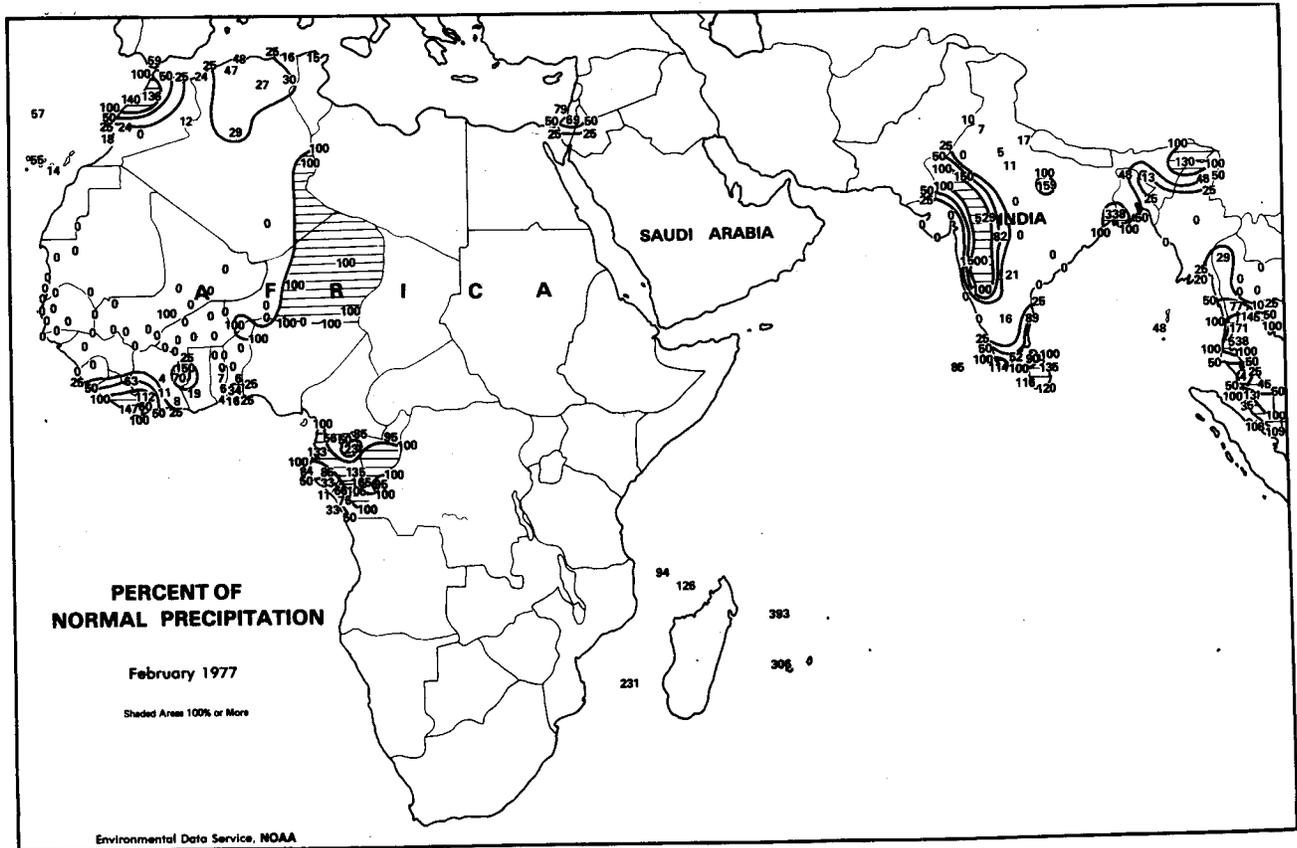
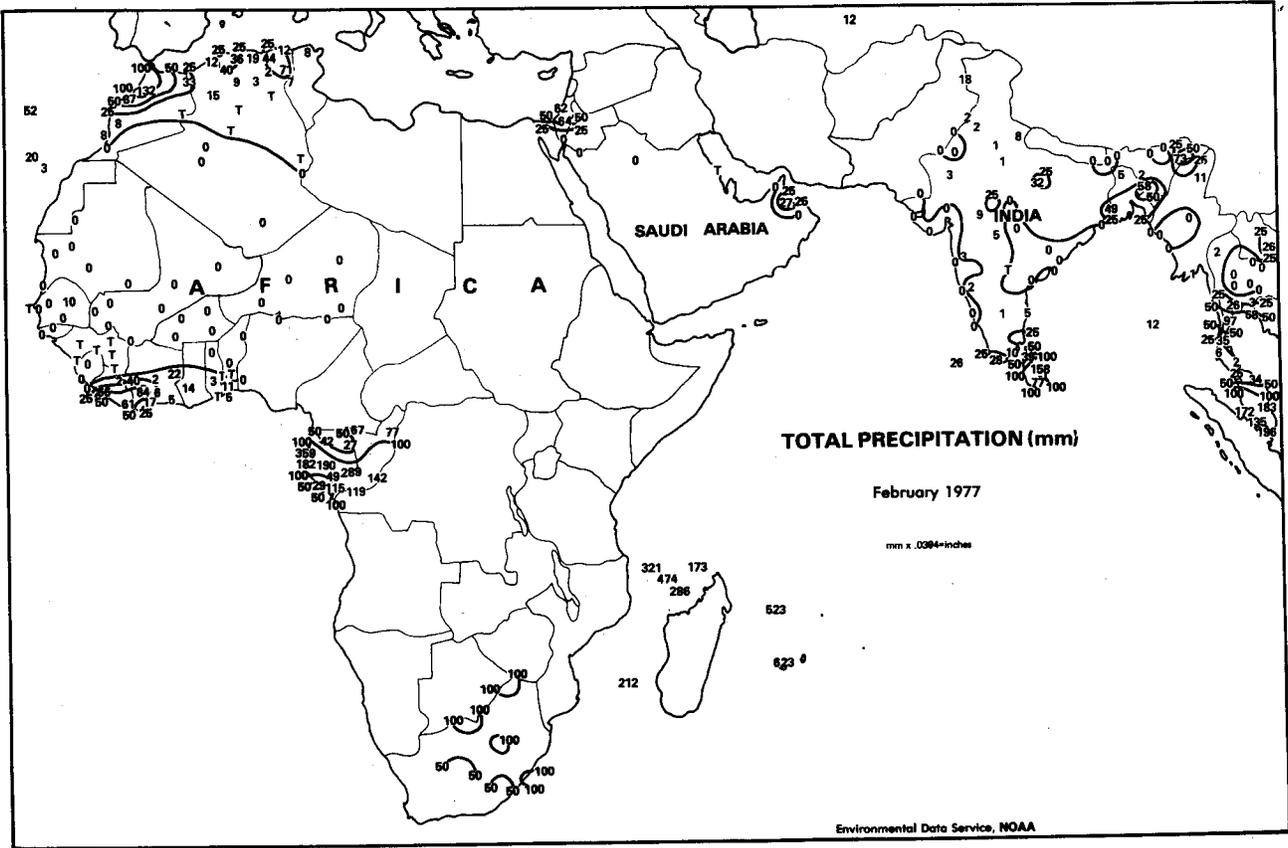
the main agricultural areas during the past month. Wheat growing regions in Morocco were favored by well above normal precipitation in February, but Tunisia and Algeria received less than 50 percent of the February norm with no significant improvement in the first half of March. The Sahel remains seasonally dry.

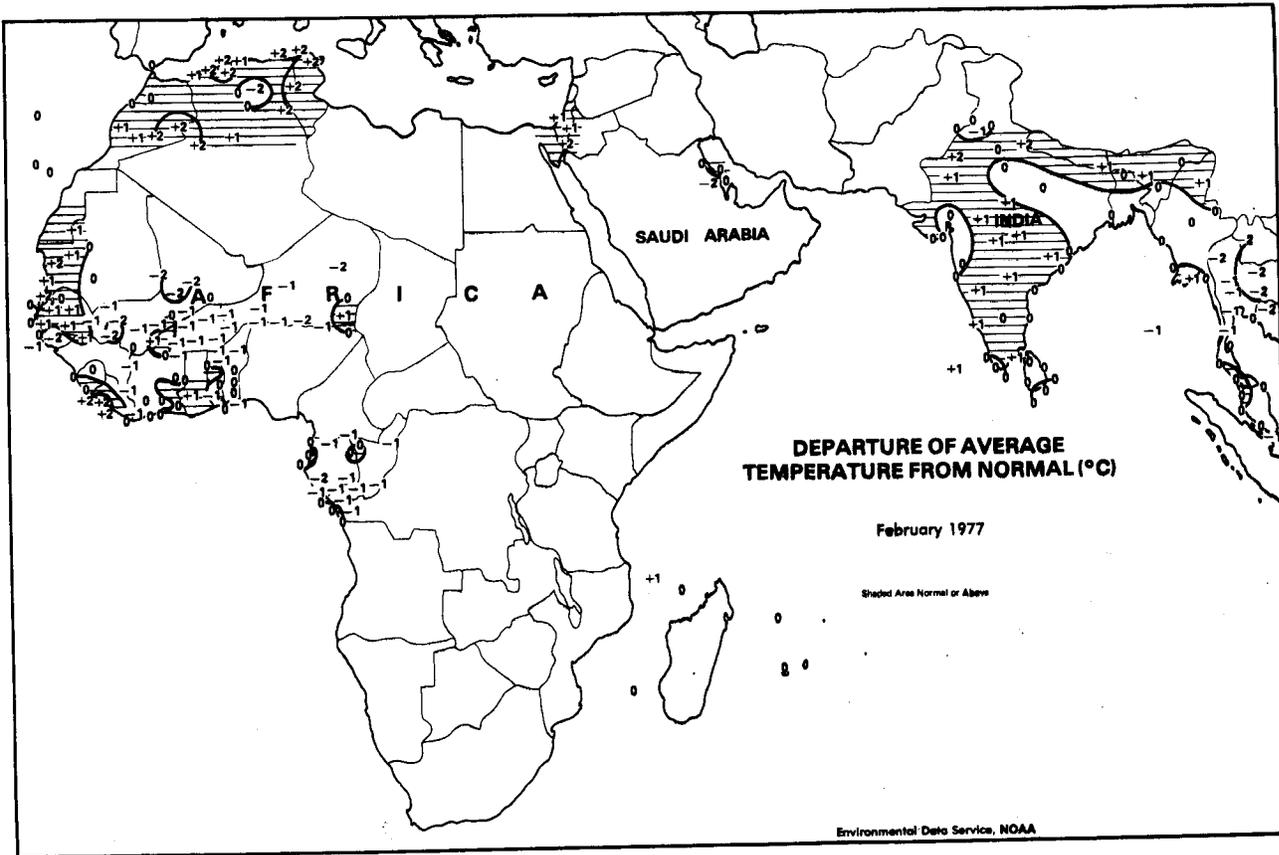
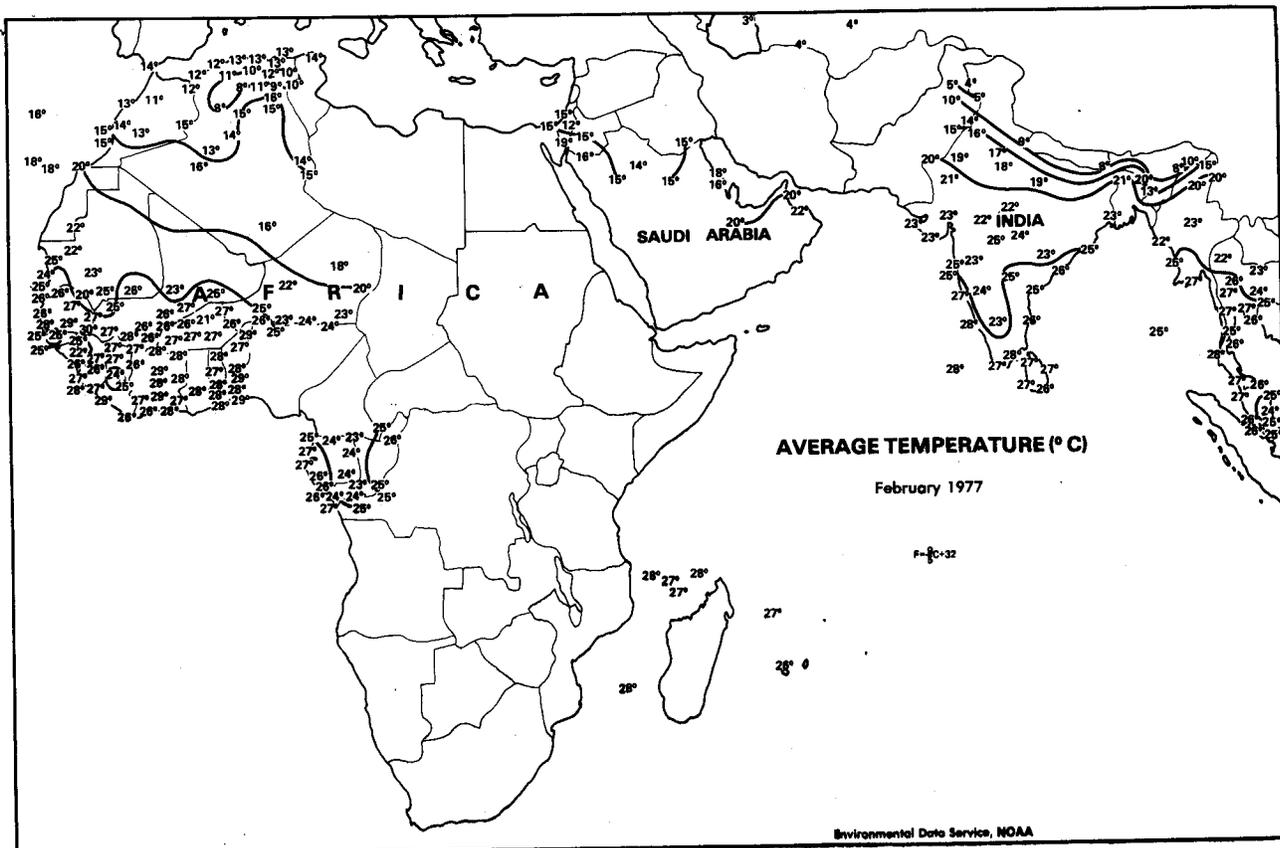
SOUTH AMERICA. Heavy showers have repeatedly swept through the main Argentine grain belt during the latter half of February and continuing into March. February precipitation was well above normal in the main corn growing areas with many stations reporting 2-3 times normal amounts. Locally heavy downpours may have resulted in some crop damage. Heavy precipitation also hit Uruguay and the lower half of Rio Grande do Sul, Brazil's southernmost province. Elsewhere in Brazil the far northern states were seasonally wet in February; precipitation has been about normal in the northeast but generally below normal in the southeast. This pattern has generally prevailed into March. Crop production, however, has not been seriously affected to date. A continued drought in Colombia is having a negative impact on agricultural production in that country.

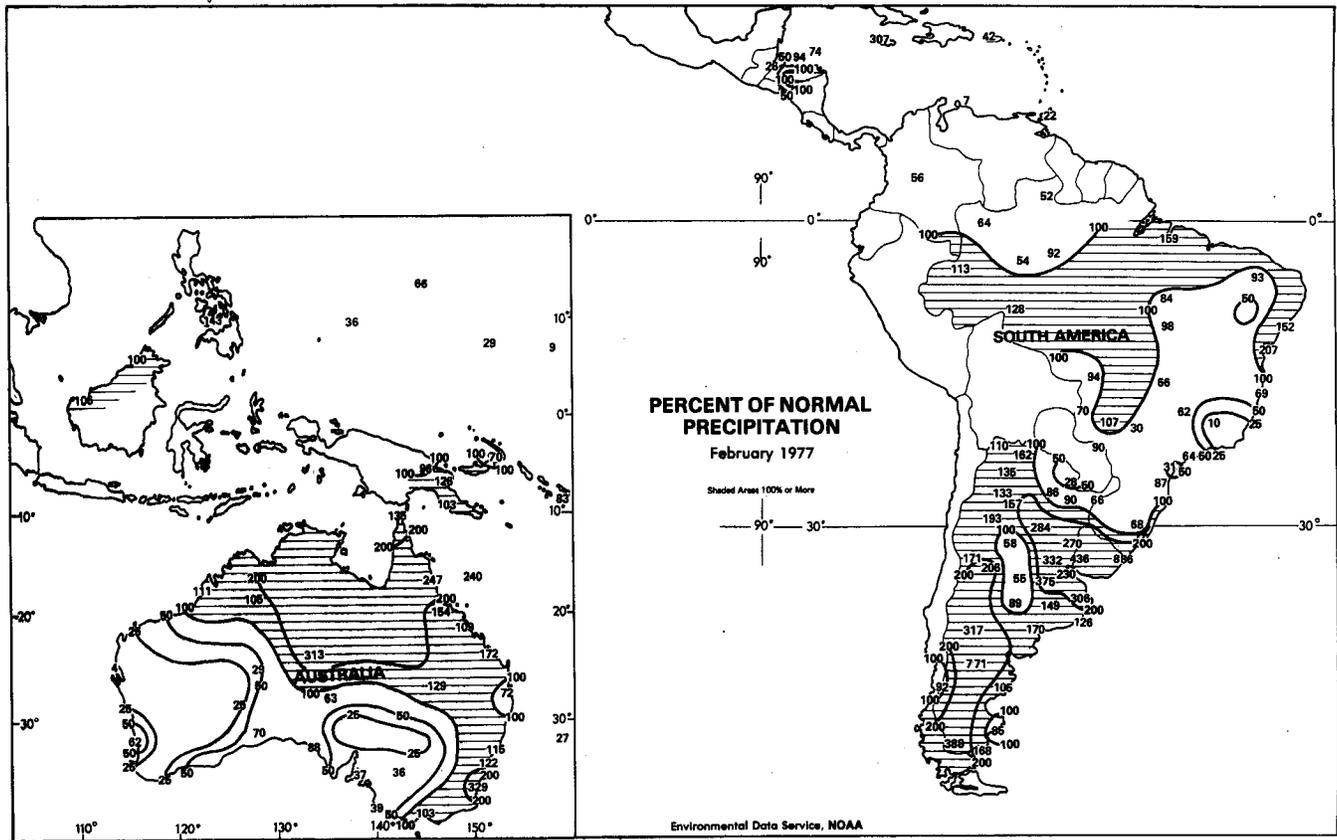
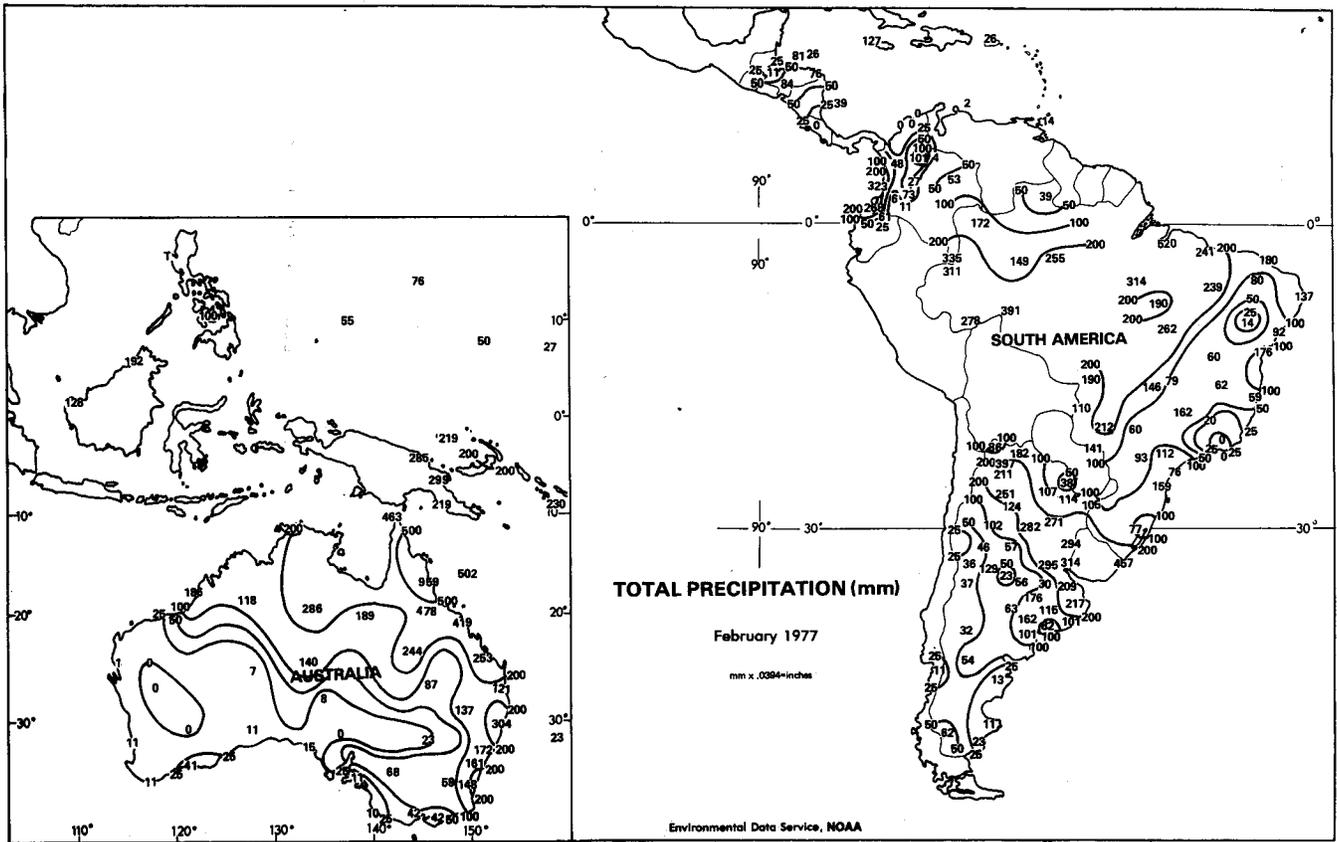
ASIA: Temperatures were generally below normal in the People's Republic of China during February but there has been a seasonal moderation in the first half of March. Precipitation, however, was below normal throughout most of the country in February, and this pattern has continued into March except for scattered showers mainly in Szechwan province and the lower Yangtze Valley. Precipitation has been particularly sparse throughout the main winter wheat belt in North China, and reports of drought and anti-drought measures have appeared in the provincial press of some of the key producing provinces. In South China, transplanting of early rice could be delayed if the current dry spell is not broken. Kwangtung Province, China's most important rice producing province received less than 20 percent of normal February rainfall, and there has been no improvement thus far in March. In India, precipitation was generally below even the low dry season norms except in the extreme south and extending into Sri Lanka. While much of the crop areas are irrigated, the deficiency of moisture is having an adverse impact on unirrigated crops. Seasonal tropical activity has brought heavy precipitation to most of northern Australia, but especially in the northeastern quadrant of that country. In general, precipitation has been above normal in the northeastern half (northwest-southeast) of Australia and below normal in the remainder. Unirrigated crops, pastures and rangelands are under stress in the cropping areas in Southwest and South Australia, Victoria, and parts of interior New South Wales.

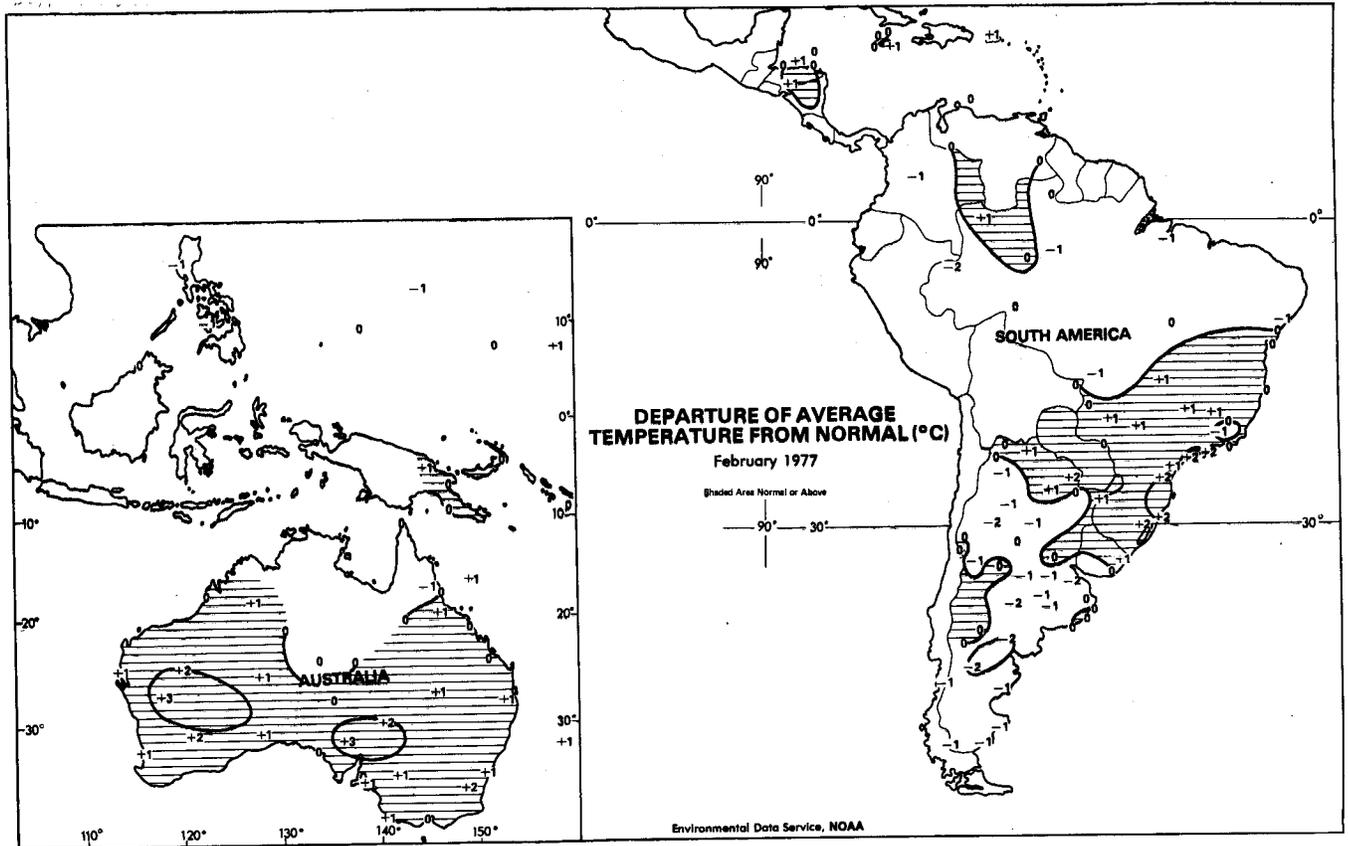
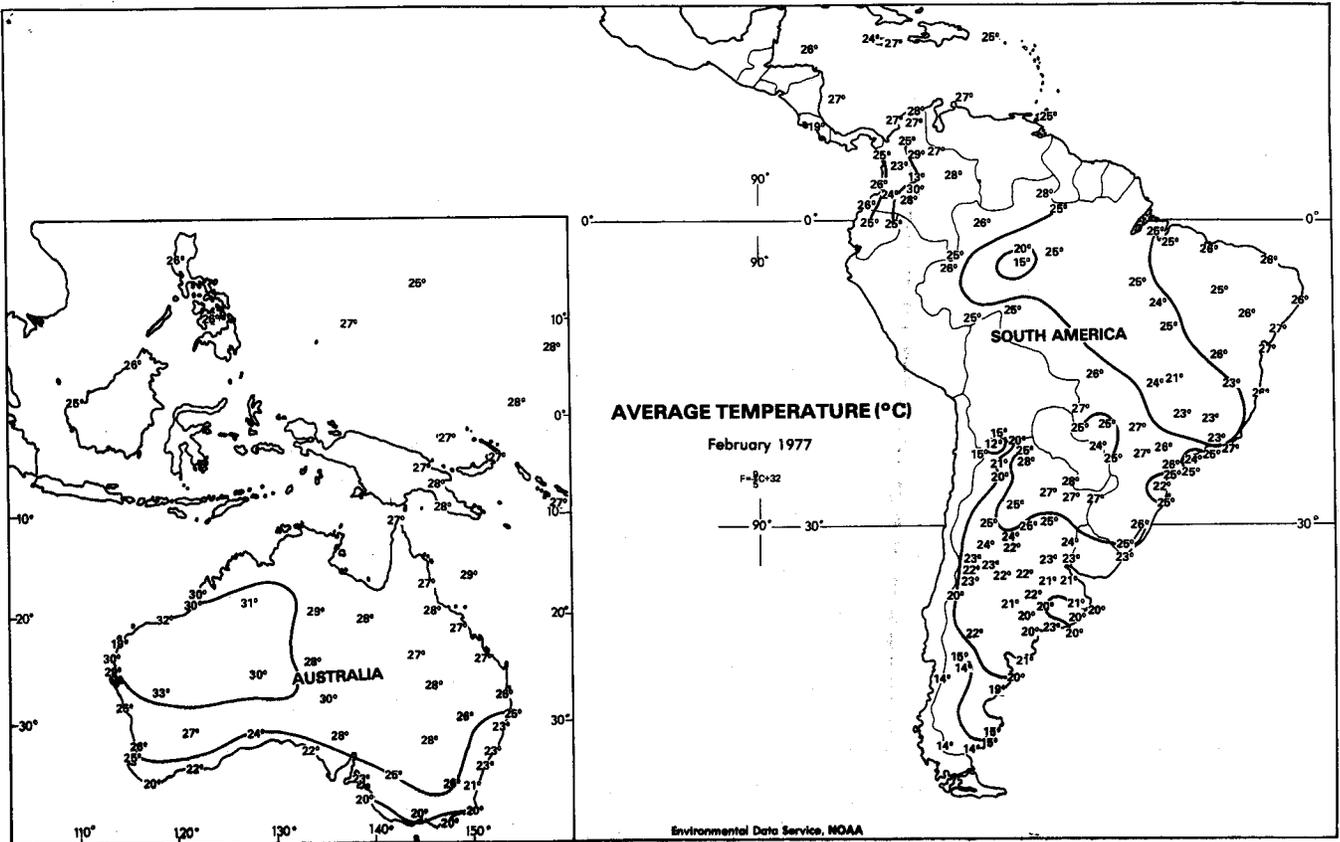






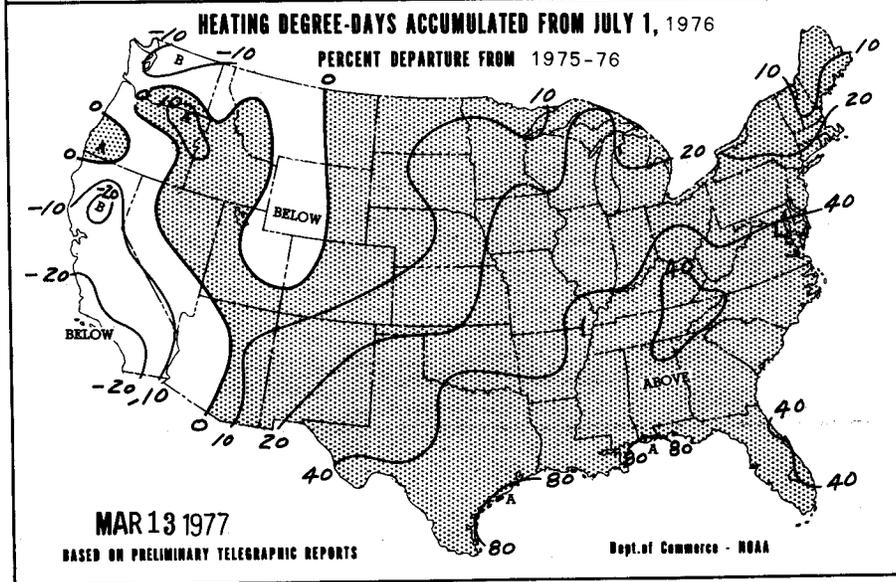
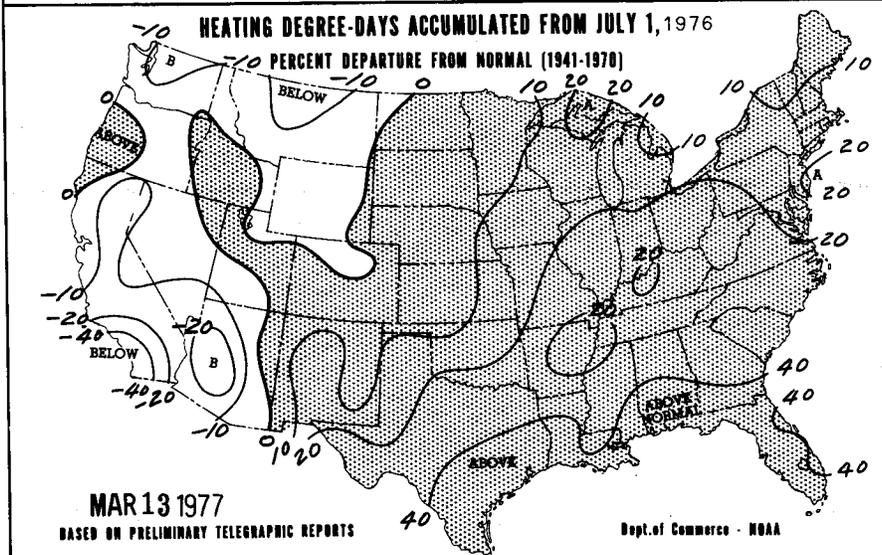
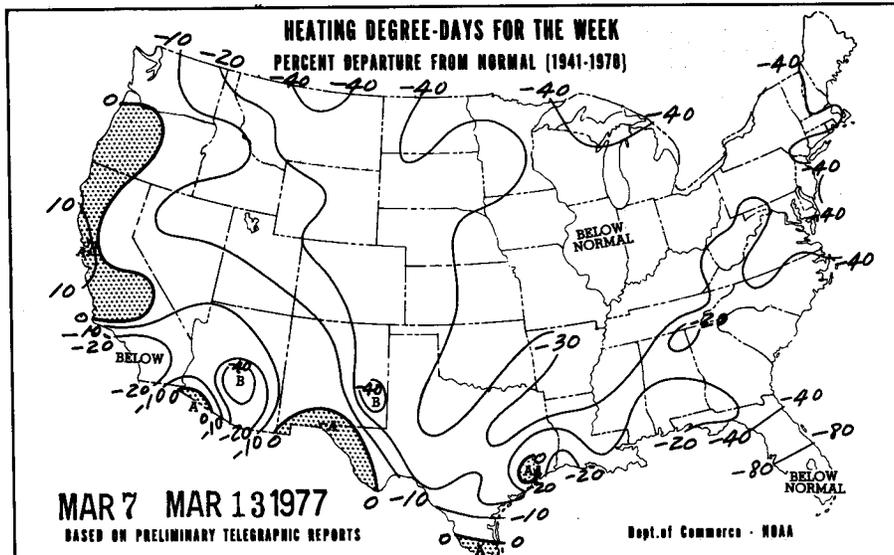






HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING MAR. 13, 1977.

STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +			STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +			STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +		
	TOTAL	DEPARTURE*	TOTAL	DEPARTURE*	DEPARTURE FROM 1975-76		TOTAL	DEPARTURE*	TOTAL	DEPARTURE*	DEPARTURE FROM 1975-76		TOTAL	DEPARTURE*	TOTAL	DEPARTURE*	DEPARTURE FROM 1975-76
ALA. BIRMINGHAM...	199	3	3314	331	10227	MAINE CARIBOU...	102	103	800	565	332	OKLA. YOUNGSTOWN...	121	104	6320	1199	1554
MOBILE...	199	3	3314	331	10227	PORTLAND...	102	103	800	565	332	OKLA. OKLAHOMA CITY...	62	73	3606	400	886
MONTGOMERY...	199	3	3314	331	10227	MD BALTIMORE...	84	84	4474	556	1124	TULSA...	83	83	3736	530	858
ARIZ FLAGSTAFF...	199	2	5091	44	14444	MASS BOSTON...	113	90	4834	398	849	OREG ASTORIA...	145	145	5437	214	214
PHOENIX...	199	2	5091	44	14444	MICH ALPENA...	67	67	3337	643	1124	BURNS...	145	145	5437	214	214
TUCSON...	199	2	5091	44	14444	DETROIT...	67	67	3337	643	1124	MEDFORD...	145	145	5437	214	214
WINSLOW...	199	2	5091	44	14444	GRAND RAPIDS...	67	67	3337	643	1124	PENDLETON...	145	145	5437	214	214
YUMA...	199	2	5091	44	14444	HOUGHTON LAKE...	67	67	3337	643	1124	PORTLAND...	145	145	5437	214	214
ARK FORT SMITH...	78	4	3885	93	10666	LANSING...	67	67	3337	643	1124	SALEM...	151	151	5671	157	157
LITTLE ROCK...	58	6	3885	93	10666	LANSING...	67	67	3337	643	1124	PA ALLENTOWN...	111	111	5588	54	995
CALIF BAKERSFIELD...	67	1	1385	4	318	LANSING...	67	67	3337	643	1124	ERIE...	111	111	5588	54	995
EUREKA...	67	1	1385	4	318	LANSING...	67	67	3337	643	1124	HARRISBURG...	111	111	5588	54	995
FRESNO...	67	1	1385	4	318	LANSING...	67	67	3337	643	1124	PHILADELPHIA...	111	111	5588	54	995
SAN FRANCISCO...	67	1	1385	4	318	LANSING...	67	67	3337	643	1124	PITTSBURGH...	111	111	5588	54	995
STOCKTON...	67	1	1385	4	318	LANSING...	67	67	3337	643	1124	SCRANTON...	111	111	5588	54	995
COLO DENVER...	145	5	4366	116	142	MINN DULUTH...	79	79	4000	775	1111	R.I. PROVIDENCE...	125	85	5378	700	918
GRAND JUNCTION...	145	5	4366	116	142	ST. CLOUD...	79	79	4000	775	1111	S.C. CHARLESTON...	59	59	2583	657	931
PUEBLO...	145	5	4366	116	142	MISS JACKSON...	75	75	378	350	897	COLUMBIA...	59	59	2583	657	931
CONN BRIDGEPORT...	136	6	4780	517	95	MO COLUMBIA...	97	97	5000	1111	1488	GREENVILLE...	59	59	2583	657	931
HARTFORD...	118	10	5457	561	95	KANSAS CITY...	111	111	5000	1111	1488	S.DAK ABERDEEN...	59	59	2583	657	931
DEL WILMINGTON...	103	7	4637	587	1004	SPRINGFIELD...	98	98	5000	1111	1488	HURON...	59	59	2583	657	931
D.C. WASHINGTON...	65	8	4038	482	1163	MONT BILLINGS...	61	61	3000	611	1111	RAPID CITY...	59	59	2583	657	931
FLA PALM BEACH...	35	1	1954	704	1111	ST. LOUIS...	111	111	5000	1111	1488	STOUR FALLS...	59	59	2583	657	931
BOYTON BEACH...	35	1	1954	704	1111	NEBR GRAND ISLAND...	111	111	5000	1111	1488	TENN CHATTANOOGA...	100	100	5000	884	884
JACKSONVILLE...	35	1	1954	704	1111	NEBR LINCOLN...	111	111	5000	1111	1488	KNOXVILLE...	100	100	5000	884	884
JACKSONVILLE...	35	1	1954	704	1111	NEBR NEBRASKA...	111	111	5000	1111	1488	NASHVILLE...	100	100	5000	884	884
KEY WEST...	35	1	1954	704	1111	NEBR NEBRASKA...	111	111	5000	1111	1488	TEXAS ABILENE...	40	40	3010	693	884
LAKE CHARLES...	35	1	1954	704	1111	NEBR NEBRASKA...	111	111	5000	1111	1488	AMARILLO...	40	40	3010	693	884
LAKE CHARLES...	35	1	1954	704	1111	NEBR NEBRASKA...	111	111	5000	1111	1488	ARLINGTON...	40	40	3010	693	884
LAKE CHARLES...	35	1	1954	704	1111	NEBR NEBRASKA...	111	111	5000	1111	1488	ATLANTA...	40	40	3010	693	884
LAKE CHARLES...	35	1	1954	704	1111	NEBR NEBRASKA...	111	111	5000	1111	1488	BIRMINGHAM...	40	40	3010	693	884
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